

OCT 24 1986

STATISTICAL SUMMARIES OF IOWA

STREAMFLOW DATA

THROUGH SEPTEMBER 30, ~~1974~~  
1971



U. S. GEOLOGICAL SURVEY

Open-file report

Iowa City, Iowa

1974



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ADDENDUM to open-file report,  
"Statistical Summaries of Iowa Streamflow Data  
Through September 30, 1971."

The summaries compiled in this report were developed from streamflow records collected mainly in cooperation with the following agencies:

Corps of Engineers, U. S. Army  
Soil Conservation Service, U. S. Department of Agriculture  
Iowa Geological Survey  
Iowa Natural Resources Council  
Iowa State Highway Commission  
Iowa State University and Agricultural Experiment Station  
University of Iowa and Iowa Institute of Hydraulic Research  
Cities of Ames, Cedar Falls, Cedar Rapids, Charles City,  
Council Bluffs, Des Moines, Estherville, Fort Dodge,  
Iowa City, Marshalltown, Ottumwa, Sioux City, and Waterloo  
Des Moines Water Works  
Ottumwa Water Works  
Waterloo Sewage Treatment Plant

Acknowledgement of all cooperation is contained in the annual Water-Supply Papers and state Water Resources Data reports that contain the records of daily discharge.



## Introduction

The U. S. Geological Survey and organizations of the State of Iowa have had cooperative agreements for the systematic collection of streamflow data since 1914. The data have been published in the form of daily mean discharges in the annual Water-Supply Papers and state Water Resources Data reports. More detailed information on Water-Supply Papers or other publications in which the records are published can be obtained from the U. S. Geological Survey District Office, Iowa City, Iowa.

One of the most important aspects of hydrologic analysis deals with interpreting past records of hydrologic events in terms of future probabilities of occurrence.

Fundamental data required for this type of investigation is a compilation of discharges for significant streamflow events.

The purpose of this report is to make available a summary of three important streamflow statistics, low flow, high flow, and flow duration.

The low flow of a stream is a limiting factor in the beneficial use of water. Information on low flows is vital for the design of adequate water-supply, irrigation, waste dilution, and conservation facilities. High-flow data are used for planning and designing flood-control structures, reservoirs, and navigation systems. Flow duration data are useful



for analyzing the availability and variability of streamflow, and serve as a basis for appraising and comparing the hydrologic and geologic characteristics of drainage basins.

This report includes summaries for all gaging stations in Iowa having five or more years of records as of September 30, 1971.

#### Explanation of Tables

Data in this report are listed in the same downstream order used in Water Resources Data reports published by the U. S. Geological Survey. In this system records are listed in a downstream direction along the main stem. Tributary stations entering above a main-stem station are listed before that station. In this system the most upstream station is listed first. The identification number of

each station is indicated by the 8-digit number listed at the top of each summary table.

The first summary table for each station lists the annual lowest mean discharge in cubic feet per second for selected periods of consecutive days. The climatic year, designated as year beginning April 1, within which the event occurred is listed in the first column from the left. The rest of the columns list the annual events corresponding to the indicated periods. The number of days in the period are listed at the top of each column. The lowest mean discharges are obtained by searching the record for the lowest total discharge corresponding to each period and dividing the total by the number of consecutive days.



The second summary lists the annual highest mean discharges for selected periods of consecutive days. The format of this table is similar to that of the low-flow table, except that the first column lists the water year which is designated as the year ending September 30.

Flow-duration data are tabulated in two parts. The first part shows the number of days in each water year in which flows were equal to, or greater than, the flow shown for the class interval (top row) but less than that for the next higher class. Class intervals were selected to provide about 30 to 35 well distributed class ranges encompassing the lowest and the highest recorded daily discharges at the station.

The second part is a summary of the flow distribution for the period of record. The figures in the percent column indicate the percent of the period of record in which the daily flows were equal to, or greater than, the class interval.

An index of station names in alphabetical order is included for the convenience of readers not familiar with listings in downstream order. Tabulated in this index are, the station name and number, the period of record for which the streamflow events are listed, and the page number of the report.



Index of Station Names

Station Name	Sta. No.	Period of Analysis			Page
		Mean Discharge		Duration Analysis	
		Lowest	Highest		
Bear Cr. nr. Monmouth, Ia.	05417700	1959-71	1958-71	1958-71	37-39
Beaver Cr. at New Hartford, Ia.	05463000	1947-71	1946-71	1946-71	166-169
Beaver Cr. nr. Grimes, Ia.	05481950	1962-71	1961-71	1961-71	284-286
Big Bear Cr. at Ladora, Ia.	05453000	1947-71	1946-71	1946-71	99-102
Big Cr. nr. Mt. Pleasant, Ia.	05473500	1957-67	1956-67	1956-67	233-235
Big Sioux R. at Akron, Ia.	06485500	1930-68	1929-68	1929-68	377-382
Black Hawk Cr. at Hudson, Ia.	05463500	1954-71	1953-71	1953-71	170-172
Boone R. nr. Webster City, Ia.	05481000	1942-71	1941-71	1941-71	266-269
Boyer R. at Logan, Ia.	06609500	1920-71	1919-71	1919-71	437-440
Cedar Cr. nr. Bussey, Ia.	05489000	1949-71	1948-71	1948-71	347-349
Cedar Cr. nr. Varina, Ia.	05482170	1961-71	1960-71	1960-71	293-295
Cedar R. at Cedar Rapids, Ia.	05464500	1904-71	1903-71	1903-71	186-192
Cedar R. at Charles City, Ia.	05457700	1966-71	1965-71	1965-71	135-137
Cedar R. at Janesville, Ia.	05458500	1906; 1916-71	1905-06 1915-71	1905-06 1915-71	141-146
Cedar R. at Waterloo, Ia.	05464000	1942-71	1941-71	1941-71	173-176
Cedar R. nr. Conesville, Ia.	05465000	1941-71	1940-71	1940-71	196-199
Cedar R., W. Fk., at Finchford, Ia.	05458900	1947-71	1946-71	1946-71	147-150
Chariton R. nr. Centerville, Ia.	06904000	1941-59	1939-59	1939-59	525-527
Chariton R. nr. Chariton, Ia.	06903400	1967-71	1966-71	1966-71	516-518
Chariton R. nr. Rathbun, Ia.	06903900	1958-71	1957-71	1957-71	522-524



Station Name	Sta. No.	Period of Analysis			Page
		Mean Discharge		Duration Analysis	
		Lowest	Highest		
Clear Cr. nr. Coralville, Ia.	05454300	1954-71	1953-71	1953-71	110-112
Davids Cr. nr. Hamlin, Ia.	06809000	1954-67	1953-67	1953-67	483-485
Des Moines R. at Des Moines, Ia.	05482000	1916-61	1916-61	1916-61	287-292
Des Moines R. at Estherville, Ia.	05476500	1953-71	1952-71	1952-71	242-244
Des Moines R. at Ft. Dodge, Ia.	05480500	1913-71	1912-71	1912-71	262-265
Des Moines R. at Humboldt, Ia.	05476750	1966-71	1965-71	1965-71	245-247
Des Moines R. at Keosauqua, Ia.	05490500	1905-71	1904-71	1904-71	356-361
Des Moines R. at Ottumwa, Ia.	05489500	1918-71	1918-71	1918-71	350-355
Des Moines R. bel. Raccoon R. at Des Moines, Ia.	05485500	1941-71	1941-71	1941-71	319-322
Des Moines R., E. Fk., at Dakota City, Ia.	05479000	1941-71	1941-71	1941-71	254-256
Des Moines R., E. Fk., nr. Burt, Ia.	05478000	1953-71	1952-71	1952-71	248-250
Des Moines R., E. Fk., nr. Hardy, Ia.	05478500	1942-54	1941-54	1941-54	251-253
Des Moines R. nr. Boone, Ia.	05481500	1921-71	1921-67	1921-67	276-281
Des Moines R. nr. Saylorville, Ia.	05481650	1963-71	1962-71	1962-71	282-283
Des Moines R. nr. Stratford, Ia.	05481300	1921-71	1921-71	1921-71	270-275
Des Moines R. nr. Tracy, Ia.	05488500	1921-71	1921-71	1921-71	341-346
Dry Cr. at Hawarden, Ia.	06484000	1950-67	1949-67	1949-67	374-376
East Nishnabotna R. at Red Oak, Ia.	06809500	1920-71	1919-71	1919-71	486-489
English R. at Kalona, Ia.	05455500	1941-71	1940-71	1940-71	128-131
Floyd R. at Alton, Ia.	06600100	1957-67	1956-67	1956-67	396-398



Station Name	Sta. No.	Period of Analysis			Page
		Mean Discharge		Duration Analysis	
		Lowest	Highest		
Floyd R. at James, Ia.	06600500	1937-71	1936-71	1936-71	402-405
Floyd R., W. Br., nr. Struble, Ia.	06600300	1957-71	1956-71	1956-71	399-401
Fourmile Cr. nr. Lincoln, Ia.	05464130	1964-67, 1971	1963-67, 1970,71	1963-67, 1970,71	177-179
Fourmile Cr. nr. Traer, Ia.	05464137	1964-66, 1969-71	1963-66, 1968-71	1963-66, 1968-71	183-185
Fox R. at Bloomfield, Ia.	05494300	1959-71	1958-71	1958-71	365-367
Fox R. at Cantril, Ia.	05494500	1942-51	1941-51	1941-51	368-370
Half Mile Cr. nr. Gladbrook, Ia.	05464133	1964-67, 1971	1963-67, 1970,71	1963-67, 1970,71	180-182
Hardin Cr., E. Fk., nr. Churdan, Ia.	05483000	1954-71	1953-71	1953-71	303-305
Honey Cr. nr. Russell, Ia.	06903500	1953-61	1953-62	1953-62	519-521
Indian Cr. at Council Bluffs, Ia.	06610500	1956-71	1955-71	1955-71	453-455
Iowa R. at Iowa City, Ia.	05454500	1960-71	1959-71	1959-71	113-115
Iowa R. at Marengo, Ia.	05453100	1958-71	1957-71	1957-71	103-105
Iowa R. at Marshalltown, Ia.	05451500	1916-71	1903, 1915-71	1903, 1915-71	77-82
Iowa R. at Wapello, Ia.	05465500	1916-58, 1960-71	1915-58 1959-71	1915-58 1959-71	200-205 206-208
Iowa R., E. Br., nr. Klemme, Ia.	05449000	1950-71	1949-71	1949-71	70-72
Iowa R. nr. Belle Plaine, Ia.	05452500	1941-59	1940-59	1940-59	96-98
Iowa R. nr. Lone Tree, Ia.	05455700	1960-71	1959-71	1959-71	132-134
Iowa R. nr. Rowan, Ia.	05449500	1942-71	1941-71	1941-71	73-76
Iowa R., W. Br., nr. Klemme, Ia.	05448500	1950-58	1949-58	1949-58	67-69
Little Cedar R. nr. Ionia, Ia.	05458000	1956-71	1955-71	1955-71	138-140



Station Name	Sta. No.	Period of Analysis			Page
		Mean Discharge		Duration Analysis	
		Lowest	Highest		
Little Maquoketa R. nr. Durango, Ia.	05414500	1936-71	1935-71	1935-71	29-32
Little Sioux R. at Correctionville, Ia.	06606600	1921-71	1919-71	1919-71	413-418
Little Sioux R. at Gillett Grove, Ia.	06605600	1960-71	1959-71	1959-71	410-412
Little Sioux R. nr. Kennebec, Ia.	06606700	1941-69	1940-69	1940-69	419-422
Little Sioux R. nr. Turin, Ia.	06607500	1959-71	1959-71	1959-71	430-433
Lizard Cr. nr. Clare, Ia.	05480000	1942-71	1941-71	1941-71	257-261
Maple R. at Mapleton, Ia.	06607200	1943-71	1942-71	1942-71	426-429
Maquoketa R. nr. Manchester, Ia.	05417000	1935-71	1934-71	1934-71	33-36
Maquoketa R. nr. Maquoketa, Ia.	05418500	1915-71	1914-71	1914-71	40-45
Middle Raccoon R. at Panora, Ia.	05483600	1960-71	1959-71	1959-71	309-312
Middle R. nr. Indianola, Ia.	05486490	1942-71	1941-71	1941-71	327-330
Mississippi R. at Clinton, Ia.	05420500	1875-1969	1874-1950	1874-1969	46-54
		1940-68	1939-68	1939-68	55-58
Mississippi R. at McGregor, Ia.	05389500	1938-69	1937-69	1937-69	14-16
Missouri R. at Nebraska City, Nebr.	06807000	1931-68	1930-68	1930-67	463-466
		1931-55	1930-55	1930-55	467-470
		1957-71	1956-71	1956-71	471-473
Missouri R. at Omaha, Nebr.	06610000	1930-67	1929-67	1929-67	441-445
		1930-55	1929-55	1929-55	446-449
		1957-71	1956-71	1956-71	450-452
Missouri R. at Rulo, Nebr.	06813500	1957-71	1956-71	1956-71	499-501
Missouri R. at Sioux City, Ia.	06486000	1929-68	1929-68	1929-68	383-386
		1930-55	1929-55	1929-55	387-389
		1957-71	1956-71	1956-71	390-392
Mosquito Cr. nr. Earling, Ia.	06610520	1967-71	1966-71	1966-71	456-458
Mule Cr. nr. Malvern, Ia.	06808000	1956-69	1955-69	1956-69	477-479
Nishnabotna R. above Hamburg, Ia.	06810000	1923-71	1923-71	1923-71	490-495



Station Name	Sta. No.	Period of Analysis			Page
		Mean Discharge		Duration Analysis	
		Lowest	Highest		
Nodaway R. at Clarinda, Ia.	06817000	1921-71	1921-71	1921-71	502-505
North Raccoon R. nr. Jefferson, Ia.	05482500	1941-71	1941-71	1941-71	299-302
North Raccoon R. nr. Sac City, Ia.	05482300	1960-71	1959-71	1959-71	296-298
North R. nr. Norwalk, Ia.	05486000	1942-71	1941-71	1941-71	323-326
North Skunk R. nr. Sigourney, Ia.	05472500	1947-71	1946-71	1946-71	225-228
Odebolt Cr. nr. Arthur, Ia.	06607000	1959-71	1958-71	1958-71	423-425
Old Man's Creek nr. Iowa City, Ia.	05455100	1952-64	1951-64	1951-64	125-127
One Hundred and Two R., E. Fk., nr. Bedford, Ia.	06819190	1961-71	1960-71	1960-71	506-508
Paint Cr. at Waterville, Ia.	05388500	1954-71	1953-71	1953-71	8-10
Perry Cr. at 38th Street at Sioux City, Ia.	06600000	1947-67	1946-67	1946-67	393-395
Prairie Cr. at Fairfax, Ia.	05464640	1968-71	1967-71	1967-71	193-195
Raccoon R. at Van Meter, Ia.	05484500	1917-71	1916-71	1916-71	313-318
Ralston Cr. at Iowa City, Ia.	05455000	1926-71	1925-71	1925-71	116-121
Ralston Cr., S. Br., at Iowa City, Ia.	05455010	1965-71	1964-71	1964-71	122-124
Rapid Cr. nr. Iowa City, Ia.	05454000	1939-71	1938-71	1938-71	106-109
Richland Cr. nr. Haven, Ia.	05451900	1951-71	1950-71	1950-71	86-88
Rock R. nr. Rock Valley, Ia.	06483500	1950-67	1949-67	1949-67	371-373
Salt Cr. nr. Elberon, Ia.	05452000	1947-71	1946-71	1946-71	89-92
Shell Rock R. at Marble Rock, Ia.	05460500	1935-53	1934-53	1934-53	160-162
Shell Rock R. at Shell Rock, Ia.	05462000	1955-71	1954-71	1954-71	163-165



Station Name	Sta. No.	Period of Analysis			Page
		Mean Discharge		Duration Analysis	
		Lowest	Highest		
Shell Rock R. nr. Northwood, Ia.	05459000	1947-71	1946-71	1946-71	151-154
Skunk R. at Augusta, Ia.	05474000	1916-71	1915-71	1915-71	236-241
Skunk R. at Coppock, Ia.	05473000	1915-44	1914-44	1914-44	229-232
Soldier R. at Pisgah, Ia.	06608500	1942-71	1941-71	1941-71	434-436
South Raccoon R. at Redfield, Ia.	05484000	1942-71	1941-71	1941-71	306-308
South R. nr. Ackworth, Ia.	05487470	1942-71	1941-71	1941-71	334-337
South Skunk R. bel. Squaw Cr. nr. Ames, Ia.	05471000	1954-71	1953-71	1953-71	218-220
South Skunk R. nr. Ames, Ia.	05470000	1922-71	1921-71	1921-71	209-214
South Skunk R. nr. Oskaloosa, Ia.	05471500	1947-71	1946-71	1946-71	221-224
Squaw Cr. at Ames, Ia.	05470500	1921-27, 1967-71	1920-27, 1966-71	1920-27, 1966-71	215-217
Sugar Cr. nr. Keokuk, Ia.	05491000	1924-67	1923-67	1923-67	362-364
Tarkio R. at Stanton, Ia.	06811840	1959-71	1958-71	1958-71	496-498
Thompson R. at Davis City, Ia.	06898000	1920-71	1919-71	1919-71	509-512
Timber Cr. nr. Marshalltown, Ia.	05451700	1951-71	1950-71	1950-71	83-85
Turkey R. at Elkader, Ia.	05412000	1934-42	1933-42	1933-42	20-22
Turkey R. at Garber, Ia.	05412500	1915-71	1914-71	1914-71	23-28
Turkey R. at Spillville, Ia.	05411600	1958-71	1957-71	1957-71	17-19
Upper Iowa R. at Decorah, Ia.	05387500	1953-71	1952-71	1952-71	1-3
Upper Iowa R. nr. Decorah, Ia.	05388000	1921-51	1920-51	1920-51	4-7
Walnut Cr. nr. Hartwick, Ia.	05452200	1951-71	1950-71	1950-71	93-95



Station Name	Sta. No.	Period of Analysis			Page
		Mean Discharge		Duration Analysis	
		Lowest	Highest		
Wapsipinicon R. at Independence, Ia.	05421000	1935-71	1934-71	1934-71	59-62
Wapsipinicon R. nr. DeWitt, Ia.	05422000	1936-71	1935-71	1935-71	63-66
Waubonsie Cr. nr. Bartlett, Ia.	06806000	1948-69	1947-69	1947-69	459-462
Weldon R. nr. Leon, Ia.	06898400	1960-71	1959-71	1959-71	513-515
West Fork Ditch at Holly Springs, Ia.	06602000	1940-69	1940-69	1940-69	406-409
West Nishnabotna R. at Hancock, Ia.	06807410	1961-71	1960-71	1960-71	474-476
West Nishnabotna R. at Randolph, Ia.	06808500	1950-71	1949-71	1949-71	480-482
White Breast Cr. nr. Dallas, Ia.	05487980	1964-71	1963-71	1963-71	331-333
White Breast Cr. nr. Knoxville, Ia.	05488000	1947-62	1946-62	1946-62	338-340
Winnebago R. at Mason City, Ia.	05459500	1934-71	1933-71	1933-71	155-159
Yellow R. at Ion, Ia.	05389000	1936-51	1935-51	1935-51	11-13



STATION NUMBER 05387500

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

UPPER IOWA RIVER AT DELCORAH, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1953	50.00 10	55.30 13	59.30 14	59.90 13	60.60 10	64.80 7	66.50 7	67.70 7	71.50 6	233.00 9
1954	41.00 6	41.00 6	41.00 6	43.90 7	51.60 6	65.20 8	80.60 10	89.20 9	104.00 9	344.00 15
1955	70.00 14	70.00 17	71.70 17	75.80 17	76.70 15	91.10 16	107.00 17	126.00 16	178.00 15	303.00 13
1956	35.00 5	38.00 5	40.90 5	42.40 5	44.80 5	48.40 5	50.00 5	52.50 5	58.00 4	161.00 5
1957	26.00 2	26.00 2	26.10 2	28.10 2	36.10 2	44.30 3	48.80 3	49.20 3	53.90 3	145.00 3
1958	42.00 7	42.00 7	42.00 7	43.30 6	57.20 9	70.40 10	88.00 13	91.30 10	113.00 10	145.00 4
1959	22.00 1	22.00 1	22.10 1	22.70 1	23.80 1	25.40 1	29.20 1	32.90 1	35.40 1	106.00 1
1960	65.00 15	68.70 15	70.60 16	72.50 16	78.20 17	97.00 18	155.00 18	155.00 18	184.00 16	248.00 12
1961	54.00 13	54.00 11	55.00 11	58.90 12	73.00 13	83.70 14	98.00 15	121.00 15	168.00 14	429.00 16
1962	66.00 16	67.00 15	68.90 15	71.10 15	75.10 14	77.00 12	86.50 12	107.00 14	120.00 12	233.00 10
1963	52.00 11	53.30 10	55.30 10	58.60 11	63.50 11	71.30 11	79.10 9	99.50 13	223.00 17	441.00 18
1964	47.00 9	47.00 9	47.30 9	49.50 9	54.20 7	60.30 6	64.30 6	67.70 6	71.70 7	136.00 2
1965	31.00 3	33.00 3	34.00 3	40.10 4	42.40 4	43.60 2	45.90 2	48.90 2	51.20 2	168.00 6
1966	52.00 12	54.70 12	56.00 12	58.00 10	65.50 12	93.50 17	103.00 16	149.00 17	420.00 19	571.00 19
1967	42.00 3	42.30 3	44.00 8	48.40 8	56.70 8	65.30 9	71.00 8	81.50 8	86.90 8	231.00 8
1968	34.00 4	34.00 4	35.60 4	37.10 3	41.10 3	45.70 4	49.20 4	52.20 4	60.00 5	183.00 7
1969	55.00 14	55.30 14	59.00 13	62.00 14	76.90 16	78.30 13	83.70 11	91.60 11	124.00 13	243.00 11
1970	59.00 17	70.30 18	72.70 18	77.40 18	81.80 18	86.20 15	90.20 14	98.00 12	117.00 11	434.00 17
1971	93.00 17	95.00 19	101.00 19	108.00 19	116.00 19	138.00 19	175.00 19	182.00 19	228.00 18	344.00 14



STATION NUMBER 05387500

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

UPPER IOWA RIVER AT DECCRAH, IOWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1952	7900.0 9	6240.0 7	3630.0 6	2220.0 7	1610.0 7	1080.0 7	822.0 7	680.0 7	508.0 7	351.0 6
1953	8550.0 7	7540.0 4	4420.0 4	3000.0 4	1770.0 6	1130.0 6	881.0 5	754.0 5	641.0 4	363.0 5
1954	9500.0 3	6800.0 6	3630.0 7	1850.0 10	1070.0 10	707.0 9	559.0 11	496.0 11	386.0 11	245.0 12
1955	1460.0 18	1280.0 18	857.0 17	619.0 17	446.0 15	400.0 16	341.0 17	316.0 16	259.0 16	207.0 14
1956	4350.0 11	3340.0 12	2500.0 12	1600.0 11	898.0 12	565.0 14	455.0 14	380.0 14	291.0 14	175.0 16
1957	3870.0 13	1840.0 15	1000.0 16	622.0 16	374.0 18	296.0 18	246.0 18	221.0 18	185.0 18	121.0 18
1958	1100.0 19	967.0 19	637.0 19	385.0 20	249.0 20	212.0 20	175.0 20	147.0 20	134.0 20	96.7 20
1959	4000.0 12	3330.0 11	3050.0 10	2220.0 8	1240.0 8	683.0 10	519.0 12	466.0 12	360.0 12	208.0 13
1960	2660.0 15	2230.0 14	1330.0 14	380.0 14	758.0 14	640.0 11	557.0 10	542.0 10	443.0 10	312.0 9
1961	15000.0 1	12900.0 1	6990.0 2	3540.0 2	1580.0 3	1220.0 4	918.0 4	729.0 6	519.0 6	320.0 8
1962	9500.0 4	7510.0 3	4310.0 5	2970.0 5	1960.0 4	1160.0 5	855.0 6	764.0 4	717.0 2	425.0 3
1963	2830.0 14	2520.0 13	1810.0 13	1430.0 12	871.0 13	626.0 13	503.0 13	410.0 13	312.0 13	254.0 11
1964	1950.0 17	1430.0 17	817.0 18	471.0 15	303.0 19	264.0 19	226.0 19	195.0 19	153.0 19	103.0 19
1965	3370.0 5	7270.0 5	5700.0 3	3810.0 2	2080.0 2	1390.0 1	1030.0 1	846.0 2	662.0 3	429.0 2
1966	8550.0 6	5240.0 10	2610.0 11	1330.0 13	583.0 11	830.0 8	648.0 9	548.0 9	488.0 8	350.0 7
1967	5230.0 8	5900.0 8	3400.0 9	2020.0 9	1130.0 9	633.0 12	664.0 8	622.0 8	463.0 9	273.0 10
1968	2340.0 16	1640.0 16	1100.0 15	651.0 15	445.0 16	403.0 15	360.0 15	305.0 17	237.0 17	150.0 17
1969	11900.0 2	8540.0 2	7040.0 1	3830.0 1	2430.0 1	1370.0 2	557.0 2	1100.0 1	833.0 1	478.0 1
1970	1040.0 20	720.0 20	605.0 20	480.0 18	432.0 17	391.0 17	360.0 16	330.0 15	278.0 15	198.0 15
1971	7300.0 10	5520.0 9	3460.0 8	2340.0 6	1900.0 5	1220.0 3	945.0 3	754.0 3	590.0 5	424.0 4



STATION NUMBER 05387500

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

UPPER IOWA RIVER AT DECORAH, IOWA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34						
YEAR	NUMBER OF DAYS IN CLASS																																			CFS_DAYS					
1952							10	16	24	45	53	47	42	38	21	16	10	9	14	4	4	3	3	2	2					1	1	1							128553.0		
1953						6	57	89	7	1		15	14	39	37	23	22	10	9	10	6	2	6	2	3	1		2			1	1		2					132340.0		
1954				11	12	21	29	15	34	89	46	38	19	17	7	8	2	2	1	1	6	3					1				1	1		1					89550.0		
1955						19	57	21	25	46	49	32	25	37	16	14	7	9	4	2			2																75444.0		
1956				3	25	72	61	41	22	23	34	19	19	10	7	5	8	3	2	2	1		3	1	1	1	1												63925.0		
1957	6	6	6	34	59	52	46	33	25	36	14	17	5	4	4	3	3		2	3		1																	44278.0		
1958			19	52	38	37	63	38	40	37	19	4	2	3	1	2	1	1	1		2																		35280.0		
1959	47	22	42	44	11	6	22	30	20	25	13	19	9	7	10	10	8	3	2	2		2	1	2	1	3	2	2											76093.0		
1960						23	16	10	70	48	34	29	27	25	31	20	8	6	6	2	3	1	1	3	3															114191.0	
1961					5	10	34	76	27	52	44	34	14	13	12	12	8	7	3	3	1	2		1		1				1						2	1		116772.0		
1962					3	56	27	26	39	17	33	31	35	18	17	10	8	8	7	10	5	3	3	2	1	1					1	2	2						154975.0		
1963					5	24	43	51	37	36	25	39	20	18	15	11	10	5	5	5	4	5	1	4		2														52559.0	
1964		2	16	53	83	90	27	18	27	17	11	4	4	6	3	1	1	1					1	1																39462.0	
1965	1	13	67	24	28	26	21	21	21	23	30	16	14	5	8	7	7	2	3	1	1	1	1	1	1	6	3	3	1	2	2	3	2						156609.0		
1966					6	20	17	15	24	33	58	45	45	28	21	14	11	4	2	4	4	1	3		2	3														127874.0	
1967				5	14	54	76	40	28	29	22	23	12	16	7	4	5	4	5	4	2	2	2	2	3	2			2			1							55536.0		
1968		20	40	39	76	23	26	20	26	18	25	15	11	6	6	1		5	4	1	1		1	2																54759.0	
1969					2	46	37	27	48	21	34	26	23	18	14	4	20	4	10	9	3	3	2	3	1	1	2	2	2										174500.0		
1970						25	58	52	58	28	35	16	37	21	20	7	5	2				1																			72146.0
1971								38	44	32	20	23	9	43	21	28	28	17	8	7	5	6	5	2	5	1			1	1										154772.0	

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	7305	100.0	9	100.00	517	4498	61.6	18	560.0	128	560	7.7	27	3100	12	63	.8
1	22.00	53	7305	100.0	10	120.00	774	3981	54.5	19	680.0	89	432	5.9	28	3800	11	51	.6
2	27.00	29	7252	99.3	11	150.00	544	3207	43.9	20	820.0	70	343	4.7	29	4600	9	40	.5
3	32.00	105	7223	98.9	12	180.00	569	2663	36.5	21	1000.0	54	273	3.7	30	5500	9	31	.4
4	39.00	294	7113	97.4	13	220.00	368	2054	28.7	22	1200.0	52	219	3.0	31	6700	7	22	.3
5	47.00	338	6824	93.4	14	260.00	440	1706	23.4	23	1500.0	25	167	2.3	32	8100	10	15	.2
6	57.00	539	6486	88.8	15	320.00	279	1266	17.3	24	1800.0	29	142	1.9	33	9800	4	5	.0
7	69.00	826	5747	81.4	16	330.00	268	987	13.5	25	2100.0	29	113	1.5	34	12000	1	1	.0
8	84.00	623	5121	70.1	17	470.00	159	719	9.8	26	2600.0	21	84	1.1					



STATION\_NUMBER 5-3880.00

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

UPPER IOWA RIVER NEAR DECORAH, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1921	120.0 23	124.0 23	129.0 23	131.0 22	147.0 22	181.0 22	195.0 22	216.0 22	224.0 19	362.0 17
1922	50.0 10	50.0 9	50.0 9	56.4 11	65.9 14	77.7 16	91.3 14	106.0 16	160.0 16	462.0 20
1923	21.0 2	24.7 2	32.9 2	45.0 5	60.0 9	68.9 10	74.6 9	82.8 10	84.9 9	211.0 6
1924	40.0 7	40.0 5	40.4 5	43.5 4	47.6 3	57.5 6	61.6 6	63.9 6	72.4 4	185.0 4
1925	45.0 8	45.0 7	45.6 6	47.1 6	50.8 7	63.3 8	92.6 17	118.0 17	213.0 18	333.0 15
1926	50.0 11	50.0 10	50.0 10	50.0 8	50.0 6	50.0 3	51.3 2	61.8 4	76.8 5	163.0 3
1927	50.0 12	50.0 11	50.0 11	51.4 9	60.1 10	62.4 7	70.8 7	74.8 8	80.3 7	150.0 1
1935	10.0 1	11.0 1	13.4 1	22.4 1	26.3 1	31.5 1	49.3 1	62.1 5	96.4 10	298.0 12
1936	53.0 13	53.0 12	58.4 15	60.7 15	64.1 13	76.8 14	92.3 16	105.0 15	114.0 13	435.0 18
1937	39.0 6	55.3 13	57.9 14	60.5 14	67.8 15	77.7 15	90.9 13	97.4 12	105.0 11	247.0 5
1938	37.0 4	37.3 4	39.6 4	40.4 2	41.3 2	48.6 2	56.2 4	59.9 2	66.4 3	208.0 5
1939	111.0 22	114.0 22	119.0 22	131.0 23	167.0 24	243.0 24	245.0 24	270.0 24	386.0 24	495.0 22
1940	34.0 3	36.0 3	38.9 3	41.4 3	48.2 4	53.7 5	56.7 5	60.4 3	63.2 2	151.0 2
1941	39.0 5	40.7 6	45.9 7	56.1 10	62.1 11	67.4 9	80.5 11	101.0 14	134.0 15	215.0 8
1942	79.0 15	80.3 19	82.6 19	84.9 19	96.2 19	116.0 18	135.0 18	157.0 16	164.0 17	362.0 16
1943	130.0 24	135.0 24	142.0 24	153.0 24	166.0 23	188.0 23	203.0 23	239.0 23	366.0 23	628.0 24
1944	70.0 18	73.3 18	75.0 18	83.2 19	94.8 18	117.0 19	152.0 19	162.0 20	231.0 20	315.0 14
1945	60.0 17	63.3 17	69.1 17	74.4 17	82.3 17	83.9 17	91.8 15	99.8 13	120.0 14	462.0 21
1946	100.0 21	103.0 21	106.0 21	114.0 21	125.0 20	149.0 20	152.0 20	164.0 21	328.0 22	605.0 23
1947	80.0 20	82.0 20	86.6 20	99.2 20	129.0 21	151.0 21	160.0 21	159.0 19	280.0 21	308.0 13
1948	58.0 16	58.3 16	59.1 16	60.1 13	63.4 12	73.3 13	86.8 12	95.4 11	113.0 12	461.0 19
1949	56.0 15	56.0 14	57.4 13	61.2 16	67.8 16	70.5 12	75.7 10	75.8 9	78.7 6	212.0 7
1950	45.0 9	45.7 8	48.6 8	49.3 7	49.8 5	51.1 4	52.8 3	57.3 1	61.9 1	248.0 10
1951	53.0 14	56.0 15	56.6 12	58.2 12	59.9 8	70.0 11	71.2 8	71.0 7	83.8 8	294.0 11



STATION\_NUMBER 5-3880.00

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

UPPER IOWA RIVER NEAR DECORAH, IOWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1920	4040.0 20	3020.0 21	2020.0 20	1830.0 10	1330.0 9	1000.0 9	896.0 7	780.0 8	590.0 9	411.0 5
1921	9040.0 6	7060.0 4	4650.0 3	2960.0 4	1940.0 4	1240.0 4	929.0 5	769.0 9	632.0 8	440.0 6
1922	4600.0 18	3410.0 16	2320.0 16	1660.0 15	1320.0 11	1010.0 8	817.0 12	669.0 14	495.0 15	300.0 16
1923	6650.0 11	4960.0 10	2870.0 12	1710.0 13	1060.0 18	710.0 20	532.0 22	422.0 22	305.0 22	196.0 22
1924	4050.0 16	3520.0 15	2520.0 14	1510.0 19	1010.0 19	709.0 21	550.0 21	499.0 20	479.0 16	294.0 17
1925	6270.0 12	2960.0 22	1740.0 23	960.0 25	547.0 24	364.0 24	291.0 24	280.0 24	262.0 23	190.0 23
1926	2480.0 25	2200.0 24	1620.0 24	997.0 23	620.0 23	435.0 23	340.0 23	290.0 23	221.0 24	149.0 24
1927	2480.0 26	2070.0 26	1510.0 25	1140.0 22	842.0 22	611.0 22	553.0 20	500.0 19	416.0 19	258.0 18
1934	3600.0 23	3090.0 20	1810.0 22	974.0 24	532.0 25	295.0 25	277.0 25	223.0 25	168.0 26	124.0 26
1935	5950.0 13	4730.0 11	3400.0 7	2230.0 6	1740.0 6	1080.0 7	867.0 9	786.0 7	660.0 5	414.0 7
1936	8440.0 8	6850.0 5	4550.0 4	4010.0 1	2350.0 2	1370.0 2	1000.0 3	800.0 5	554.0 13	335.0 14
1937	5490.0 15	4420.0 12	3440.0 6	1890.0 9	1220.0 15	766.0 18	623.0 17	559.0 16	419.0 18	255.0 15
1938	4640.0 17	3280.0 18	2080.0 18	1520.0 18	964.0 21	726.0 19	761.0 14	669.0 15	566.0 12	361.0 11
1939	4000.0 21	3350.0 17	2030.0 17	1700.0 14	1110.0 17	796.0 17	619.0 18	540.0 18	464.0 17	304.0 15
1940	2830.0 24	2090.0 25	1130.0 26	693.0 26	458.0 26	277.0 26	210.0 26	167.0 26	201.0 25	134.0 25
1941	7380.0 10	4210.0 13	2460.0 15	1560.0 16	1120.0 16	882.0 12	863.0 10	792.0 5	575.0 10	353.0 12
1942	8920.0 7	6010.0 7	3280.0 8	1810.0 11	1230.0 14	1100.0 6	960.0 4	875.0 3	727.0 3	494.0 3
1943	7500.0 9	5500.0 9	3100.0 10	2850.0 5	1870.0 5	1140.0 5	851.0 11	703.0 12	573.0 11	446.0 5
1944	4070.0 19	2570.0 23	1890.0 21	1500.0 20	989.0 20	826.0 15	745.0 15	743.0 10	640.0 7	412.0 6
1945	11800.0 1	9500.0 1	5940.0 1	3410.0 3	2030.0 3	1360.0 3	1360.0 2	1140.0 2	976.0 2	549.0 2
1946	11400.0 2	6650.0 6	3230.0 9	2080.0 8	1330.0 10	892.0 11	891.0 8	724.0 11	534.0 14	407.0 10
1947	5530.0 14	4050.0 14	2670.0 13	1730.0 12	1250.0 13	875.0 13	916.0 6	849.0 4	673.0 4	452.0 4
1948	10300.0 3	5690.0 8	2880.0 11	1530.0 17	1410.0 8	844.0 14	561.0 16	545.0 17	390.0 20	242.0 20
1949	3740.0 22	3100.0 19	2160.0 17	1410.0 21	1270.0 12	815.0 16	600.0 19	486.0 21	369.0 21	225.0 21
1950	10100.0 4	7630.0 3	4290.0 5	2200.0 7	1670.0 7	925.0 10	768.0 13	696.0 13	659.0 6	365.0 12
1951	9210.0 5	7730.0 2	5300.0 2	3750.0 2	2820.0 1	1840.0 1	1380.0 1	1260.0 1	1020.0 1	567.0 1







STATION\_NUMBER 5-3880.00

DURATION TABLE OF DAILY DISCHARGE

UPPER IOWA RIVER NEAR DECORAH, IOWA

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	9496	100.0	9	55.00	550	8888	93.6	18	380.0	396	1908	20.1	27	2600	41	133	1.4
1	10.00	22	9496	100.0	10	68.00	994	8338	87.8	19	460.0	386	1512	15.9	28	3200	31	92	.9
2	12.00	2	9474	99.8	11	84.00	722	7344	77.3	20	580.0	252	1126	11.9	29	3900	19	61	.6
3	15.00	6	9472	99.7	12	100.00	1047	6622	69.7	21	710.0	216	874	9.2	30	4900	14	42	.4
4	19.00	5	9466	99.7	13	130.00	803	5575	58.7	22	880.0	176	658	6.9	31	6000	12	28	.2
5	23.00	45	9461	99.6	14	160.00	839	4772	50.3	23	1100.0	132	482	5.1	32	7400	9	16	.1
6	29.00	45	9416	99.2	15	200.00	835	3934	41.4	24	1400.0	83	350	3.7	33	9200	5	7	.0
7	36.00	107	9371	98.7	16	250.00	542	3099	32.6	25	1700.0	75	267	2.8	34	11000	2	2	.0
8	45.00	376	9264	97.6	17	300.00	649	2557	26.9	26	2100.0	59	192	2.0					



STATION NUMBER 05388500

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

PAINT CREEK AT WATERVILLE, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1954	5.00 17	5.13 17	6.49 18	6.80 18	7.21 17	8.44 18	10.20 18	11.40 18	13.00 18	15.40 15
1955	4.20 16	4.20 15	4.39 15	4.69 16	4.94 15	5.71 15	6.35 14	6.94 13	8.83 13	15.30 12
1956	4.00 14	4.00 14	4.00 14	4.06 14	4.21 14	4.45 12	4.75 10	5.01 10	5.29 9	14.20 9
1957	2.20 7	2.20 7	2.20 6	2.20 6	2.59 7	2.85 6	3.14 7	3.25 7	4.04 8	7.51 3
1958	2.20 8	2.20 8	2.26 7	2.34 7	2.44 5	2.67 5	3.00 5	2.93 5	3.90 7	9.35 4
1959	1.10 1	1.10 1	1.14 1	1.19 1	1.29 1	1.40 1	1.46 1	1.56 1	1.66 1	11.10 7
1960	1.30 2	1.37 2	1.59 3	1.89 4	2.49 6	5.61 14	6.79 16	7.41 15	8.91 14	17.70 14
1961	3.00 11	3.13 12	3.37 13	3.49 12	3.83 13	4.48 13	5.10 12	6.24 12	7.13 12	24.30 18
1962	1.30 3	1.43 4	2.40 8	3.03 10	3.33 11	4.21 10	5.32 13	6.18 11	9.86 15	16.60 13
1963	6.40 18	6.40 18	6.43 17	6.79 17	7.46 18	7.71 17	7.99 17	8.80 17	10.70 17	23.00 17
1964	3.00 12	3.00 11	3.00 11	3.16 11	3.30 10	3.35 8	3.41 8	3.51 8	3.80 6	5.21 2
1965	1.80 6	1.87 6	1.93 5	1.93 5	2.11 4	2.27 4	2.34 4	2.48 4	2.70 3	13.90 8
1966	2.40 9	2.40 9	2.49 9	2.58 8	2.77 9	3.38 9	4.90 11	7.76 16	10.00 16	21.90 16
1967	2.40 10	2.40 10	2.49 10	2.58 9	2.70 8	3.07 7	3.11 6	3.14 6	3.37 4	14.30 10
1968	1.50 5	1.50 5	1.50 2	1.50 2	1.55 2	1.72 2	1.79 2	1.85 2	1.89 2	4.44 1
1969	1.40 4	1.40 3	1.69 4	1.81 3	1.84 3	1.97 3	2.17 3	2.34 3	3.37 5	9.97 5
1970	3.20 13	3.27 13	3.37 12	3.51 13	3.69 12	4.29 11	4.59 9	4.84 9	5.55 10	10.40 6
1971	4.10 15	4.37 16	4.40 16	4.56 15	5.29 16	5.89 16	6.72 15	7.14 14	6.98 11	15.30 11



STATION NUMBER 05388500

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

PAINT CREEK AT WATERVILLE, IOWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1953	853.0 8	317.0 10	151.0 11	108.0 8	65.8 8	40.6 9	33.5 9	30.1 8	30.4 5	20.4 4
1954	229.0 18	152.0 16	87.4 16	50.7 16	36.3 14	28.3 14	25.6 14	22.3 13	19.0 12	15.5 8
1955	235.0 17	103.0 19	72.1 18	47.4 17	32.5 17	22.1 16	19.3 16	19.7 15	18.2 14	13.1 10
1956	440.0 12	315.0 11	170.0 10	95.1 10	62.9 9	38.0 11	32.0 10	25.5 10	19.5 11	12.3 13
1957	269.0 16	226.0 12	108.0 14	62.8 14	35.6 15	27.3 15	20.6 15	17.1 16	14.0 17	9.0 16
1958	209.0 15	140.0 18	71.9 19	36.2 19	20.0 19	12.3 19	9.0 19	7.7 19	6.0 19	4.1 19
1959	613.0 10	490.0 5	386.0 2	297.0 1	156.0 1	79.4 3	58.5 3	50.6 2	35.5 3	19.8 5
1960	915.0 5	476.0 7	222.0 7	107.0 9	60.0 11	48.3 6	37.6 7	33.5 6	25.3 7	16.3 7
1961	1230.0 2	802.0 1	436.0 1	216.0 3	142.0 2	85.4 2	60.3 2	46.6 3	32.7 4	21.1 3
1962	1390.0 1	699.0 2	355.0 3	222.0 2	128.0 3	72.2 4	53.2 4	45.2 4	36.4 2	22.9 1
1963	728.0 9	497.0 4	283.0 5	161.0 5	85.8 6	47.3 7	34.1 8	27.5 9	22.8 8	14.7 9
1964	431.0 13	162.0 15	76.8 17	39.0 18	22.2 18	21.4 17	16.0 18	12.9 18	9.6 18	6.6 18
1965	900.0 6	450.0 8	337.0 4	195.0 4	101.0 4	86.0 1	63.0 1	52.4 1	36.6 1	22.0 2
1966	863.0 7	562.0 3	246.0 6	118.0 7	62.4 10	40.1 10	29.3 11	24.5 12	18.7 13	12.6 11
1967	968.0 4	481.0 6	221.0 8	135.0 6	89.9 5	49.8 5	41.1 5	31.7 7	22.0 9	12.4 12
1968	558.0 11	209.0 13	103.0 15	51.8 15	35.5 16	20.8 18	17.7 17	14.9 17	14.1 16	8.4 17
1969	200.0 19	143.0 17	125.0 12	73.5 13	51.3 12	33.6 12	26.4 12	25.3 11	20.0 10	11.7 14
1970	1110.0 3	388.0 9	173.0 9	86.5 11	47.1 13	32.8 13	26.0 13	21.2 14	16.8 15	11.3 15
1971	328.0 14	198.0 14	121.0 13	82.3 12	66.9 7	45.4 8	38.4 6	35.4 5	28.5 6	17.8 6



STATION NUMBER 05388500

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

PAINT CREEK AT WATERVILLE, ICWA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	CFS_DAYS		
YEAR																																						
																																				NUMBER OF DAYS IN CLASS		
1953											14	33	80	64	40	68	28	12	8	3	5			4	1	2	2									1	7444.7	
1954											3	61	53	51	74	22	59	14	9	7		5	1	2	1	2										1	5645.7	
1955											12	29	26	62	55	30	15	12	3	4	4	1	3	2	1	2	1	2	1	1								4789.7
1956						7	50	95	113	41	16	5	12	3	3	1	2	2		2	1	4	3		2	1	1			1	1						4499.7	
1957					53	55	95	53	29	19	13	7	10	5	4	1	3	2		3		1	3		3		1	1									3302.2	
1958	19	14	45	114	82	34	33	8	6	1	1	2	1		1		1	1			1															1498.2		
1959	24	75	75	23	25	32	27	16	7	9	2	9	3	6	1	1	2	1	5	2	1	2	3		2	3	2	4	2	1						7236.1		
1960					14	12	27	70	44	45	13	44	32	11	13	9	8	3	3	1	3	2	1	1											1		5977.1	
1961	1	3	1	10	5	25	33	76	84	43	16	19	13	7	6	3	2	1	1	5	1			1		2	1	3		2					1		7706.6	
1962							4	32	54	33	29	69	63	36	13	7	7	2	3	1	2			2	4	1	1	1							1		8341.4	
1963							18	64	83	82	19	40	36	4	1	3	1			1	2	1	1	1				1					1	1			5375.4	
1964						86	118	108	28	16	3	2	3		1	1		1					1						1	1							2415.2	
1965			17	98	85	32	27	22	14	11	3	6	7	4	3	5	4	4	1		5	2	1	2	1		2	5	2	1				1		8024.9		
1966					16	32	67	85	73	35	17	13	7	5	4	2	2		1				1	2		1								1	1		4612.7	
1967	3	62	22	119	81	32	16	7	4	1	4		2	1		1	3						1			2		1	1				1	1		4514.0		
1968	73	85	51	42	31	27	12	10	8	5	3	2	2	1	1	1	2	1	3	1				1	1	1	1	1				1				3073.7		
1969		41	44	41	28	8	10	30	30	20	27	27	25	10	5	3	4	3	2			4	1	1	1											4262.9		
1970					25	34	103	85	45	20	22	6	5	6	2	3	2																		1		4112.4	
1971						4	48	67	57	27	19	35	36	22	14	6	7	12	1	4			3	1	1		1									6508.5		

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	6939	100.0	9	6.00	846	3429	49.4	18	41.0	34	273	3.9	27	280	11	52	.7
1	1.10	44	6939	100.0	10	7.50	583	2583	37.2	19	51.0	48	239	3.4	28	340	16	41	.5
2	1.40	168	6855	94.4	11	9.20	373	2000	28.8	20	63.0	20	191	2.8	29	420	8	25	.3
3	1.70	326	6727	96.9	12	11.00	470	1627	23.4	21	77.0	32	171	2.5	30	530	6	17	.2
4	2.10	415	6401	92.2	13	14.00	317	1157	16.7	22	96.0	22	139	2.0	31	650	3	11	.1
5	2.60	577	5986	86.3	14	17.00	290	840	12.1	23	120.0	19	117	1.7	32	800	5	8	.1
6	3.20	599	5409	78.0	15	22.00	130	550	7.9	24	150.0	19	98	1.4	33	990	1	3	.0
7	3.90	605	4810	69.3	16	27.00	82	420	6.1	25	180.0	14	79	1.1	34	1200	2	2	.0
8	4.90	776	4205	60.6	17	33.00	65	338	4.9	26	220.0	13	65	0.9					



STATION\_NUMBER 5-3890.00

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

YELLOW RIVER AT ION, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1936	22.0 7	22.0 7	22.0 5	22.4 3	22.7 3	25.3 3	30.0 6	32.8 5	35.1 4	109.0 6
1937	15.0 2	18.3 3	22.4 6	22.7 4	25.3 5	29.6 6	29.6 5	31.8 4	50.7 7	95.3 4
1938	15.0 3	16.7 2	17.7 1	19.3 1	19.4 1	20.1 1	20.8 1	22.1 1	23.1 1	80.2 3
1939	28.0 9	30.3 14	43.1 13	44.1 13	48.5 12	60.5 14	63.1 12	67.5 12	111.0 15	134.0 8
1940	14.0 1	16.0 1	18.0 2	19.6 2	20.8 2	22.0 2	22.2 2	23.3 2	24.9 2	51.4 1
1941	20.0 4	20.0 4	20.9 3	22.7 5	23.4 4	25.8 4	29.1 4	46.6 9	55.7 9	96.1 5
1942	29.0 10	30.0 10	31.7 10	34.9 10	42.3 10	48.4 11	50.9 11	60.6 11	75.1 11	160.0 11
1943	40.0 16	43.3 16	45.0 15	50.7 15	60.2 16	69.5 16	75.8 16	91.0 16	112.0 16	177.0 13
1944	31.0 12	33.3 11	35.9 11	38.1 11	51.2 13	59.1 12	63.8 13	75.2 15	99.3 13	150.0 10
1945	23.0 8	25.0 8	26.0 8	27.4 8	32.0 9	36.2 9	40.1 9	43.6 8	54.7 8	162.0 14
1946	35.0 15	38.3 13	45.0 16	49.1 14	58.8 15	65.7 15	69.6 15	69.9 13	91.8 12	219.0 16
1947	32.0 13	39.7 15	43.4 14	50.9 16	55.6 14	59.1 13	69.0 14	72.8 14	105.0 14	146.0 9
1948	32.0 14	34.7 12	38.4 12	41.7 12	43.5 11	45.6 10	50.4 10	55.8 10	65.6 10	201.0 15
1949	20.0 5	21.0 6	21.9 4	23.4 6	29.0 7	30.9 7	32.1 7	33.0 6	40.5 5	76.3 2
1950	20.0 6	20.3 5	23.4 7	24.6 7	25.5 6	26.4 5	27.8 3	29.6 3	30.0 3	121.0 7
1951	29.0 11	29.0 9	29.3 9	30.1 9	31.1 8	32.5 8	37.9 8	39.1 7	44.7 6	176.0 12



STATION\_NUMBER 5-3890.00

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

YELLOW RIVER AT ION, IOWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1935	2600.0 13	1970.0 10	1040.0 12	689.0 10	455.0 12	280.0 13	239.0 11	205.0 12	167.0 11	104.0 11
1936	3220.0 11	2280.0 8	1350.0 6	992.0 5	579.0 5	328.0 9	244.0 10	206.0 10	156.0 12	95.0 13
1937	2440.0 14	1930.0 11	1180.0 11	652.0 11	475.0 11	318.0 10	234.0 13	205.0 11	145.0 14	86.7 14
1938	2730.0 12	1990.0 12	976.0 13	586.0 13	352.0 13	246.0 14	230.0 14	195.0 14	166.0 10	128.0 10
1939	903.0 17	850.0 17	556.0 17	367.0 16	267.0 16	200.0 16	161.0 15	141.0 15	115.0 15	81.3 15
1940	2220.0 16	997.0 16	585.0 16	342.0 17	227.0 17	187.0 17	137.0 17	109.0 17	113.0 17	69.8 17
1941	6730.0 2	3380.0 2	1790.0 3	1130.0 4	765.0 3	456.0 4	407.0 3	362.0 5	268.0 6	161.0 8
1942	3930.0 9	1730.0 14	880.0 14	523.0 14	329.0 14	300.0 12	250.0 9	228.0 9	163.0 9	138.0 9
1943	5210.0 3	2570.0 6	1250.0 10	793.0 6	527.0 9	363.0 7	281.0 8	236.0 8	232.0 7	173.0 6
1944	3770.0 10	2800.0 5	1710.0 4	1150.0 2	699.0 4	489.0 3	397.0 4	361.0 6	305.0 4	193.0 3
1945	4830.0 4	2370.0 7	1290.0 8	777.0 7	562.0 7	378.0 6	392.0 5	368.0 4	288.0 5	170.0 7
1946	4260.0 6	2840.0 4	1380.0 5	745.0 9	563.0 6	334.0 8	346.0 7	279.0 7	210.0 8	183.0 4
1947	4230.0 7	2210.0 9	1300.0 7	773.0 8	540.0 8	421.0 5	382.0 6	370.0 3	305.0 3	196.0 2
1948	3950.0 8	1750.0 13	1250.0 9	648.0 12	502.0 10	310.0 11	235.0 12	196.0 13	148.0 13	103.0 12
1949	2360.0 15	1460.0 15	803.0 15	481.0 15	297.0 15	208.0 15	161.0 16	133.0 16	114.0 16	73.8 16
1950	5810.0 1	4230.0 1	2190.0 1	1140.0 3	940.0 2	504.0 2	410.0 2	391.0 2	330.0 2	182.0 5
1951	4730.0 5	3330.0 3	1830.0 2	1560.0 1	1040.0 1	723.0 1	582.0 1	469.0 1	415.0 1	236.0 1



STATION\_NUMBER 5-3890.00

DURATION TABLE OF DAILY DISCHARGE

YELLOW RIVER AT ION, IOWA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34		
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS		
1935				26	15	21	66	23	40	23	37	29	20	16	10	13	10	8	1		2	1		2							1	1					38072.0
1936				51	39	54	62	33	27	22	19	14	9	8	3	4	3	1	1		4	3	2	1	2	2						1	1			36244.0	
1937	2	1	50	79	49	53	24	22	24	13	8	4	7	6	3	5	3	3	2			1			1	1	2	2								32374.0	
1938	1	22	78	13	5	7	24	56	36	32	12	10	12	7	10	8	8	5	1	5	5	1				2	2			1	2					46656.0	
1939				34	38	24	56	62	39	44	25	7	15	3	4	5			1	2	1	1	2	2												29679.0	
1940	3	11	79	130	35	26	17	18	8	7	5	3	3	3	1	2	1	3	2		1	2	1	1	3				1							25539.0	
1941					18	52	47	43	35	23	34	17	24	14	13	12	8	3	6	1	1	2	2	2	3	2	2							1		58877.0	
1942				1	11	15	22	40	61	50	38	28	31	19	16	11	5	4	3	2	1	4			1					1			1			50417.0	
1943					1	10	41	34	36	68	63	36	18	8	16	9	6	3	4			8				1				2				1		63143.0	
1944					6	13	21	26	11	73	53	18	40	22	19	14	10	9	5	5	10	2	1	1	2	2	1			1	1					70642.0	
1945		2	13	19	16	38	52	27	23	32	15	18	13	33	16	11	12	4	10	2	2			2	1	1	2								1		62098.0
1946					1	5	44	109	42	51	33	15	17	6	7	8	6	3	3	2	1	2		1				1	1	2			5			66800.0	
1947					2	3	5	28	61	53	26	39	35	21	21	18	13	12	9	4	2	4	2	1	1	1			1	2			1			72445.0	
1948					3	27	79	105	62	35	19	15	3	2	2	2	1	1			3	1	2		1				1	1			1			37830.0	
1949					17	14	103	65	36	39	30	18	5	6	7	4	4	7	2	1	1	4				1				1							26927.0
1950		31	84	27	8	39	26	37	15	15	10	16	5	10	6	3	6	3	4	3	4	2	1	1	1	1	1				2	2			1		66409.0
1951					5	58	36	36	6	5	2	18	31	44	21	19	20	8	15	4	6	6	7	3	5	2	4							2	1	1	86720.0

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	6209	100.0	9	63.00	557	3183	51.3	18	340.00	86	395	6.4	27	1800	9	53	.8
1	14.00	6	6209	100.0	10	75.00	531	2626	42.3	19	410.00	48	309	5.0	28	2200	9	44	.7
2	17.00	34	6203	99.9	11	91.00	434	2095	33.7	20	490.00	57	261	4.2	29	2600	13	35	.5
3	20.00	334	6169	99.4	12	110.00	310	1661	26.8	21	590.00	38	204	3.3	30	3200	6	22	.3
4	25.00	427	5835	94.0	13	130.00	332	1351	21.8	22	710.00	45	166	2.7	31	3600	11	16	.2
5	30.00	450	5408	87.1	14	160.00	177	1019	16.4	23	860.00	16	121	1.9	32	4000	3	5	.0
6	36.00	479	4958	79.9	15	190.00	187	842	13.6	24	1000.00	17	105	1.7	33	5600	2	2	.0
7	43.00	554	4479	72.1	16	230.00	163	655	10.5	25	1200.00	20	88	1.4	34	6700	2	2	.0
8	52.00	742	3925	63.2	17	280.00	97	492	7.9	26	1500.00	15	68	1.1					



## STATION NUMBER 05389500

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

YEAR	1		3		7		14		30		60		90		120		183		ANNUAL	
1933	8000.0	4	8130.0	3	8370.0	3	8700.0	3	9430.0	3	9640.0	2	9970.0	2	10200.0	2	10700.0	1	20300.0	2
1939	9700.0	12	9970.0	13	11370.0	15	13400.0	19	15200.0	21	17400.0	24	17700.0	23	18900.0	23	23400.0	24	36900.0	21
1940	6700.0	1	6700.0	1	6740.0	1	6910.0	1	7590.0	1	8490.0	1	9160.0	1	9900.0	1	10900.0	2	22500.0	5
1941	8910.0	8	9180.0	8	9600.0	7	10000.0	6	10300.0	5	11900.0	6	12300.0	5	12600.0	5	14100.0	7	21000.0	3
1942	9510.0	11	9680.0	9	10200.0	10	10800.0	9	12400.0	13	16000.0	19	17600.0	21	19400.0	24	29200.0	29	35500.0	20
1943	14000.0	28	14400.0	28	14700.0	26	15800.0	26	17700.0	28	19800.0	27	19700.0	27	20800.0	26	27000.0	28	37600.0	23
1944	12100.0	20	12900.0	22	15000.0	28	16500.0	29	17300.0	27	19900.0	28	20300.0	28	21000.0	27	21400.0	22	41200.0	27
1945	12400.0	21	13200.0	24	14500.0	25	15200.0	23	15300.0	22	16600.0	22	16900.0	18	17700.0	19	18400.0	17	42100.0	29
1946	13500.0	25	14100.0	27	14400.0	23	16400.0	28	19500.0	30	21900.0	30	22000.0	29	22500.0	29	23600.0	25	40900.0	26
1947	12500.0	22	12600.0	20	12800.0	19	13500.0	20	15000.0	20	19500.0	26	19500.0	26	21500.0	28	25400.0	27	32100.0	17
1948	11700.0	18	12400.0	19	12700.0	18	13000.0	17	13300.0	15	14400.0	16	15300.0	16	16200.0	16	16800.0	13	33300.0	19
1949	8760.0	7	9000.0	5	9150.0	4	9860.0	5	10700.0	6	11000.0	4	11800.0	4	11900.0	3	12200.0	3	23000.0	8
1950	8300.0	5	8970.0	4	9280.0	5	10400.0	7	12000.0	10	12600.0	9	13700.0	11	14400.0	9	14400.0	8	23200.0	9
1951	9900.0	13	9930.0	12	11500.0	16	12800.0	16	13600.0	16	14200.0	14	14200.0	14	14400.0	10	14700.0	10	33100.0	18
1952	20500.0	32	21100.0	32	22100.0	32	22700.0	32	23300.0	31	24700.0	32	25600.0	31	28800.0	31	34000.0	31	50200.0	31
1953	13500.0	26	13600.0	25	14500.0	24	15200.0	24	15700.0	24	16000.0	20	16400.0	17	16400.0	17	17300.0	15	43600.0	30
1954	13700.0	27	14100.0	26	14900.0	27	15800.0	27	16900.0	26	17800.0	25	18900.0	25	18600.0	21	19500.0	20	39800.0	25
1955	14900.0	31	15000.0	29	15100.0	29	15400.0	25	15700.0	25	17100.0	23	18200.0	24	19400.0	25	24100.0	26	38500.0	24
1956	12800.0	24	12900.0	23	13200.0	22	13700.0	21	14200.0	18	14400.0	15	15200.0	15	15800.0	14	16300.0	12	24900.0	10
1957	10200.0	14	10700.0	15	10900.0	14	11400.0	13	12000.0	11	13100.0	13	13700.0	12	14700.0	12	14700.0	11	27600.0	12
1958	12500.0	23	12800.0	21	12900.0	20	13300.0	18	14700.0	19	15700.0	18	17000.0	19	18900.0	22	21100.0	21	31700.0	15
1959	4640.0	6	9030.0	6	9440.0	6	9740.0	4	9870.0	4	10300.0	3	10700.0	3	12000.0	4	12900.0	4	19900.0	1
1960	9410.0	10	9810.0	10	9980.0	8	12300.0	15	13800.0	17	14600.0	17	17600.0	22	17500.0	18	21600.0	23	25100.0	11
1961	10500.0	15	10600.0	14	10600.0	12	11100.0	11	12000.0	12	12600.0	10	14200.0	13	16000.0	15	17400.0	16	31700.0	16
1962	6700.0	2	9100.0	7	10200.0	9	11000.0	10	11800.0	8	12600.0	11	13300.0	9	14100.0	8	14600.0	9	22900.0	7
1963	12000.0	19	12000.0	18	12000.0	17	12200.0	14	12500.0	14	13100.0	12	13600.0	10	15000.0	13	19100.0	19	37100.0	22
1964	10700.0	16	10800.0	16	10900.0	13	11200.0	12	12000.0	9	12300.0	8	12500.0	7	12900.0	7	13400.0	6	22000.0	4
1965	7220.0	3	7400.0	2	8020.0	2	8290.0	2	9340.0	2	11800.0	5	13300.0	3	14500.0	11	16800.0	14	22700.0	6
1966	14300.0	29	15000.0	30	15000.0	30	17300.0	30	18000.0	29	21100.0	29	26600.0	32	32300.0	32	32700.0	30	58500.0	32
1967	11700.0	17	12000.0	17	13100.0	21	14400.0	22	15400.0	23	16300.0	21	17100.0	20	18000.0	20	18600.0	18	31300.0	13
1968	9400.0	9	9830.0	11	10400.0	11	10600.0	8	11200.0	7	12100.0	7	12400.0	6	12800.0	6	13200.0	5	31400.0	14
1969	14800.0	30	15900.0	31	17600.0	31	19700.0	31	23900.0	32	24300.0	31	25400.0	30	27000.0	30	36400.0	32	41800.0	28



STATION NUMBER 05389500

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1937	54700.0 32	54000.0 32	53800.0 31	52000.0 31	48300.0 30	43400.0 30	40300.0 29	37100.0 29	29200.0 29	19900.0 32
1938	101000.0 18	99700.0 18	96400.0 18	91500.0 16	86500.0 13	70300.0 15	61000.0 16	56500.0 15	49700.0 14	32200.0 18
1939	96900.0 19	96300.0 19	93300.0 20	87500.0 19	76300.0 22	63100.0 21	52400.0 21	48400.0 21	38300.0 23	29000.0 22
1940	52100.0 33	51900.0 33	51700.0 33	50200.0 32	46200.0 31	39200.0 31	37400.0 31	31900.0 32	25400.0 33	18000.0 33
1941	103000.0 16	101000.0 16	97700.0 17	91500.0 17	81600.0 18	61800.0 22	55200.0 20	48900.0 20	42000.0 21	29500.0 20
1942	114000.0 12	112000.0 12	111000.0 11	101000.0 12	83500.0 15	63800.0 17	58800.0 18	56000.0 16	48400.0 15	38700.0 10
1943	125000.0 8	124000.0 8	123000.0 8	118000.0 8	110000.0 6	87300.0 7	79600.0 7	77700.0 5	61400.0 6	43300.0 4
1944	123000.0 9	121000.0 10	119000.0 10	115000.0 9	101000.0 10	96200.0 5	85300.0 4	75300.0 6	59500.0 7	40300.0 7
1945	123000.0 7	126000.0 7	124000.0 7	119000.0 7	103000.0 9	85400.0 8	76200.0 8	72700.0 7	58600.0 8	38800.0 9
1946	101000.0 17	101000.0 17	99500.0 16	93800.0 15	82200.0 16	65100.0 20	51900.0 23	53600.0 19	46000.0 17	34100.0 15
1947	85500.0 23	85000.0 23	84400.0 23	82500.0 22	82200.0 17	74000.0 13	66900.0 14	60400.0 14	47000.0 16	35900.0 12
1948	84000.0 24	83300.0 24	82600.0 24	80100.0 24	76700.0 20	68200.0 18	56700.0 19	46800.0 22	35900.0 24	25600.0 25
1949	73100.0 23	73000.0 28	72100.0 27	71700.0 26	66600.0 25	52600.0 26	43900.0 27	37200.0 28	31600.0 28	21900.0 29
1950	123000.0 10	123000.0 9	120000.0 9	109000.0 10	105000.0 7	92500.0 6	83100.0 6	69600.0 8	53100.0 11	34000.0 16
1951	186000.0 4	183000.0 4	177000.0 4	162000.0 4	133000.0 4	99600.0 4	83300.0 5	79300.0 3	66400.0 3	41700.0 6
1952	193000.0 3	197000.0 3	194000.0 3	182000.0 3	150000.0 3	110000.0 3	86000.0 3	78600.0 4	68000.0 2	50300.0 1
1953	85200.0 22	85900.0 22	84800.0 22	80600.0 23	75000.0 23	69000.0 16	67000.0 13	65900.0 12	62000.0 5	39600.0 8
1954	166000.0 5	163000.0 6	157000.0 6	136000.0 6	104000.0 8	80300.0 11	76000.0 9	67400.0 10	52300.0 13	36400.0 11
1955	73700.0 27	73200.0 27	71500.0 28	69300.0 27	60000.0 27	48000.0 27	42000.0 28	38700.0 27	35500.0 25	29000.0 23
1956	105000.0 14	105000.0 14	103000.0 13	100000.0 13	84500.0 14	61400.0 23	52000.0 22	46700.0 23	39500.0 22	27800.0 24
1957	95800.0 21	94600.0 21	92300.0 21	85700.0 20	74600.0 24	57700.0 24	50000.0 25	46500.0 24	43100.0 20	29500.0 21
1958	55800.0 31	55200.0 31	53000.0 32	47900.0 33	41200.0 32	32900.0 33	30400.0 33	30500.0 33	26800.0 32	23200.0 28
1959	72300.0 29	70900.0 30	65900.0 30	57500.0 30	40400.0 33	34800.0 32	33600.0 32	32300.0 31	28800.0 30	21500.0 30
1960	83100.0 25	82900.0 25	81700.0 25	79700.0 25	77300.0 19	72800.0 14	64200.0 15	55600.0 17	43700.0 19	32400.0 17
1961	114000.0 11	112000.0 11	103000.0 14	83500.0 21	62000.0 26	55500.0 25	50800.0 24	43700.0 25	34000.0 26	24600.0 27
1962	104000.0 15	104000.0 15	102000.0 15	95800.0 14	87900.0 12	75400.0 12	72800.0 11	64200.0 13	54600.0 10	35300.0 13
1963	72000.0 30	71700.0 29	70100.0 29	65500.0 29	55200.0 29	47200.0 28	44800.0 26	40300.0 26	33200.0 27	25400.0 26
1964	75500.0 26	74800.0 26	73400.0 26	68700.0 24	54800.0 28	47000.0 29	37700.0 30	32600.0 30	27400.0 31	20500.0 31
1965	276000.0 1	274000.0 1	266000.0 1	239000.0 1	195000.0 1	145000.0 1	121000.0 1	98600.0 1	73400.0 1	45600.0 3
1966	112000.0 13	111000.0 13	109000.0 12	103000.0 11	95800.0 11	82800.0 10	72900.0 10	66500.0 11	55100.0 9	42300.0 5
1967	165000.0 6	164000.0 5	160000.0 5	145000.0 5	119000.0 5	85300.0 9	71500.0 12	68400.0 9	52700.0 12	35100.0 14
1968	96000.0 20	95300.0 20	93900.0 19	89100.0 18	76300.0 21	65400.0 19	59600.0 17	54500.0 18	45200.0 18	29800.0 19
1969	215000.0 2	213000.0 2	207000.0 2	188000.0 2	155000.0 2	118000.0 2	93100.0 2	81000.0 2	63200.0 4	48100.0 2



STATION NUMBER 05389500

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34			
YEAR	NUMBER OF DAYS IN CLASS																																			CFS_DAYS		
1937	9	3	4	36	81	33	39	14	13	9	5	3	14	16	8	29	20	15	12	2																	7269020.0	
1938				8	49	36	26	14	2	14	9	10	16	22	13	5	10	24	29	13	15	7	4	18	16	5											11771190.0	
1939				2	7	18	30	12	41	52	40	19	19	18	5	16	10	15	14	12	16	4	7	6	2												10599400.0	
1940	9	11	12	42	59	49	47	17	18	8	4	6	7	15	5	14	11	15	17																		6602130.0	
1941				5	11	10	54	30	39	40	24	13	9	13	6	8	12	25	8	18	11	10	8	6	5												10765710.0	
1942							3	7	34	25	33	12	23	24	10	28	25	37	25	40	13	4	9	3	5	5											14136500.0	
1943								7	21	30	39	15	36	44	21	20	20	12	5	11	10	14	11	7	20	16	6										15787100.0	
1944							2	1	15	34	79	27	38	24	13	15	9	5	9	16	13	13	12	11	15	12	3										14755200.0	
1945							3	5	45	69	42	16	15	15	15	12	9	7	12	9	19	47	3	3	4	8	7										14151200.0	
1946								11	15	20	25	65	41	23	31	18	20	8	11	10	16	13	13	11	7	7											12455200.0	
1947						1	8	6	30	31	60	25	20	10	16	27	24	25	7	24	8	11	32															13098400.0
1948				9	10	17	65	29	62	47	27	10	9	6	2	6	3	6	5	6	18	17	13														9359860.0	
1949				13	20	41	98	32	28	11	16	11	12	9	13	11	7	12	4	3	7	17															8008380.0	
1950			1	2	2	16	56	38	54	25	31	11	9	14	6	5	2	4	5	6	6	20	19	9	13	7	4										12411100.0	
1951					3	1	44	27	59	8	15	3	15	16	12	21	16	7	8	23	18	26	12	5	6	3	4	3	4	5							15218700.0	
1952										3	10	26	39	43	8	46	28	37	32	31	7	9	9	4	11	2	3	3	4	5	6						18400000.0	
1953							4	12	107	36	9	5	9	5	3	7	2	4	29	40	21	48	22	2													14465800.0	
1954							1	4	27	79	60	23	27	7	11	6	12	29	15	9	9	15	9	7	3	1	4	2	5								13270100.0	
1955							5	9	48	37	54	27	39	23	15	25	18	32	8	9	5	11															10578100.0	
1956								22	58	57	43	35	21	22	10	9	18	14	20	10	2	2	4	3	3	13											10167000.0	
1957						4	23	50	25	29	14	17	8	16	34	18	31	35	21	12	4	5	7	4	8												10779500.0	
1958				4	5	4	33	21	44	31	75	27	26	32	12	16	10	13	9	3																	8455100.0	
1959			2	18	48	33	56	15	28	15	25	17	14	13	12	18	17	14	7	8	2	3															7861120.0	
1960				3	10	26	36	41	26	36	21	17	9	13	18	16	13	12	9	22	17	21															11866600.0	
1961					5	31	26	60	17	38	37	37	15	6	5	10	19	11	8	6	11	6	8	2	2	3	2										8982600.0	
1962		1			1		7	59	26	33	24	15	6	19	15	6	27	14	25	9	12	15	9	20	14	8											12683300.0	
1963						1	66	23	45	24	53	12	20	16	16	30	16	14	5	13	6	5															9258500.0	
1964			5	6	9	10	27	116	27	37	25	12	9	10	14	9	8	2	17	7	3	3	10														7515260.0	
1965					5	8	63	13	27	38	43	11	8	10	12	8	8	12	4	7	4	3	16	15	13	2	5	2	5	3	3	4	5	3		16638100.0		
1966						1	8	17	15	27	13	26	42	29	23	30	13	20	31	18	23	5	6	15	3												15424300.0	
1967				1	3	3	20	15	61	54	54	18	6	16	12	10	6	14	8	4	7	9	7	14	8	1	4	3	7							12814200.0		
1968					30	19	62	12	29	15	14	17	24	17	10	11	19	21	20	8	10	13	4	10	1												10903100.0	
1969					1	2	8	7	20	11	9	14	40	57	28	23	18	13	13	9	15	19	11	13	6	6	5	2	3	5	4	3				17566100.0		



STATION NUMBER 05411600

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

TURKEY RIVER AT SPILLVILLE, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1958	10.00 5	10.00 4	10.10 4	11.90 5	18.30 5	19.90 5	22.20 5	24.00 5	26.10 5	44.10 5
1959	4.40 1	4.40 1	4.47 1	4.60 1	4.70 1	5.22 1	6.17 1	7.32 1	8.79 1	36.60 2
1960	23.00 12	23.30 12	24.10 12	24.90 12	26.90 11	32.00 13	54.70 13	57.90 13	78.70 12	103.00 9
1961	20.00 11	20.00 11	20.70 11	21.90 11	26.10 10	29.50 11	37.70 12	50.10 11	62.20 10	170.00 13
1962	26.00 13	26.00 13	26.70 13	27.90 13	30.10 13	31.20 12	34.70 11	37.90 10	45.30 8	82.60 7
1963	18.00 8	18.00 8	18.30 8	19.10 9	22.10 9	22.70 7	25.50 6	33.70 8	75.90 11	138.00 10
1964	9.80 4	11.00 5	11.00 5	11.60 4	13.00 4	14.10 4	14.50 4	15.20 4	16.70 4	37.30 3
1965	7.60 3	8.60 3	8.77 3	9.29 3	10.30 3	11.10 2	11.50 2	11.90 2	12.80 2	40.70 4
1966	18.00 9	18.70 9	19.30 10	19.70 10	21.00 8	27.60 9	33.40 10	56.80 12	124.00 14	179.00 14
1967	16.00 6	16.30 6	16.90 7	17.40 6	18.40 6	22.80 8	27.20 8	30.00 6	31.40 6	77.10 6
1968	6.60 2	6.60 2	6.63 2	6.82 2	7.99 2	11.50 3	12.70 3	13.80 3	15.00 3	36.10 1
1969	16.00 7	16.30 7	16.60 6	17.40 7	29.20 12	29.40 10	30.50 9	33.80 9	48.10 9	86.50 8
1970	19.00 10	19.00 10	19.00 9	19.10 8	19.70 7	22.40 6	26.00 7	31.30 7	38.90 7	156.00 11
1971	33.00 14	33.70 14	34.60 14	36.90 14	40.70 14	58.10 14	76.60 14	101.00 14	113.00 13	169.00 12



STATION NUMBER 05411600

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

TURKEY RIVER AT SPILLVILLE, ICWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1957	734.0 14	427.0 14	233.0 14	136.0 15	106.0 13	96.7 13	77.6 13	67.1 13	56.8 13	38.8 13
1958	390.0 15	313.0 15	229.0 15	141.0 14	86.9 15	68.9 15	56.0 15	47.1 15	39.9 15	30.3 14
1959	1850.0 8	1800.0 6	1420.0 5	839.0 6	467.0 6	257.0 7	196.0 7	187.0 7	141.0 8	80.3 10
1960	2040.0 7	1150.0 8	751.0 7	469.0 8	352.0 7	309.0 6	282.0 5	255.0 3	193.0 5	134.0 4
1961	5810.0 1	4590.0 1	2400.0 2	1210.0 2	697.0 3	432.0 3	322.0 3	253.0 5	180.0 6	114.0 7
1962	4660.0 3	2860.0 3	1440.0 4	1000.0 4	635.0 5	371.0 5	262.0 6	238.0 6	221.0 3	136.0 3
1963	1500.0 9	1010.0 9	606.0 9	476.0 7	291.0 8	208.0 9	161.0 9	130.0 10	104.0 10	80.8 9
1964	950.0 12	504.0 13	268.0 13	153.0 13	95.7 14	77.2 14	65.1 14	53.9 14	40.6 14	28.4 15
1965	2440.0 6	2190.0 5	1800.0 3	1190.0 3	655.0 4	417.0 4	315.0 4	255.0 4	208.0 4	125.0 5
1966	2690.0 5	1480.0 7	747.0 8	387.0 9	258.0 9	242.0 8	194.0 8	170.0 8	150.0 7	117.0 6
1967	1320.0 10	770.0 10	503.0 10	322.0 10	243.0 10	161.0 11	129.0 11	120.0 11	98.3 11	63.1 11
1968	1270.0 11	670.0 11	434.0 11	274.0 12	192.0 12	164.0 10	125.0 12	106.0 12	82.2 12	49.4 12
1969	5000.0 2	3520.0 2	2580.0 1	1390.0 1	829.0 1	483.0 1	374.0 1	398.0 1	293.0 1	171.0 2
1970	829.0 13	550.0 12	346.0 12	322.0 11	213.0 11	159.0 12	153.0 10	136.0 9	132.0 9	87.7 8
1971	3030.0 4	2290.0 4	1370.0 6	865.0 5	719.0 2	464.0 2	368.0 2	330.0 2	257.0 2	194.0 1



STATION NUMBER 05411600

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

TURKEY RIVER AT SPILLVILLE, ICWA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34		
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS		
1957				4	14	33	44	51	63	57	27	21	22	9	8	2	5		1	1			1	1	1												14170.8
1958				4	49	17	42	75	73	47	26	13	3	3	2	2	4	2	1	1	1																11050.4
1959	38	20	25	29	42	10	5	2	22	29	28	19	20	9	17	7	9	6	7	3	5	4	1		2	1	1	2	2						29312.2		
1960									25	21	46	43	44	42	31	18	21	27	14	9	5	4	4	5	3			1	1	2						49171.0	
1961								11	11	11	12	37	38	49	35	20	7	13	7	10	3	2	3	2	1					1		1			2		41696.0
1962									12	68	36	39	31	54	35	17	25	11	8	7	9	3	1	2	2			1			2	1		1		49641.0	
1963								14	53	57	53	25	17	31	36	22	12	13	7	3	7	3	3	3	3		1		1							29498.0	
1964				1	33	98	82	52	31	10	17	24	6	2	3	1	1		3		1						1									10386.8	
1965	1	23	46	71	17	24	20	21	30	14	20	14	12	7	6	7	3	2	1	5	1	1	3	2	4	6	2	2								45543.0	
1966								19	17	26	14	14	61	54	69	25	26	12	5	4	7	2	2	2	3		2			1						42589.0	
1967					17	41	25	47	73	37	26	32	13	11	6	15	5	4	3	3	4	1	1				1									23021.0	
1968	6	10	12	8	53	68	26	36	23	35	32	14	7	7	3	7	5	4	2	3	1	1	2				1									18083.7	
1969								1	39	43	40	38	29	26	33	17	23	22	10	13	8	3	2	4	6		4			1		1	2			62407.0	
1970								12	27	30	21	44	59	28	20	19	28	37	19	8	4	3	1	2	2	1											32021.0
1971									13	51	31	25	23	27	11	60	32	21	19	14	18	4	2	8	1	1	1			2	1						70798.0

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	5478	100.0	9	24.00	483	4123	75.3	18	170.0	162	595	10.9	27	1100	16	51	.9
1	4.40	38	5478	100.0	10	30.00	617	3640	66.4	19	210.0	102	433	7.9	28	1400	11	35	.6
2	5.40	26	5440	99.3	11	37.00	493	3023	55.2	20	260.0	78	331	6.0	29	1800	7	24	.4
3	6.70	36	5414	98.8	12	46.00	428	2530	46.2	21	320.0	65	253	4.6	30	2200	8	17	.3
4	8.40	73	5378	98.2	13	57.00	415	2102	38.4	22	390.0	52	189	3.4	31	2700	3	9	.1
5	10.00	142	5305	96.8	14	71.00	347	1687	30.8	23	490.0	25	136	2.5	32	3300	1	6	.1
6	13.00	299	5113	93.3	15	88.00	316	1340	24.5	24	600.0	26	111	2.0	33	4100	3	5	.0
7	16.00	325	4814	87.9	16	110.00	164	1024	18.7	25	740.0	28	85	1.6	34	5100	2	2	.0
8	20.00	366	4489	81.9	17	130.00	265	860	15.7	26	920.0	6	57	1.0					



STATION\_NUMBER 5-4120.00

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

TURKEY RIVER AT ELKADER, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1934	36.0 4	38.7 4	41.6 4	51.0 6	60.3 6	65.9 3	71.4 3	73.8 3	83.2 2	317.0 C 2
1935	25.0 2	27.7 2	29.9 2	38.9 2	49.5 3	70.3 4	87.6 4	101.0 4	127.0 4	361.0 C 4
1936	47.0 7	49.0 6	49.6 6	50.6 5	54.5 4	84.9 6	115.0 6	133.0 6	133.0 5	529.0 C 6
1937	40.0 5	42.3 5	45.9 5	48.3 4	55.0 5	76.1 5	114.0 5	129.0 5	189.0 6	446.0 C 5
1938	26.0 3	35.3 3	36.7 3	40.1 3	47.5 2	51.6 2	64.1 2	72.3 2	93.8 3	344.0 C 3
1939	124.0 9	134.0 9	151.0 9	191.0 9	224.0 9	286.0 9	323.0 9	392.0 9	552.0 9	713.0 C 9
1940	21.0 1	25.0 1	25.9 1	28.5 1	32.4 1	36.5 1	48.0 1	57.6 1	66.6 1	155.0 C 1
1941	43.0 6	55.3 7	61.9 7	77.6 7	90.9 7	119.0 7	129.0 7	316.0 8	412.0 8	541.0 C 7
1942	60.0 8	63.3 9	88.4 8	114.0 8	177.0 8	192.0 8	212.0 8	237.0 7	262.0 7	687.0 C 8



## STATION\_NUMBER 5-4120.00

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## TURKEY RIVER AT ELKADER, IOWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1933	23800.0 1	19100.0 1	10000.0 1	5300.0 1	2910.0 2	1700.0 3	1230.0 4	1090.0 4	834.0 5	515.0 5
1934	2080.0 10	1460.0 10	1070.0 10	615.0 10	368.0 10	230.0 10	238.0 10	201.0 10	169.0 10	137.0 10
1935	3650.0 9	3140.0 8	2910.0 8	2420.0 7	1980.0 5	1350.0 6	1150.0 6	998.0 5	802.0 6	520.0 4
1936	8250.0 5	7050.0 4	4890.0 4	4490.0 3	2860.0 3	1680.0 4	1220.0 5	971.0 7	673.0 7	431.0 7
1937	11700.0 3	10000.0 3	6710.0 3	3900.0 4	2710.0 4	1770.0 2	1360.0 3	1210.0 3	881.0 3	508.0 6
1938	4340.0 7	3770.0 7	3100.0 6	2800.0 5	1750.0 7	1210.0 7	1100.0 7	992.0 6	866.0 4	572.0 3
1939	3680.0 8	3120.0 9	2340.0 9	1740.0 9	1250.0 9	943.0 9	757.0 9	655.0 8	617.0 8	407.0 8
1940	9110.0 4	5900.0 6	3090.0 7	2180.0 8	1310.0 8	1170.0 8	829.0 8	654.0 9	556.0 9	320.0 9
1941	16800.0 2	10800.0 2	7910.0 2	4560.0 2	3470.0 1	1970.0 1	1840.0 1	1610.0 1	1250.0 1	764.0 1
1942	7820.0 6	6190.0 5	3630.0 5	2430.0 6	1930.0 6	1610.0 5	1410.0 2	1260.0 2	996.0 2	694.0 2



STATION\_NUMBER 5-4120.00

DURATION TABLE OF DAILY DISCHARGE

TURKEY RIVER AT ELKADER, IOWA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	CFS_DAYS
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS	
1933						15	30	39	42	54	40	26	28	18	15	9	7	8	6	8	6	3		2		1	2	2	1				1	2	168109.0	
1934	3	10	18	16	34	64	87	52	21	8	10	8	7	6	4	2	2	3	1	3	3	2	1													49852.0
1935							10	16	44	35	33	34	20	44	34	25	16	11	8	10	7	6	7	3	2											189940.0
1936				5	38	21	13	26	43	36	27	27	36	22	15	13	10	5	3	4	2	1	3	1	3	6	1	3	1	1					15774E.0	
1937					1	4	26	48	29	45	42	21	19	17	14	21	14	13	16	4	15	4	2	1	2			4		2	1			185277.0		
1938		2	6	19	12	24	18	29	9	3	6	12	36	19	35	21	25	18	17	8	10	10	7	6	9	3	1							208820.0		
1939					1	5	17	21	11	26	38	57	33	26	48	13	18	11	6	9	15	2	4	2	1	1								148677.0		
1940	4	3	42	4	12	35	58	50	20	14	16	18	15	15	14	8	5	7	4	3	5	3	2	1	2	2	1	1	1	1				117065.0		
1941						3		1	1	15	56	52	39	25	42	14	6	13	29	20	16	8	5	3	4	4	2	2	1	2	1		1	27883E.0		
1942								9	8	18	29	37	35	34	28	26	34	30	24	7	12	9	8	3	4	5	1		3	1				253223.0		

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	3652	100.0	9	110.00	200	2717	74.4	18	670.0	124	614	16.8	27	4200	8	40	1.0
1	21.00	7	3652	100.0	10	130.00	263	2517	68.9	19	820.0	117	490	13.4	28	5100	12	32	.8
2	26.00	15	3645	99.8	11	160.00	299	2254	61.7	20	1000.0	74	373	10.2	29	6300	7	20	.5
3	32.00	66	3630	99.4	12	200.00	291	1955	53.5	21	1200.0	94	299	8.2	30	7700	7	13	.3
4	39.00	44	3564	97.6	13	240.00	282	1664	45.6	22	1500.0	49	205	5.6	31	9400	2	6	.1
5	47.00	98	3520	96.4	14	300.00	202	1382	37.8	23	1900.0	38	156	4.3	32	12000		4	.1
6	55.00	171	3422	93.7	15	360.00	259	1180	32.3	24	2300.0	26	118	3.2	33	14000	2	4	.1
7	71.00	249	3251	89.0	16	450.00	161	921	25.2	25	2800.0	28	92	2.5	34	17000	2	2	.0
8	87.00	285	3002	82.2	17	550.00	146	760	20.8	26	3400.0	24	64	1.8					



STATION NUMBER 05412500

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

TURKEY RIVER AT GARBER, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1915	130.00 23	140.00 24	140.00 21	140.00 19	140.00 18	169.00 19	223.00 23	337.00 28	341.00 25	676.00 16
1916	280.00 44	280.00 43	230.00 41	280.00 40	377.00 41	440.00 42	573.00 44	671.00 44	1050.00 47	1510.00 45
1921	290.00 45	297.00 44	307.00 44	324.00 43	412.00 46	539.00 45	524.00 42	561.00 39	575.00 34	884.00 28
1922	245.00 40	315.00 45	335.00 45	365.00 45	381.00 42	437.00 41	481.00 39	549.00 38	768.00 41	1350.00 40
1923	88.00 11	83.00 10	123.00 19	155.00 22	199.00 25	230.00 27	271.00 27	331.00 27	313.00 21	790.00 24
1924	156.00 27	176.00 29	130.00 29	180.00 27	180.00 23	208.00 23	219.00 22	225.00 20	254.00 17	685.00 18
1925	186.00 33	209.00 34	223.00 34	236.00 34	255.00 33	272.00 31	256.00 29	318.00 24	441.00 29	738.00 21
1926	150.00 26	163.00 27	169.00 27	177.00 25	209.00 28	250.00 28	322.00 30	330.00 26	369.00 26	657.00 15
1927	160.00 28	150.00 30	183.00 30	213.00 32	265.00 35	339.00 37	377.00 35	430.00 36	627.00 37	687.00 20
1934	90.00 12	91.70 11	92.90 9	94.30 9	102.00 8	110.00 5	120.00 5	126.00 5	135.00 4	505.00 9
1935	55.00 2	61.00 3	63.00 3	72.10 3	84.00 3	95.30 4	126.00 7	181.00 14	216.00 13	610.00 13
1936	84.00 9	86.70 9	83.90 8	92.10 8	105.00 10	151.00 15	203.00 19	235.00 21	227.00 14	803.00 26
1937	79.00 7	83.00 5	86.30 6	90.00 7	102.00 9	125.00 10	191.00 15	218.00 17	218.00 23	686.00 19
1938	65.00 4	70.00 4	73.60 4	82.10 4	101.00 6	120.00 7	127.00 8	132.00 6	152.00 8	567.00 10
1939	223.00 36	236.00 38	259.00 40	320.00 42	400.00 44	507.00 44	530.00 41	622.00 42	820.00 42	1060.00 34
1940	49.00 1	49.30 1	51.10 1	54.30 1	59.10 1	69.80 2	86.90 2	97.70 2	105.00 2	322.00 2
1941	87.00 10	93.00 12	113.00 17	138.00 18	166.00 21	199.00 22	236.00 25	562.00 40	670.00 38	889.00 29
1942	193.00 35	209.00 35	215.00 33	227.00 33	240.00 31	327.00 36	414.00 38	466.00 37	537.00 33	1000.00 31
1943	330.00 46	333.00 46	347.00 46	392.00 46	402.00 45	491.00 43	524.00 40	637.00 43	662.00 44	1340.00 39
1944	180.00 31	187.00 31	191.00 31	207.00 31	257.00 34	317.00 34	383.00 36	391.00 31	472.00 31	879.00 27
1945	120.00 22	127.00 21	137.00 20	144.00 20	150.00 19	166.00 18	158.00 18	218.00 18	276.00 18	1020.00 32
1946	250.00 41	250.00 39	256.00 39	274.00 39	334.00 39	382.00 38	386.00 37	399.00 32	591.00 35	1420.00 43
1947	100.00 13	113.00 20	102.00 25	199.00 29	229.00 30	270.00 30	323.00 31	327.00 25	469.00 30	654.00 14
1948	230.00 37	230.00 36	234.00 35	241.00 35	251.00 32	292.00 32	350.00 33	359.00 29	379.00 27	1550.00 46
1949	102.00 17	103.00 18	113.00 18	120.00 17	125.00 16	138.00 14	142.00 10	154.00 9	185.00 11	567.00 11
1950	77.00 5	84.00 6	85.30 5	86.80 5	87.70 4	89.40 3	94.20 3	101.00 3	130.00 3	609.00 12
1951	110.00 20	110.00 19	111.00 16	115.00 16	124.00 15	136.00 12	157.00 12	166.00 12	244.00 16	1060.00 33
1952	390.00 47	390.00 47	404.00 47	445.00 47	526.00 47	647.00 47	771.00 47	732.00 45	899.00 45	1880.00 47
1953	160.00 29	165.00 28	173.00 28	180.00 28	188.00 24	212.00 24	215.00 20	223.00 19	305.00 20	791.00 25
1954	98.00 15	98.00 15	98.00 12	98.80 12	112.00 11	157.00 16	192.00 16	212.00 15	237.00 15	768.00 22
1955	145.00 24	138.00 23	146.00 22	154.00 21	158.00 20	194.00 21	217.00 21	252.00 22	336.00 24	681.00 17
1956	74.00 5	84.70 7	93.00 10	96.10 10	101.00 7	111.00 6	117.00 4	125.00 4	141.00 5	500.00 7
1957	100.00 16	100.00 16	100.00 14	108.00 15	133.00 17	157.00 17	175.00 14	170.00 13	207.00 12	376.00 4
1958	94.00 14	94.00 13	94.00 11	96.10 11	118.00 14	127.00 11	144.00 11	158.00 10	163.00 9	380.00 5
1959	56.00 3	56.00 2	56.30 2	57.60 2	60.00 2	65.20 1	69.00 1	89.10 1	97.80 1	466.00 6
1960	233.00 39	236.00 37	243.00 37	264.00 38	315.00 38	397.00 39	590.00 45	604.00 41	759.00 40	1120.00 35
1961	160.00 30	160.00 26	163.00 24	175.00 24	211.00 29	224.00 26	270.00 26	369.00 30	396.00 28	1380.00 41
1962	232.00 38	266.00 41	284.00 42	287.00 41	354.00 40	437.00 40	571.00 43	796.00 47	1010.00 46	1430.00 44



STATION NUMBER 05412500

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

TURKEY RIVER AT GARBER, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1963	250.00 42	250.00 40	250.00 38	259.00 37	293.00 37	322.00 35	347.00 32	359.00 33	623.00 36	1410.00 42
1964	100.00 17	100.00 17	100.00 15	106.00 13	117.00 13	137.00 13	159.00 13	164.00 11	177.00 10	351.00 3
1965	90.00 13	96.00 14	98.90 13	106.00 14	115.00 12	121.00 8	124.00 6	136.00 7	142.00 6	503.00 8
1966	143.00 25	151.00 25	168.00 26	171.00 23	203.00 26	250.00 29	252.00 28	423.00 35	674.00 39	1130.00 36
1967	120.00 21	133.00 22	160.00 23	179.00 26	180.00 22	188.00 20	198.00 17	212.00 16	292.00 19	781.00 23
1968	84.00 8	85.30 8	86.90 7	89.70 6	98.80 5	123.00 9	137.00 9	140.00 8	148.00 7	295.00 1
1969	181.00 32	190.00 32	234.00 36	243.00 36	269.00 36	301.00 33	353.00 34	416.00 34	510.00 32	923.00 30
1970	192.00 34	193.00 33	196.00 32	201.00 30	204.00 27	218.00 25	235.00 24	263.00 23	316.00 22	1170.00 37
1971	272.00 43	275.00 42	288.00 43	327.00 44	388.00 43	630.00 46	715.00 46	766.00 46	840.00 43	1280.00 38



STATION NUMBER 05412500

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

TURKEY RIVER AT GARBER, IOWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1914	8600.0 40	6500.0 39	3750.0 42	2570.0 41	1900.0 40	1300.0 42	1040.0 44	902.0 46	717.0 46	504.0 45
1915	10600.0 30	9480.0 27	7180.0 24	4600.0 26	3080.0 29	2140.0 28	2070.0 20	1800.0 19	1650.0 16	1100.0 13
1916	17200.0 14	13700.0 14	8500.0 14	6310.0 9	3640.0 17	2400.0 22	2470.0 11	2170.0 11	1970.0 6	1240.0 7
1920	8700.0 39	6140.0 41	5520.0 35	3930.0 33	3360.0 25	2640.0 11	2330.0 15	1960.0 16	1500.0 19	1050.0 17
1921	3720.0 38	6240.0 40	5840.0 31	4460.0 28	3400.0 23	2350.0 26	1870.0 25	1630.0 26	1420.0 21	1030.0 20
1922	25300.0 1	19000.0 2	11600.0 5	6230.0 10	4050.0 11	3190.0 7	2670.0 6	2220.0 9	1740.0 10	1120.0 10
1923	19300.0 9	16400.0 8	9890.0 10	5860.0 13	3520.0 20	2540.0 17	1860.0 26	1460.0 30	1080.0 32	690.0 33
1924	8530.0 37	7510.0 34	5730.0 33	3650.0 34	2540.0 33	1880.0 35	1380.0 35	1170.0 34	1330.0 27	807.0 28
1925	10500.0 32	3680.0 29	6390.0 29	4000.0 32	2400.0 35	1630.0 39	1260.0 39	1020.0 42	840.0 42	613.0 37
1926	6250.0 47	4920.0 45	2800.0 46	1560.0 48	1330.0 47	1040.0 48	915.0 47	788.0 47	710.0 47	551.0 36
1927	9940.0 35	8230.0 32	7460.0 20	5080.0 20	3630.0 18	2490.0 18	2100.0 17	1790.0 20	1430.0 20	1010.0 21
1930	10000.0 34	8350.0 30	5300.0 36	2880.0 38	1700.0 44	1260.0 43	1050.0 42	1050.0 39	850.0 39	574.0 39
1933	19300.0 3	17200.0 6	10400.0 9	6030.0 11	3350.0 24	2230.0 27	1660.0 31	1520.0 28	1250.0 30	793.0 29
1934	5670.0 50	3610.0 50	1910.0 50	1110.0 50	637.0 50	406.0 51	455.0 50	377.0 51	319.0 51	249.0 51
1935	15500.0 17	12000.0 18	6980.0 25	5260.0 16	3820.0 15	2360.0 24	1970.0 23	1690.0 24	1350.0 26	844.0 27
1936	14300.0 20	12000.0 19	7750.0 19	6450.0 8	4110.0 9	2410.0 21	1770.0 28	1410.0 31	966.0 33	656.0 34
1937	13000.0 12	15600.0 10	10600.0 7	5930.0 12	4060.0 10	2590.0 14	1970.0 24	1780.0 21	1320.0 28	768.0 30
1938	7590.0 42	7030.0 38	6130.0 30	5100.0 18	3010.0 30	1980.0 31	1720.0 25	1520.0 29	1310.0 29	912.0 24
1939	6500.0 46	5430.0 44	3540.0 44	2460.0 42	1830.0 41	1420.0 40	1180.0 41	1030.0 40	923.0 37	624.0 36
1940	20800.0 7	10300.0 23	5240.0 37	3640.0 35	2170.0 37	1920.0 32	1380.0 36	1100.0 37	929.0 35	532.0 42
1941	14200.0 21	10200.0 25	7830.0 18	4950.0 21	3930.0 13	2350.0 25	2470.0 12	2180.0 10	1720.0 13	1100.0 14
1942	10500.0 31	7050.0 37	4140.0 40	2870.0 39	2430.0 34	2030.0 30	1860.0 27	1740.0 23	1390.0 23	1050.0 15
1943	15000.0 13	10900.0 21	6510.0 27	5290.0 15	3620.0 19	2630.0 12	2050.0 21	1750.0 22	1560.0 17	1150.0 5
1944	14500.0 19	10300.0 24	6940.0 26	4360.0 29	3450.0 21	2490.0 19	2100.0 18	2080.0 14	1670.0 14	1050.0 16
1945	11900.0 28	8760.0 28	6720.0 28	4570.0 27	3350.0 26	2560.0 16	2610.0 8	2410.0 7	1930.0 7	1110.0 11
1946	19200.0 10	14100.0 12	7420.0 21	4950.0 22	3210.0 27	2440.0 20	2360.0 13	1910.0 18	1390.0 24	926.0 23
1947	22500.0 5	18000.0 4	11200.0 6	6560.0 7	5530.0 4	3990.0 4	3240.0 2	3000.0 4	2360.0 3	1460.0 4
1948	16100.0 16	12700.0 16	8650.0 13	4750.0 25	3750.0 16	2390.0 23	1980.0 22	1640.0 25	1200.0 31	749.0 31
1949	11700.0 29	8330.0 31	5670.0 34	3120.0 37	2610.0 32	1700.0 36	1270.0 37	1060.0 38	825.0 43	498.0 46
1950	22700.0 4	17900.0 5	9640.0 11	4800.0 24	4550.0 8	2570.0 15	2080.0 19	2110.0 13	1850.0 8	1040.0 18
1951	21100.0 6	17100.0 7	10500.0 8	10000.0 1	7120.0 1	5060.0 1	4160.0 1	3720.0 1	3060.0 1	1680.0 2
1952	9580.0 36	8210.0 33	5810.0 32	4150.0 30	3450.0 22	2610.0 13	2280.0 16	2050.0 15	1670.0 15	1180.0 8
1953	14000.0 23	12000.0 17	7390.0 22	5160.0 17	3130.0 28	2040.0 29	1660.0 30	1600.0 27	1530.0 18	909.0 25
1954	8160.0 41	5920.0 43	4170.0 39	2610.0 40	1760.0 43	1690.0 37	1410.0 34	1170.0 35	877.0 40	557.0 40
1955	7260.0 44	4540.0 46	3130.0 45	2090.0 45	1330.0 48	1110.0 45	1030.0 45	1010.0 43	807.0 44	552.0 41
1956	10300.0 33	7320.0 36	4790.0 39	3270.0 36	1960.0 38	1340.0 41	1080.0 42	907.0 45	736.0 45	448.0 47
1957	5340.0 47	3630.0 49	2620.0 48	1930.0 46	1580.0 45	1090.0 46	843.0 48	703.0 48	581.0 48	383.0 48
1958	2950.0 51	2640.0 51	1430.0 51	894.0 51	595.0 51	477.0 50	369.0 51	352.0 50	350.0 50	250.0 50



STATION NUMBER 05412500

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

TURKEY RIVER AT GARBER, ICWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1959	14000.0 24	13100.0 15	12100.0 3	9490.0 3	5630.0 3	3060.0 9	2480.0 10	2350.0 8	1730.0 11	942.0 22
1960	17900.0 13	13800.0 13	8320.0 16	5080.0 19	4010.0 12	3700.0 5	3020.0 5	2530.0 6	1890.0 9	1290.0 6
1961	19000.0 11	18300.0 3	13300.0 2	7370.0 4	4580.0 7	3240.0 6	2590.0 9	2120.0 12	1720.0 12	1100.0 12
1962	23700.0 2	20700.0 1	14800.0 1	9870.0 2	6550.0 2	4550.0 2	3550.0 2	3030.0 2	2460.0 2	1860.0 1
1963	14200.0 22	10900.0 22	7290.0 23	4890.0 23	2930.0 31	1910.0 34	1560.0 32	1280.0 33	963.0 34	741.0 32
1964	7090.0 45	3960.0 48	2290.0 49	1360.0 49	885.0 49	730.0 49	617.0 49	517.0 49	405.0 49	282.0 49
1965	12600.0 26	9970.0 26	9320.0 12	6850.0 6	3870.0 14	2990.0 10	2330.0 14	1940.0 17	1390.0 25	877.0 26
1966	22800.0 3	15100.0 11	8140.0 17	4140.0 31	2390.0 36	1920.0 33	1550.0 32	1350.0 32	1400.0 22	1030.0 19
1967	12400.0 27	7450.0 35	3740.0 43	2220.0 44	1780.0 42	1210.0 44	1190.0 40	1020.0 41	855.0 41	526.0 44
1968	7310.0 43	5950.0 42	4000.0 41	2290.0 43	1920.0 39	1660.0 38	1260.0 38	1130.0 36	891.0 38	530.0 43
1969	17100.0 15	16300.0 9	12000.0 4	7290.0 5	4690.0 6	3070.0 8	2660.0 7	3000.0 3	2350.0 4	1420.0 5
1970	5870.0 48	4210.0 47	2760.0 47	1780.0 47	1380.0 46	1040.0 47	1020.0 46	1010.0 44	925.0 36	644.0 35
1971	13100.0 25	11100.0 20	8370.0 15	5690.0 14	5460.0 5	4040.0 2	3120.0 4	2700.0 5	2300.0 5	1550.0 3



STATION NUMBER 05412500

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

TURKEY RIVER AT GARBER, IOWA

CLASS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	CFS_DAYS	
YEAR	NUMBER OF DAYS IN CLASS																																	CFS_DAYS		
1914					3	16	70	53	54	35	26	18	24	20	11	9	8	7	5	1			1	1	1		1	1							183890.0	
1915					31	16		15	15		15	13	40	30	28	41	50	19	13	10	12		3	4	4	1	1	3	1						401275.0	
1916							2	16	55	15	42	31	48	40	30	22	8	13	5	4	3	3	10	1		1	13			1	3			454803.0		
1920										32	87	37	26	54	32	20	6	10	13	14	10	8	6	5	4	1	1								382986.0	
1921										5	17	23	90	65	37	36	22	8	11	12	9	8	5	5	7	3	1	1							374467.0	
1922				3	1	1	1	1	14	18	35	56	27	45	32	22	25	14	8	11	31	2	1	2	4	5	2	1			1	1		1	409085.0	
1923					12	14	63	39	87	19	25	19	24	6	9	15	5	2	2	7	5	4	1	1	1	1	1	1		1	1	1			251877.0	
1924							53	91	41	16	12	31	24	10	12	22	6	10	4	7	4	6	4	3	4	3	3								295511.0	
1925							8	11	46	107	49	28	29	20	24	10	4	7	3	4	2	1	1	6	1	1			3						223922.0	
1926							5	27	44	59	40	50	25	15	37	16	9	8	5	14	5	2	1	1	1		1								215665.0	
1927							2	5	7	21	37	41	41	39	35	36	21	9	33	5	10	7	3	1	4	3	1	2	2						366950.0	
1930			1	4	10	20	18	36	55	51	35	40	15	22	9	10	8	7	7	1	2	3	4		2	1	2	1	1						209522.0	
1933					21	26	49	45	20	34	33	21	27	14	15	8	11	4	10	6	1	5	3	2		2	1	1	2		1	2	1		289266.0	
1934		1	18	28	34	76	67	49	20	21	7	10	6	4	6	3	1	1	2	2	2	2	2	1		2									90934.0	
1935					3	7	13	42	26	28	36	21	21	45	24	19	24	9	8	10	6	5	6	5	2		2		2				1		308013.0	
1936			4	26	29	17	26	52	19	42	31	24	16	17	5	13	13	9	2		2	1	1	4	3	5		2	1	1	1			240116.0		
1937					11	22	44	53	40	34	18	19	14	20	12	8	18	13	12	7	4	3		4	1	1	1	1	1	1	2	1			280382.0	
1938			3	10	9	11	51	21	5	5	16	11	24	27	22	28	22	23	12	15	9	11	4	7	8	3	3	4	1						333036.0	
1939					5	12	14	18	22	19	29	37	45	32	26	20	17	23	10	17	8	1	5		1	1	1								227934.0	
1940		12	22	20	9	33	45	22	18	16	11	11	12	11	11	9	13	6	6	5	5	3	2	6	2	2		3						1	194801.0	
1941							10	17	45	36	35	28	41	20	20	21	21	19	12	9	7	6	5	2	2	2	2	2	2	1	2				403190.0	
1942							5	16	24	19	63	52	53	31	26	14	10	14	5	9	7	5	4	6		1	1									383083.0
1943									17	45	47	27	80	46	30	16	8	10	6	7	8	7	3	3		1	2	1	1							420003.0
1944							13	15	23	43	54	36	20	26	26	29	17	11	12	8	8	6	6	5	3	2	2							1		382649.0
1945						16	29	10	17	58	18	20	12	14	21	23	21	20	18	13	11	11	6	6	5	4	2	3	1	1						403622.0
1946							7	26	24	41	65	42	37	20	22	14	14	6	8	9	4	5	4	5	3	2	1	2		1	1	1	1			337962.0
1947					1	5	2	5	4	12	30	45	36	19	28	36	26	11	14	13	18	13	14	7	5	3	7	1	1	2		1	2		533533.0	
1948					15	25	14	14	28	53	33	45	24	20	33	20	11	5	4	4	6	1	1	1	1	1		2	1	1	1	2			274141.0	
1949					14	40	60	31	41	27	15	25	20	16	18	13	10	8	2	6	3	3	3	2	4	2		1	1						181869.0	
1950			16	51	57	20	3		2	17	12	22	30	28	19	19	13	7	5	7	1	5	9	3	2	3	4	2	3	1	2	1	1		379575.0	
1951					10	37	38	39	7	8	4	4	9	12	21	30	26	13	16	10	17	9	9	8	8	10	4	2	4	3	3	3	1		613256.0	
1952								4	15	16	27	30	43	56	43	25	20	21	20	13	9	4	8	5	2	3	1	1							430574.0	
1953								14	51	58	10	20	21	20	16	29	22	30	15	20	7	9	5	5	5	1	2		2	1	1	1			331940.0	
1954					11	10	10	13	23	54	96	28	15	14	16	17	12	17	5	6	5	2	1	3	1	2	2	1	1							203235.0
1955				1		3	27	40	23	29	47	29	26	24	32	24	14	14	4	6	5	6	9		1		1									201388.0
1956				1	11	27	66	39	31	21	38	25	22	14	16	12	13	9	4	5	1	3	1	3	2			1	1						164094.0	
1957						12	32	71	65	35	52	16	13	14	10	10	12	7	1	4	1	1	4			1										139748.0
1958						17	41	61	56	68	39	30	14	12	5	5	4	4	4	1		1	2	1												51099.0



STATION NUMBER 05412500

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

TURKEY RIVER AT GARBER, ICWA

CLASS	NUMBER OF DAYS IN CLASS																																		CFS_DAYS		
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33		34	
YEAR																																			343911.0		
1959	13	48	37	28	23	5	2	2	13	21	25	18	14	18	11	8	18	7	7	6	4	3	7	6	2	3			2	3	4	3					
1960									1	31	22	50	44	30	27	26	30	14	20	12	15	12	11	5	6	1	2	3			1	2	1				
1961							9	17	26	42	39	42	25	21	27	25	21	10	16	8	11	4	4	2	4	2	2	1	2	1		3	1				
1962												21	27	29	29	21	35	34	43	18	23	14	14	7	6	8	7	3	1	1	1	1	1	1	1		
1963							1	27	31	59	45	29	31	39	26	19	13	8	13	3	7	5	3	2			1	1	1	1							
1964					34	51	76	82	30	15	10	27	15	3	5	5	3	2																			
1965					4	56	41	21	30	24	22	23	19	11	15	16	16	14	4	8	2	7	1	3	12	2	3	4	2	4	1						
1966											20	12	8	34	47	72	50	42	28	12	10	7	5	4	3	2		3		2			3		1		
1967					14	20	18	92	36	38	25	19	29	14	8	8	10	10	11	1	1	4	1	1	3			1		1							
1968		1	18	16	47	53	26	21	25	35	28	21	13	11	11	7	7	3	6			3	5	5	1			3									
1969							3	17	23	28	57	27	22	16	14	26	17	31	20	17	12	11	5	2	3	5	4	1			3	1					
1970								38	27	38	52	46	21	16	39	27	22	8	13	6	3	4	3	1			1										
1971											15	24	33	15	11	22	37	47	33	34	25	10	16	11	6	4	3	7	2	3	2	1					

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	18627	100.0	9	220.00	1178	14568	78.2	18	1200.0	549	3138	16.8	27	6200	88	305	1.6
1	49.00	26	19627	100.0	10	260.00	1639	13390	71.9	19	1400.0	589	2589	13.9	28	7500	76	217	1.1
2	59.00	91	19501	99.9	11	320.00	1308	11751	63.1	20	1700.0	407	2000	10.7	29	9000	46	141	.7
3	71.00	119	18510	99.4	12	380.00	1531	10443	56.1	21	2000.0	359	1553	8.6	30	11000	26	95	.5
4	86.00	244	13391	98.7	13	460.00	1314	8912	47.8	22	2400.0	270	1234	6.6	31	13000	34	69	.3
5	100.00	566	18147	97.4	14	550.00	1267	7598	40.8	23	2900.0	233	964	5.2	32	16000	22	35	.1
6	120.00	843	17581	94.4	15	660.00	1235	6331	34.0	24	3500.0	195	731	3.9	33	19000	11	13	.0
7	150.00	859	16688	89.6	16	800.00	1016	5056	27.4	25	4300.0	123	536	2.9	34	23000	2	2	.0
8	190.00	1251	15529	85.0	17	960.00	942	4080	21.9	26	5100.0	108	413	2.2					



STATION NUMBER 05414500

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

LITTLE MAQUOKETA RIVER NEAR DURANGO, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1936	10.00 14	10.00 12	10.10 11	11.20 10	11.90 9	12.40 9	13.60 8	16.20 11	15.90 7	51.20 8
1937	5.00 1	5.17 1	5.71 2	5.53 1	6.52 1	7.21 1	12.30 4	14.90 8	19.50 10	64.70 14
1938	7.00 7	8.67 9	9.86 10	11.10 9	11.90 10	12.50 10	12.90 7	13.80 6	14.50 3	84.40 25
1939	11.00 15	11.70 18	13.60 22	15.70 23	28.10 33	41.60 34	47.40 34	49.70 34	77.50 35	100.00 26
1940	8.00 10	8.67 10	9.29 8	9.86 8	10.80 8	11.70 6	12.60 6	13.50 5	14.90 4	36.70 5
1941	9.00 11	9.67 11	11.40 15	15.00 22	18.00 20	22.30 21	33.90 30	38.50 31	45.20 27	66.00 16
1942	10.00 12	11.00 14	11.10 14	11.40 12	13.00 12	16.60 15	29.50 25	29.80 23	45.50 28	56.10 11
1943	18.00 31	18.70 32	18.90 32	21.30 32	23.50 29	32.40 31	32.70 28	37.50 30	39.40 24	72.30 18
1944	12.00 19	13.00 23	16.90 27	18.90 26	20.00 23	23.90 23	28.70 23	32.20 26	35.70 20	75.00 22
1945	15.00 27	15.30 27	16.10 25	17.70 25	21.00 27	24.30 25	27.30 22	29.70 22	36.20 21	132.00 33
1946	30.00 36	31.30 36	35.60 36	39.80 36	42.70 36	62.90 36	64.50 35	68.50 35	71.80 34	129.00 32
1947	12.00 20	14.00 26	15.90 24	17.10 24	24.00 30	29.80 29	36.50 32	37.10 29	45.00 26	58.80 12
1948	18.00 32	18.00 31	18.70 30	19.60 29	20.10 24	24.10 24	29.80 26	32.00 25	36.20 22	169.00 36
1949	13.00 26	13.30 24	14.00 23	14.90 21	19.40 21	22.40 22	24.70 19	23.90 18	26.30 16	72.80 19
1950	11.00 16	11.30 16	11.70 16	12.10 15	13.30 15	13.70 11	13.90 9	15.40 9	19.60 13	54.90 9
1951	12.00 21	12.00 19	12.00 17	12.50 16	13.10 13	13.80 12	14.40 10	14.90 7	16.40 8	74.80 21
1952	26.00 35	26.30 35	27.70 35	28.40 35	35.60 35	47.30 35	66.10 36	88.50 36	88.40 36	144.00 34
1953	17.00 29	17.70 29	18.30 29	19.50 28	20.20 25	20.90 20	24.70 20	26.30 19	37.70 23	74.40 20
1954	11.00 17	11.00 15	11.00 12	11.30 11	13.30 14	17.10 17	18.70 17	18.70 15	19.50 11	41.80 7
1955	12.00 22	12.00 20	12.90 18	13.70 18	14.00 16	16.20 14	16.60 13	16.80 12	20.90 14	65.00 15
1956	7.30 8	7.30 7	7.59 7	8.05 7	8.47 4	9.54 3	11.20 2	11.20 1	12.10 1	32.30 3
1957	5.80 4	6.00 4	6.44 3	6.58 2	8.08 3	9.12 2	11.90 3	11.50 3	15.30 5	28.90 1
1958	6.80 6	6.80 6	7.40 6	7.43 5	9.23 6	10.70 5	12.40 5	13.50 4	15.70 6	33.40 4
1959	5.20 2	5.60 3	6.57 4	6.90 4	7.39 2	9.87 4	10.10 1	11.40 2	13.40 2	60.70 13
1960	12.00 23	12.70 21	12.90 19	12.90 17	19.50 22	33.30 32	34.70 31	41.20 33	54.60 32	113.00 29
1961	11.00 18	11.70 17	13.00 20	14.60 20	17.50 19	19.90 19	23.80 18	26.60 20	31.20 17	125.00 30
1962	13.00 24	14.00 25	16.60 26	20.60 31	26.90 32	34.90 33	39.10 33	39.60 32	66.40 33	153.00 35
1963	24.00 34	25.70 34	26.10 34	27.70 34	28.50 34	29.80 30	33.90 29	36.20 28	45.90 29	111.00 27
1964	13.00 25	13.00 22	13.00 21	13.50 19	16.20 18	18.00 18	18.10 16	18.50 14	19.50 12	29.60 2
1965	8.00 9	8.33 8	9.43 9	11.50 13	14.00 17	15.20 13	14.90 11	15.50 10	18.10 9	70.60 17
1966	5.20 3	5.53 2	5.70 1	6.70 3	9.19 5	12.00 7	15.80 12	21.00 16	43.70 25	76.90 23
1967	10.00 13	10.70 13	11.10 13	11.90 14	12.90 11	16.80 16	17.40 15	18.40 13	22.00 15	56.10 10
1968	6.20 5	6.37 5	6.99 5	7.88 6	9.66 7	12.30 8	17.20 14	21.20 17	34.00 19	38.90 6
1969	16.00 28	17.00 28	18.90 31	20.10 30	22.70 28	24.90 26	32.70 27	31.30 24	45.90 30	78.10 24
1970	20.00 33	21.00 33	21.40 33	23.10 33	24.20 31	25.70 28	25.90 21	27.60 21	31.60 18	128.00 31
1971	18.00 30	18.00 30	18.10 28	19.00 27	20.50 26	25.00 27	29.50 24	33.60 27	48.50 31	112.00 28



STATION NUMBER 05414500

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

LITTLE MACCKETA RIVER NEAR DURANGO, IOWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1935	2360.0 16	1220.0 17	651.0 17	368.0 21	282.0 17	183.0 19	150.0 20	127.0 18	105.0 19	70.5 20
1936	791.0 32	591.0 30	447.0 27	367.0 22	229.0 23	131.0 27	94.6 29	76.7 31	55.1 33	36.6 33
1937	4270.0 7	2160.0 6	989.0 8	676.0 8	449.0 8	306.0 8	241.0 8	218.0 8	189.0 7	104.0 9
1938	2900.0 12	1420.0 14	721.0 15	448.0 11	275.0 19	188.0 18	167.0 16	158.0 15	124.0 17	95.7 11
1939	1770.0 23	718.0 26	404.0 28	236.0 30	207.0 26	140.0 26	121.0 24	102.0 25	88.6 22	62.8 22
1940	1990.0 20	1000.0 23	477.0 26	277.0 26	165.0 28	111.0 29	97.9 28	80.6 30	69.8 28	43.6 31
1941	1110.0 29	1030.0 21	566.0 20	324.0 24	216.0 25	142.0 25	116.0 26	102.0 26	83.8 25	60.0 24
1942	725.0 35	403.0 33	245.0 34	154.0 33	115.0 32	87.5 33	73.9 33	69.8 32	64.7 30	59.5 25
1943	1870.0 21	992.0 24	512.0 23	329.0 23	287.0 14	199.0 13	167.0 17	145.0 17	126.0 16	83.4 15
1944	4830.0 5	2570.0 4	1630.0 3	1220.0 1	721.0 3	441.0 4	339.0 3	290.0 4	231.0 5	135.0 5
1945	774.0 34	486.0 31	390.0 29	273.0 27	229.0 24	198.0 14	153.0 13	152.0 11	156.0 10	97.9 10
1946	4000.0 9	1560.0 11	740.0 14	431.0 12	278.0 18	182.0 20	191.0 14	158.0 16	128.0 13	87.9 13
1947	6590.0 1	2900.0 2	1610.0 4	1110.0 3	735.0 2	493.0 2	389.0 1	345.0 1	261.0 1	157.0 2
1948	3110.0 10	1400.0 15	698.0 16	419.0 14	359.0 9	226.0 11	230.0 9	193.0 10	136.0 12	84.1 14
1949	1760.0 24	1020.0 22	566.0 21	375.0 20	231.0 22	155.0 23	122.0 23	104.0 23	84.3 24	54.4 27
1950	2300.0 17	1820.0 9	828.0 10	406.0 17	308.0 12	192.0 17	173.0 15	166.0 14	126.0 14	74.0 17
1951	4970.0 4	2030.0 7	951.0 9	514.0 9	283.0 15	252.0 10	225.0 10	213.0 9	190.0 6	105.0 8
1952	1480.0 27	823.0 25	499.0 24	408.0 16	310.0 11	214.0 12	200.0 12	175.0 13	155.0 11	111.0 6
1953	4460.0 6	1640.0 10	744.0 13	379.0 15	256.0 21	182.0 21	144.0 21	125.0 19	111.0 18	71.7 19
1954	1510.0 26	1130.0 19	636.0 18	413.0 15	289.0 13	197.0 16	153.0 15	122.0 21	87.3 23	53.1 28
1955	1830.0 22	681.0 28	332.0 31	263.0 25	152.0 30	94.3 30	87.1 30	81.8 29	62.2 31	40.4 32
1956	893.0 31	396.0 34	295.0 32	181.0 32	98.9 36	60.3 36	59.5 36	50.8 36	43.4 36	29.7 36
1957	1040.0 30	422.0 32	193.0 36	129.0 36	103.0 34	73.9 35	70.0 34	59.9 35	52.4 34	36.0 34
1958	664.0 36	355.0 36	191.0 37	102.0 37	59.8 37	50.0 37	38.3 37	40.9 37	36.0 37	24.2 37
1959	2850.0 13	1550.0 12	1380.0 6	1130.0 2	620.0 6	352.0 7	275.0 7	221.0 7	162.0 9	69.0 12
1960	5350.0 2	3460.0 1	1690.0 1	902.0 6	588.0 7	514.0 1	378.0 2	322.0 2	257.0 3	156.0 3
1961	1600.0 25	704.0 27	481.0 25	389.0 18	282.0 16	198.0 15	155.0 18	125.0 20	97.5 20	72.9 18
1962	5040.0 3	2310.0 5	1520.0 5	852.0 7	652.0 5	398.0 6	320.0 5	261.0 5	254.0 4	190.0 1
1963	2120.0 19	1070.0 20	735.0 11	431.0 13	267.0 20	161.0 22	123.0 22	102.0 24	82.0 26	60.7 23
1964	544.0 37	353.0 35	245.0 35	143.0 35	99.0 35	91.4 32	81.1 32	67.4 33	52.0 35	35.2 35
1965	2280.0 18	1460.0 13	781.0 12	473.0 10	347.0 10	292.0 9	223.0 11	179.0 12	126.0 15	80.4 16
1966	2400.0 15	1340.0 16	625.0 19	314.0 25	181.0 27	153.0 24	120.0 25	105.0 22	93.6 21	67.3 21
1967	2510.0 14	1190.0 19	540.0 22	267.0 28	154.0 29	120.0 28	107.0 27	89.4 27	68.4 29	48.5 30
1968	732.0 33	346.0 37	282.0 33	153.0 34	106.0 33	76.6 34	65.5 35	66.8 34	57.5 32	49.7 29
1969	4030.0 8	2670.0 3	1690.0 2	961.0 4	759.0 1	474.0 3	337.0 4	295.0 3	261.0 2	155.0 4
1970	1390.0 23	630.0 29	333.0 30	193.0 31	134.0 31	93.6 31	86.3 31	87.6 28	75.7 27	59.5 26
1971	3000.0 11	1860.0 8	1110.0 7	905.0 5	656.0 4	412.0 5	300.0 6	240.0 6	175.0 8	111.0 7



STATION NUMBER 05414500

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

LITTLE MACQUOKETA RIVER NEAR DURANGO, IOWA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	CFS_DAYS
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS	
1935		3	17	12	18	41	22	20	41	29	26	26	25	8	21	26	10	8	1	2	2	2	2	2	2								1			25746.0
1936	20	21	13	37	46	53	32	20	15	18	13	5	4	4	3	7		5		2	4		2	2												13402.5
1937			2	36	34	43	38	39	14	15	20	25	20	14	13	11	3	6	7	2	4	2	2	2		2	1	2	1				2			37927.0
1938		1	2	21	32	68	15	30	27	19	41	18	20	17	10	4	2	8	8	1	7	2	2	3	1		3		1		2				34942.0	
1939				1	18	48	17	37	66	33	42	32	19	9	11	6	3	7	6	4	1	2	1						2						22923.0	
1940			5	20	56	111	41	36	27	12	18	7	4	6	2	4	3	3	2	3	2	1			1		1								15969.0	
1941				13	20	33	24	33	65	36	40	21	19	17	12	6	6	3	3	1	1	1	2		2	2									21889.0	
1942						9	15	35	67	74	74	52	13	11	4	1	3	3		1		1	2												21732.0	
1943						4	45	50	54	37	34	40	38	19	17	9	7	2			4		1	1		1	2								30456.0	
1944					2	12	36	33	39	36	32	18	25	23	24	17	8	13	11	6	4	4	3	1	2		3		2				2		49464.0	
1945						7	12	22	52	58	31	21	18	26	33	34	17	7	3	8	4	2	1	9											35751.0	
1946						7	25	19	34	52	81	54	28	16	7	15	6	3	3	3	3	2	1	2		2				1			1		32101.0	
1947				1	3	2	10	49	45	48	28	27	33	18	24	13	18	10	8	5	7	2	1	3	2	4	2	1						1		57124.0
1948					11	62	41	73	53	30	21	16	10	11	7	5	5	5	3	2	1	3	1	2				3			1				30779.0	
1949			2	24	45	55	69	48	23	22	15	13	15	6	3	6	1	8	3	3	2			1				1							19852.0	
1950				52	95	26	25	26	24	20	21	20	11	7	4	4	3	7	4		3		3		3	2		2		1	1				27011.0	
1951					65	66	4	10	24	20	19	17	23	24	20	19	14	11	8	6	4	1	1	2	2	2		1	1				1		38401.0	
1952					6	44	25	22	35	40	57	29	25	17	16	15	10	5	8	2	2	4	1	1	2										40470.0	
1953					14	84	51	45	20	28	34	23	16	13	8	4	2	3	1	1	2	3	1				1					1			26161.0	
1954				10	10	70	111	47	28	11	19	14	8	8	5	5	2	3	2	2		4	2	1	1		1	1							19384.0	
1955		4	30	14	15	36	60	29	41	20	23	14	6	6	3	2	1	1	3	2		2	2												14747.1	
1956			5	55	79	72	54	23	14	10	12	10	6	5	3	1	5	2	3	1	1	2	2		1										10677.3	
1957		3	15	33	60	46	65	25	23	17	10	11	13	8	8	9	4	6	3	2		1	1		1		1								13136.5	
1958		6	23	31	60	32	61	34	20	13	5	6	6	3	2	3	2	3		3				1	1										8834.6	
1959			2	15	73	43	35	24	19	21	16	18	25	14	8	9	7	5	4	5	5	3	3	1	3	1		2	1	1	1	1	1		32499.9	
1960					2	1	28	42	57	41	41	27	24	18	19	18	11	9	4	4	5	3	1	2	2	1	2	2	1		2	2		2	2	57276.0
1961				1	5	19	36	83	53	34	31	24	25	9	8	8	3	2	3	6	5	3	1	3		1	1	1							26603.0	
1962						4	45	70	40	38	29	36	26	17	15	13	7	2	6	2	5	3	2	1				1		2		1	1		69388.0	
1963				1	28	42	29	78	41	63	31	11	10	9	2	4	6	2			3	2	1		1				1						22170.0	
1964				11	97	101	51	24	15	16	17	13	3	6		4	1	2	2	1	1	1													12887.0	
1965		4	6	13	27	39	77	26	23	27	17	18	13	10	9	9	11	4	3	4	3	4	1	2	2	1	4	1	2	1					29334.8	
1966						25	25	14	34	79	62	46	25	15	16	8	3	4	2		2	1	1		1								1		24551.0	
1967		5	9	24	31	30	63	35	26	21	25	14	6	7	2	4	2	1	2		1		4		1		1							1	17697.6	
1968					20	59	53	63	43	41	24	16	12	6	7	3	4	3	2	1	1			2											18198.0	
1969					4	6	53	42	34	33	29	26	20	22	17	16	12	9	7	10	8	6			1	1	2	4	1		1	1		56575.0		
1970						26	60	58	52	37	22	17	18	11	4	7	3	2	2	1	2				1	1	1								21712.0	
1971						20	44	57	43	57	28	24	23	9	10	8	6	8	7	3	1	2			2	2	1	1	1		2				40395.0	



DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

LITTLE MAQUOKETA RIVER NEAR OUFANGO, IOWA

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	13514	100.0	9	27.00	1429	8094	59.9	18	180.0	212	968	7.2	27	1200	31	101	.7
1	5.00	33	13514	100.0	10	34.00	1155	6665	49.3	19	220.0	177	756	5.6	28	1500	25	70	.5
2	6.20	85	13481	99.8	11	41.00	1213	5510	40.8	20	280.0	118	579	4.3	29	1900	16	45	.3
3	7.60	225	13396	99.1	12	51.00	943	4297	31.8	21	340.0	101	461	3.4	30	2300	7	29	.2
4	9.40	490	13171	97.5	13	63.00	757	3349	24.8	22	420.0	80	360	2.7	31	2800	9	22	.1
5	12.00	722	12681	93.8	14	78.00	552	2592	19.2	23	520.0	62	280	2.1	32	3500	5	13	.0
6	14.00	1429	11559	88.5	15	96.00	441	2040	15.1	24	650.0	54	218	1.6	33	4300	7	8	.0
7	18.00	1196	10530	77.9	16	120.00	384	1599	11.8	25	800.0	34	164	1.2	34	5400	1	1	.0
8	22.00	1240	9334	69.1	17	150.00	247	1215	9.0	26	990.0	29	130	1.0					



STATION NUMBER 05417000

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

MAQUOKETA RIVER NEAR MANCHESTER, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1935	6.00 1	7.33 1	9.29 1	10.40 1	11.70 1	17.10 1	22.00 1	33.70 2	35.70 2	115.00 7
1936	20.00 5	20.00 3	20.30 3	20.60 3	30.70 6	37.70 8	49.30 14	52.50 14	53.80 12	128.00 10
1937	23.00 3	26.70 3	27.40 7	28.60 7	31.30 7	34.50 6	48.00 13	54.90 17	72.80 19	157.00 16
1938	25.00 12	32.30 14	33.00 13	36.80 16	39.20 13	39.30 9	41.50 8	42.70 8	44.40 9	138.00 13
1939	35.00 22	50.30 31	57.60 31	62.60 31	77.60 32	90.50 32	103.00 31	119.00 32	153.00 31	168.00 19
1940	15.00 2	23.30 6	24.00 5	24.90 5	28.30 4	33.00 4	35.80 4	38.30 4	39.10 4	74.10 3
1941	26.00 15	26.00 7	31.00 10	35.50 13	37.80 11	44.50 16	73.00 23	97.40 26	133.00 26	168.00 20
1942	36.00 25	42.70 25	44.40 23	49.40 22	52.80 22	68.10 25	96.10 29	99.50 27	217.00 35	283.00 28
1943	70.00 36	87.00 36	93.40 36	101.00 36	113.00 35	138.00 36	182.00 36	219.00 36	242.00 36	328.00 32
1944	18.00 3	27.30 9	35.90 16	36.10 14	37.10 10	43.90 14	52.90 18	59.60 19	70.90 18	165.00 18
1945	32.00 20	36.00 21	33.40 18	38.90 18	41.00 17	44.00 15	49.60 17	54.70 16	65.90 14	196.00 24
1946	45.00 31	46.70 28	54.30 30	57.10 29	79.50 33	96.50 34	105.00 33	108.00 30	133.00 27	280.00 27
1947	40.00 26	40.00 24	43.60 22	52.80 28	59.50 26	67.40 24	97.90 30	106.00 29	116.00 25	142.00 14
1948	45.00 32	47.00 29	50.30 29	51.50 27	54.60 24	69.00 26	89.00 27	93.40 24	94.30 22	450.00 37
1949	35.00 23	35.00 18	37.90 17	37.90 17	43.70 19	46.50 19	49.50 15	50.20 13	57.10 13	172.00 21
1950	25.00 13	28.70 11	29.60 8	34.50 10	40.70 15	42.60 13	43.00 9	43.10 9	44.00 8	136.00 12
1951	25.00 14	34.00 17	35.30 15	36.50 15	40.80 16	41.40 12	45.10 10	49.00 10	81.00 21	227.00 25
1952	94.00 37	102.00 37	116.00 37	130.00 37	144.00 37	175.00 37	240.00 37	248.00 37	263.00 37	430.00 36
1953	43.00 30	44.00 27	47.00 25	49.50 23	54.70 25	56.20 21	58.40 21	58.20 18	68.40 16	161.00 17
1954	27.00 16	28.70 12	31.00 11	32.80 8	34.80 8	40.40 11	45.70 11	49.50 12	53.70 11	122.00 8
1955	23.00 9	39.30 22	41.40 21	43.50 21	46.20 21	56.40 22	58.00 20	62.00 20	68.80 17	151.00 15
1956	23.00 10	30.00 13	32.70 12	33.70 9	34.80 9	36.30 7	37.80 5	39.00 5	40.40 5	71.50 2
1957	20.00 6	20.00 4	20.90 4	23.10 4	27.50 3	31.60 3	33.30 3	34.10 3	36.50 3	62.30 1
1958	22.00 7	22.30 5	24.10 6	26.60 6	29.40 5	33.40 5	38.10 6	41.80 7	42.20 6	86.40 5
1959	19.00 4	19.00 2	19.00 2	19.00 2	19.70 2	21.50 2	23.30 2	25.60 1	27.80 1	126.00 9
1960	30.00 17	35.30 19	47.60 26	50.40 24	60.30 27	73.10 28	78.60 25	93.70 25	150.00 29	262.00 26
1961	42.00 29	52.00 33	59.10 32	66.60 33	71.60 30	81.40 30	104.00 32	147.00 33	150.00 30	358.00 34
1962	35.00 24	51.00 32	65.00 33	65.50 32	80.60 34	95.60 33	96.10 28	117.00 31	211.00 34	376.00 35
1963	50.00 33	50.00 30	50.00 28	51.10 26	68.60 29	80.70 29	88.20 26	101.00 28	143.00 28	344.00 33
1964	29.00 17	36.00 20	41.30 20	42.60 20	45.00 20	46.10 18	46.00 12	48.40 11	52.50 10	90.30 6
1965	25.00 11	28.00 10	30.60 9	35.10 11	37.90 12	40.30 10	40.60 7	41.50 6	43.30 7	135.00 11
1966	30.00 13	33.00 15	40.00 19	41.40 15	42.50 18	50.20 20	56.40 19	82.60 22	115.00 24	194.00 23
1967	40.00 27	40.00 23	45.60 24	50.40 25	53.40 23	58.70 23	60.70 22	62.70 21	78.10 20	179.00 22
1968	34.00 21	34.00 16	34.90 14	35.60 12	40.50 14	46.00 17	49.50 16	53.70 15	66.00 15	81.00 4
1969	62.00 34	76.70 35	80.30 35	86.10 35	120.00 36	129.00 35	141.00 35	155.00 34	184.00 33	297.00 29
1970	41.00 23	43.30 26	48.40 27	57.30 30	64.40 28	71.70 27	77.80 24	87.70 23	100.00 23	315.00 31
1971	66.00 35	66.70 34	67.60 34	68.90 34	72.30 31	90.40 31	125.00 34	166.00 35	178.00 32	312.00 30



STATION NUMBER 05417000

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

MAQUOKETA RIVER NEAR MANCHESTER, IOWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1934	480.0 38	363.0 38	215.0 38	128.0 38	89.2 38	68.8 38	59.6 38	54.8 38	49.5 38	42.7 38
1935	4070.0 20	2300.0 19	1240.0 24	831.0 22	605.0 21	440.0 21	365.0 21	305.0 23	244.0 24	163.0 25
1936	2850.0 25	1620.0 27	987.0 28	700.0 27	474.0 27	292.0 29	221.0 29	185.0 30	126.0 34	102.0 32
1937	6290.0 6	5550.0 3	3060.0 4	1640.0 7	1010.0 9	637.0 9	498.0 10	409.0 12	312.0 15	186.0 20
1938	4000.0 21	2170.0 24	1380.0 21	808.0 23	464.0 28	322.0 28	261.0 28	220.0 28	195.0 27	160.0 26
1939	1370.0 36	1190.0 32	755.0 32	432.0 32	322.0 31	255.0 31	218.0 30	195.0 29	172.0 29	126.0 28
1940	1590.0 34	957.0 34	635.0 33	381.0 34	280.0 33	251.0 32	209.0 32	172.0 33	138.0 33	91.8 34
1941	5610.0 9	3510.0 11	1700.0 14	1090.0 13	733.0 14	455.0 20	346.0 23	325.0 22	291.0 19	227.0 12
1942	4390.0 16	2850.0 14	1850.0 12	1320.0 10	780.0 12	625.0 10	498.0 11	474.0 8	363.0 8	337.0 6
1943	3470.0 22	2230.0 22	1250.0 23	726.0 25	645.0 19	482.0 18	418.0 17	368.0 20	325.0 13	249.0 9
1944	4760.0 14	2760.0 15	1500.0 19	929.0 17	689.0 17	497.0 16	402.0 18	353.0 13	312.0 16	191.0 19
1945	2240.0 31	1570.0 30	860.0 30	703.0 26	595.0 22	499.0 15	455.0 13	423.0 11	345.0 10	206.0 15
1946	7110.0 4	3820.0 10	1780.0 13	1110.0 12	753.0 13	461.0 19	468.0 12	382.0 16	299.0 18	203.0 17
1947	16000.0 1	7540.0 1	3940.0 1	3250.0 1	2050.0 1	1380.0 1	1040.0 1	938.0 1	693.0 2	408.0 2
1948	5760.0 7	2770.0 16	2220.0 10	1340.0 9	969.0 10	600.0 11	562.0 7	467.0 9	336.0 12	209.0 13
1949	4930.0 12	2960.0 12	1620.0 15	946.0 16	579.0 23	399.0 25	305.0 26	267.0 25	211.0 25	135.0 27
1950	6350.0 5	4510.0 5	2160.0 11	1060.0 14	837.0 11	488.0 17	401.0 19	396.0 15	279.0 22	177.0 21
1951	9200.0 3	4950.0 4	2710.0 6	2020.0 4	1330.0 3	1090.0 4	900.0 3	812.0 2	711.0 1	359.0 3
1952	2460.0 28	1620.0 28	1110.0 26	862.0 20	715.0 16	505.0 14	452.0 14	391.0 14	357.0 9	251.0 8
1953	2970.0 26	2210.0 23	1380.0 20	757.0 24	550.0 25	419.0 24	340.0 24	300.0 24	282.0 21	174.0 22
1954	2200.0 30	1710.0 26	998.0 27	641.0 28	417.0 30	389.0 26	312.0 25	257.0 27	192.0 28	123.0 29
1955	1300.0 33	967.0 33	551.0 34	462.0 31	304.0 32	218.0 33	212.0 31	183.0 31	145.0 31	104.0 30
1956	606.0 37	466.0 37	299.0 37	182.0 37	147.0 37	113.0 36	94.9 36	86.2 36	71.4 36	55.8 36
1957	2320.0 29	1550.0 31	919.0 29	579.0 30	446.0 29	280.0 30	207.0 33	168.0 34	145.0 32	92.2 33
1958	1330.0 32	836.0 35	428.0 36	271.0 36	166.0 36	104.0 37	91.3 37	85.7 37	70.0 37	55.0 37
1959	4350.0 17	4090.0 7	2940.0 5	2120.0 3	1180.0 7	655.0 8	529.0 8	537.0 6	381.0 7	207.0 14
1960	9400.0 2	6100.0 2	3550.0 2	1880.0 5	1300.0 4	1240.0 2	946.0 2	752.0 4	597.0 4	380.0 4
1961	3090.0 24	2300.0 20	1540.0 16	967.0 15	732.0 15	559.0 13	452.0 15	381.0 17	300.0 17	232.0 10
1962	5440.0 10	3960.0 9	3230.0 3	2130.0 2	1390.0 2	1120.0 3	875.0 4	777.0 3	624.0 3	510.0 1
1963	2530.0 27	1940.0 25	1530.0 17	894.0 18	573.0 24	369.0 27	298.0 27	262.0 26	211.0 26	169.0 23
1964	1520.0 35	831.0 36	531.0 35	333.0 35	227.0 35	173.0 35	158.0 35	133.0 35	104.0 35	77.4 35
1965	4530.0 15	2500.0 18	1500.0 18	862.0 21	667.0 18	575.0 12	443.0 16	372.0 18	266.0 23	169.0 24
1966	4240.0 13	2270.0 21	1200.0 25	634.0 29	514.0 26	421.0 23	352.0 22	352.0 21	320.0 14	229.0 11
1967	3220.0 23	1570.0 29	787.0 31	419.0 33	263.0 34	205.0 34	195.0 34	172.0 32	150.0 30	103.0 31
1968	4760.0 13	2920.0 13	2280.0 9	1250.0 11	1070.0 8	674.0 7	505.0 9	429.0 10	337.0 11	205.0 16
1969	5720.0 3	4120.0 6	2330.0 8	1600.0 6	1230.0 6	868.0 5	687.0 5	648.0 5	568.0 5	369.0 5
1970	4150.0 19	2530.0 17	1320.0 22	871.0 19	637.0 20	438.0 22	384.0 20	368.0 19	284.0 20	200.0 18
1971	5400.0 11	3970.0 9	2430.0 7	1540.0 8	1250.0 5	845.0 6	618.0 6	510.0 7	436.0 6	295.0 7



STATION NUMBER 05417000

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

MAQUOKETA RIVER NEAR MANCHESTER, ICWA

CLASS	C	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	CFS_DAYS	
YEAR	NUMBER OF DAYS IN CLASS																																	CFS_DAYS			
1934	3	2	11	13	7	13	41	58	116	60	20	4	6	4	3	1	1					2													15602.0		
1935			1			4	14	16	30	51	52	34	44	33	15	12	13	12	17	7	2			2	1						1				59655.0		
1936						16	17	36	42	62	48	40	37	14	18	2	9	7	3	10	2			1	1				1						37228.0		
1937							1	21	45	55	54	42	26	32	25	16	12	3	12	4	4	2	2			2	1	1		1	1	1	1		67823.0		
1938								2	19	48	43	37	50	43	36	14	16	20	3	6	10	6	5	1	1	3			1	1					58570.0		
1939					1			1	12	23	32	57	61	70	37	24	12	10	5	4	6	2	2	1	3	2									46060.0		
1940							3	26	39	89	67	34	21	28	18	9	5	8	3	4	2	5	1	1	1	2									33606.0		
1941									6	16	32	59	59	59	33	16	23	12	17	11	5	5			4		3	2		2		1			82859.0		
1942										2	28	62	43	54	44	37	33	20	15	5	4	4	4	4	2	4	2	4	1	1	2				123055.0		
1943								1		4	19	34	44	55	51	35	31	15	16	4	4	3	3	2	1	1	1	1		1					50976.0		
1944						1	1	11	33	23	34	62	44	37	22	25	22	14	10	6	4	6	3	1	2	2		2		1					69765.0		
1945								3	31	32	41	52	31	35	23	25	28	13	9	13	6	7	5	4	2	2	3									75247.0	
1946									5	18	36	95	72	49	20	17	11	5	6	7	6	6			4	3	1		1	2			1			74195.0	
1947									4	14	10	30	65	42	30	34	31	12	18	21	11	11	6	6	5	4	4		2		4		1			148869.0	
1948									7	14	42	36	55	71	43	17	25	14	6	7	7	4	4	1	4		2	1	4	1		1				76403.0	
1949									3	54	90	45	49	38	16	15	11	15	4	6	4	6	4	1	1		1	1			1					49152.0	
1950								3	19	81	82	28	31	25	27	9	12	9	5	7	3	8	2	2	2	3	1	2		1	1		1			64480.0	
1951								1	7	46	51	22	11	9	11	24	30	37	23	26	16	12	8	3	6	5	3	3	2	2	3	1	2	1			145682.0
1952									2	39	32	29	40	41	46	45	21	16	16	12	9	9	5	3			1									91701.0	
1953									4	53	71	44	47	25	13	25	27	14	16	5	4	3	3	3		2	1	1								63529.0	
1954								5	30	28	52	82	53	35	16	19	9	8	6	4	5	4	3		1	4		1								44941.0	
1955								3	13	53	35	75	49	46	32	11	21	5	7	3	1	3	3				1									27864.0	
1956									16	70	116	69	36	21	17	9	4	3	2	1		1	1													20420.0	
1957								7	11	61	88	63	44	21	15	13	11	9	5	3	3	2	1	2	1	3	1		1							33665.0	
1958									9	79	71	73	44	22	26	20	9	5	2	3			1					1								20060.0	
1959								55	45	47	17	21	23	24	32	30	8	9	9	5	8	3	4	3	1	5	5	3	3	1	2	2					75647.0
1960									2	13	22	53	58	58	30	20	25	23	13	12	6	4	7	5	2	2	2	2	2	3	2	1	1		1		139070.0
1961									1	5	13	33	41	49	52	30	31	33	22	20	10	6	3	2	5	2	4	2	1								84568.0
1962										2	6	36	46	33	58	37	38	25	21	13	11	13	3	5	4	6	5	2	1								186169.0
1963										6	30	41	47	68	50	34	23	23	14	12	2	2	6	2	2		2	1								61681.0	
1964									1	12	80	120	55	31	16	19	14	7	2	1	3	1	2	1			1									28335.0	
1965									8	31	78	54	35	26	22	21	16	16	15	9	4	3	8	4	2	5	4		1		1	1				61510.0	
1966										5	9	32	80	52	40	35	38	26	14	8	3	6	4	3	1	2	1	1									83661.0
1967									5	22	76	102	47	39	29	12	12	7	4	3	2	1	1	1	1				1							37777.0	
1968										21	46	39	48	49	26	36	27	22	15	7	12	6	3	1	1	1		3	1	2						75145.0	
1969											1	10	19	59	44	37	47	28	29	25	24	9	9	13	5	3	1					2				134745.0	
1970										2	6	19	59	85	55	40	30	17	11	12	8	7	5	2	2	1		2	1		1					73115.0	
1971										1	6	20	46	27	34	48	45	51	23	19	11	8	5	4	5	4	1	2	1	2	1	1				107575.0	



STATION NUMBER 05417000

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

MAQUOKETA RIVER NEAR MANCHESTER, IOWA

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	13379	100.0	9	36.00	1248	12882	92.8	18	270.0	468	2105	15.2	27	2000	46	150	1.0
1	6.00	3	13379	100.0	10	45.00	1419	11634	83.8	19	330.0	429	1637	11.8	28	2500	30	104	.7
2	7.50	2	13376	100.0	11	56.00	1348	10215	73.6	20	410.0	329	1208	8.7	29	3100	28	74	.5
3	9.40	11	13374	100.0	12	70.00	1418	8887	63.9	21	520.0	236	879	6.3	30	3900	23	46	.3
4	12.00	14	13363	99.9	13	87.00	1475	7449	53.7	22	650.0	159	643	4.6	31	4800	14	23	.1
5	15.00	8	13149	99.8	14	110.00	1275	5974	43.0	23	810.0	90	484	3.5	32	6000	6	9	.0
6	18.00	104	13341	99.7	15	140.00	947	4699	33.9	24	1000.0	121	354	2.8	33	7500	1	3	.0
7	23.00	255	13737	99.0	16	170.00	869	3752	27.0	25	1300.0	76	273	2.0	34	9400	2	2	.0
8	29.00	590	13472	97.1	17	210.00	778	2383	20.8	26	1600.0	47	197	1.4					



STATION NUMBER 05417700

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

BEAR CREEK NEAR MONMOUTH, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1959	1.80 1	1.80 1	1.84 1	1.97 1	2.29 1	2.39 1	2.59 1	2.85 1	3.14 1	26.50 5
1960	5.50 4	5.57 8	5.61 6	5.89 6	8.99 8	18.20 12	20.60 12	26.90 12	33.40 11	52.70 9
1961	6.60 12	6.90 12	7.51 11	8.54 11	11.00 11	13.40 10	17.60 10	24.50 11	23.60 9	59.80 12
1962	14.00 13	14.00 13	14.60 13	16.00 13	19.60 13	28.40 13	30.80 13	48.40 13	61.90 13	80.20 13
1963	5.80 10	6.07 9	7.00 9	7.26 8	8.40 6	9.08 6	10.50 7	11.60 5	14.30 6	44.80 7
1964	3.10 4	3.13 4	3.24 3	3.41 2	3.96 3	4.97 3	5.35 3	5.34 3	5.95 2	12.60 1
1965	2.80 3	2.87 3	3.17 2	3.53 3	3.78 2	4.32 2	4.38 2	4.55 2	7.99 4	23.80 2
1966	3.30 6	4.23 6	5.70 7	6.29 7	9.27 10	11.90 9	14.20 9	17.60 9	43.00 12	53.90 10
1967	2.10 2	2.63 2	3.59 4	4.61 4	4.77 4	5.54 4	5.61 4	5.75 4	6.97 3	24.10 4
1968	3.60 5	3.70 5	4.47 5	4.80 5	5.83 5	7.42 5	9.53 5	11.70 6	18.90 7	23.90 3
1969	4.70 3	6.70 11	8.23 12	9.46 12	12.20 12	16.50 11	18.20 11	20.50 10	31.00 10	36.40 6
1970	6.20 11	6.43 10	7.00 10	7.66 9	8.55 7	9.52 7	10.50 6	11.90 7	14.10 5	54.00 11
1971	4.20 7	4.40 7	6.49 8	7.86 10	9.17 9	11.20 8	13.50 8	15.40 8	18.90 8	52.20 8



STATION NUMBER 05417700

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

BEAR CREEK NEAR MCNCOUTH, ICWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1958	239.0 13	161.0 13	89.1 13	49.5 13	29.5 14	23.0 14	18.1 14	20.4 14	15.8 14	10.3 14
1959	1260.0 5	676.0 5	370.0 6	240.0 6	216.0 6	134.0 5	101.0 4	81.1 4	71.9 4	38.5 7
1960	1750.0 3	1040.0 3	626.0 3	344.0 4	222.0 4	170.0 2	158.0 1	130.0 1	112.0 1	73.2 2
1961	846.0 10	465.0 8	273.0 7	193.0 7	140.0 7	95.7 8	75.1 8	77.9 5	70.2 5	52.7 4
1962	1460.0 4	891.0 4	538.0 4	381.0 2	250.0 3	159.0 3	138.0 2	121.0 2	101.0 2	79.0 1
1963	1120.0 6	441.0 9	203.0 10	145.0 9	109.0 9	66.7 9	50.6 10	40.9 10	37.1 10	24.2 11
1964	153.0 14	105.0 14	63.3 14	49.1 14	36.4 13	24.0 13	23.6 13	23.0 13	18.6 13	12.1 13
1965	3630.0 1	1820.0 1	871.0 1	438.0 1	263.0 1	140.0 4	97.9 5	76.6 6	69.0 6	47.6 5
1966	890.0 9	432.0 10	215.0 9	112.0 11	73.3 10	64.2 10	60.9 9	58.4 9	53.6 9	37.9 9
1967	353.0 12	245.0 12	129.0 12	74.8 12	40.7 12	31.2 12	28.8 12	25.7 12	22.1 12	17.1 12
1968	763.0 11	352.0 11	189.0 11	113.0 10	69.3 11	55.9 11	41.7 11	36.9 11	32.3 11	30.6 10
1969	935.0 8	636.0 6	410.0 5	307.0 5	259.0 2	171.0 1	124.0 3	112.0 3	96.8 3	61.6 3
1970	1100.0 7	481.0 7	244.0 8	151.0 8	132.0 8	106.0 7	82.7 7	75.7 7	62.4 7	39.4 6
1971	1900.0 2	1390.0 2	634.0 2	372.0 3	220.0 5	122.0 6	87.0 6	69.5 8	61.5 8	38.3 8



STATION NUMBER 05417700

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

BEAR CREEK NEAR MONMOUTH, IOWA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34			
YEAR	NUMBER OF DAYS IN CLASS																																	CFS_DAYS				
1958	40	32	55	43	39	31	42	22	18	13	9	6	2	3		3		1	3			1	1	1													3749.8	
1959	20	56	41	12	7	14	10	11	9	30	22	37	16	13	10	6	7	8	5	5	6	4	3	3		3	5	1					1			14062.4		
1960								3	12	19	13	61	35	37	36	27	30	25	21	8	11	7	3	4	1	4	2	1	3	1			1	1		26785.4		
1961								5	12	24	27	37	44	34	32	38	35	23	7	16	6	6	3	4	2	2	3	1		3	1					19235.5		
1962											13	19	17	36	40	44	44	35	32	20	19	14	10	4	4	3	5		1	2	1		2			28828.0		
1963					5	29	53	49	29	74	48	26	13	10	6	5	1	3	3	3	1	2	1	1					2				1			8825.5		
1964	10	22	60	82	21	38	22	24	19	33	11	6	9	2	1	3					3		1													4425.6		
1965		8	49	27	20	23	26	27	38	20	22	14	10	13	10	7	6	12	6	6	4	4	5	1	3	2							1		1	17381.4		
1966						17	19	11	15	11	23	55	43	49	36	21	19	15	13	6	4	4	1	2									1			13845.2		
1967	1		3	13	31	92	45	25	18	29	20	34	14	9	7	6	5		4	2	1	1	1	1	1	1										6240.2		
1968							2	18	42	49	66	52	41	27	21	11	15	6	4	3	3	1	1	1	1				1	1						11189.6		
1969					1	1		4	16	9	61	43	27	43	31	23	20	17	16	12	9	11	8	3	1	2	2	4			1					22480.8		
1970						1	11	15	42	52	54	45	44	18	12	11	7	7	11	15	8	1	6	3						1			1				14388.1	
1971						3	3	22	25	41	46	57	94	27	11	5	6	2	4	4	2	4	1		2		1	1	1			1			1	1	1	13993.2

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	5113	100.0	9	9.70	319	3754	73.4	18	65.0	133	632	12.4	27	430	13	51	.9
1	1.60	21	5113	100.0	10	12.00	439	3435	67.2	19	80.0	130	499	9.8	28	540	11	38	.7
2	2.20	96	5092	99.6	11	15.00	472	2996	58.6	20	99.0	93	369	7.2	29	660	10	27	.5
3	2.70	94	4956	97.7	12	18.00	572	2524	49.4	21	120.0	73	276	5.4	30	820	6	17	.3
4	3.40	151	4902	95.9	13	23.00	361	1952	38.2	22	150.0	51	203	4.0	31	1000	2	11	.2
5	4.20	177	4751	92.9	14	28.00	307	1591	31.1	23	190.0	37	152	3.0	32	1200	5	9	.1
6	5.20	238	4574	89.5	15	35.00	270	1284	25.1	24	230.0	32	115	2.2	33	1500	2	4	.0
7	6.40	242	4276	83.6	16	43.00	207	1014	19.8	25	280.0	10	83	1.6	34	1900	2	2	.0
8	7.90	280	4034	78.9	17	53.00	175	807	15.8	26	350.0	22	73	1.4					



STATION NUMBER 05418500

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

MACQUOKETA RIVER NEAR MACQUOKETA, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1915	240.00 30	240.00 26	244.00 21	259.00 23	297.00 23	370.00 31	509.00 38	592.00 40	770.00 42	882.00 27
1916	325.00 44	360.00 44	400.00 46	421.00 46	474.00 47	611.00 50	668.00 47	885.00 55	1060.00 52	1270.00 44
1917	250.00 32	250.00 27	250.00 23	250.00 20	250.00 19	251.00 14	280.00 16	315.00 17	249.00 12	756.00 16
1918	160.00 14	160.00 11	160.00 10	171.00 10	187.00 9	206.00 10	234.00 9	262.00 9	297.00 7	677.00 13
1919	245.00 31	275.00 31	325.00 36	333.00 35	359.00 34	389.00 32	406.00 28	423.00 26	486.00 26	858.00 23
1920	370.00 50	370.00 45	370.00 42	371.00 41	376.00 36	423.00 36	504.00 36	746.00 47	1090.00 54	1540.00 54
1921	332.00 45	384.00 48	430.00 50	440.00 48	479.00 48	505.00 43	503.00 35	510.00 34	519.00 29	533.00 33
1922	315.00 42	315.00 39	320.00 34	345.00 36	376.00 37	421.00 35	536.00 43	631.00 44	1050.00 51	1160.00 40
1923	300.00 38	300.00 36	300.00 31	320.00 31	345.00 33	362.00 30	403.00 27	477.00 30	495.00 27	899.00 28
1924	220.00 26	243.00 34	314.00 32	322.00 32	326.00 30	398.00 33	431.00 31	481.00 31	622.00 35	507.00 30
1925	270.00 35	270.00 30	270.00 27	285.00 27	299.00 24	360.00 29	425.00 30	450.00 28	562.00 30	956.00 35
1926	232.00 28	281.00 33	331.00 38	351.00 38	404.00 38	451.00 37	533.00 42	555.00 37	572.00 31	864.00 25
1927	378.00 53	418.00 52	426.00 49	439.00 47	586.00 55	714.00 54	702.00 48	815.00 50	1120.00 55	1210.00 42
1928	331.00 52	433.00 54	440.00 51	479.00 54	595.00 56	688.00 52	771.00 53	857.00 52	912.00 48	1490.00 52
1929	421.00 56	450.00 56	450.00 53	451.00 50	467.00 46	564.00 48	733.00 51	752.00 48	882.00 46	1310.00 46
1930	150.00 9	150.00 8	150.00 8	150.00 7	159.00 6	203.00 9	249.00 12	310.00 15	369.00 16	772.00 18
1931	230.00 27	233.00 23	243.00 22	256.00 21	264.00 20	300.00 20	299.00 18	314.00 16	355.00 14	525.00 5
1932	112.00 2	127.00 3	129.00 3	132.00 3	145.00 4	190.00 7	216.00 5	243.00 5	416.00 22	797.00 22
1933	254.00 33	268.00 29	282.00 29	293.00 29	310.00 26	316.00 23	323.00 22	397.00 25	459.00 25	610.00 9
1934	179.00 17	190.00 13	190.00 12	192.00 11	208.00 12	228.00 12	238.00 10	249.00 6	261.00 5	550.00 7
1935	125.00 5	133.00 6	147.00 7	168.00 8	170.00 8	184.00 6	218.00 6	363.00 22	415.00 21	729.00 15
1936	105.00 1	105.00 1	105.00 1	106.00 1	117.00 1	170.00 3	230.00 7	274.00 10	287.00 6	682.00 14
1937	120.00 4	128.00 4	132.00 5	136.00 5	146.00 5	169.00 2	244.00 11	289.00 13	393.00 19	916.00 31
1938	200.00 21	202.00 17	207.00 16	210.00 16	224.00 15	254.00 16	272.00 15	281.00 11	329.00 9	901.00 29
1939	263.00 36	306.00 37	337.00 39	349.00 37	405.00 45	536.00 46	586.00 46	623.00 42	784.00 43	539.00 34
1940	114.00 3	120.00 2	126.00 2	134.00 4	139.00 2	175.00 4	206.00 3	225.00 4	252.00 4	511.00 4
1941	172.00 16	226.00 21	265.00 26	268.00 24	308.00 25	359.00 28	515.00 40	568.00 39	629.00 37	786.00 20
1942	318.00 43	351.00 42	403.00 47	408.00 45	464.00 44	554.00 47	861.00 56	882.00 54	1190.00 57	1340.00 47
1943	400.00 54	423.00 53	466.00 55	469.00 52	571.00 53	699.00 53	817.00 55	912.00 56	948.00 49	1290.00 45
1944	130.00 6	150.00 9	177.00 11	202.00 13	214.00 13	295.00 19	361.00 24	396.00 24	452.00 24	874.00 26
1945	307.00 40	380.00 47	390.00 45	407.00 43	417.00 39	454.00 38	490.00 33	506.00 33	581.00 33	1210.00 43
1946	380.00 51	367.00 49	405.00 48	443.00 49	572.00 54	748.00 55	711.00 49	769.00 49	878.00 45	1430.00 49
1947	300.00 39	320.00 40	357.00 41	456.00 51	516.00 50	581.00 49	722.00 50	702.00 46	811.00 44	1060.00 37
1948	344.00 46	410.00 51	440.00 52	459.00 52	503.00 49	514.00 44	550.00 44	553.00 36	580.00 32	1870.00 57
1949	239.00 29	296.00 35	322.00 35	329.00 32	347.00 32	355.00 27	368.00 25	381.00 23	412.00 20	861.00 24
1950	204.00 23	204.00 18	211.00 17	215.00 17	235.00 16	252.00 15	253.00 13	258.00 8	340.00 11	760.00 17
1951	190.00 19	193.00 16	196.00 14	202.00 14	216.00 14	230.00 13	257.00 14	282.00 12	443.00 23	1010.00 36
1952	454.00 57	528.00 57	693.00 57	740.00 57	771.00 57	922.00 57	1050.00 57	1220.00 57	1170.00 56	1650.00 55



STATION NUMBER 05418500

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

MAQUOKETA RIVER NEAR MAQUOKETA, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1953	299.00 37	314.00 39	328.00 37	333.00 34	342.00 31	346.00 26	420.00 29	445.00 27	497.00 28	930.00 32
1954	216.00 25	233.00 22	234.00 30	299.00 30	313.00 27	320.00 24	332.00 23	338.00 21	355.00 15	557.00 8
1955	151.00 11	192.00 14	159.00 15	210.00 15	239.00 17	304.00 22	309.00 20	322.00 19	375.00 17	651.00 10
1956	150.00 10	150.00 10	156.00 9	169.00 9	188.00 10	198.00 8	210.00 4	223.00 3	244.00 3	470.00 3
1957	152.00 12	186.00 12	192.00 13	193.00 12	201.00 11	213.00 11	234.00 8	249.00 7	302.00 8	431.00 2
1958	140.00 8	140.00 7	140.00 6	143.00 6	163.00 7	183.00 5	204.00 2	213.00 2	233.00 2	384.00 1
1959	130.00 7	130.00 5	130.00 4	130.00 2	140.00 3	157.00 1	163.00 1	172.00 1	185.00 1	659.00 12
1960	166.00 15	254.00 28	271.00 28	287.00 28	371.00 35	471.00 41	508.00 37	596.00 41	709.00 40	1140.00 39
1961	260.00 34	280.00 32	319.00 33	361.00 40	419.00 40	453.00 40	519.00 41	641.00 45	631.00 38	1470.00 50
1962	413.00 55	433.00 55	460.00 54	455.00 55	550.00 51	799.00 56	798.00 54	845.00 51	1080.00 53	1800.00 56
1963	310.00 41	330.00 41	350.00 40	356.00 39	430.00 42	459.00 39	511.00 39	557.00 38	704.00 39	1490.00 51
1964	194.00 20	210.00 19	213.00 18	223.00 18	241.00 18	287.00 18	303.00 19	317.00 18	338.00 10	532.00 6
1965	180.00 18	193.00 15	219.00 19	231.00 19	269.00 21	283.00 17	286.00 17	300.00 14	350.00 13	775.00 19
1966	203.00 22	213.00 20	236.00 20	256.00 22	313.00 28	336.00 25	370.00 26	452.00 29	905.00 47	1080.00 38
1967	205.00 24	235.00 24	259.00 25	277.00 26	287.00 22	303.00 21	316.00 21	330.00 20	393.00 18	789.00 21
1968	157.00 13	240.00 25	255.00 24	269.00 25	326.00 29	402.00 34	437.00 32	485.00 32	628.00 36	656.00 11
1969	350.00 48	409.00 50	471.00 56	504.00 56	565.00 52	642.00 51	738.00 52	831.00 53	999.00 50	1190.00 41
1970	350.00 47	352.00 43	374.00 43	395.00 42	423.00 41	482.00 42	456.00 34	523.00 35	586.00 34	1540.00 53
1971	370.00 49	377.00 46	386.00 44	408.00 44	444.00 43	526.00 45	564.00 45	626.00 43	737.00 41	1350.00 48



STATION NUMBER 05418500

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

MACQUICKETA RIVER NEAR MACQUICKETA, IOWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1914	13600.0 28	9390.0 30	5010.0 3E	2980.0 41	1880.0 45	1120.0 50	886.0 53	950.0 49	818.0 48	609.0 47
1915	15600.0 25	11500.0 24	6440.0 26	3570.0 35	2350.0 35	1600.0 40	1340.0 40	1300.0 37	1180.0 34	1020.0 23
1916	27400.0 6	16600.0 12	9430.0 13	5220.0 14	3080.0 20	2120.0 25	2130.0 16	1830.0 16	1590.0 17	1140.0 17
1917	14700.0 27	7400.0 35	5570.0 36	3910.0 29	2310.0 37	1390.0 45	1150.0 45	1290.0 38	1020.0 43	679.0 45
1918	6430.0 51	5210.0 49	3600.0 45	2750.0 44	2190.0 40	1460.0 44	1120.0 46	1320.0 34	1100.0 41	733.0 43
1919	13000.0 30	10700.0 27	7400.0 20	4790.0 19	3070.0 21	2970.0 10	2640.0 9	2330.0 7	1940.0 9	1260.0 10
1920	11600.0 33	9600.0 29	5580.0 35	4260.0 26	3890.0 11	2860.0 12	2610.0 10	2260.0 10	1750.0 12	1390.0 7
1921	3200.0 44	6940.0 39	6520.0 25	4980.0 18	2860.0 28	1640.0 3E	1240.0 42	1150.0 44	1130.0 37	843.0 39
1922	21200.0 14	13200.0 20	6570.0 23	3670.0 32	2530.0 33	2330.0 18	1870.0 22	1790.0 21	1570.0 18	1190.0 14
1923	27800.0 4	21500.0 3	11600.0 5	6350.0 9	3710.0 12	2350.0 16	1760.0 26	1430.0 31	1130.0 38	854.0 38
1924	17000.0 21	15300.0 15	9660.0 11	5280.0 13	3430.0 16	2470.0 15	1990.0 1E	1700.0 22	1400.0 23	1010.0 24
1925	24200.0 10	18300.0 7	9750.0 9	5640.0 11	3520.0 15	2130.0 24	1580.0 31	1310.0 35	1120.0 35	755.0 40
1926	7180.0 47	5340.0 48	4470.0 40	3060.0 39	2300.0 38	1700.0 34	1360.0 37	1230.0 41	1120.0 40	924.0 32
1927	10400.0 37	7020.0 37	5530.0 31	4300.0 23	3620.0 14	2800.0 13	2480.0 11	2270.0 9	1950.0 8	1480.0 5
1928	15000.0 24	11800.0 23	6040.0 29	3320.0 3E	2030.0 41	2000.0 28	1690.0 29	1450.0 29	1340.0 25	1120.0 20
1929	26600.0 5	21900.0 2	12600.0 2	7860.0 6	4920.0 6	3460.0 7	2760.0 7	2280.0 8	1900.0 10	1370.0 6
1930	6760.0 50	4520.0 52	2810.0 54	1920.0 52	1260.0 53	966.0 53	941.0 52	899.0 50	851.0 46	598.0 48
1931	4080.0 55	3550.0 55	2490.0 56	1590.0 56	927.0 57	633.0 57	497.0 57	437.0 58	416.0 57	366.0 56
1932	7320.0 45	5660.0 46	3380.0 48	2780.0 43	1980.0 42	1500.0 43	1340.0 38	1240.0 40	1220.0 31	939.0 31
1933	7560.0 46	6430.0 42	4200.0 42	2870.0 42	1950.0 43	1530.0 42	1290.0 41	1180.0 43	942.0 45	679.0 44
1934	6720.0 48	5050.0 50	3020.0 52	1880.0 54	1140.0 55	720.0 56	634.0 56	521.0 56	427.0 56	344.0 57
1935	11400.0 34	7870.0 33	5230.0 37	3640.0 33	2890.0 26	2020.0 27	1660.0 30	1430.0 30	1220.0 32	856.0 37
1936	8710.0 40	7370.0 36	6340.0 27	4400.0 22	2710.0 31	1630.0 39	1230.0 43	1020.0 46	753.0 51	554.0 50
1937	25500.0 8	22900.0 1	14600.0 1	8990.0 3	5790.0 4	3860.0 5	2920.0 5	2570.0 6	2050.0 6	1220.0 12
1938	12500.0 31	9170.0 31	6040.0 30	3770.0 31	2600.0 32	1670.0 35	1340.0 39	1200.0 42	1200.0 33	858.0 33
1939	6040.0 53	4370.0 53	3380.0 49	2620.0 46	1790.0 47	1370.0 46	1210.0 44	1060.0 45	972.0 44	765.0 41
1940	8760.0 39	6590.0 40	3510.0 47	1980.0 51	1350.0 52	1180.0 48	1070.0 4E	893.0 51	757.0 49	540.0 51
1941	22900.0 11	17000.0 11	9330.0 14	5200.0 15	3030.0 22	1890.0 33	1530.0 19	1670.0 23	1650.0 14	1170.0 16
1942	6760.0 52	5840.0 45	4490.0 39	3430.0 37	2380.0 34	1900.0 31	1740.0 27	1630.0 24	1310.0 26	1250.0 11
1943	17700.0 14	11100.0 25	6170.0 28	3890.0 30	2880.0 27	2150.0 23	1840.0 23	1810.0 19	1490.0 19	1130.0 1E
1944	34800.0 1	17700.0 4	5950.0 16	5940.0 10	3910.0 10	2890.0 11	2340.0 13	2180.0 12	1850.0 11	1180.0 15
1945	8440.0 41	6330.0 43	3540.0 46	2720.0 45	2320.0 36	1960.0 29	1920.0 20	1860.0 15	1640.0 16	1120.0 21
1946	31400.0 2	17900.0 8	9670.0 10	5090.0 16	2960.0 24	2030.0 2E	2170.0 15	1820.0 17	1470.0 20	1130.0 19
1947	26100.0 7	19500.0 6	11800.0 4	10000.0 1	6610.0 1	4810.0 1	3790.0 1	3480.0 1	2930.0 1	1910.0 2
1948	24700.0 9	13000.0 19	7710.0 19	4470.0 21	4040.0 9	2620.0 14	2230.0 14	1930.0 14	1460.0 21	982.0 27
1949	16500.0 23	12600.0 22	7380.0 21	4550.0 20	2810.0 29	1920.0 30	1570.0 32	1380.0 32	1090.0 42	748.0 42
1950	19600.0 17	17400.0 10	9470.0 12	5000.0 17	3630.0 13	2240.0 19	1770.0 25	1810.0 20	1440.0 22	962.0 29
1951	19800.0 16	15300.0 16	8250.0 17	5460.0 12	3420.0 17	3350.0 8	2910.0 6	2590.0 5	2330.0 5	1390.0 6



STATION NUMBER 05418500

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

MAQUOKETA RIVER NEAR MAQUOKETA, IOWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1952	12000.0 32	8990.0 32	5820.0 33	4160.0 27	3110.0 18	2200.0 20	2030.0 17	1820.0 18	1650.0 15	1210.0 13
1953	22000.0 12	16200.0 13	7980.0 18	4290.0 24	2960.0 25	2170.0 22	1720.0 28	1480.0 28	1290.0 28	890.0 34
1954	3700.0 57	3200.0 56	2700.0 55	1900.0 53	1480.0 50	1210.0 47	1010.0 50	891.0 52	726.0 52	540.0 52
1955	11100.0 35	5850.0 44	3210.0 50	2480.0 48	1570.0 48	1090.0 51	1070.0 49	975.0 48	794.0 50	573.0 49
1956	5290.0 54	3570.0 54	2860.0 53	1760.0 55	1030.0 56	749.0 55	664.0 55	702.0 54	589.0 54	431.0 54
1957	3940.0 56	2890.0 57	1840.0 57	1330.0 57	1200.0 54	834.0 54	672.0 54	590.0 55	572.0 55	425.0 55
1958	3400.0 58	2570.0 58	1710.0 58	1030.0 58	652.0 58	505.0 58	414.0 58	446.0 57	402.0 58	306.0 58
1959	17600.0 19	14300.0 18	10700.0 7	7990.0 5	4790.0 7	3130.0 9	2350.0 12	2000.0 13	1670.0 13	951.0 30
1960	21900.0 13	19900.0 4	12400.0 3	7140.0 7	4770.0 8	4250.0 4	3470.0 3	2830.0 4	2470.0 4	1610.0 4
1961	9180.0 38	6990.0 38	4230.0 41	3600.0 34	3090.0 19	2200.0 21	1840.0 24	1630.0 25	1380.0 24	1080.0 22
1962	17100.0 20	14500.0 17	10400.0 8	9030.0 2	6000.0 3	4260.0 3	3630.0 2	3110.0 2	2590.0 3	2220.0 1
1963	10300.0 36	7560.0 34	6570.0 24	4270.0 25	3000.0 23	1890.0 32	1500.0 33	1290.0 39	1150.0 35	887.0 36
1964	6050.0 49	5000.0 51	4170.0 43	2440.0 49	1510.0 49	1060.0 52	979.0 51	867.0 53	699.0 53	516.0 53
1965	10600.0 22	13000.0 21	7250.0 22	4050.0 28	2770.0 30	2330.0 17	1920.0 21	1610.0 26	1250.0 30	984.0 26
1966	15500.0 26	10800.0 26	5660.0 34	3050.0 40	1860.0 46	1650.0 36	1380.0 36	1210.0 36	1290.0 29	986.0 25
1967	9300.0 43	5360.0 47	3120.0 51	2070.0 50	1450.0 51	1130.0 49	1110.0 47	986.0 47	834.0 47	652.0 46
1968	8300.0 42	6540.0 41	4120.0 44	2510.0 47	1950.0 44	1590.0 41	1400.0 35	1340.0 33	1130.0 36	889.0 35
1969	20800.0 15	15900.0 14	9330.0 15	7060.0 8	6250.0 2	4360.0 2	3280.0 4	2940.0 3	2610.0 2	1750.0 3
1970	13100.0 29	10500.0 28	5360.0 32	3490.0 36	2240.0 39	1650.0 37	1480.0 34	1540.0 27	1300.0 27	975.0 28
1971	30200.0 3	19700.0 5	11200.0 6	8060.0 4	5650.0 5	3670.0 6	2710.0 8	2250.0 11	2010.0 7	1340.0 9



STATION NUMBER 05418500

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

MAQUOKETA RIVER NEAR MAQUOKETA, IOWA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34			
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS			
1914						6	17	30	18	42	22	18	16	8	6	5	1	2	1	2	2	1					1	1			1	1						222317.0
1915							1	29	59	36	73	45	21	14	19	30	10	4		18		1		1	1	1	1	1										373665.0
1916								1	53	44	31	53	38	36	31	17	12	12	6	6	5	4	2	1	1	1	1	4	1	1					1		418890.0	
1917							60	52	89	66	32	14	4	10	6	5	6	2	5	5	2	1	1	1	1		3							1			247579.0	
1918	10	32	16	14	56	57	41	28	16	10	18	13	11	5	12	5	6	5	4	1	3	2															267647.0	
1919					1	4	26	32	42	54	27	35	18	20	22	16	15	9	8	5	10	6	5	4	3				2	1							458923.0	
1920							42	4	40	54	33	21	35	41	23	14	14	13	6	5	5	3	4	4	2	4	2	1									505125.0	
1921								14	34	82	94	48	19	17	18	5	7	2	4	5	4	2	2	3			3	2										307736.0
1922									8	79	53	45	67	22	29	18	10	9	5	3	5	2	3	4			1			1				1			435730.0	
1923								25	98	83	32	39	21	16	18	5	9	3	4	3	1	2	1		1	1				1			1	1		1	311764.0	
1924					1	2	38	8	41	60	47	26	49	34	21	12	2	7	3	3	5	1	1	1				1	1			2				370226.0		
1925					2	23	38	60	72	67	28	14	16	8	4	6	5	12	1	2	3				1								1	1		1	290190.0	
1926							27	50	52	59	42	51	24	17	12	7	6	5	5	1	4	1			2												337344.0	
1927							2	8	17	25	70	41	44	32	41	19	24	11	5	8	6	3	3	4	1	1											539065.0	
1928								31	50	57	49	63	23	44	11	8	12	4	2	2	3			2	2					1	1	1					411692.0	
1929								8	63	24	39	13	55	30	28	29	24	16	10	10	3	8		1		1		1				1	1				501746.0	
1930		26			40	12	23	20	70	50	32	31	25	18	5	4	4	1		2			1			1											218388.0	
1931		2	18	21	18	27	112	68	21	26	12	7	3	3	4	3	2	2	1	1	1	2	1														140780.0	
1932						12	26	31	38	22	35	57	40	37	15	22	12	6	3	3	2	2	1			3											343622.0	
1933						12	45	90	53	42	21	22	17	10	11	14	9	1	6	2		2	2	2	2	2											247790.0	
1934		7	25	78	80	88	33	14	10	1	6	4	6	4	2	1	1	3							1	1											125529.0	
1935						23	33	35	35	34	30	38	24	18	20	16	27	12	6	3	2	2	1	4		1											312534.0	
1936	21	25	28	16	38	34	35	48	30	26	14	10	6	12	1	6	3	4					1	3	2	1	2										202835.0	
1937					6	57	34	52	39	18	14	26	26	19	19	17	12	5	2		2	1	3	1	1	1	2	2	1	2	1			3		446586.0		
1938					5	27	51	16	17	30	38	35	24	17	15	11	4	13	1	2	8	4	1		3				1								327868.0	
1939					3	15	17	48	65	57	40	32	24	17	19	7	4	6	2	2	3	1	1	2														279076.0
1940	1	24	18		6	22	51	30	28	39	30	24	11	10	11	6	3	2		3	3		1			1	2										157675.0	
1941						1	7	36	44	45	58	47	34	24	10	19	7	7	4	2	6	2	1	4	1	1	3				1			1		425845.0		
1942								5	16	46	61	60	52	32	36	20	12	8	1	3	7	3	3															456547.0
1943								2	27	55	50	33	52	49	32	25	15	11	3		1	5	1		2				1								413912.0	
1944		3	5	5	13	14	14	21	43	20	22	35	42	37	25	16	13	6	2	11	5	5	4	1	2				1							1	430141.0	
1945							1	15	38	55	56	31	26	31	26	33	13	15	7	7	3	3	1	1	2	1												408860.0
1946								11	41	54	61	57	41	34	13	14	11	6	1	5	5	2	3	3	1										1		1	413498.0
1947							3	7	3	12	37	51	31	57	26	22	24	26	13	12	6	6	6	7	5	4	1	2	2			1		1		1	657544.0	
1948						1	18	35	41	100	46	35	26	16	12	5	8	5	3		5	1	3			1	2	2						1			359498.0	
1949					7	18	15	55	67	54	31	22	20	15	15	12	9	6	4	1	1	3	1	1	1	1				1	1						273128.0	
1950					1	39	45	32	40	21	25	34	25	18	23	9	8	7	6	2	5	4	4	3	1	1		1					2	1			351081.0	
1951					10	40	17	36	30	5	2	6	20	37	42	27	18	9	26	8	10	3	3	4	1	1	3	2	1	2	1	1					509042.0	







## STATION NUMBER 05420500

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

EAR	1	3	7	14	30	60	90	120	183	ANNUAL
875	18000.0 73	18000.0 72	19400.0 75	22900.0 80	25200.0 80	26200.0 71	27000.0 67	27000.0 62	35400.0 69	48500.0 52
876	14000.0 43	14000.0 41	14300.0 42	16300.0 46	21000.0 64	28200.0 76	28700.0 73	29900.0 71	37500.0 74	59400.0 79
877	16000.0 61	16300.0 63	16900.0 63	19100.0 68	24100.0 75	25100.0 67	30600.0 77	30800.0 72	35500.0 71	65800.0 84
878	23000.0 90	23000.0 89	24400.0 89	26800.0 89	27500.0 83	28600.0 79	31900.0 78	32700.0 76	33800.0 65	45700.0 47
879	11000.0 21	11700.0 24	12900.0 32	14900.0 36	19100.0 50	19600.0 44	19500.0 32	23400.0 44	29400.0 55	40500.0 32
880	20000.0 83	20300.0 80	20900.0 81	24000.0 82	29900.0 89	31800.0 86	33700.0 84	35100.0 81	35400.0 70	43800.0 41
881	16000.0 62	16000.0 59	16600.0 62	18700.0 67	21100.0 65	21600.0 58	22100.0 52	23500.0 45	28700.0 51	60100.0 80
882	24600.0 92	24700.0 92	25500.0 91	28300.0 91	32700.0 91	37900.0 92	47400.0 93	55300.0 93	87200.0 93	91500.0 93
883	15000.0 54	15000.0 52	15900.0 56	18400.0 65	25500.0 81	28500.0 78	31900.0 79	38300.0 86	44500.0 83	69300.0 89
884	14000.0 44	14000.0 42	14700.0 48	17400.0 57	22400.0 68	23300.0 63	23900.0 61	26700.0 61	31200.0 62	60500.0 81
885	18000.0 74	18000.0 73	19000.0 73	24400.0 84	30100.0 90	35700.0 90	35800.0 88	36300.0 83	57000.0 92	67100.0 85
886	15000.0 55	15000.0 53	15400.0 51	16400.0 47	23300.0 73	25100.0 68	26200.0 66	28500.0 65	34700.0 66	57600.0 75
887	12000.0 28	12000.0 29	12600.0 30	14100.0 28	18700.0 47	18900.0 38	21900.0 50	25500.0 57	30900.0 61	49100.0 53
888	12000.0 29	12000.0 30	12100.0 24	14100.0 29	17900.0 40	18800.0 37	18900.0 29	20300.0 28	25500.0 37	40800.0 36
889	12000.0 30	12300.0 32	13100.0 33	15500.0 41	17100.0 37	19300.0 42	20000.0 37	23100.0 42	26100.0 44	68700.0 87
890	8000.0 6	8000.0 6	8290.0 5	9640.0 3	11300.0 2	12400.0 2	14300.0 2	15100.0 2	18300.0 9	30500.0 11
891	14000.0 45	14000.0 43	14000.0 38	14100.0 30	14500.0 18	15200.0 14	16600.0 13	19500.0 21	29100.0 53	48200.0 51
892	10000.0 16	10000.0 16	10400.0 15	11600.0 11	14100.0 15	17600.0 29	17600.0 21	18800.0 16	19900.0 16	36900.0 23
893	13000.0 37	13000.0 35	13700.0 35	14000.0 24	14100.0 16	14800.0 11	15200.0 8	17200.0 13	23000.0 31	61900.0 82
894	10000.0 17	10300.0 17	11100.0 19	12500.0 18	15500.0 21	18200.0 30	18700.0 28	20300.0 29	22400.0 26	53200.0 65
895	9000.0 9	9570.0 11	10100.0 12	11900.0 14	13400.0 10	14200.0 6	16900.0 17	19000.0 17	19300.0 13	40600.0 33
896	8000.0 7	8000.0 7	8570.0 7	10100.0 5	13300.0 9	14400.0 9	14900.0 6	16700.0 9	20000.0 18	27800.0 4
897	11000.0 22	11700.0 25	12400.0 26	15100.0 37	16900.0 35	18600.0 36	24000.0 62	25200.0 55	24900.0 35	44700.0 44
898	10000.0 18	10000.0 12	10600.0 16	12700.0 20	15700.0 25	16600.0 21	18200.0 25	20000.0 23	24200.0 33	55800.0 70
899	9000.0 10	9000.0 9	9290.0 10	10600.0 7	14000.0 13	16000.0 18	16600.0 14	19100.0 18	20800.0 19	34100.0 20
900	14000.0 46	14000.0 44	14300.0 43	16500.0 50	20300.0 56	21200.0 54	21800.0 48	26300.0 59	30600.0 59	51500.0 63
901	16000.0 63	16000.0 60	16000.0 57	16200.0 45	17200.0 38	19200.0 41	19600.0 33	27200.0 63	48600.0 87	49300.0 54
902	9000.0 11	9000.0 10	9140.0 8	10900.0 9	14500.0 19	16200.0 20	17100.0 18	20300.0 30	23700.0 32	41000.0 37
903	15000.0 56	15000.0 54	15600.0 54	18100.0 61	24800.0 78	28400.0 77	28000.0 71	32800.0 77	31700.0 63	46900.0 48
904	16000.0 64	16000.0 61	16000.0 58	17000.0 54	20400.0 57	21700.0 59	22800.0 55	26300.0 60	52500.0 91	73900.0 91
905	14000.0 47	14000.0 45	14600.0 45	16400.0 48	19500.0 54	20700.0 51	21700.0 47	28700.0 66	38700.0 76	55600.0 69
906	21000.0 85	21700.0 83	22700.0 85	24000.0 83	25200.0 79	31700.0 85	35400.0 87	38500.0 87	46500.0 85	69400.0 88
907	26000.0 93	26000.0 93	26400.0 92	28900.0 92	36000.0 93	38200.0 93	42200.0 92	47100.0 92	50800.0 90	72000.0 90
908	13000.0 33	13300.0 38	14100.0 39	16700.0 52	18300.0 43	19100.0 40	22800.0 56	27300.0 64	37400.0 73	57700.0 76
909	11000.0 23	11000.0 20	11300.0 20	14000.0 25	18700.0 48	19800.0 46	22100.0 51	22900.0 40	26000.0 42	50700.0 59
910	24000.0 91	24000.0 90	25000.0 90	27100.0 90	27800.0 84	29900.0 81	32500.0 81	33600.0 80	34700.0 67	50800.0 60
911	7000.0 3	7330.0 3	7860.0 2	10600.0 8	13000.0 8	13100.0 3	14600.0 4	15800.0 4	17300.0 6	25900.0 1
912	18700.0 76	18900.0 76	19200.0 74	19400.0 69	20400.0 58	26400.0 72	25000.0 65	29200.0 68	30900.0 60	37500.0 26



## STATION NUMBER 05420500

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

YEAR	1		3		7		14		30		60		90		120		183		ANNUAL	
1913	14000.0	48	14000.0	46	14900.0	49	15900.0	44	16300.0	29	17400.0	28	18000.0	23	20000.0	24	26100.0	43	44500.0	42
1914	14000.0	49	14000.0	47	14100.0	40	15400.0	38	16800.0	34	18500.0	34	19600.0	34	22700.0	39	25800.0	41	38900.0	29
1915	10000.0	12	10300.0	18	11000.0	18	12800.0	21	16300.0	30	18600.0	35	21000.0	41	25000.0	53	30400.0	58	45200.0	45
1916	18000.0	75	18000.0	74	18700.0	71	20900.0	75	24400.0	76	33300.0	88	32600.0	82	37000.0	84	40400.0	78	52900.0	64
1917	12000.0	31	12000.0	31	12400.0	27	14700.0	35	19200.0	52	21500.0	56	21600.0	46	25300.0	56	29400.0	56	62200.0	83
1918	10000.0	13	10000.0	13	10100.0	11	11800.0	12	14400.0	17	14900.0	12	18100.0	24	20900.0	32	22600.0	28	47300.0	49
1919	7000.0	4	7330.0	4	9140.0	9	14000.0	26	20700.0	61	23200.0	62	23500.0	60	26000.0	58	25700.0	40	40800.0	34
1922	14000.0	50	14000.0	48	14700.0	46	17100.0	55	18600.0	45	19600.0	43	21500.0	44	22600.0	38	25600.0	38	38900.0	30
1923	10000.0	14	10000.0	14	10400.0	13	12400.0	17	15500.0	22	17100.0	26	17500.0	19	19200.0	19	19900.0	17	41700.0	38
1924	8000.0	8	8000.0	8	8290.0	6	10500.0	6	12500.0	5	15300.0	15	16400.0	12	17000.0	10	18400.0	10	30700.0	12
1925	11000.0	24	11000.0	21	11700.0	22	14300.0	32	16500.0	31	17000.0	24	19600.0	35	22000.0	36	26400.0	47	40500.0	31
1926	11000.0	25	11700.0	26	12400.0	28	14100.0	27	15900.0	28	18400.0	32	18400.0	26	19700.0	22	21300.0	22	30100.0	9
1927	17000.0	71	17300.0	70	19900.0	77	20500.0	73	22700.0	71	25000.0	66	27200.0	68	31200.0	73	42300.0	79	45500.0	46
1928	15000.0	57	15300.0	57	16400.0	61	18500.0	66	24500.0	77	27800.0	74	30400.0	75	32900.0	78	33300.0	64	51000.0	61
1929	22000.0	88	22000.0	86	23000.0	86	25400.0	85	28800.0	86	30200.0	82	33600.0	83	39100.0	88	49500.0	89	57900.0	77
1930	10000.0	15	10000.0	15	10400.0	14	12100.0	16	15800.0	26	17000.0	25	17700.0	22	20200.0	27	22200.0	23	43200.0	40
1931	12000.0	32	12000.0	27	12900.0	31	14300.0	33	15100.0	20	15600.0	16	16700.0	15	17900.0	14	18500.0	11	28200.0	5
1932	13600.0	41	13600.0	39	14000.0	36	14200.0	31	15600.0	23	16900.0	22	19600.0	36	20100.0	25	22300.0	24	28400.0	6
1933	7500.0	5	7500.0	5	8140.0	4	9890.0	4	12700.0	6	14300.0	7	14500.0	3	15400.0	3	17100.0	4	30300.0	10
1934	6500.0	1	6500.0	1	7430.0	1	8580.0	1	9890.0	1	11900.0	1	12600.0	1	13000.0	1	13700.0	1	27200.0	3
1935	10500.0	19	10500.0	19	10800.0	17	11100.0	10	12400.0	4	14100.0	5	16100.0	10	16300.0	7	19600.0	14	28800.0	7
1936	12000.0	33	12400.0	33	12600.0	29	13700.0	22	15600.0	24	16900.0	23	18500.0	27	21500.0	35	22600.0	29	39600.0	27
1937	7000.0	2	7230.0	2	7890.0	3	9480.0	2	11700.0	3	14300.0	8	15500.0	9	16000.0	5	16300.0	2	36600.0	22
1938	11100.0	26	11200.0	22	11500.0	21	11900.0	13	13800.0	11	15000.0	13	16300.0	11	16500.0	8	16900.0	3	32700.0	16
1939	12000.0	34	13000.0	36	14700.0	47	17300.0	56	22400.0	69	27700.0	73	29700.0	74	32400.0	75	39600.0	77	56600.0	73
1940	12000.0	35	12000.0	28	12300.0	25	12600.0	19	13000.0	7	13600.0	4	14700.0	5	16100.0	6	17200.0	5	33800.0	17
1941	16800.0	67	16900.0	66	17400.0	66	18200.0	63	19200.0	53	19700.0	45	22900.0	58	23500.0	46	24500.0	34	34000.0	19
1942	14800.0	51	15100.0	55	15700.0	55	16500.0	49	18200.0	41	22200.0	60	27500.0	70	29500.0	69	43500.0	82	50400.0	57
1943	22400.0	89	22400.0	88	22600.0	83	23400.0	81	26600.0	82	30500.0	83	30600.0	76	33100.0	79	42900.0	80	54500.0	68
1944	16200.0	65	17100.0	68	18200.0	70	21400.0	78	22700.0	70	27900.0	75	28600.0	72	29900.0	70	30400.0	57	56400.0	72
1945	19400.0	77	19700.0	77	19800.0	76	20100.0	72	20800.0	63	22600.0	61	23400.0	59	24200.0	48	25700.0	39	53500.0	66
1946	21100.0	86	21900.0	84	22600.0	84	26000.0	86	29800.0	88	33700.0	89	34000.0	85	35200.0	82	36500.0	72	58400.0	78
1947	19900.0	79	20400.0	81	20600.0	79	20900.0	74	23800.0	74	28900.0	80	35800.0	90	41900.0	89	43400.0	81	49300.0	55
1948	17600.0	72	17600.0	71	17800.0	69	18100.0	62	19100.0	51	21100.0	53	22800.0	57	23400.0	43	26300.0	46	57300.0	74
1949	12800.0	36	13100.0	37	14000.0	37	14700.0	34	15800.0	27	16100.0	19	16800.0	16	17200.0	11	17800.0	7	31700.0	15
1950	13400.0	39	14400.0	50	15400.0	52	15700.0	42	17500.0	39	18300.0	31	19200.0	30	19400.0	20	19900.0	15	30800.0	13
1951	13800.0	42	14100.0	49	14300.0	44	16600.0	51	18600.0	46	20100.0	49	20100.0	38	20200.0	26	20900.0	21	44600.0	43
1952	21200.0	87	24100.0	91	26900.0	93	29400.0	93	34000.0	92	36000.0	91	36700.0	89	42800.0	90	48900.0	88	68100.0	86



STATION NUMBER 05420500

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1953	19900.0 80	20100.0 79	20600.0 80	21000.0 76	22100.0 67	23700.0 64	24600.0 63	24500.0 50	26500.0 48	56000.0 71
1954	20900.0 84	21400.0 82	21800.0 82	22300.0 79	23100.0 72	24200.0 65	25400.0 64	25000.0 54	26200.0 45	50000.0 56
1955	19800.0 78	20000.0 78	20400.0 78	21000.0 77	21400.0 66	25400.0 69	27200.0 69	29100.0 67	35300.0 68	50500.0 58
1956	16900.0 68	18100.0 75	18800.0 72	19900.0 71	20700.0 62	21400.0 55	21900.0 49	22100.0 37	22400.0 25	33800.0 18
1957	13400.0 40	13800.0 40	14100.0 41	15400.0 39	17100.0 36	19000.0 39	20100.0 39	20800.0 31	20800.0 20	35000.0 21
1958	17000.0 69	17000.0 67	17000.0 64	17600.0 58	19700.0 55	20600.0 50	22400.0 53	24900.0 51	26600.0 49	37300.0 24
1959	11500.0 27	12500.0 34	13600.0 34	13800.0 23	14100.0 14	14500.0 10	15200.0 7	17200.0 12	18100.0 8	26400.0 2
1960	15700.0 59	16000.0 62	16200.0 60	18400.0 64	20600.0 60	25700.0 70	32000.0 80	31600.0 74	37700.0 75	38900.0 28
1961	15000.0 52	15000.0 51	15200.0 50	15500.0 40	16700.0 33	18500.0 33	21200.0 42	24300.0 49	27000.0 50	47500.0 50
1962	15100.0 58	15300.0 58	16100.0 59	16800.0 53	19000.0 49	20800.0 52	21600.0 45	25000.0 52	28800.0 52	37500.0 25
1963	17000.0 70	17200.0 69	17400.0 67	17700.0 60	18500.0 44	19900.0 47	21400.0 43	23100.0 41	29300.0 54	51500.0 62
1964	15000.0 53	15200.0 56	15600.0 53	15900.0 43	16500.0 32	17300.0 27	17500.0 20	18200.0 15	18700.0 12	29800.0 8
1965	10900.0 20	11400.0 23	11900.0 23	12000.0 15	13800.0 12	15800.0 17	19400.0 31	21100.0 33	22800.0 30	30900.0 14
1966	20000.0 81	22300.0 87	24300.0 88	26000.0 87	28200.0 85	31300.0 84	38600.0 91	46100.0 91	46700.0 86	74000.0 92
1967	16000.0 60	16800.0 64	17300.0 63	19400.0 70	20400.0 59	21600.0 57	22700.0 54	23700.0 47	25000.0 36	40800.0 35
1968	16300.0 66	16900.0 65	17100.0 65	17600.0 59	18200.0 42	20100.0 48	20600.0 40	21300.0 34	22500.0 27	42400.0 39
1969	20000.0 82	22000.0 85	24000.0 87	26400.0 88	29700.0 87	32500.0 87	34600.0 86	37200.0 85	45400.0 84	53600.0 67



STATION NUMBER 05420500

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1874	98400.0 72	97300.0 72	96300.0 68	94600.0 66	90300.0 64	78900.0 62	77600.0 55	72600.0 49	63800.0 48	48700.0 42
1875	167000.0 26	166000.0 24	164000.0 21	155000.0 19	137000.0 22	118000.0 20	108000.0 18	97700.0 18	80000.0 21	57700.0 20
1876	165000.0 28	165000.0 25	164000.0 22	158000.0 18	157000.0 12	150000.0 5	134000.0 6	121000.0 4	97900.0 2	67400.0 5
1877	104000.0 69	101000.0 69	87200.0 80	73900.0 83	67400.0 83	67100.0 74	66700.0 67	66700.0 62	57000.0 61	44900.0 51
1878	80800.0 89	73700.0 88	77200.0 88	71400.0 86	63600.0 88	62100.0 81	59600.0 77	57800.0 70	52500.0 67	43600.0 54
1879	96300.0 75	95700.0 74	92500.0 74	86600.0 75	78200.0 73	70300.0 69	67100.0 66	59300.0 68	52000.0 68	40900.0 62
1880	250000.0 2	247000.0 3	242000.0 3	225000.0 4	181000.0 5	139000.0 8	129000.0 7	116000.0 6	91000.0 9	63700.0 13
1881	174000.0 17	172000.0 19	166000.0 18	149000.0 25	127000.0 29	112000.0 25	106000.0 19	99100.0 17	87200.0 14	58200.0 19
1882	237000.0 5	236000.0 4	235000.0 4	229000.0 3	213000.0 3	177000.0 2	143000.0 2	116000.0 7	97200.0 4	94700.0 1
1883	174000.0 18	173000.0 17	171000.0 15	162000.0 16	145000.0 16	121000.0 18	110000.0 14	106000.0 11	88700.0 11	65500.0 9
1884	144000.0 41	143000.0 41	138000.0 42	135000.0 34	123000.0 35	112000.0 26	103000.0 24	94600.0 23	77600.0 26	56700.0 23
1885	146000.0 38	144000.0 40	140000.0 39	133000.0 40	125000.0 31	96900.0 41	89200.0 42	85100.0 35	78800.0 23	67700.0 3
1886	157000.0 31	156000.0 31	153000.0 31	142000.0 29	129000.0 26	112000.0 27	97100.0 31	84800.0 37	66500.0 39	49800.0 40
1887	149000.0 34	148000.0 35	145000.0 35	135000.0 35	120000.0 36	93500.0 48	82000.0 47	71800.0 51	58700.0 55	45200.0 50
1888	248000.0 3	248000.0 2	246000.0 2	237000.0 2	220000.0 2	191000.0 1	164000.0 1	142000.0 1	110000.0 1	67400.0 6
1889	64300.0 94	64300.0 94	62900.0 91	60900.0 91	58600.0 90	52400.0 89	52900.0 83	51200.0 82	44500.0 82	35000.0 79
1890	142000.0 44	141000.0 44	136000.0 44	134000.0 37	119000.0 38	90900.0 51	89700.0 41	79700.0 43	66200.0 42	42800.0 56
1891	130000.0 52	129000.0 52	128000.0 50	124000.0 47	115000.0 45	95900.0 43	78300.0 52	68900.0 57	53700.0 66	40600.0 64
1892	238000.0 4	235000.0 5	223000.0 6	205000.0 9	185000.0 4	166000.0 4	140000.0 3	123000.0 2	97700.0 3	60200.0 16
1893	174000.0 19	174000.0 16	173000.0 14	166000.0 14	155000.0 13	144000.0 7	123000.0 8	108000.0 9	82700.0 18	51900.0 35
1894	157000.0 32	156000.0 32	153000.0 32	140000.0 31	129000.0 27	109000.0 30	94700.0 34	85600.0 34	65300.0 44	43400.0 55
1895	70000.0 92	66000.0 92	60100.0 93	56200.0 93	52500.0 92	49900.0 91	45000.0 91	41300.0 91	38600.0 90	29200.0 89
1896	148000.0 36	147000.0 36	145000.0 36	131000.0 41	124000.0 34	111000.0 28	93300.0 36	78700.0 46	60400.0 51	40300.0 67
1897	198000.0 12	197000.0 12	194000.0 12	185000.0 11	164000.0 11	130000.0 13	109000.0 15	102000.0 15	88100.0 12	57100.0 21
1898	88800.0 81	88800.0 81	87400.0 79	81800.0 80	71100.0 79	59200.0 82	57000.0 80	56400.0 73	48500.0 73	35700.0 75
1899	149000.0 35	149000.0 34	147000.0 33	137000.0 32	116000.0 42	106000.0 34	103000.0 25	90600.0 26	71400.0 31	47100.0 45
1900	100000.0 71	98900.0 71	94300.0 72	86700.0 74	79900.0 69	70100.0 70	60900.0 74	52100.0 81	49100.0 71	40500.0 65
1901	142000.0 45	140000.0 46	134000.0 47	118000.0 52	101000.0 54	91100.0 50	76800.0 56	69500.0 53	59400.0 53	52400.0 32
1902	123000.0 56	122000.0 56	119000.0 57	111000.0 58	101000.0 55	86200.0 55	80200.0 50	68900.0 58	58400.0 56	41300.0 60
1903	176000.0 15	175000.0 14	164000.0 23	158000.0 17	138000.0 21	115000.0 23	111000.0 11	104000.0 12	95400.0 5	66700.0 8
1904	174000.0 16	170000.0 21	155000.0 29	134000.0 38	128000.0 28	96900.0 42	91600.0 38	86400.0 33	69900.0 34	59900.0 17
1905	172000.0 20	172000.0 18	166000.0 19	152000.0 22	134000.0 23	122000.0 16	111000.0 12	104000.0 13	93900.0 7	67700.0 4
1906	169000.0 24	169000.0 22	168000.0 16	162000.0 15	147000.0 15	122000.0 17	118000.0 9	111000.0 8	93100.0 8	69800.0 2
1907	171000.0 21	171000.0 20	166000.0 20	153000.0 20	131000.0 24	104000.0 36	92300.0 37	89400.0 27	80100.0 20	64800.0 12
1908	134000.0 48	132000.0 48	128000.0 51	126000.0 44	125000.0 32	118000.0 21	106000.0 20	93200.0 25	77800.0 24	55100.0 27
1909	123000.0 57	121000.0 59	117000.0 59	116000.0 55	104000.0 52	95800.0 44	88400.0 43	78800.0 45	64500.0 46	45900.0 47
1910	73100.0 91	72100.0 90	71200.0 89	70800.0 87	67700.0 85	58900.0 83	52100.0 85	46800.0 87	44600.0 81	34900.0 80
1911	84000.0 85	74900.0 89	57500.0 94	49400.0 94	45800.0 94	38800.0 93	36200.0 93	34400.0 93	32300.0 93	25500.0 93



STATION NUMBER 05420500

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1912	120000.0 61	119000.0 61	114000.0 60	109000.0 60	91100.0 62	82800.0 59	77900.0 53	66700.0 63	60300.0 52	52000.0 34
1913	123000.0 58	120000.0 60	109000.0 62	95700.0 65	89800.0 65	80300.0 61	76700.0 57	67500.0 59	57300.0 58	40400.0 66
1914	111000.0 64	111000.0 63	103000.0 63	101000.0 62	91700.0 61	81100.0 60	75900.0 58	67400.0 61	57300.0 59	41700.0 59
1915	92000.0 79	91500.0 79	89700.0 77	84100.0 78	75600.0 77	71700.0 67	70000.0 63	69500.0 54	65600.0 43	48500.0 43
1916	195000.0 13	193000.0 13	189000.0 13	177000.0 12	169000.0 10	146000.0 6	136000.0 5	122000.0 3	95100.0 6	67300.0 7
1917	142000.0 46	141000.0 45	139000.0 40	134000.0 39	125000.0 33	107000.0 32	95000.0 33	86700.0 32	69600.0 35	43900.0 41
1918	123000.0 59	122000.0 57	120000.0 56	113000.0 57	94600.0 59	72100.0 66	69600.0 64	66100.0 64	54200.0 64	39800.0 68
1919	156000.0 27	164000.0 29	161000.0 26	151000.0 23	139000.0 19	123000.0 15	104000.0 22	95600.0 20	79400.0 22	52600.0 30
1921	85300.0 82	85300.0 82	81800.0 84	71700.0 85	70200.0 81	65300.0 77	63300.0 70	57100.0 71	47100.0 78	37000.0 70
1922	212000.0 10	210000.0 10	204000.0 10	187000.0 10	154000.0 14	118000.0 22	99500.0 28	87100.0 30	69500.0 36	46500.0 46
1923	106000.0 66	105000.0 65	99000.0 67	86900.0 73	76400.0 76	69200.0 72	59200.0 78	53300.0 80	43600.0 84	31800.0 85
1924	106000.0 67	103000.0 66	95700.0 69	86000.0 76	79600.0 70	69400.0 71	60500.0 76	55300.0 77	54100.0 65	36500.0 73
1925	93900.0 77	92700.0 77	89500.0 78	85600.0 77	67900.0 84	54000.0 88	45200.0 90	43900.0 89	40400.0 89	32000.0 84
1926	83600.0 86	83100.0 85	80400.0 85	69500.0 88	66600.0 86	58000.0 84	49600.0 88	44300.0 88	42300.0 85	32700.0 82
1927	133000.0 49	132000.0 49	129000.0 48	120000.0 48	107000.0 51	97100.0 40	93400.0 35	85000.0 36	69500.0 37	55400.0 26
1928	115000.0 62	115000.0 62	113000.0 61	110000.0 59	103000.0 53	92200.0 49	80600.0 49	72100.0 50	61300.0 49	50600.0 38
1929	146000.0 37	146000.0 37	144000.0 37	142000.0 30	139000.0 20	124000.0 14	102000.0 26	87600.0 28	70000.0 33	56700.0 24
1930	83600.0 87	82500.0 86	80200.0 86	73300.0 84	64500.0 87	57200.0 85	51000.0 87	48700.0 83	44300.0 83	32500.0 83
1931	40700.0 95	40700.0 95	40500.0 95	39200.0 95	34400.0 95	27100.0 95	26400.0 95	26100.0 95	24200.0 94	21000.0 94
1932	97500.0 73	96900.0 73	94700.0 71	88800.0 71	78400.0 72	69100.0 73	61500.0 73	55400.0 76	47400.0 77	36600.0 71
1933	92100.0 78	92100.0 78	91900.0 75	90200.0 69	81300.0 67	71200.0 68	61900.0 72	55700.0 75	45100.0 80	30600.0 86
1934	81400.0 88	80900.0 87	78100.0 87	63900.0 89	53700.0 91	38000.0 94	31400.0 94	28300.0 94	24100.0 95	18900.0 95
1935	123000.0 60	122000.0 58	118000.0 58	107000.0 61	90400.0 63	72900.0 65	65400.0 69	58900.0 69	54500.0 62	41800.0 58
1936	123000.0 50	132000.0 50	128000.0 49	118000.0 53	108000.0 48	98100.0 39	86700.0 45	73200.0 48	54300.0 63	37400.0 69
1937	95800.0 76	93400.0 76	84800.0 81	78900.0 82	73600.0 78	66300.0 75	65600.0 68	62100.0 66	50000.0 70	33200.0 81
1938	167000.0 25	165000.0 26	158000.0 27	135000.0 36	114000.0 46	94900.0 45	85800.0 46	80800.0 42	74000.0 29	49800.0 39
1939	145000.0 39	144000.0 38	139000.0 41	125000.0 46	107000.0 49	87700.0 54	73000.0 61	69300.0 56	57000.0 60	44600.0 52
1940	74100.0 90	70600.0 91	67000.0 90	65600.0 90	59900.0 89	51800.0 90	52500.0 84	47900.0 84	40600.0 88	28900.0 91
1941	123000.0 53	128000.0 53	127000.0 52	120000.0 49	107000.0 50	84800.0 56	75700.0 59	67500.0 60	57400.0 57	42700.0 57
1942	170000.0 22	168000.0 23	163000.0 24	146000.0 28	116000.0 43	94600.0 46	81300.0 48	77400.0 47	66500.0 40	54900.0 28
1943	159000.0 30	158000.0 30	154000.0 30	151000.0 24	141000.0 18	113000.0 24	104000.0 23	102000.0 16	82500.0 19	61000.0 15
1944	159000.0 23	165000.0 27	155000.0 28	147000.0 27	126000.0 30	119000.0 19	106000.0 21	94000.0 24	76700.0 27	53300.0 29
1945	164000.0 29	164000.0 28	161000.0 25	152000.0 21	130000.0 25	109000.0 29	101000.0 27	95900.0 19	77800.0 25	52100.0 33
1946	145000.0 40	144000.0 39	141000.0 38	130000.0 42	114000.0 47	89000.0 52	70900.0 62	69400.0 55	61200.0 50	48000.0 44
1947	225000.0 7	224000.0 7	222000.0 7	210000.0 6	178000.0 7	133000.0 10	108000.0 16	95200.0 21	85100.0 15	65300.0 10
1948	109000.0 65	103000.0 67	102000.0 65	100000.0 63	96800.0 58	88300.0 53	77600.0 54	64900.0 65	50200.0 69	35700.0 74
1949	85300.0 83	84700.0 83	84100.0 82	83500.0 79	77800.0 75	63900.0 78	56500.0 81	47800.0 85	41000.0 87	29900.0 88
1950	130000.0 51	129000.0 51	127000.0 53	120000.0 50	119000.0 39	108000.0 31	99200.0 29	87000.0 31	68400.0 38	44600.0 53



STATION NUMBER 05420500

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	CFS_DAYS
YEAR	NUMBER OF DAYS IN CLASS																																	CFS_DAYS		
1874									4	4	3	18	35	32	31	71	13	19	28	25	26	28	21	7											17767800.0	
1875									3	2	6	24	74	29	17	18	17	22	10	21	7	16	49	17	10	7	6	10							21070500.0	
1876								5	4	2	8	6	20	22	14	34	49	16	8	21	19	17	12	13	27	7	6	22	34						24686400.0	
1877								2	11	3	6	16	71	20	13	40	36	12	35	42	53	1	1	3											16406100.0	
1878											6	41	23	63	65	37	50	42	12	13	13														15908200.0	
1879						1	2	3	4	10	43	13	13	8	18	59	52	43	33	8	9	8	18	17	3										14932400.0	
1880											2	8	7	20	14	56	63	32	34	11	4	6	11	13	46	14	2	3	3	2	4	7	4		23332300.0	
1881									4	4	13	42	29	16	9	31	39	16	9	4	5	19	17	39	40	7	6	9	4	3					21238800.0	
1882											4	6	1	13	30	10	16	16	34	25	22	37	43	13	17	26	17	10	5	20					34563100.0	
1883									5	3	2	2	4	17	20	37	26	24	16	36	23	31	18	33	31	7	7	12	6	5					23915500.0	
1884								3	4	2	2	1	56	29	4	9	85	32	5	4	8	12	22	17	41	5	6	19							20769600.0	
1885									4	2	4	3	3	12	36	30	18	18	12	49	31	50	30	28	10	14	11								24708000.0	
1886									9	5	4	6	22	50	19	50	64	17	34	6	4	5	2	20	24	3	8	8	5						18187400.0	
1887								3	6	3	18	24	11	13	25	28	27	56	41	32	14	12	12	6	5	9	7	3	10						16508900.0	
1888								6	3	2	7	57	18	18	14	23	44	6	5	14	21	19	7	4	4	19	15	4	5	12	8	9	15	7	24686500.0	
1889								2	4	2	15	22	32	16	65	32	43	22	40	17	35	18													12789000.0	
1890			5	2		6	23	36	14	3	5	45	27	1	5	15	33	33	23	12	12	8	7	7	19	7	4	13						15615900.0		
1891								19	36	24	31	28	20	18	4	26	34	32	19	12	10	5	5	10	13	7	10	2							14810600.0	
1892						7	4	24	21	10	10	17	33	28	4	17	19	22	9	11	25	13	6	16	7	3	5	16	13	11	9	6			22026000.0	
1893								38	38	22	5	10	30	35	35	9	5	10	11	13	14	9	6	4	8	7	10	23	16	7					18955700.0	
1894						4	4	9	8	40	45	33	27	47	16	5	4	7	7	13	17	28	6	4	4	17	5	9	6						15846700.0	
1895			1			7	16	11	13	19	41	26	40	60	24	27	15	10	29	19	6	1													10666600.0	
1896			5	8		7	3	6	29	24	7	61	43	40	16	15	13	4	4	7	3	8	14	3	12	15	10	9							14741200.0	
1897						1	3	10	5	13	27	29	20	16	10	32	21	12	7	7	15	25	49	11	16	4	5	6	6	9	6				20855600.0	
1898						6	1	3	36	21	18	24	19	40	38	17	8	25	46	34	10	7	6	6											13027000.0	
1899						5		10	3	7	11	26	24	22	23	31	27	23	33	7	4	8	4	4	17	14	39	10	2	11					17201200.0	
1900								10	4	5	14	14	44	48	20	34	42	29	18	21	15	16	23	5	4										14825600.0	
1901											14	26	17	19	18	33	9	10	22	22	15	26	22	16	28	20	39	2	2	5					19125700.0	
1902						6		3	2	7	17	24	18	6	16	55	35	37	22	14	11	5	21	23	12	10	14	4	3						15066500.0	
1903											6	3	1	7	11	48	28	28	7	3	12	20	19	39	23	23	35	17	12	7	13	3			24362700.0	
1904											8	3	7	26	35	24	20	16	19	23	10	7	13	20	28	29	48	10	10	6	2	2			21941500.0	
1905											4	4	2	25	21	26	3	2	6	10	14	14	29	27	29	26	28	46	24	7	10	5	3			24713600.0
1906																																			25467400.0	
1907																																			23659800.0	
1908																																			20191100.0	
1909																																			16766600.0	
1910																																			12733700.0	
1911																																			9321900.0	



STATION NUMBER 05420500

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

YEAR	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	CFS_DAYS	
1912									2	8	13	27	49	39	44	23	27	13	12	30	22	35	17	3	2											19033600.0	
1913								3	24	26	24	13	8	69	24	31	21	16	14	11	10	28	22	9	9	1	2									14755700.0	
1914								6	6	32	18	11	10	14	61	65	24	15	11	20	14	16	18	9	12	3										15232000.0	
1915						5	2	4	6	6	22	9	16	22	14	12	26	43	13	24	64	44	18	15												17687200.0	
1916										3	4	4	10	33	20	30	44	23	33	22	12	15	15	11	17	12	10	18	18	8	4					24632700.0	
1917							5	3	2	2	9	21	68	14	20	39	42	8	12	21	10	21	12	19	6	11	9	11								17840000.0	
1918						8	1	3	43	11	2	1	51	49	43	27	31	18	9	7	5	16	6	13	11	6	4									14169900.0	
1919	2	2	1			1		7	3	4	18	13	46	41	20	35	8	14	11	21	22	19	10	9	15	14	9	12	8							19211600.0	
1921						2	3	3	3	3	5	10	71	100	36	12	9	5	12	40	27	16	5	3												13521500.0	
1922								3	4	22	26	29	63	43	15	11	18	19	21	9	4	19	20	8	5	2	4	5	3	4	6	2				16960400.0	
1923						7	1	12	14	17	74	39	47	20	14	34	19	15	5	11	8	6	6	7	9											11613400.0	
1924		5	2			2	1	13	11	75	33	21	12	10	7	24	29	15	32	13	9	21	17	10	4											13375600.0	
1925						4	2	1	22	18	36	27	41	43	22	39	45	31	14	3	3		3	11												11692300.0	
1926						1	3	4	17	30	26	32	59	59	25	17	7	8	18	22	16	11	10													11933400.0	
1927									3	1	2	24	24	37	33	34	33	20	25	17	12	21	44	23	4	5	3									20215500.0	
1928								3	4	4	2	5	21	32	53	68	26	25	18	21	21	16	26	14	7											18535900.0	
1929										3	33	30	38	36	22	34	33	24	13	17	20	8	7	13	7	27										20688900.0	
1930						7	2	2	3	71	29	21	18	60	9	13	38	21	17	32	10	5	7													11853900.0	
1931								3	36	45	42	91	45	46	33	6	6	12																		7664300.0	
1932									18	41	29	17	25	26	37	36	28	23	10	38	14	5	10	5	4											13394600.0	
1933			4	2	1	8	15	47	58	36	18	11	8	25	12	9	30	11	16	15	6	6	10	17												11176500.0	
1934	4	2	6	5	32	14	89	81	38	28	14	12	9	6	2	3	3	3	3	2	3	6														6883100.0	
1935									3	16	17	39	45	45	35	15	16	45	45	17	6	5	4	5	4	3										15263400.0	
1936						23	9	25	27	20	40	36	47	15	9	11	12	4	3	5	7	9	17	21	12	7	4	3								13686200.0	
1937	2	3	2			7	5	23	73	59	18	14	13	8	3	3	6	12	18	36	18	24	14	2	2												12102400.0
1938						7	7	5	51	25	21	12	1	11	12	12	24	16	18	14	29	25	20	10	15	11	7	6	6								18165500.0
1939							2	8	4	9	29	23	17	33	36	42	19	19	22	18	11	19	20	13	10	2	2	7									16269600.0
1940						17	36	27	52	48	33	16	19	11	18	14	10	11	12	34	8																10589500.0
1941							1	11	17	20	52	40	50	28	17	9	5	8	15	19	19	15	10	16	4	9											15567500.0
1942								1	3	9	27	38	30	26	21	11	19	29	34	39	47	10	4	4	1	5	7										20040500.0
1943									6	22	20	21	61	45	17	19	33	13	13	15	13	9	11	9	23	15											22269100.0
1944							1	3	9	8	17	66	43	38	23	21	13	10	14	14	23	14	14	5	8	17	5										19512100.0
1945									22	28	42	61	27	17	13	16	16	11	4	10	18	27	29	5	4	6	9										19013100.0
1946									8	15	24	58	47	25	38	29	20	9	12	13	20	17	15	4	3	8											17535300.0
1947									1	1	17	15	36	35	23	27	51	53	39	11	11	9	3	7	5	4	3	6	8								23852200.0
1948	1					7	28	43	39	46	62	40	3	7	6	6		7	4	9	25	14	19													13062400.0	
1949							6	42	69	59	30	24	24	14	15	20	7	7	11	5	11	20	1														10923000.0
1950							4	10	40	71	37	43	12	6	13	9	5	8	4	4	14	13	25	21	6	20										16285500.0	



STATION NUMBER 05420500

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	
YEAR	NUMBER OF DAYS IN CLASS																																	CFS_DAYS		
1951								7	4	14	52	38	26	5	2	9	13	27	26	12	10	18	34	13	20	5	4	5	4	3	6	8	20795500.0			
1952										1	1	17	15	36	36	23	27	51	53	39	11	11	9	3	7	5	4	3	6	8	23891700.0					
1953										10	29	68	53	8	10	5	3	4	15	24	39	41	35	21	18738600.0											
1954										1	25	83	75	22	19	5	14	22	12	17	14	10	16	15	2	2	4	4	3	16651200.0						
1955										25	28	27	43	39	45	31	25	19	22	20	18	8	13	2	14839900.0											
1956									3	15	31	69	56	44	24	18	17	21	23	12	5	3	4	4	6	5	6	12954800.0								
1957									7	11	26	52	27	22	22	18	37	36	26	39	14	6	3	7	9	3	12937000.0									
1958					1				4	13	30	35	41	36	93	20	23	14	19	20	10	6	10598400.0													
1959									46	46	38	23	34	19	14	22	16	21	25	23	16	6	1	4	4	6	1	11151700.0								
1960										1	12	54	62	26	31	19	16	19	16	22	9	13	17	28	1	7	12	1	18666200.0							
1961										34	30	28	26	50	38	28	21	13	17	15	14	11	9	12	6	4	2	2	5	13310200.0						
1962										1	19	19	20	19	29	17	28	17	23	36	24	18	13	18	17	20	16	5	6	19143700.0						
1963										1	27	40	42	41	50	21	11	15	29	40	10	6	11	9	12	13001700.0										
1964					7	6	10			56	78	42	22	22	31	7	10	19	11	10	13	5	6	11	9966600.0											
1965										10	25	31	32	31	42	22	13	25	10	9	4	3	14	8	16	15	15	3	4	4	4	4	3	5	8	21243300.0
1966											7	15	22	22	15	36	28	25	26	32	26	19	43	20	10	8	4	7	20251100.0							
1967										4	13	34	33	62	52	19	11	26	14	5	9	15	8	10	7	21	3	2	4	4	3	6	16543500.0			
1968										4	38	30	24	46	27	30	20	12	24	9	20	29	16	15	6	7	5	5	15060900.0							
1969										4	5	23	19	18	11	28	48	25	26	21	22	18	24	18	19	4	4	8	3	4	4	9	22677200.0			



STATION NUMBER 05420500

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	34698	100.0	9	17000.00	1622	32431	93.5	18	47000.0	1734	12374	35.7	27	130000	482	1039	2.9
1	6500.00	10	34698	100.0	10	19000.00	1974	30809	88.8	19	53000.0	1739	10640	30.7	28	150000	271	557	1.6
2	7300.00	30	34688	100.0	11	21000.00	1898	28835	83.1	20	60000.0	1588	8901	25.7	29	170000	101	286	.82
3	8200.00	36	34658	99.9	12	23000.00	2631	26937	77.6	21	67000.0	1490	7313	21.1	30	190000	75	185	.533
4	9200.00	6	34622	99.8	13	26000.00	3268	24306	70.1	22	75000.0	1401	5823	16.8	31	210000	86	110	.317
5	10000.00	183	34616	99.8	14	30000.00	1981	21038	60.6	23	85000.0	1255	4422	12.7	32	240000	16	24	.069
6	12000.00	134	34433	99.2	15	33000.00	2416	19057	54.9	24	95000.0	1252	3167	9.1	33	270000	8	8	.023
7	13000.00	657	34249	98.7	16	37000.00	2479	16641	48.0	25	110000.0	476	1915	5.5	34	310000			0
8	15000.00	1161	33592	96.8	17	42000.00	1738	14162	40.9	26	120000.0	400	1439	4.1					



STATION NUMBER 05420500

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1940	12000.0 3	12000.0 2	12300.0 2	12600.0 2	13000.0 1	13600.0 1	14700.0 1	16100.0 1	17200.0 1	33800.0 7
1941	16800.0 16	16900.0 15	17400.0 15	18200.0 16	19200.0 15	19700.0 9	22900.0 17	23500.0 13	24500.0 11	34000.0 8
1942	14800.0 8	15100.0 9	15700.0 10	16500.0 9	18200.0 10	22200.0 18	27500.0 22	29500.0 22	43500.0 27	50400.0 19
1943	22400.0 29	22400.0 28	22600.0 26	23400.0 26	26600.0 26	30500.0 26	30600.0 24	33100.0 25	42900.0 25	54500.0 23
1944	16200.0 14	17100.0 17	18200.0 19	21400.0 24	22700.0 23	27900.0 24	28600.0 23	29900.0 23	30400.0 21	56400.0 25
1945	19400.0 21	19700.0 21	19800.0 21	20100.0 20	20800.0 20	22600.0 19	23400.0 18	24200.0 15	25700.0 13	53500.0 22
1946	21100.0 27	21900.0 26	22600.0 27	26000.0 27	29800.0 28	33700.0 28	34000.0 26	35200.0 26	36500.0 23	58400.0 27
1947	19900.0 23	20400.0 24	20600.0 23	20900.0 21	23800.0 25	28900.0 25	36800.0 28	41900.0 27	43400.0 26	49300.0 17
1948	17600.0 20	17600.0 19	17800.0 18	18100.0 15	19100.0 14	21100.0 15	22800.0 16	23400.0 12	26300.0 15	57300.0 26
1949	12800.0 4	13100.0 4	14000.0 4	14700.0 4	15800.0 4	16100.0 4	16800.0 3	17200.0 2	17800.0 2	31700.0 5
1950	13400.0 5	14400.0 7	15400.0 8	15700.0 7	17500.0 8	18300.0 6	19200.0 5	19400.0 5	19900.0 5	30800.0 3
1951	13800.0 7	14100.0 6	14300.0 6	16600.0 10	18600.0 12	20100.0 12	20100.0 7	20200.0 6	20900.0 7	44600.0 15
1952	21200.0 28	24100.0 29	26900.0 29	29400.0 29	34000.0 29	36000.0 29	36700.0 27	42800.0 28	43900.0 29	68100.0 28
1953	19900.0 24	20100.0 23	20600.0 24	21000.0 22	22100.0 22	23700.0 20	24600.0 19	24500.0 17	26500.0 16	56000.0 24
1954	20900.0 26	21400.0 25	21800.0 25	22300.0 25	23100.0 24	24200.0 21	25400.0 20	25000.0 20	26200.0 14	50000.0 18
1955	19300.0 22	20000.0 22	20400.0 22	21000.0 23	21400.0 21	25400.0 22	27200.0 21	29100.0 21	35300.0 22	50500.0 20
1956	16900.0 17	18100.0 20	18800.0 20	19900.0 19	20700.0 19	21400.0 16	21900.0 13	22100.0 10	22400.0 8	33800.0 6
1957	13400.0 6	13800.0 5	14100.0 5	15400.0 5	17100.0 7	19000.0 8	20100.0 8	20800.0 7	20800.0 6	35000.0 9
1958	17000.0 18	17000.0 16	17000.0 13	17600.0 13	19700.0 16	20600.0 13	22400.0 14	24900.0 18	26600.0 17	37300.0 10
1959	11500.0 2	12500.0 3	13600.0 3	13800.0 3	14100.0 3	14500.0 2	15200.0 2	17200.0 3	18100.0 3	26400.0 1
1960	15700.0 12	16000.0 12	16200.0 12	18400.0 17	20600.0 18	25700.0 23	32000.0 25	31600.0 24	37700.0 24	38900.0 12
1961	15000.0 9	15000.0 8	15200.0 7	15500.0 6	16700.0 6	18500.0 7	21200.0 10	24300.0 16	27000.0 18	47500.0 16
1962	15100.0 11	15300.0 11	16100.0 11	16800.0 11	19000.0 13	20800.0 14	21600.0 12	25000.0 19	28800.0 19	37500.0 11
1963	17000.0 19	17200.0 18	17400.0 16	17700.0 14	18500.0 11	19900.0 10	21400.0 11	23100.0 11	29300.0 20	51500.0 21
1964	15000.0 10	15200.0 10	15600.0 9	15900.0 8	16500.0 5	17300.0 5	17500.0 4	18200.0 4	18700.0 4	29300.0 2
1965	10900.0 1	11400.0 1	11900.0 1	12000.0 1	13800.0 2	15800.0 3	19400.0 6	21100.0 8	22800.0 10	30900.0 4
1966	20000.0 25	22300.0 27	24300.0 28	26000.0 28	28200.0 27	31300.0 27	38600.0 29	46100.0 29	46700.0 28	74000.0 29
1967	16000.0 13	16500.0 13	17800.0 17	19400.0 18	20400.0 17	21600.0 17	22700.0 15	23700.0 14	25000.0 12	40800.0 13
1968	16800.0 15	16900.0 14	17100.0 14	17600.0 12	18200.0 9	20100.0 11	20600.0 9	21300.0 9	22500.0 9	42400.0 14



STATION NUMBER 05420500

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1939	145000.0 12	144000.0 12	139000.0 13	125000.0 15	107000.0 16	87700.0 17	73000.0 19	69300.0 18	57000.0 19	44600.0 16
1940	74100.0 29	70600.0 29	67000.0 29	65600.0 29	59900.0 29	51800.0 29	52500.0 27	47900.0 26	40600.0 28	28900.0 29
1941	128000.0 19	128000.0 19	127000.0 17	120000.0 16	107000.0 17	84800.0 18	75700.0 18	67500.0 19	57400.0 18	42700.0 18
1942	170000.0 7	168000.0 7	163000.0 7	146000.0 10	116000.0 13	94600.0 13	81300.0 14	77400.0 15	66500.0 12	54900.0 7
1943	159000.0 10	158000.0 10	154000.0 10	151000.0 7	141000.0 6	113000.0 6	104000.0 6	102000.0 3	82500.0 5	61000.0 3
1944	169000.0 8	165000.0 8	155000.0 9	147000.0 9	126000.0 8	119000.0 5	106000.0 5	94000.0 7	76700.0 7	53300.0 8
1945	164000.0 9	164000.0 9	161000.0 8	152000.0 6	130000.0 7	109000.0 7	101000.0 7	95900.0 4	77800.0 6	52100.0 10
1946	145000.0 13	144000.0 13	141000.0 12	130000.0 12	114000.0 15	89000.0 15	70900.0 20	69400.0 17	61200.0 16	48000.0 13
1947	225000.0 2	224000.0 2	222000.0 2	210000.0 2	178000.0 2	133000.0 2	108000.0 4	95200.0 5	85100.0 4	65300.0 1
1948	108000.0 22	103000.0 22	102000.0 22	100000.0 21	96800.0 20	88300.0 16	77600.0 16	64500.0 20	50200.0 20	35700.0 22
1949	85300.0 27	84700.0 27	84100.0 27	83500.0 27	77800.0 26	63900.0 24	56500.0 25	47800.0 27	41000.0 27	29900.0 27
1950	130000.0 17	129000.0 17	127000.0 18	120000.0 17	119000.0 10	108000.0 8	99200.0 8	87000.0 9	68400.0 11	44600.0 17
1951	222000.0 4	221000.0 4	219000.0 4	210000.0 3	177000.0 4	132000.0 4	110000.0 2	106000.0 2	87700.0 2	57000.0 5
1952	225000.0 3	224000.0 3	222000.0 3	210000.0 4	178000.0 3	133000.0 3	108000.0 3	95200.0 6	85100.0 3	65300.0 2
1953	104000.0 23	103000.0 23	101000.0 23	97700.0 22	93900.0 21	83800.0 19	80100.0 15	79600.0 14	76400.0 8	51300.0 11
1954	176000.0 6	174000.0 6	167000.0 6	148000.0 8	116000.0 14	94300.0 14	90900.0 12	81000.0 13	63900.0 15	45600.0 14
1955	96900.0 25	94700.0 25	94100.0 25	92600.0 24	80600.0 23	65300.0 23	58600.0 24	54700.0 24	48400.0 24	40700.0 20
1956	127000.0 20	126000.0 20	123000.0 20	116000.0 19	98100.0 18	75000.0 21	62400.0 22	56800.0 22	48500.0 22	35400.0 24
1957	103000.0 24	99700.0 24	95300.0 24	90100.0 25	78700.0 24	63100.0 26	56100.0 26	54000.0 25	48800.0 21	35400.0 25
1958	64500.0 30	64500.0 30	62700.0 30	56900.0 30	50200.0 30	40600.0 30	38000.0 30	37600.0 30	33600.0 30	29700.0 28
1959	112000.0 21	107000.0 21	103000.0 21	92900.0 23	70800.0 27	55200.0 28	51400.0 28	47700.0 28	41500.0 26	30600.0 26
1960	151000.0 11	150000.0 11	145000.0 11	137000.0 11	119000.0 11	106000.0 9	95900.0 10	82800.0 12	64700.0 14	51000.0 12
1961	143000.0 14	142000.0 14	135000.0 15	118000.0 18	87900.0 22	74500.0 22	69300.0 21	61300.0 21	48400.0 23	36500.0 21
1962	133000.0 16	137000.0 16	135000.0 16	126000.0 14	120000.0 9	103000.0 11	98400.0 9	87500.0 8	73600.0 9	52400.0 9
1963	90900.0 26	90400.0 26	90200.0 26	87500.0 26	78100.0 25	63500.0 25	60600.0 23	55800.0 23	45500.0 25	35600.0 23
1964	84000.0 28	83700.0 28	82600.0 28	79000.0 28	69500.0 28	57100.0 27	47400.0 29	42100.0 29	34800.0 29	27200.0 30
1965	307000.0 1	304000.0 1	296000.0 1	271000.0 1	224000.0 1	167000.0 1	140000.0 1	118000.0 1	89300.0 1	58200.0 4
1966	143000.0 15	141000.0 15	137000.0 14	128000.0 13	116000.0 12	99400.0 12	91400.0 11	84200.0 11	70500.0 10	55500.0 6
1967	201000.0 5	200000.0 5	195000.0 5	176000.0 5	144000.0 5	105000.0 10	87000.0 13	84500.0 10	66400.0 13	45300.0 15
1968	128000.0 18	128000.0 18	124000.0 19	115000.0 20	96800.0 19	83000.0 20	75700.0 17	69900.0 16	58900.0 17	41200.0 19



STATION NUMBER 05420500

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34				
YEAR	NUMBER OF DAYS IN CLASS																																			CFS_DAYS			
1939			2	8	3	3	20	31	13	15	30	36	42	10	21	21	16	10	11	17	17	13	9	6	2	6	3											16269600.0	
1940			17	36	13	36	61	35	23	15	12	11	18	10	7	15	6	10	33	7	1																	10589500.0	
1941				1	3	14	16	46	37	37	37	28	17	6	5	5	8	14	18	14	17	8	15	6	4	9												15567500.0	
1942							3	4	15	31	25	30	26	14	15	14	18	21	32	31	49	14	3	3	4	3	3	7										20040500.0	
1943									10	26	12	21	61	28	27	20	19	21	12	11	13	12	10	4	11	19	13	15										22269100.0	
1944					4	6	6	10	25	53	43	38	17	21	14	8	9	12	14	17	17	9	8	5	16	9	5											19512100.0	
1945						8	28	31	48	38	27	17	6	16	14	9	11	4	9	14	15	31	15	5	7	3	9											19013100.0	
1946						1	16	15	31	42	47	25	23	34	25	9	9	8	12	16	18	14	5	4	7	4												17535300.0	
1947							1	1	1	16	15	36	23	26	23	21	53	43	36	12	10	9	3	3	10	2	4	2	4	11								23852200.0	
1948	1	7	11	36	40	36	59	44	32	3	7	4	5	3	2	5	4	9	17	15	13	13																13062400.0	
1949		6	17	54	73	44	24	17	19	14	15	9	16	5	8	7	5	10	8	14																		10923000.0	
1950		4	8	14	58	62	34	27	10	6	13	8	4	7	4	3	4	14	8	20	14	17	6	20														16285500.0	
1951		7	2	10	32	40	34	19	2	2	9	9	21	22	19	9	8	16	31	13	17	8	5	6	3	4	2	3	12								20795500.0		
1952						1	1	1	16	15	36	24	26	23	21	53	43	36	12	10	9	3	3	10	2	4	2	4	11									23891700.0	
1953					1	26	33	67	33	8	10	3	4	4	6	12	22	37	29	33	30	7																18738600.0	
1954					4	51	82	47	22	19	3	12	15	13	11	16	14	9	8	16	8	2	4	2	4	3												16651200.0	
1955					7	28	24	31	33	39	45	20	26	22	12	19	18	16	10	3	12																		14839900.0
1956					7	22	51	51	58	29	24	18	12	16	25	11	9	5	3	2	4	4	4	5	6													12954800.0	
1957			7	1	22	31	50	21	20	15	18	37	28	18	31	28	10	6	2	7	6	6	1															12937000.0	
1958	1	4	4	26	21	48	30	51	66	20	23	9	15	20	11	8	6																					10598400.0	
1959		46	32	35	29	34	19	16	9	22	16	18	15	25	15	13	5	1	4	2	4	4	1															11151700.0	
1960					7	23	55	44	26	31	12	15	20	12	16	17	7	13	10	30	7	1	14	5	1													18666200.0	
1961			15	35	26	28	30	39	33	28	21	6	15	13	17	9	10	7	13	6	2	3	2	4	3													13310200.0	
1962				11	13	26	18	19	20	17	28	13	20	17	32	20	16	11	13	18	12	14	16	11														19143700.0	
1963				15	32	49	31	27	47	21	11	10	25	36	16	8	5	8	10	14																		13001700.0	
1964	7	6	10	20	80	55	34	15	27	20	7	10	14	15	6	10	9	4	6	6	5																	9966600.0	
1965			1	18	32	28	28	32	32	22	13	13	20	6	5	6	6	13	4	13	16	7	15	5	2	4	2	4	5	2	4	7					21243300.0		
1966					3	12	13	26	12	15	36	17	26	27	12	31	24	17	30	32	8	5	8	8	3													20251100.0	
1967					6	29	30	41	59	33	19	11	11	27	4	6	10	11	8	7	8	11	12	3	4	2	4	2	5	2							16543500.0		
1968					18	43	24	23	46	15	30	20	6	24	11	8	17	27	13	13	10	4	4	5	5													15060900.0	



STATION NUMBER 05420500

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	10958	100.0	9	24000.00	992	7963	72.7	18	61000.0	435	2553	23.3	27	150000	61	148	1.3
1	10900.00	8	10958	100.0	10	27000.00	832	6971	63.6	19	67000.0	399	2118	19.3	28	170000	13	87	.7
2	12000.00	26	10950	99.9	11	30000.00	636	6139	56.0	20	74000.0	402	1719	15.7	29	180000	20	74	.6
3	13000.00	136	10924	99.7	12	33000.00	709	5503	50.2	21	82000.0	351	1317	12.0	30	200000	41	54	.4
4	15000.00	130	10788	98.4	13	37000.00	386	4794	43.7	22	91000.0	308	966	8.8	31	230000	2	13	.1
5	16000.00	446	10658	97.3	14	40000.00	537	4408	40.2	23	100000.0	167	658	6.0	32	250000	4	11	.1
6	18000.00	662	10212	93.2	15	45000.00	493	3871	35.3	24	110000.0	110	491	4.5	33	280000	7	7	.0
7	20000.00	829	9550	87.2	16	50000.00	382	3378	30.8	25	120000.0	174	381	3.5	34	310000			
8	22000.00	758	8721	79.6	17	55000.00	443	2996	27.3	26	140000.0	59	207	1.9					



STATION NUMBER 05421000

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

WAPSHIQUON RIVER AT INDEPENDENCE IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1935	8.00 1	8.00 1	8.00 1	11.50 2	12.00 2	19.80 3	24.80 2	27.70 1	54.70 5	373.00 14
1936	8.00 2	26.30 12	31.30 12	32.30 12	36.70 5	54.00 10	62.60 9	76.50 14	82.60 12	433.00 18
1937	9.00 8	9.00 2	9.00 2	9.00 1	9.83 1	16.70 1	86.10 19	103.00 19	226.00 24	400.00 17
1938	9.00 9	13.30 4	19.40 7	21.10 5	24.00 5	30.70 5	36.80 4	36.10 3	39.70 3	355.00 11
1939	20.00 20	95.00 34	128.00 34	143.00 34	204.00 37	233.00 35	261.00 34	336.00 32	480.00 32	649.00 23
1940	8.00 3	14.30 5	15.60 3	15.60 3	19.50 4	22.40 4	20.40 3	37.20 4	38.60 2	146.00 1
1941	9.00 4	10.00 3	17.10 4	24.80 8	40.80 12	56.00 12	80.00 16	154.00 25	268.00 27	378.00 15
1942	9.00 5	36.00 20	47.70 19	53.10 20	66.80 24	90.50 23	256.00 33	418.00 37	547.00 36	730.00 26
1943	105.00 35	165.00 37	174.00 37	177.00 37	187.00 35	275.00 37	283.00 36	367.00 33	543.00 33	907.00 33
1944	9.00 6	42.70 25	64.10 26	67.00 27	74.30 26	128.00 29	154.00 27	174.00 26	226.00 25	475.00 19
1945	9.00 7	31.70 15	57.70 25	59.50 24	61.40 20	65.30 16	81.10 17	93.30 18	131.00 17	701.00 25
1946	14.00 11	42.30 23	78.90 29	85.10 30	112.00 30	125.00 28	137.00 26	146.00 23	203.00 22	788.00 27
1947	16.00 13	34.70 19	54.70 23	63.40 25	81.50 28	109.00 27	193.00 28	190.00 28	249.00 26	310.00 8
1948	16.00 14	19.70 9	32.90 14	35.60 14	43.70 14	70.80 19	120.00 24	135.00 21	132.00 18	1070.00 36
1949	18.00 16	32.00 15	41.40 17	48.40 18	58.00 17	82.80 21	88.60 20	91.00 17	103.00 14	400.00 16
1950	14.00 12	18.00 3	22.60 9	26.80 9	37.00 10	40.00 7	45.10 6	48.80 5	47.60 4	333.00 10
1951	19.00 19	32.70 17	47.50 20	49.20 19	51.60 16	57.70 14	60.90 8	67.70 9	102.00 13	565.00 22
1952	27.00 22	85.30 31	121.00 33	148.00 35	162.00 33	253.00 36	351.00 37	386.00 36	454.00 31	1270.00 37
1953	13.00 17	44.00 26	49.00 21	54.60 21	60.30 19	67.10 17	76.10 15	75.10 12	108.00 16	483.00 21
1954	19.00 13	20.00 10	21.90 8	24.30 7	32.70 7	51.60 5	69.40 13	70.80 11	76.20 11	370.00 13
1955	27.00 23	42.00 22	50.30 22	55.90 22	64.80 23	92.80 24	109.00 21	146.00 22	203.00 23	368.00 12
1956	17.00 15	17.00 7	17.40 6	17.70 4	17.90 3	17.90 2	21.50 1	29.10 2	36.00 1	186.00 3
1957	12.00 10	16.00 6	17.10 5	21.90 6	43.50 13	54.80 11	66.30 11	65.00 8	74.20 9	176.00 2
1958	27.00 25	31.00 14	32.10 13	43.20 16	59.60 18	70.10 18	74.00 14	84.60 15	106.00 15	152.00 4
1959	23.00 24	23.70 13	23.90 11	28.50 10	29.50 6	35.50 6	41.70 5	60.90 7	65.10 7	321.00 9
1960	86.00 23	88.00 32	91.60 31	100.00 31	132.00 31	180.00 31	234.00 31	261.00 29	359.00 29	656.00 24
1961	39.00 23	39.00 21	39.90 16	40.70 15	62.10 21	88.40 22	129.00 25	185.00 27	184.00 21	820.00 29
1962	115.00 36	123.00 36	130.00 35	135.00 33	164.00 34	181.00 32	237.00 32	369.00 35	545.00 34	851.00 31
1963	69.00 31	67.30 29	71.30 28	73.10 28	80.80 27	98.80 26	114.00 23	147.00 24	293.00 28	832.00 30
1964	36.00 27	42.70 24	45.30 18	47.60 17	49.10 15	57.40 13	63.10 10	68.00 10	72.00 8	293.00 7
1965	25.00 21	26.30 11	27.60 10	29.80 11	33.00 8	45.20 8	54.40 7	54.50 6	61.70 6	284.00 6
1966	63.00 31	63.00 28	65.30 27	66.40 26	73.90 25	157.00 30	197.00 29	324.00 31	620.00 37	921.00 34
1967	53.00 29	53.00 27	55.70 24	58.50 23	64.70 22	76.10 20	84.30 18	89.40 16	134.00 19	479.00 20
1968	34.00 25	34.00 18	34.00 15	34.70 13	40.60 11	60.10 15	68.00 12	76.20 13	75.90 10	268.00 5
1969	115.00 37	122.00 35	141.00 36	173.00 36	194.00 36	201.00 33	217.00 30	262.00 30	399.00 30	871.00 32
1970	80.00 32	80.00 30	80.00 30	80.90 29	87.20 29	96.90 25	109.00 22	129.00 20	135.00 20	932.00 35
1971	91.00 34	94.00 33	101.00 32	119.00 32	151.00 32	208.00 34	266.00 35	368.00 34	547.00 35	816.00 28



STATION NUMBER 05421000

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

WAPSIPIKON RIVER AT INDEPENDENCE IOWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1934	345.0 37	770.0 37	636.0 38	432.0 38	269.0 38	168.0 38	163.0 38	139.0 38	106.0 38	74.5 38
1935	6230.0 20	5310.0 20	4120.0 20	3120.0 18	2610.0 14	1660.0 16	1420.0 17	1130.0 19	849.0 21	506.0 20
1936	6410.0 18	5180.0 21	4150.0 19	3980.0 11	2810.0 12	1590.0 17	1130.0 22	507.0 24	617.0 28	412.0 27
1937	7570.0 16	6820.0 13	5790.0 11	3670.0 14	2280.0 18	1570.0 19	1290.0 19	1210.0 16	850.0 20	478.0 24
1938	3930.0 26	3670.0 25	3450.0 23	2920.0 20	1690.0 24	1020.0 28	945.0 27	882.0 25	806.0 24	527.0 18
1939	2740.0 30	2610.0 30	2250.0 31	1530.0 31	1160.0 30	898.0 29	696.0 31	552.0 31	584.0 29	361.0 28
1940	2220.0 33	2050.0 32	1630.0 32	1070.0 33	731.0 33	616.0 33	434.0 34	343.0 35	307.0 33	180.0 33
1941	4640.0 24	4180.0 24	2990.0 25	2130.0 26	2020.0 23	1360.0 22	1230.0 20	1050.0 22	833.0 23	571.0 17
1942	3320.0 15	6040.0 16	4460.0 16	3410.0 17	2090.0 21	1850.0 12	1550.0 12	1380.0 13	1160.0 8	916.0 5
1943	3700.0 27	3030.0 27	2840.0 26	2630.0 21	2120.0 20	1580.0 18	1310.0 18	1100.0 20	864.0 17	669.0 10
1944	12300.0 8	8390.0 10	5180.0 13	3430.0 16	2380.0 17	1810.0 14	1500.0 15	1420.0 12	1070.0 11	631.0 14
1945	5330.0 11	7020.0 12	5630.0 12	3990.0 10	2760.0 13	2020.0 11	1900.0 7	1640.0 7	1200.0 6	657.0 12
1946	3430.0 14	6740.0 14	4740.0 15	3540.0 15	2400.0 16	1440.0 21	1450.0 16	1150.0 18	847.0 22	523.0 19
1947	19100.0 3	15400.0 2	11500.0 1	6690.0 4	4740.0 2	3200.0 3	2630.0 2	2280.0 3	1640.0 3	940.0 4
1948	10600.0 10	8750.0 9	6460.0 10	3910.0 12	2910.0 11	1780.0 15	1550.0 13	1240.0 15	860.0 18	492.0 21
1949	6470.0 17	5570.0 18	4230.0 18	2620.0 22	2070.0 22	1450.0 20	1050.0 25	842.0 28	631.0 27	361.0 29
1950	5970.0 12	6190.0 15	4070.0 21	2380.0 24	2170.0 19	1300.0 23	1130.0 23	1160.0 17	894.0 16	488.0 22
1951	19200.0 2	13500.0 3	8710.0 6	7330.0 1	5300.0 1	3900.0 1	3090.0 1	2730.0 1	2220.0 1	1200.0 1
1952	5900.0 21	5530.0 19	4450.0 17	3050.0 19	2530.0 15	1830.0 13	1510.0 14	1320.0 14	1000.0 15	666.0 11
1953	5800.0 22	4820.0 22	3400.0 24	2100.0 27	1330.0 28	1100.0 26	970.0 26	861.0 27	858.0 19	474.0 25
1954	2720.0 31	2560.0 31	2360.0 29	1590.0 30	1010.0 31	881.0 30	753.0 30	604.0 30	449.0 31	264.0 32
1955	1220.0 35	1170.0 35	989.0 36	791.0 35	681.0 35	630.0 32	553.0 32	524.0 32	405.0 32	288.0 31
1956	2100.0 34	1860.0 34	1580.0 33	1250.0 32	783.0 32	608.0 34	467.0 33	377.0 33	282.0 34	164.0 36
1957	2700.0 32	1900.0 33	1410.0 34	951.0 34	714.0 34	471.0 36	370.0 36	330.0 36	268.0 25	170.0 34
1958	820.0 38	609.0 38	653.0 37	492.0 37	340.0 37	312.0 37	251.0 37	237.0 37	230.0 37	169.0 35
1959	11100.0 9	10000.0 7	9400.0 4	6620.0 5	3800.0 6	2000.0 10	1640.0 11	1660.0 6	1160.0 7	618.0 15
1960	13000.0 7	10400.0 8	6630.0 9	3710.0 13	3060.0 10	2690.0 5	1950.0 5	1550.0 8	1150.0 9	731.0 8
1961	14900.0 4	12700.0 6	9030.0 5	5240.0 8	3240.0 9	2310.0 9	1800.0 8	1460.0 9	1150.0 10	679.0 9
1962	14000.0 5	13200.0 5	10900.0 2	7250.0 2	4680.0 3	3230.0 2	2360.0 3	1970.0 4	1590.0 4	1130.0 3
1963	3210.0 29	2910.0 29	2600.0 27	2410.0 23	1590.0 25	1260.0 25	1140.0 21	526.0 23	719.0 25	487.0 23
1964	1140.0 36	1040.0 36	997.0 35	715.0 36	567.0 36	524.0 35	426.0 35	347.0 34	253.0 36	161.0 37
1965	5540.0 13	8120.0 11	6880.0 8	5490.0 7	3320.0 8	2350.0 8	1730.0 10	1450.0 10	1050.0 12	656.0 13
1966	5640.0 23	4610.0 23	3600.0 22	2260.0 25	1560.0 26	1270.0 24	1080.0 24	1080.0 21	1030.0 14	786.0 7
1967	3220.0 28	2950.0 28	2310.0 30	1740.0 29	1310.0 29	826.0 31	756.0 29	748.0 29	524.0 30	340.0 30
1968	23500.0 1	16600.0 1	8550.0 7	6220.0 6	4290.0 5	2530.0 7	1770.0 5	1450.0 11	1050.0 13	573.0 16
1969	14000.0 6	13400.0 4	9710.0 3	6980.0 3	4670.0 4	2840.0 4	2340.0 4	2450.0 2	1910.0 2	1140.0 2
1970	4290.0 25	3530.0 26	2570.0 28	1780.0 28	1440.0 27	1040.0 27	862.0 28	864.0 26	667.0 26	413.0 26
1971	6330.0 19	5600.0 17	4880.0 14	4060.0 9	3690.0 7	2570.0 6	1920.0 6	1690.0 5	1260.0 5	883.0 6







STATION NUMBER 05421000

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

WAPSIPINICON RIVER AT INDEPENDENCE IOWA

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	13879	100.0	9	48.00	634	12270	88.4	18	410.0	851	4352	31.6	27	3600	118	286	2.0
1	7.00	98	13379	100.0	10	61.00	773	11636	83.8	19	530.0	675	3541	25.5	28	4600	66	168	1.2
2	8.90	174	13781	99.3	11	77.00	769	10863	78.3	20	670.0	632	2866	20.6	29	5800	41	102	.7
3	11.00	15	13607	98.0	12	98.00	749	10094	72.7	21	850.0	563	2234	16.1	30	7400	26	61	.4
4	14.00	55	13598	97.9	13	120.00	1270	9345	67.3	22	1100.0	408	1671	12.0	31	9300	18	35	.2
5	18.00	278	13533	97.5	14	160.00	917	8075	58.2	23	1400.0	280	1263	9.1	32	12000	13	17	.1
6	23.00	208	13255	95.5	15	200.00	1078	7158	51.6	24	1700.0	290	983	7.1	33	15000	1	4	.0
7	30.00	392	13047	94.0	16	260.00	891	6080	43.8	25	2200.0	222	693	5.0	34	19000	3	3	.0
8	33.00	385	12655	91.2	17	330.00	797	5189	37.4	26	2800.0	185	471	3.4					



STATION NUMBER 05422000

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

WAPSIPINICON RIVER NEAR DEWITT, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1936	135.00 11	136.00 11	137.00 11	138.00 10	155.00 10	212.00 12	261.00 14	356.00 15	328.00 12	1130.00 16
1937	85.00 2	85.70 2	88.10 2	91.80 2	98.50 2	129.00 3	241.00 11	356.00 16	461.00 18	1130.00 17
1938	122.00 9	122.00 9	123.00 9	125.00 8	131.00 7	150.00 6	169.00 6	167.00 5	188.00 4	954.00 11
1939	413.00 34	434.00 33	443.00 32	457.00 32	519.00 32	593.00 31	678.00 29	865.00 30	1110.00 30	1430.00 22
1940	70.00 1	70.00 1	70.00 1	73.20 1	79.70 1	89.50 1	103.00 1	117.00 1	137.00 1	517.00 3
1941	152.00 15	154.00 15	164.00 15	204.00 17	270.00 21	366.00 23	450.00 23	551.00 23	586.00 21	762.00 8
1942	114.00 7	119.00 7	122.00 7	139.00 11	160.00 11	280.00 17	797.00 30	1030.00 32	1550.00 35	1790.00 26
1943	534.00 36	564.00 36	594.00 36	631.00 36	771.00 36	932.00 35	1250.00 35	1400.00 36	1490.00 33	2070.00 31
1944	180.00 17	187.00 17	196.00 17	201.00 15	236.00 19	333.00 20	393.00 20	427.00 18	547.00 20	1270.00 20
1945	200.00 19	203.00 18	209.00 19	216.00 19	223.00 17	239.00 15	287.00 15	342.00 14	416.00 14	1680.00 23
1946	300.00 30	303.00 30	319.00 30	352.00 30	398.00 28	531.00 30	532.00 25	564.00 24	656.00 24	1900.00 27
1947	276.00 26	287.00 29	300.00 29	342.00 29	416.00 29	515.00 27	877.00 31	810.00 29	954.00 27	1120.00 15
1948	150.00 13	150.00 13	151.00 12	156.00 13	168.00 13	284.00 19	415.00 21	443.00 20	426.00 15	2670.00 35
1949	167.00 16	172.00 16	175.00 16	203.00 16	235.00 18	244.00 16	252.00 12	270.00 10	313.00 10	556.00 12
1950	205.00 21	206.00 19	208.00 18	209.00 18	217.00 15	226.00 13	239.00 10	270.00 11	384.00 13	1040.00 14
1951	150.00 14	150.00 14	153.00 14	154.00 12	162.00 12	181.00 10	212.00 9	234.00 9	318.00 11	1350.00 21
1952	510.00 35	530.00 35	565.00 35	606.00 35	702.00 33	1100.00 36	1300.00 36	1300.00 35	1480.00 32	2930.00 36
1953	208.00 22	211.00 22	217.00 20	220.00 20	223.00 16	236.00 14	330.00 17	378.00 17	439.00 16	1260.00 19
1954	100.00 6	100.00 5	101.00 5	102.00 5	124.00 5	180.00 9	159.00 7	199.00 7	219.00 6	749.00 7
1955	240.00 23	240.00 23	241.00 22	248.00 22	322.00 23	432.00 25	443.00 22	525.00 22	645.00 22	947.00 10
1956	90.00 3	90.00 3	90.00 3	92.00 3	101.00 3	101.00 2	113.00 2	130.00 2	141.00 2	496.00 2
1957	121.00 8	121.00 8	123.00 8	124.00 7	137.00 8	154.00 7	165.00 5	167.00 6	209.00 5	463.00 1
1958	144.00 12	147.00 12	152.00 13	158.00 14	178.00 14	211.00 11	252.00 13	276.00 12	306.00 9	525.00 4
1959	100.00 4	100.00 4	100.00 4	101.00 4	114.00 4	130.00 4	156.00 4	164.00 3	185.00 3	697.00 6
1960	280.00 27	281.00 26	288.00 27	304.00 27	372.00 26	486.00 26	634.00 28	809.00 28	1020.00 28	1710.00 24
1961	280.00 28	280.00 25	283.00 25	290.00 23	334.00 24	392.00 24	518.00 24	704.00 26	669.00 23	2170.00 33
1962	402.00 33	426.00 32	474.00 33	542.00 33	752.00 35	849.00 34	1010.00 34	1220.00 34	1600.00 36	2440.00 34
1963	200.00 20	208.00 21	245.00 23	299.00 25	335.00 25	344.00 21	374.00 18	454.00 21	699.00 25	2050.00 30
1964	130.00 10	130.00 10	130.00 10	134.00 9	147.00 9	180.00 8	200.00 8	207.00 8	233.00 7	638.00 5
1965	100.00 5	105.00 6	109.00 6	121.00 6	125.00 6	142.00 5	152.00 3	167.00 4	240.00 8	872.00 9
1966	270.00 25	283.00 27	285.00 28	313.00 28	387.00 27	521.00 28	618.00 27	803.00 27	1500.00 34	1980.00 29
1967	170.00 18	207.00 20	234.00 21	239.00 21	257.00 20	282.00 18	299.00 16	304.00 13	444.00 17	1250.00 18
1968	251.00 24	257.00 24	271.00 24	304.00 26	460.00 30	526.00 29	551.00 26	623.00 25	888.00 26	1030.00 13
1969	380.00 31	439.00 34	551.00 34	586.00 34	721.00 34	847.00 33	929.00 32	983.00 31	1100.00 29	1720.00 25
1970	280.00 29	283.00 28	287.00 26	294.00 24	310.00 22	344.00 22	374.00 19	429.00 19	480.00 19	2090.00 32
1971	390.00 32	397.00 31	403.00 31	418.00 31	460.00 31	599.00 32	970.00 33	1200.00 33	1280.00 31	1960.00 28



STATION NUMBER 05422000

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

WAPSIPINICON RIVER NEAR DEWITT, IOWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1935	7860.0 20	7340.0 21	6270.0 20	5350.0 20	4760.0 16	3480.0 17	3020.0 18	2650.0 19	2120.0 19	1320.0 19
1936	6690.0 26	6390.0 25	5850.0 21	5430.0 19	4750.0 15	3170.0 20	2350.0 26	1940.0 26	1350.0 29	890.0 30
1937	12000.0 11	11400.0 9	10400.0 8	8420.0 6	6110.0 8	4340.0 9	3480.0 8	2980.0 10	2300.0 14	1360.0 18
1938	7210.0 25	6510.0 24	5020.0 28	3810.0 28	2620.0 29	2160.0 29	1870.0 29	1790.0 28	1750.0 25	1210.0 23
1939	8030.0 19	6870.0 23	5290.0 26	3940.0 26	3040.0 28	2370.0 27	1860.0 28	1570.0 29	1400.0 28	982.0 28
1940	3250.0 35	2710.0 35	1730.0 37	1350.0 37	1140.0 36	935.0 36	834.0 36	724.0 37	734.0 34	471.0 35
1941	7300.0 21	6990.0 22	5060.0 27	4040.0 25	3770.0 24	2830.0 25	2610.0 22	2300.0 23	1800.0 24	1270.0 22
1942	7740.0 19	7650.0 18	6530.0 19	5520.0 18	3790.0 23	3490.0 16	3070.0 17	2740.0 18	2230.0 16	2020.0 6
1943	5570.0 28	6300.0 26	5490.0 24	4850.0 23	4240.0 19	3570.0 15	3150.0 16	2930.0 12	2520.0 8	1790.0 9
1944	20200.0 2	18300.0 2	12400.0 5	8330.0 7	5240.0 13	4650.0 7	3960.0 6	3720.0 6	2840.0 6	1650.0 11
1945	8760.0 16	8240.0 16	7160.0 15	5550.0 17	4180.0 20	3440.0 18	3430.0 10	3110.0 8	2440.0 12	1440.0 15
1946	13000.0 10	9500.0 13	9310.0 11	6960.0 11	4570.0 17	2980.0 23	3380.0 12	2780.0 16	2200.0 17	1470.0 14
1947	21300.0 1	20400.0 1	17200.0 1	14000.0 1	11000.0 1	7460.0 1	6280.0 1	5600.0 1	4180.0 2	2560.0 2
1948	14800.0 6	11900.0 8	11300.0 6	8080.0 10	6330.0 6	4070.0 12	3430.0 11	2820.0 15	2000.0 20	1190.0 24
1949	7610.0 23	7350.0 20	6840.0 18	5120.0 21	3860.0 22	3070.0 22	2410.0 24	2000.0 25	1660.0 26	1050.0 26
1950	9290.0 14	8890.0 14	7610.0 14	5750.0 16	4460.0 18	3340.0 19	2760.0 20	2750.0 17	2140.0 18	1280.0 21
1951	14700.0 7	13600.0 6	11000.0 7	10700.0 3	8160.0 4	6730.0 4	6160.0 2	5310.0 2	4500.0 1	2520.0 3
1952	7000.0 15	8330.0 15	7010.0 17	5870.0 15	5020.0 14	3800.0 13	3270.0 15	2940.0 11	2500.0 10	1750.0 10
1953	3650.0 17	8050.0 17	5620.0 22	3800.0 29	3080.0 26	2660.0 26	2400.0 25	2180.0 24	1830.0 23	1170.0 25
1954	3700.0 32	3470.0 32	3250.0 30	2490.0 32	1890.0 32	1760.0 30	1500.0 32	1250.0 32	998.0 32	612.0 32
1955	5440.0 30	4210.0 30	3030.0 32	2550.0 31	1980.0 31	1590.0 32	1640.0 30	1430.0 31	1100.0 31	829.0 31
1956	3590.0 33	2620.0 36	1860.0 36	1360.0 36	1310.0 34	1150.0 33	974.0 34	885.0 34	683.0 36	425.0 37
1957	2770.0 37	2730.0 34	2400.0 33	1730.0 33	1490.0 33	1110.0 35	880.0 35	773.0 36	693.0 35	459.0 36
1958	5100.0 31	3420.0 33	2160.0 35	1550.0 35	1120.0 37	917.0 37	742.0 37	787.0 35	664.0 37	475.0 34
1959	10600.0 12	10500.0 10	9910.0 10	8260.0 8	6320.0 7	4250.0 10	3340.0 13	3110.0 9	2520.0 9	1370.0 17
1960	18300.0 3	17200.0 3	15000.0 3	10500.0 4	8060.0 5	6950.0 3	5620.0 4	4550.0 5	3650.0 5	2310.0 5
1961	14200.0 8	12900.0 7	10200.0 9	6910.0 12	5530.0 11	4210.0 11	3300.0 14	2910.0 14	2310.0 13	1610.0 12
1962	16900.0 4	16500.0 4	15100.0 2	12500.0 2	10500.0 2	7330.0 2	5840.0 3	4760.0 3	3750.0 4	3000.0 1
1963	6180.0 29	6090.0 28	5510.0 23	4470.0 24	3410.0 25	2340.0 28	2140.0 27	1810.0 27	1480.0 27	1030.0 27
1964	2350.0 36	2610.0 37	2230.0 34	1590.0 34	1260.0 35	1140.0 34	1120.0 33	986.0 33	777.0 33	493.0 33
1965	10400.0 13	9830.0 12	9130.0 12	8150.0 9	5740.0 9	4350.0 8	3450.0 9	2920.0 13	2290.0 15	1540.0 13
1966	6600.0 27	5370.0 29	4710.0 29	3810.0 27	3070.0 27	2880.0 24	2730.0 21	2640.0 20	2450.0 11	1900.0 7
1967	3950.0 34	3510.0 31	3140.0 31	2950.0 30	2270.0 30	1600.0 31	1580.0 31	1570.0 30	1310.0 30	895.0 29
1968	13100.0 9	10500.0 11	7770.0 13	6270.0 13	5560.0 10	3700.0 14	2770.0 15	2370.0 22	1910.0 22	1400.0 16
1969	16000.0 5	14900.0 5	12400.0 4	10300.0 5	8710.0 3	5970.0 5	4700.0 5	4570.0 4	3870.0 3	2440.0 4
1970	7220.0 24	6140.0 27	5460.0 25	4350.0 22	4060.0 21	3130.0 21	2510.0 23	2540.0 21	1990.0 21	1310.0 20
1971	7300.0 22	7510.0 19	7040.0 16	6120.0 14	5460.0 12	4750.0 6	3630.0 7	3180.0 7	2610.0 7	1830.0 8



STATION NUMBER 05422000

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

WAPSIPINICON RIVER NEAR DEWITT, IOWA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34					
YEAR	NUMBER OF DAYS IN CLASS																																	CFS_DAYS						
1935							5	48	34	22	34	15	12	19	14	12	19	18	17	24	10	23	10	10	13	2	2	2								483484.0				
1936	16	17	22	15	21	33	22	22	10	17	26	25	28	12	9	6	7	11	8	7	4	5		11	9	3											325758.0			
1937		3	20	11	18	29	19	12	21	30	32	16	13	10	15	10	21	25	13	10	10	6	3	5	3	2	4	3	1								455820.0			
1938			31	39	6	24	16	3	1	4	10	10	8	9	21	48	31	31	23	12	5	11	12	7	1	1	1									443433.0				
1939				11	6	6	7	6	18	38	37	48	38	45	15	14	9	13	13	19	14	3		1	1	2	1										358480.0			
1940	19	21	30	11	64	17	13	12	9	16	22	18	11	16	20	33	15	7	4	5	1	1	1														172227.0			
1941		2	6	12	9	3	14	17	15	12	43	39	24	29	18	12	14	11	14	11	15	9	23	9	2	1	1										464506.0			
1942											1	16	28	25	35	38	20	38	48	40	21	11	14	7	13	7	3										738138.0			
1943										6	16	19	42	28	19	29	19	47	30	35	22	15	22	10	4	2												653485.0		
1944					4	11	8	14	31	22	35	40	32	15	9	8	5	22	30	21	14	3	9	8	5	10	4	3									605328.0			
1945						24	31	15	15	37	37	24	11	7	7	8	13	25	29	16	17	12	15	12	4	3	2	1				1	1	1			526933.0			
1946							1	16	38	31	24	37	37	19	20	26	16	27	11	7	16	6	9	6	2	5	7	2										535103.0		
1947							2	19	21	11	20	22	42	17	22	15	29	38	14	15	10	11	6	11	11	5	5	3	3	5	2	2						933022.0		
1948			24	13	17	22	30	30	29	36	20	16	15	11	6	16	12	15	6	5	6	5	6	3	2	4												436732.0		
1949				4	11	53	23	31	21	34	21	33	13	16	15	10	17	21	12	7	6	7	2	3	3	2												382383.0		
1950						51	35	21	21	16	15	10	19	19	24	24	8	17	22	12	16	7	12	5	3	5	2	2										468673.0		
1951			21	31	7	26	30	12	6	4	4	3	5	12	19	15	22	18	13	13	17	13	16	11	6	15	11	8	5	2							920961.0			
1952						8	6	11	11	13	33	25	25	10	29	31	41	28	17	27	7	20	10	8	2	3	1											640880.0		
1953				2	45	20	5	16	30	19	20	15	22	21	25	16	22	30	26	19	4	3	2															427102.0		
1954		18	5	3	28	43	60	40	30	19	12	11	14	16	11	12	7	12	3	4	5	10	2															223527.0		
1955		18	5	10	5	7	23	9	21	36	37	33	27	17	32	15	20	22	10	7	4	1	2	3	1													302665.0		
1956	25	35	19	22	54	28	23	20	19	19	15	15	13	11	13	10	9	12	2	1																			155394.0	
1957			18	48	40	17	26	21	28	47	41	10	17	14	15	9	4	1	5																			167517.0		
1958				18	28	30	60	34	39	41	34	21	12	9	18	7	4	3	2	2	1	1																173249.0		
1959		18	26	61	15	7	7	18	11	10	16	13	13	15	13	15	16	17	10	9	11	2	5	8	8	9	5	3	4									500887.0		
1960									10	12	11	17	45	39	34	22	22	31	22	12	14	12	16	4	9	8	8	5	5	3	4							844279.0		
1961								20	5	30	38	23	29	27	27	26	18	19	22	17	23	9	8	4	8	6	2												587426.0	
1962													20	56	28	27	21	22	43	30	24	11	12	8	13	11	7	12	11	4	5							1093743.0		
1963					3	6	29	69	40	15	22	25	17	31	17	17	20	11	12	15	5	5	1	3	2														375730.0	
1964			10	22	32	80	54	18	3	26	18	11	19	12	20	19	9	5	3	2	3																		160314.0	
1965		11	18	29	35		7	12	14	15	14	14	17	14	16	19	20	25	13	13	8	10	3	9	8	5	4	11	1									561820.0		
1966								5	11	10	7	10	13	21	29	26	29	52	41	33	19	15	23	12	7	2													652440.0	
1967						1	5	35	50	34	14	17	33	19	25	30	25	16	17	16	10	11	7																326611.0	
1968											17	27	49	30	58	60	30	17	17	11	11	8	3	3	5	13	5												512016.0	
1969										1	6	12	29	29	40	31	18	8	15	25	34	28	12	24	17	13	2	7	5	5	1	1							890934.0	
1970											25	30	44	29	48	16	19	15	24	24	19	13	10	9	9	8	8	10	4	1									477950.0	
1971																																								668783.0



## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

WAPSIPINICON RIVER NEAR DEWITT, IOWA

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	13514	100.0	9	280.00	590	11177	82.7	18	1300.0	563	4444	32.9	27	6100	134	395	2.9
1	70.00	19	13514	100.0	10	330.00	656	10587	78.3	19	1500.0	773	3881	28.7	28	7200	96	261	1.9
2	83.00	62	13455	99.9	11	390.00	785	9931	73.5	20	1800.0	726	3108	23.0	29	8600	66	165	1.2
3	99.00	149	13433	99.4	12	460.00	794	9146	67.7	21	2200.0	521	2382	17.6	30	10000	50	99	.7
4	120.00	174	13284	98.3	13	550.00	825	8352	61.8	22	2600.0	467	1861	13.8	31	12000	20	49	.3
5	140.00	419	13110	97.0	14	650.00	800	7527	55.7	23	3100.0	270	1394	10.3	32	14000	22	29	.2
6	170.00	362	12691	93.9	15	790.00	797	6727	49.8	24	3600.0	305	1124	8.3	33	17000	4	7	.0
7	200.00	468	12329	91.2	16	920.00	754	5930	43.9	25	4300.0	228	819	6.1	34	20000	3	3	.0
8	230.00	664	11641	87.6	17	1100.00	732	5176	38.3	26	5100.0	156	591	4.4					



STATION\_NUMBER 5-4485.00

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

WEST BRANCH IOWA RIVER NEAR KLEMME, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1950	0.6 3	0.7 3	0.7 3	0.7 3	0.8 3	0.8 3	1.2 3	1.5 3	1.7 1	15.3 3
1951	1.3 6	1.4 5	1.4 5	1.4 5	1.6 5	2.0 4	2.4 5	3.4 6	5.4 7	28.2 6
1952	11.0 9	11.0 9	11.0 9	11.0 9	11.1 9	12.0 9	15.6 9	18.8 9	25.2 8	119.0 9
1953	1.2 5	1.4 6	1.8 7	1.8 7	1.9 6	2.0 5	2.1 4	2.6 4	4.0 5	38.8 7
1954	0.7 4	0.7 4	0.8 4	0.9 4	1.1 4	2.3 7	3.8 7	3.9 7	4.3 6	26.6 5
1955	6.1 8	6.1 8	6.3 8	6.6 8	7.6 8	10.0 8	13.1 8	17.3 8	31.4 9	90.2 8
1956	0.3 1	0.3 1	0.3 1	0.3 1	0.4 1	0.4 1	0.5 1	1.1 1	2.0 3	15.4 4
1957	0.3 2	0.3 2	0.3 2	0.3 2	0.4 2	0.8 2	1.1 2	1.3 2	1.8 2	8.5 1
1958	1.5 7	1.5 7	1.5 6	1.7 6	2.1 7	2.2 6	2.6 6	2.8 5	3.1 4	12.5 2



STATION\_NUMBER 5-4485.00

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

WEST BRANCH IOWA RIVER NEAR KLEMME, IOWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1949	442.0 5	366.0 4	341.0 4	272.0 4	189.0 4	120.0 4	84.0 4	64.6 4	44.4 5	23.4 6
1950	474.0 4	332.0 6	215.0 5	133.0 5	96.0 5	77.9 6	66.5 6	57.8 6	42.0 6	22.7 7
1951	1390.0 2	1230.0 2	1030.0 2	783.0 2	544.0 2	344.0 2	275.0 1	274.0 1	198.0 1	105.0 1
1952	847.0 3	682.0 3	478.0 3	340.0 3	250.0 3	160.0 3	133.0 3	126.0 3	103.0 3	60.3 3
1953	378.0 6	341.0 5	207.0 6	124.0 6	86.8 6	75.5 5	72.4 5	63.8 5	55.2 4	29.4 5
1954	1839.0 1	1730.0 1	1630.0 1	1160.0 1	656.0 1	349.0 1	269.0 2	211.0 2	146.0 2	76.7 2
1955	305.0 7	233.0 7	177.0 7	111.0 8	83.4 7	57.3 7	52.1 7	46.7 7	30.9 7	32.3 4
1956	130.0 10	116.0 10	91.0 10	65.0 10	40.8 10	30.6 10	26.1 9	21.3 9	16.7 9	10.3 9
1957	240.0 8	191.0 8	142.0 8	115.0 7	72.0 8	48.8 8	34.8 8	31.5 8	22.4 8	12.1 8
1958	211.0 9	175.0 9	109.0 9	84.5 9	52.1 9	33.1 9	24.1 10	20.6 10	16.5 10	5.5 10



STATION\_NUMBER 5-4485.00

DURATION TABLE OF DAILY DISCHARGE

WEST BRANCH IOWA RIVER NEAR KLEMME, IOWA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34			
YEAR	NUMBER OF DAYS IN CLASS																																	CFS_DAYS				
1949				4	6	59	43	52	19	17	28	16	30	13	3	8	9	10	11	11	5	1	3	1	4	8	4											8545.6
1950				14	35	28	18	17	42	2	5	21	25	22	16	28	22	13	16	8	11	7	5	4	4	1			1								8275.2	
1951						1	23	18	33	9	14	15	15	5	17	21	27	29	23	26	11	7	5	12	11	8	6	12	6	3	8						38306.9	
1952												12	15	55	29	44	23	44	31	39	13	15	17	6	5	6	4	6	1	1							22053.2	
1953					1	2	71	35	13	35	25	18	10	10	13	16	19	31	20	17	10	9	2	3	3	2											10741.6	
1954				3	9	11	5	7	5	30	53	14	29	32	9	26	31	22	13	15	11	5	5	5	3	6	4		1	1	3	6	1			27975.7		
1955									12	18	17	28	18	27	31	39	62	34	17	16	14	8	15	6	1	2											11785.5	
1956		50	25	7	7	2	2	1	32	62	33	25	18	29	13	15	12	8	11	4	5	3	2														3777.7	
1957		16	7	8	12	12	32	50	23	39	37	26	23	10	4	24	6	6	6	6	6	5	4	2	1											4416.2		
1958		2	12	9	5	10	6	20	24	64	50	18	29	44	20	11	11	5	5	8	6	2															3453.0	

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	3652	100.0	9	2.40	265	2906	79.6	18	29.0	190	907	24.8	27	340	20	70	1.9
1	0.20	2	3652	100.0	10	3.20	240	2641	72.3	19	38.0	167	717	19.6	28	450	19	50	1.3
2	0.30	78	3650	99.9	11	4.20	240	2401	65.7	20	50.0	151	550	15.1	29	590	8	31	.8
3	0.50	41	3572	97.8	12	5.50	211	2161	59.2	21	65.0	95	399	10.9	30	780	5	23	.6
4	0.60	41	3531	95.7	13	7.20	235	1950	53.4	22	86.0	61	304	8.3	31	1000	11	18	.4
5	0.80	77	3490	95.6	14	9.50	223	1715	47.0	23	110.0	67	243	6.7	32	1400	6	7	.1
6	1.00	127	3411	93.4	15	13.00	143	1492	40.9	24	150.0	38	176	4.8	33	1800	1	1	.0
7	1.40	145	3271	90.1	16	16.00	229	1349	36.9	25	200.0	34	138	3.8	34				
8	1.80	240	3146	86.1	17	22.00	213	1120	30.7	26	260.0	34	104	2.8					



STATION NUMBER 05449000

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

EAST BRANCH IOWA RIVER NEAR KLEMME, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1950	1.00 4	1.00 4	1.01 4	1.06 4	1.17 4	1.29 2	1.90 4	2.74 4	3.22 3	20.80 5
1951	2.00 9	2.00 9	2.00 8	2.06 8	2.53 8	3.38 9	3.60 8	4.72 9	6.51 10	31.80 8
1952	14.00 22	14.00 22	14.00 22	14.30 22	15.00 22	17.50 21	24.80 21	32.60 21	41.00 21	138.00 21
1953	1.20 5	1.53 7	2.11 9	2.59 9	2.69 9	3.05 8	3.51 7	4.41 7	6.16 9	43.50 13
1954	2.80 13	2.90 12	2.80 11	2.85 10	3.20 10	4.86 12	6.33 12	6.30 11	7.27 11	30.40 7
1955	7.00 20	7.10 20	7.36 20	7.73 20	8.60 20	11.80 20	14.10 20	18.10 20	29.00 19	53.50 19
1956	1.20 6	1.23 5	1.27 5	1.31 5	1.38 5	1.62 5	1.71 2	2.48 3	3.42 4	16.50 4
1957	1.50 8	1.60 8	1.60 7	1.61 6	1.65 6	2.45 6	3.08 6	3.56 6	4.26 6	5.82 1
1958	1.50 7	1.50 6	1.56 6	1.74 7	2.31 7	2.83 7	4.03 9	4.59 8	5.04 7	12.80 3
1959	0.20 1	0.20 1	0.23 1	0.26 1	0.28 1	0.32 1	0.46 1	0.68 1	1.58 1	10.90 2
1960	3.70 16	3.70 15	3.91 15	4.31 15	4.75 14	6.04 13	6.81 13	7.10 12	9.37 12	35.20 9
1961	0.50 3	0.60 3	0.60 3	0.63 3	0.94 3	1.48 3	1.88 3	2.24 2	3.06 2	39.80 12
1962	4.30 18	4.63 17	5.14 18	5.18 18	5.65 16	6.51 14	9.50 18	12.90 18	20.20 17	38.50 11
1963	4.10 17	4.10 16	4.20 16	4.48 16	5.58 15	7.24 18	8.61 17	12.40 17	33.80 20	126.00 20
1964	4.90 19	4.90 18	4.93 17	5.10 17	5.69 17	6.86 17	7.87 15	9.14 14	10.20 13	56.40 16
1965	3.50 15	3.50 14	3.57 14	4.19 14	7.05 19	9.09 19	12.20 19	14.20 19	21.50 18	48.40 15
1966	12.00 21	12.00 21	12.30 21	13.40 21	14.30 21	30.00 22	58.50 22	68.80 22	109.00 22	185.00 22
1967	2.60 12	2.77 11	2.91 12	3.22 12	3.31 11	4.03 11	4.44 11	4.55 10	6.03 8	46.20 14
1968	0.38 2	0.38 2	0.40 2	0.48 2	0.91 2	1.49 4	2.00 5	2.79 5	3.96 5	21.00 6
1969	2.30 10	2.37 10	2.53 10	2.86 11	3.31 12	3.52 10	4.30 10	7.93 13	18.60 16	36.10 10
1970	2.60 11	5.57 19	5.69 19	5.99 19	6.29 18	6.79 16	7.77 14	9.28 15	10.80 14	91.60 18
1971	2.90 14	3.00 13	3.07 13	3.24 13	3.50 13	6.59 15	8.52 16	9.72 16	12.90 15	57.30 17



STATION NUMBER C5449000

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

EAST BRANCH IOWA RIVER NEAR KLEMME, IOWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1949	563.0 15	469.0 16	409.0 14	322.0 12	250.0 10	160.0 10	111.0 11	87.4 11	60.6 13	32.6 14
1950	450.0 17	390.0 17	280.0 17	172.0 17	124.0 17	79.3 18	66.7 17	63.4 16	47.0 16	25.5 17
1951	2090.0 4	1790.0 4	1140.0 4	865.0 3	559.0 3	361.0 3	308.0 2	300.0 1	219.0 3	118.0 3
1952	630.0 14	603.0 14	428.0 12	359.0 9	278.0 8	189.0 9	160.0 8	140.0 8	118.0 7	72.2 8
1953	340.0 18	312.0 18	217.0 18	127.0 18	101.0 18	91.7 15	83.6 14	76.9 13	62.0 12	34.0 13
1954	3880.0 1	3210.0 1	2250.0 1	1270.0 1	717.0 2	376.0 2	296.0 3	229.0 5	157.0 5	82.6 6
1955	295.0 21	254.0 20	156.0 20	89.9 21	65.0 20	47.8 19	38.1 20	36.5 19	31.2 19	27.0 15
1956	130.0 23	113.0 22	94.1 23	65.3 23	41.2 23	29.0 23	24.5 23	20.5 23	19.3 22	11.4 23
1957	143.0 22	108.0 23	95.9 22	66.1 22	46.5 22	40.3 21	30.6 21	26.1 21	20.1 21	12.2 21
1958	298.0 20	211.0 21	124.0 21	51.1 20	55.8 21	33.5 22	26.7 22	24.1 22	18.9 23	11.8 22
1959	802.0 11	671.0 11	402.0 15	378.0 8	209.0 12	114.0 13	91.0 13	72.7 14	49.9 15	25.9 16
1960	920.0 8	771.0 8	432.0 11	229.0 16	130.0 16	91.3 16	69.7 16	54.7 18	39.9 18	23.7 15
1961	2530.0 3	2130.0 3	1320.0 3	738.0 5	411.0 6	223.0 7	158.0 5	123.0 10	85.6 10	44.5 10
1962	1480.0 6	1300.0 6	1000.0 5	749.0 4	475.0 5	280.0 5	252.0 4	249.0 4	228.0 2	126.0 2
1963	870.0 10	672.0 10	434.0 10	355.0 10	271.0 9	190.0 8	173.0 7	142.0 7	120.0 6	73.4 7
1964	900.0 9	678.0 9	472.0 9	273.0 13	158.0 14	97.7 14	79.1 15	71.0 15	75.0 11	42.7 11
1965	3170.0 2	2690.0 2	1970.0 2	1250.0 2	728.0 1	442.0 1	348.0 1	284.0 2	264.0 1	143.0 1
1966	740.0 12	621.0 12	475.0 8	322.0 11	214.0 11	145.0 11	147.0 10	139.0 9	113.0 9	52.9 5
1967	545.0 16	481.0 15	370.0 16	235.0 15	142.0 15	88.8 17	65.2 18	58.9 17	43.7 17	24.6 18
1968	339.0 19	306.0 19	201.0 19	115.0 19	70.2 19	47.5 20	38.3 19	35.4 20	26.7 20	15.5 20
1969	1850.0 5	1400.0 5	976.0 6	729.0 6	477.0 4	283.0 4	224.0 5	264.0 3	190.0 4	104.0 4
1970	732.0 13	603.0 13	424.0 13	254.0 14	180.0 13	115.0 12	98.7 12	85.3 12	59.9 14	36.6 12
1971	930.0 7	851.0 7	620.0 7	411.0 7	357.0 7	241.0 6	175.0 6	162.0 6	114.0 8	63.5 9



STATION NUMBER 05449000

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

EAST BRANCH IOWA RIVER NEAR KLEMME, IOWA

YEAR	CLASS																																		CFS_DAYS							
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33		34						
	NUMBER OF DAYS IN CLASS																																									
1949								1	2	43	34	51	27	28	27	28	13	4	3	13	6	6	6	6	4	5	7	2											11906.5			
1950								13	43	12	9	19	39	15	48	16	26	27	26	27	14	6	4	5	7	3	3	2	1											9325.3		
1951										11	11	29	34	12	23	15	17	7	24	21	34	24	16	13	10	19	12	8	9	7	3	2	3	1					43187.4			
1952															10	15	72	18	43	52	50	24	16	11	20	11	8	7	7	2									26439.8			
1953									1	2	21	28	47	6	77	16	10	15	24	11	36	22	20	11	11	4	2	1											12406.4			
1954											8	18	7	71	49	34	26	36	23	25	17	7	7	5	5	6	3	8	1	2	1	1	1	2					30155.5			
1955												18	38	33	34	43	52	46	41	28	11	10	8			1	2													9861.0		
1956										30	54	8	2	46	73	43	32	14	23	10	13	8	3	4	3															4186.6		
1957											30	7	35	73	88	31	27	20	15	9	8	7	5	4	5	1														4453.2		
1958											4	10	20	44	47	75	56	44	22	13	9	9	4	2	2	1		2	1											4302.8		
1959										5	41	18	10	13	14	13	2	17	40	23	31	28	20	18	18	11	7	4	8	4	7	2	3	2		2	4			5469.0		
1960												10	7	58	54	76	41	25	12	35	12	11	11	4	4	2		1		1	1	1									8684.0	
1961										12	7	6	11	17	37	18	62	27	17	30	16	26	19	12	7	11	12	4	3	1	2	1	1	2	1	1					16259.1	
1962																	16	47	25	13	25	24	25	34	32	18	20	18	10	12	10	10	7	5	6						45841.5	
1963																	15	10	47	13	32	17	40	36	35	27	20	22	17	7	15	5	4	1	2						26775.5	
1964																	12	25	44	99	40	23	22	12	18	11	18	24	2	7	3	3	1	1	1					15633.0		
1965																	8	4	11	18	15	52	63	30	17	17	18	21	19	14	15	5	6	12	4	7	4	1	3	1		52147.4
1966																		5	18	25	18	18	27	21	29	57	45	39	22	13	12	7	7	2							33906.9	
1967																																										8981.5
1968																																										5663.3
1969																																										38113.1
1970																																										12643.8
1971																																										23164.0

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	8400	100.0	9	2.20	208	7917	94.3	18	31.0	473	2502	29.8	27	450	79	180	2.1
1	0.20	5	8400	100.0	10	2.90	406	7709	91.8	19	42.0	448	2029	24.2	28	610	44	101	1.2
2	0.30	44	8195	99.9	11	3.90	668	7303	86.9	20	57.0	358	1581	18.8	29	820	25	57	.6
3	0.40	23	8351	99.4	12	5.30	832	6635	79.0	21	76.0	291	1223	14.6	30	1100	15	32	.3
4	0.50	27	8328	99.1	13	7.10	859	5903	69.1	22	100.0	245	932	11.1	31	1500	6	17	.2
5	0.70	23	8301	98.8	14	9.50	665	4944	58.9	23	140.0	175	687	8.2	32	2000	7	11	.1
6	0.90	38	8278	98.5	15	13.00	641	4279	50.9	24	190.0	136	512	6.1	33	2700	2	4	.0
7	1.20	126	8240	98.1	16	17.00	590	2638	43.3	25	250.0	112	376	4.5	34	3600	2	2	.0
8	1.60	197	8114	96.6	17	23.00	546	3048	36.3	26	340.0	84	264	3.1					



STATION NUMBER 05449500

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

IOWA RIVER NEAR ROWAN, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1942	23.00 26	23.70 26	24.60 26	24.90 26	27.10 26	49.10 28	101.00 29	161.00 29	223.00 29	272.00 22
1943	11.00 14	11.30 14	11.60 12	12.20 12	12.90 12	17.10 12	19.40 12	22.50 12	28.10 13	147.00 16
1944	19.00 22	19.00 22	19.30 22	20.10 22	22.50 20	33.70 24	39.60 24	46.90 25	53.60 20	92.00 7
1945	13.00 13	13.00 15	13.30 15	14.00 15	15.70 14	17.70 13	22.70 14	24.50 14	32.50 16	274.00 23
1946	12.00 15	15.70 21	16.90 20	18.40 20	23.30 21	33.10 23	37.90 23	46.20 24	78.80 23	315.00 27
1947	25.00 27	25.30 28	27.40 28	29.30 28	34.00 28	47.70 27	61.80 27	78.60 27	99.90 26	170.00 20
1948	8.00 11	8.67 11	9.57 11	10.30 11	12.10 10	19.60 14	27.10 16	29.80 16	28.30 14	292.00 24
1949	4.20 2	4.47 3	5.46 4	6.55 7	8.49 7	11.20 6	12.70 6	14.30 6	16.70 6	107.00 9
1950	4.20 3	4.23 2	4.39 2	4.57 2	5.05 2	6.13 2	9.34 3	11.00 3	11.90 2	77.10 5
1951	6.70 9	6.70 9	6.70 9	7.01 9	9.49 9	12.40 7	13.90 7	18.00 8	25.70 11	126.00 12
1952	50.00 29	50.70 29	51.40 29	51.70 29	52.70 29	59.40 29	80.40 28	103.00 28	145.00 28	485.00 29
1953	10.00 12	11.30 12	14.40 16	18.50 21	19.50 17	20.20 15	21.50 13	23.30 13	27.50 12	157.00 17
1954	5.90 6	5.90 6	6.00 6	6.34 6	9.19 8	14.50 10	18.80 10	19.70 10	21.60 9	92.10 8
1955	25.00 23	25.00 27	26.00 27	29.10 27	30.90 27	39.50 26	48.30 26	62.60 26	105.00 27	292.00 25
1956	6.40 8	6.40 8	6.54 8	6.79 8	6.94 4	7.17 3	7.67 2	9.91 2	12.20 3	48.00 4
1957	6.00 7	6.00 7	6.00 7	6.12 5	6.47 3	9.75 4	11.50 4	12.70 4	13.40 4	28.00 1
1958	7.30 10	7.87 10	8.03 10	9.13 10	12.70 11	14.30 9	17.70 9	18.40 9	18.10 8	46.00 3
1959	2.90 1	2.90 1	3.00 1	3.05 1	3.11 1	3.61 1	4.36 1	6.00 1	7.20 1	39.50 2
1960	15.00 21	15.00 19	15.30 19	17.30 18	20.50 18	29.30 22	34.70 22	36.40 17	48.30 18	113.00 10
1961	5.20 4	5.20 4	5.23 3	5.63 3	6.46 6	13.40 8	14.80 8	14.80 7	15.60 5	127.00 13
1962	13.00 16	13.00 16	13.00 14	13.60 14	15.90 15	20.60 17	28.90 17	39.70 19	59.60 21	115.00 11
1963	20.00 23	20.00 23	20.10 23	21.10 23	24.30 23	28.20 21	32.50 20	42.00 22	99.00 25	345.00 28
1964	14.00 19	14.30 18	14.70 18	14.90 16	16.70 16	20.50 16	24.30 15	27.10 15	30.10 15	163.00 19
1965	14.00 20	14.00 17	14.60 17	16.10 17	23.60 22	34.00 25	40.90 25	45.70 23	74.80 22	137.00 15
1966	55.00 30	55.30 30	56.30 30	60.70 30	73.50 30	136.00 30	170.00 30	217.00 30	328.00 30	549.00 30
1967	10.00 13	11.30 13	12.10 13	12.80 13	13.40 13	16.50 11	19.20 11	20.70 11	23.70 10	134.00 14
1968	5.40 5	5.47 5	5.56 5	5.89 4	7.52 5	10.50 5	11.70 5	13.90 5	16.80 7	79.70 6
1969	21.00 24	21.70 24	22.40 24	23.60 24	26.10 25	27.30 20	30.10 18	40.90 21	84.50 24	157.00 18
1970	22.00 25	23.00 25	23.10 25	24.30 25	25.20 24	27.20 18	30.20 19	36.60 18	43.20 17	304.00 26
1971	13.00 17	15.70 20	17.10 21	18.10 19	21.70 19	27.30 19	34.30 21	40.80 20	50.70 19	184.00 21



STATION NUMBER 05449500

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

IOWA RIVER NEAR RCWAN, IOWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1941	1440.0 24	1310.0 23	1280.0 17	1070.0 13	737.0 13	477.0 14	390.0 15	381.0 13	293.0 15	197.0 14
1942	1250.0 25	1190.0 25	1050.0 24	778.0 20	582.0 20	446.0 16	355.0 17	326.0 16	303.0 14	247.0 9
1943	1230.0 26	1170.0 26	853.0 25	611.0 25	416.0 25	287.0 26	224.0 25	190.0 25	164.0 23	104.0 22
1944	3520.0 6	3040.0 7	2440.0 7	1750.0 8	1200.0 7	925.0 5	721.0 6	593.0 8	420.0 8	234.0 11
1945	2990.0 8	2610.0 8	2040.0 8	1240.0 10	883.0 11	842.0 8	772.0 4	672.0 4	565.0 5	303.0 5
1946	1620.0 18	1530.0 18	1130.0 20	794.0 19	649.0 17	438.0 18	357.0 14	390.0 12	307.0 13	180.0 15
1947	2140.0 13	2040.0 12	1990.0 9	1800.0 7	1470.0 6	882.0 6	706.0 7	669.0 6	493.0 6	293.0 6
1948	2110.0 15	1890.0 15	1290.0 16	728.0 22	709.0 15	446.0 17	342.0 18	272.0 19	190.0 21	107.0 21
1949	1530.0 21	1460.0 20	1240.0 18	925.0 17	765.0 12	505.0 12	356.0 16	284.0 17	206.0 17	112.0 19
1950	1700.0 17	1500.0 19	1110.0 21	672.0 23	491.0 22	310.0 22	263.0 21	243.0 20	179.0 22	97.0 24
1951	5250.0 4	4550.0 4	3340.0 3	2690.0 3	1890.0 3	1270.0 2	1010.0 2	1080.0 1	817.0 1	440.0 1
1952	2120.0 14	1940.0 13	1510.0 13	1150.0 11	887.0 10	617.0 11	530.0 10	451.0 10	395.0 9	243.0 10
1953	625.0 27	598.0 27	505.0 27	421.0 27	334.0 27	310.0 23	272.0 20	242.0 21	192.0 20	109.0 20
1954	7640.0 1	7220.0 1	5690.0 1	3570.0 2	2030.0 2	1120.0 3	846.0 3	672.0 5	470.0 7	248.0 8
1955	529.0 28	430.0 28	371.0 28	335.0 28	270.0 28	189.0 28	148.0 28	121.0 28	113.0 28	92.0 25
1956	260.0 31	237.0 31	190.0 31	143.0 31	100.0 31	75.6 31	63.8 31	53.6 31	48.3 31	30.4 31
1957	430.0 30	391.0 30	267.0 30	235.0 30	208.0 29	153.0 29	112.0 29	97.5 29	72.0 29	42.9 29
1958	513.0 29	425.0 29	302.0 29	268.0 29	169.0 30	112.0 30	84.2 30	75.4 30	62.5 30	39.4 30
1959	1430.0 23	1380.0 21	1060.0 22	937.0 15	534.0 21	306.0 24	253.0 22	209.0 22	147.0 26	78.6 27
1960	2300.0 12	1910.0 14	1300.0 15	743.0 21	453.0 24	324.0 21	251.0 23	197.0 24	159.0 24	97.7 23
1961	5260.0 3	4590.0 3	3300.0 4	1960.0 6	1120.0 8	625.0 10	449.0 12	353.0 15	248.0 16	132.0 16
1962	3490.0 7	3140.0 6	2720.0 6	2230.0 5	1490.0 5	851.0 7	659.0 8	656.0 7	616.0 4	341.0 4
1963	1740.0 16	1630.0 16	1240.0 19	866.0 18	683.0 16	501.0 13	499.0 11	420.0 11	352.0 11	216.0 12
1964	1500.0 22	1380.0 22	1050.0 23	646.0 24	398.0 26	270.0 27	203.0 27	189.0 26	199.0 18	115.0 18
1965	6000.0 2	5860.0 2	5250.0 2	3980.0 1	2440.0 1	1420.0 1	1080.0 1	867.0 3	781.0 2	429.0 2
1966	2640.0 9	2270.0 9	1680.0 11	1100.0 12	712.0 14	452.0 15	408.0 13	377.0 14	321.0 12	273.0 7
1967	1610.0 19	1560.0 17	1410.0 14	957.0 14	589.0 19	343.0 20	249.0 24	209.0 23	157.0 25	89.5 26
1968	1560.0 20	1300.0 24	847.0 26	564.0 26	466.0 23	305.0 25	221.0 26	184.0 27	136.0 27	77.1 28
1969	4050.0 5	3600.0 5	2910.0 5	2310.0 4	1590.0 4	952.0 4	737.0 5	873.0 2	640.0 3	363.0 3
1970	2450.0 10	2130.0 11	1550.0 12	931.0 16	631.0 18	385.0 19	311.0 19	273.0 18	155.0 19	116.0 17
1971	2320.0 11	2220.0 10	1890.0 10	1320.0 9	1100.0 9	736.0 9	545.0 9	496.0 9	363.0 10	208.0 13



STATION NUMBER 05449500

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

IOWA RIVER NEAR ROWAN, IOWA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34					
YEAR	NUMBER OF DAYS IN CLASS																																	CFS_DAYS						
1941										4	38	11	30	52	24	23	30	18	23	24	27	18	11	13	7	2	9	1										71973.0		
1942											6	19	12	6	25	18	35	30	61	39	21	27	21	13	14	7	3											89983.0		
1943																																						37959.0		
1944																																							85613.0	
1945																																							110433.0	
1946																																							65580.0	
1947																																							107023.0	
1948																																							39164.6	
1949																																							40956.9	
1950																																							35402.4	
1951																																							160755.8	
1952																																							89049.0	
1953																																							35647.0	
1954																																								90653.8
1955																																								33580.0
1956																																								11128.9
1957																																								15666.8
1958																																								14392.2
1959																																								28690.3
1960																																								35769.0
1961																																								48333.8
1962																																								124447.0
1963																																								78809.0
1964																																								41942.0
1965																																								156642.0
1966																																								59759.0
1967																																								32679.0
1968																																								28235.4
1969																																								132408.0
1970																																								42443.0
1971																																								75846.0



STATION NUMBER 05449500

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

IOWA RIVER NEAR ROWAN, IOWA

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	11322	100.0	9	19.00	921	5568	84.5	18	160.0	673	2939	26.0	27	1400	96	243	2.1
1	2.90	36	11322	100.0	10	25.00	910	8647	76.4	19	210.0	446	2266	20.0	28	1800	64	147	1.2
2	3.70	37	11286	99.7	11	31.00	934	7737	68.3	20	260.0	404	1820	16.1	29	2200	37	83	.7
3	4.70	62	11247	99.4	12	40.00	716	6803	60.1	21	330.0	320	1416	12.5	30	2800	21	46	.4
4	5.90	169	11187	98.8	13	50.00	786	6087	53.8	22	420.0	260	1056	9.7	31	3600	12	25	.2
5	7.50	152	11018	97.3	14	64.00	702	5301	46.8	23	540.0	182	836	7.4	32	4600	8	13	.1
6	9.50	155	10866	96.0	15	81.00	514	4599	40.6	24	680.0	166	654	5.8	33	5800	3	5	.0
7	12.00	400	10711	94.6	16	100.00	676	4085	36.1	25	870.0	122	488	4.3	34	7300	2	2	.0
8	15.00	693	10251	90.5	17	130.00	470	3409	30.1	26	1100.0	123	366	3.2					



STATION NUMBER 05451500

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

ICWA RIVER AT MARSHALLTOWN, ICWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1916	240.00 50	240.00 50	251.00 50	266.00 50	321.00 50	492.00 50	655.00 50	775.00 50	1070.00 49	1410.00 47
1917	25.00 10	25.00 10	25.00 9	25.00 6	33.00 6	35.70 6	43.00 3	68.20 10	86.00 11	686.00 28
1918	20.00 3	20.00 3	20.00 3	22.90 4	26.70 3	29.90 3	47.80 7	60.40 7	84.10 10	578.00 22
1919	107.00 43	129.00 44	130.00 44	137.00 44	140.00 40	207.00 41	270.00 41	343.00 42	395.00 36	1250.00 44
1920	80.00 31	82.00 33	86.90 33	87.30 30	93.60 29	123.00 30	154.00 31	294.00 38	398.00 37	919.00 39
1921	165.00 48	175.00 48	198.00 48	217.00 48	291.00 49	421.00 49	543.00 48	621.00 48	636.00 47	805.00 34
1922	80.00 32	60.00 31	85.70 31	93.90 33	115.00 33	141.00 33	212.00 36	228.00 33	415.00 39	593.00 23
1923	20.00 4	20.00 4	22.00 5	24.50 5	26.70 4	34.20 5	51.50 8	62.60 15	80.70 9	320.00 4
1924	48.00 24	49.00 24	51.00 23	52.50 22	58.00 20	81.50 19	95.40 20	129.00 22	146.00 18	403.00 11
1925	130.00 45	160.00 47	160.00 47	160.00 46	160.00 43	177.00 38	159.00 32	213.00 29	288.00 29	726.00 30
1926	35.00 17	40.00 16	44.30 17	50.40 20	66.40 23	104.00 25	134.00 26	304.00 39	311.00 34	456.00 13
1927	31.00 13	32.00 13	34.30 13	42.60 14	51.10 17	112.00 27	215.00 37	282.00 36	493.00 42	540.00 18
1934	32.00 14	42.00 17	42.30 16	43.30 15	45.50 13	50.60 11	54.60 10	61.40 9	70.20 5	546.00 20
1935	12.00 2	12.30 2	12.60 2	12.60 2	15.60 2	28.60 2	43.30 4	60.20 6	72.90 6	370.00 8
1936	43.00 24	94.00 35	101.00 35	112.00 35	119.00 34	166.00 36	206.00 35	287.00 37	289.00 30	743.00 31
1937	26.00 11	26.00 11	26.70 11	29.50 10	39.70 11	59.30 15	90.20 19	110.00 19	231.00 25	518.00 14
1938	21.00 5	21.30 6	23.90 6	28.10 9	35.70 7	40.80 7	52.60 9	59.20 5	86.90 12	564.00 21
1939	67.00 29	70.70 29	75.40 29	84.10 29	115.00 35	213.00 42	233.00 40	265.00 35	373.00 35	784.00 33
1940	9.00 1	9.33 1	10.40 1	11.20 1	13.00 1	17.20 1	24.60 1	30.10 1	31.50 1	170.00 2
1941	22.00 8	23.70 7	24.60 7	32.00 11	60.10 21	116.00 28	129.00 24	164.00 25	231.00 26	351.00 6
1942	44.00 19	45.70 21	48.40 21	52.90 23	62.30 22	119.00 29	279.00 43	469.00 46	538.00 45	822.00 36
1943	140.00 47	143.00 46	145.00 46	160.00 47	189.00 47	241.00 45	309.00 45	396.00 44	630.00 46	1160.00 42
1944	95.00 39	95.00 36	95.00 34	97.50 34	104.00 32	170.00 37	215.00 38	216.00 31	296.00 32	671.00 27
1945	50.00 33	82.70 34	86.00 32	90.10 32	95.50 30	102.00 24	124.00 23	142.00 23	205.00 22	1250.00 45
1946	85.00 35	105.00 41	109.00 40	117.00 39	143.00 39	156.00 35	164.00 29	188.00 28	404.00 38	1200.00 43
1947	90.00 37	102.00 38	112.00 42	125.00 42	186.00 46	236.00 44	308.00 44	387.00 43	419.00 40	601.00 24
1948	54.00 25	54.00 25	54.60 25	56.30 24	67.30 24	105.00 26	150.00 28	175.00 26	156.00 20	1450.00 48
1949	33.00 15	34.00 14	39.10 15	44.80 16	50.00 15	55.80 13	69.30 14	69.70 12	116.00 15	536.00 17
1950	21.00 6	21.00 5	21.40 4	22.80 3	37.70 8	41.90 8	46.10 6	47.40 4	48.90 2	373.00 10
1951	46.00 23	46.00 22	46.60 20	47.40 19	51.80 18	55.80 14	62.60 12	81.50 14	157.00 21	745.00 32
1952	200.00 49	207.00 49	213.00 49	219.00 49	245.00 48	371.00 47	477.00 47	526.00 47	675.00 48	1580.00 45
1953	64.00 26	65.00 26	65.70 26	67.60 25	75.60 25	86.10 20	84.60 18	87.00 17	116.00 16	700.00 29
1954	34.00 16	34.00 15	34.40 14	35.20 13	39.00 10	47.90 10	59.80 11	60.70 8	65.80 4	335.00 5
1955	49.00 41	104.00 40	111.00 41	120.00 41	130.00 37	178.00 39	215.00 39	323.00 40	498.00 43	868.00 37
1956	23.00 9	24.00 8	26.60 10	27.90 8	29.60 5	31.90 4	33.70 2	40.00 2	57.00 3	185.00 3
1957	22.00 7	24.00 9	24.90 8	27.70 7	38.80 9	43.90 9	45.80 5	44.30 3	74.90 7	121.00 1
1958	66.00 27	67.30 27	69.00 27	73.60 26	78.20 26	88.00 21	106.00 21	120.00 20	150.00 19	370.00 9
1959	45.00 21	45.00 20	45.40 18	46.40 18	48.70 14	60.30 16	72.60 15	103.00 18	144.00 17	609.00 26



STATION NUMBER 05451500

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

IOWA RIVER AT MARSHALLTOWN, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1960	80.00 34	95.70 37	102.00 36	113.00 36	141.00 38	188.00 40	201.00 33	217.00 32	290.00 31	518.00 15
1961	67.00 28	67.30 28	70.10 28	73.60 27	88.80 28	99.40 23	130.00 25	158.00 24	221.00 24	1090.00 41
1962	114.00 44	116.00 43	129.00 43	136.00 43	177.00 45	285.00 46	324.00 46	401.00 45	498.00 44	815.00 35
1963	80.00 35	80.00 30	82.90 30	88.40 31	103.00 31	127.00 31	145.00 27	179.00 27	202.00 33	973.00 40
1964	44.00 20	44.30 19	45.40 19	46.00 17	50.60 16	72.00 18	79.90 17	83.60 16	96.50 13	425.00 12
1965	42.00 18	43.70 18	53.90 24	77.00 28	84.60 27	95.10 22	106.00 22	123.00 21	217.00 23	526.00 16
1966	132.00 46	135.00 45	144.00 45	156.00 45	174.00 44	398.00 48	587.00 49	753.00 49	1110.00 50	1650.00 50
1967	48.00 22	46.70 23	48.90 22	51.60 21	56.70 19	70.60 17	75.90 16	80.30 13	102.00 14	543.00 19
1968	30.00 12	30.00 12	30.30 12	32.50 12	40.30 12	55.20 12	64.70 13	69.60 11	77.30 8	361.00 7
1969	73.00 30	81.30 32	104.00 37	118.00 40	147.00 41	153.00 34	206.00 34	248.00 34	276.00 28	606.00 25
1970	106.00 42	106.00 42	108.00 38	115.00 37	120.00 36	139.00 32	170.00 30	215.00 30	257.00 27	1350.00 46
1971	96.00 40	103.00 39	108.00 39	117.00 38	160.00 42	219.00 43	274.00 42	326.00 41	420.00 41	873.00 38



STATION NUMBER 05451500

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

ICWA RIVER AT MARSHALLTOWN, ICWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1903	7760.0 28	7760.0 17	7020.0 13	5390.0 11	3770.0 13	2510.0 15	2270.0 11	2030.0 11	1650.0 10	1110.0 10
1915	8850.0 19	8350.0 14	7630.0 11	6310.0 5	4000.0 11	3070.0 9	2350.0 10	2610.0 7	2270.0 4	1500.0 2
1916	3730.0 43	3310.0 40	2750.0 39	2350.0 36	1970.0 35	1750.0 28	1720.0 20	1560.0 22	1270.0 19	962.0 13
1917	11600.0 11	10200.0 10	7850.0 10	5050.0 13	3300.0 17	2140.0 19	2150.0 15	1850.0 14	1300.0 18	693.0 26
1918	34400.0 1	33100.0 1	21900.0 1	13800.0 1	8280.0 1	4890.0 2	2430.0 3	2670.0 5	2010.0 6	1070.0 11
1919	6670.0 31	5940.0 30	5660.0 20	4460.0 18	3330.0 16	2680.0 14	2180.0 13	1990.0 12	1480.0 14	856.0 17
1920	4870.0 37	3160.0 42	2680.0 40	2210.0 39	2090.0 33	1740.0 29	1660.0 22	1370.0 24	1100.0 28	820.0 19
1921	7820.0 27	5160.0 31	3760.0 32	2410.0 35	1370.0 44	982.0 43	927.0 42	927.0 39	772.0 37	683.0 27
1922	4790.0 36	3940.0 36	3180.0 36	2200.0 40	1630.0 39	1440.0 37	1120.0 39	545.0 38	729.0 40	465.0 40
1923	3430.0 45	3190.0 41	2550.0 44	2450.0 34	1600.0 42	973.0 44	722.0 45	599.0 47	424.0 49	264.0 49
1924	7440.0 29	6730.0 24	4020.0 30	2730.0 32	2330.0 31	1930.0 22	1660.0 23	1370.0 25	1340.0 17	818.0 20
1925	2440.0 48	2410.0 47	2250.0 47	1520.0 48	1080.0 49	631.0 50	486.0 50	481.0 50	394.0 50	304.0 47
1926	5970.0 32	4640.0 34	3070.0 38	2270.0 37	1610.0 41	881.0 47	643.0 48	604.0 46	599.0 44	547.0 36
1927	5230.0 35	3440.0 39	2580.0 42	2220.0 38	1970.0 36	1580.0 36	1420.0 31	1230.0 31	1010.0 30	740.0 23
1933	15700.0 7	12300.0 6	9840.0 6	6850.0 7	4240.0 9	2810.0 12	2060.0 16	1630.0 21	1230.0 22	654.0 24
1934	1160.0 53	737.0 52	470.0 52	260.0 53	151.0 53	121.0 53	115.0 53	103.0 53	93.0 53	77.3 53
1935	3470.0 17	6350.0 28	4470.0 28	3160.0 29	2510.0 29	1710.0 30	1270.0 34	1120.0 33	1140.0 27	655.0 28
1936	3190.0 23	7860.0 16	6290.0 16	4600.0 16	3520.0 15	2110.0 20	1630.0 25	1310.0 29	949.0 33	635.0 31
1937	7850.0 24	7380.0 19	6200.0 17	4000.0 24	2620.0 26	1850.0 23	1610.0 26	1690.0 18	1250.0 21	653.0 25
1938	4130.0 42	3930.0 37	3660.0 33	2850.0 31	2210.0 32	1660.0 33	1340.0 32	1210.0 32	1030.0 29	627.0 32
1939	6610.0 21	6390.0 26	5550.0 22	4040.0 23	2590.0 27	1650.0 34	1220.0 35	987.0 37	744.0 38	454.0 42
1940	1480.0 51	1180.0 51	1030.0 51	730.0 51	594.0 51	459.0 51	355.0 51	239.0 51	293.0 51	172.0 51
1941	2260.0 49	2060.0 49	1910.0 48	1800.0 46	1360.0 45	920.0 45	804.0 44	835.0 42	731.0 39	495.0 37
1942	13600.0 9	10400.0 9	6740.0 15	4800.0 15	3160.0 19	2260.0 17	1960.0 18	1790.0 15	1570.0 11	1290.0 6
1943	4370.0 41	3640.0 38	3540.0 34	2510.0 33	2000.0 34	1680.0 32	1460.0 30	1360.0 26	1260.0 20	876.0 18
1944	16500.0 6	12000.0 7	9040.0 7	6530.0 8	4880.0 7	3780.0 5	3120.0 6	2660.0 6	1980.0 8	1130.0 8
1945	7350.0 25	7080.0 21	5660.0 21	4290.0 20	3230.0 18	2840.0 11	2900.0 7	2600.0 8	2010.0 7	1120.0 9
1946	9600.0 15	6390.0 27	4050.0 29	3300.0 27	2370.0 30	1710.0 31	1520.0 28	1270.0 30	1170.0 26	744.0 22
1947	20200.0 3	14600.0 5	10300.0 4	9200.0 4	7530.0 2	5060.0 1	3840.0 1	3310.0 2	2410.0 3	1380.0 4
1948	10700.0 13	7390.0 18	6180.0 18	4480.0 17	3060.0 20	2060.0 21	1710.0 21	1250.0 27	984.0 31	563.0 34
1949	8760.0 20	7010.0 23	5310.0 26	3450.0 25	2730.0 24	1850.0 24	1340.0 33	1110.0 34	831.0 26	455.0 41
1950	13600.0 10	9530.0 11	5540.0 23	3280.0 28	2660.0 25	1790.0 26	1520.0 25	1680.0 19	1180.0 25	644.0 30
1951	14500.0 8	11300.0 8	8430.0 9	7050.0 6	5200.0 6	3770.0 6	3300.0 4	3240.0 3	2580.0 2	1450.0 3
1952	5530.0 34	4730.0 33	3920.0 31	3060.0 30	3000.0 21	2200.0 18	1750.0 15	1660.0 20	1490.0 13	960.0 14
1953	5000.0 36	4000.0 35	3410.0 35	2090.0 42	1620.0 40	1210.0 39	1150.0 38	1050.0 36	886.0 25	455.0 38
1954	10600.0 14	8970.0 13	7280.0 12	5370.0 12	4030.0 10	2440.0 16	1980.0 17	1700.0 17	1220.0 23	651.0 29
1955	2550.0 47	2410.0 48	1870.0 49	1420.0 49	1140.0 48	814.0 49	622.0 49	517.0 49	513.0 47	395.0 44
1956	1320.0 52	717.0 53	459.0 53	405.0 52	302.0 52	271.0 52	236.0 52	197.0 52	172.0 52	120.0 52



STATION NUMBER 05451500

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

ICWA RIVER AT MARSHALLTOWN, ICWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1957	5830.0 33	4960.0 32	3150.0 37	1900.0 44	1560.0 43	1190.0 40	894.0 43	706.0 44	524.0 46	299.0 48
1958	4380.0 40	2920.0 45	2390.0 46	1840.0 45	1200.0 47	1190.0 41	1000.0 40	830.0 43	717.0 41	452.0 43
1959	8850.0 18	7030.0 22	5470.0 24	4370.0 19	2880.0 23	1760.0 27	1540.0 27	1320.0 28	964.0 32	550.0 35
1960	17700.0 4	15300.0 3	10400.0 5	6150.0 10	4250.0 8	3520.0 7	2700.0 8	2120.0 10	1520.0 12	920.0 16
1961	7350.0 26	7150.0 20	5870.0 19	4150.0 22	3540.0 14	2740.0 13	2150.0 14	1760.0 16	1350.0 16	777.0 21
1962	9100.0 16	9020.0 12	8450.0 8	7150.0 5	5270.0 5	3230.0 8	2570.0 9	2290.0 9	1900.0 9	1220.0 7
1963	3540.0 44	3140.0 43	2560.0 43	2020.0 43	1650.0 37	1260.0 38	1200.0 36	1080.0 35	939.0 34	586.0 33
1964	1870.0 50	1620.0 50	1420.0 50	1150.0 50	1030.0 50	820.0 48	704.0 46	628.0 45	566.0 45	333.0 46
1965	16900.0 5	15000.0 4	13300.0 3	10500.0 2	6870.0 4	4220.0 4	3230.0 5	2770.0 4	2210.0 5	1350.0 5
1966	8210.0 22	6590.0 25	4940.0 27	3400.0 26	2580.0 28	1850.0 25	1650.0 24	1480.0 23	1190.0 24	1030.0 12
1967	6790.0 30	6310.0 29	5410.0 25	4190.0 21	2890.0 22	1620.0 35	1150.0 37	908.0 40	657.0 43	380.0 45
1968	3210.0 46	2920.0 44	2500.0 45	1710.0 47	1290.0 46	909.0 46	658.0 47	582.0 48	430.0 48	257.0 50
1969	26100.0 2	21600.0 2	14400.0 2	10500.0 3	7320.0 3	4580.0 3	3480.0 2	3560.0 1	2830.0 1	1580.0 1
1970	4610.0 39	2840.0 45	2660.0 41	2160.0 41	1650.0 38	1080.0 42	938.0 41	503.0 41	715.0 42	467.0 39
1971	10800.0 12	8080.0 15	6790.0 14	4960.0 14	3860.0 12	3000.0 10	2220.0 12	1920.0 13	1450.0 15	925.0 15



STATION NUMBER 05451500

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

ICWA RIVER AT MARSHALLTOWN, ICWA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34						
YEAR	NUMBER OF DAYS IN CLASS																																		CFS-DAYS						
1903										14	9	26	6	9	29	35	25	35	64	21	20	28	24	8	2	5	5											403590.0			
1915											21	23	10	28	11	27	23	49	42	32	27	16	14	5	9	15	3											548975.0			
1916											8	19	24	14	19	29	32	13	35	42	35	33	35	21	6	1												352203.0			
1917					30			36	17	21	32	40	28	12	8	9	23	19	15	21	15	8	4	6	4	3	3	8	1	2							252767.0				
1918				10	37	9	12	7	9	28	20	6	20	38	26	24	14	26	17	11	11	11	9	2	1	3	5	2	2	2		1		2			392109.0				
1919									5	30	32	22	6	18	42	45	24	22	33	12	13	22	15	11	3	8	2											327912.0			
1920										4	26	38	37	48	22	18	22	45	21	19	36	11	6	1	1													300648.0			
1921									9	8	15	17	20	20	41	22	49	70	48	14	17	8	3	2	1				1									249132.0			
1922								1	12	20	27	21	21	35	71	41	17	25	22	19	11	5	7	5	4		1											169720.0			
1923				5	31			26	52	32	18	44	36	30	27	15	12	8	10	3		3	4	6	3													96196.0			
1924									31	8	14	41	5	8	28	24	26	30	37	26	15	17	20	12	13	3	1	3										299491.0			
1925						1	16	10	11	24	19	56	65	52	45	14	20	21	1	2		5	3																111071.0		
1926					1	6	9	10	7	10	19	31	47	58	41	11	16	21	23	23	11	10	6	2	1	2												199708.0			
1927											1	3	15	18	93	40	58	45	12	19	34	16	8	2		1													270196.0		
1933						1	5	20	5	32	36	52	13	37	50	6	27	13	21	11	6	9	5	2	5	3	2	1	2	1								253466.0			
1934		17	8	26	16	22	60	68	60	60	12	1	1	2	4	5		1	1	1																			28232.0		
1935							1	11	13	27	20	29	39	50	47	26	14	11	14	12	11	10	17	4	6	1	1	1										240676.0			
1936					13	3	8	20	7	7	43	19	25	27	44	35	30	20	21	7	6	6	9	7	3	3	2	1										232532.0			
1937																																							252909.0		
1938					3	18	14	16	23	41	18	10	5	8	13	22	27	17	22	38	19	12	16	9	7	3												228921.0			
1939				2	5	11	4	7	23	14	10	17	47	57	44	27	24	13	16	12	9	2	3	5	1	3	3	1	1									165820.0			
1940		7	26	12	4	29	28	58	25	11	11	28	27	19	15	20	13	10	10	9	2	2																63131.0			
1941									7	15	25	15	8	38	35	36	32	20	27	37	33	11	9	15	2														180782.0		
1942																																							471010.0		
1943														15	10	33	28	36	50	45	65	25	12	26	9	9	2							1	1			319569.0			
1944																																							412444.0		
1945																																							408020.0		
1946																																								271736.0	
1947																																								502221.0	
1948						5	9	30	32	34	18	29	29	63	15	18	9	5	27	13	9	4	5	2	2	4	3	1										206194.0			
1949						3	7	32	54	36	43	24	18	13	24	16	12	17	23	6	6	7	5	9	4	3	1	1	1									166087.0			
1950																																								235207.0	
1951																																								529394.0	
1952																																								351345.0	
1953																																								180831.0	
1954																																									237772.0
1955																																									143999.0
1956																																									43977.0



STATION NUMBER 05451500

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

ICWA RIVER AT MARSHALLTOWN, IOWA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	CFS_DAYS	
YEAR	NUMBER OF DAYS IN CLASS																																	CFS_DAYS			
1957			5	22	13	42	37	26	33	35	25	24	20	16	14	18	9	8	4	2	1	3	1	2	3										109232.0		
1958								23	16	29	30	51	67	32	23	16	16	19	14	7	11	4	1	1												165102.0	
1959								28	13	17	38	55	34	20	20	14	26	27	18	11	10	6	11	6	3	3	2		3							200802.0	
1960										1	13	36	47	33	64	37	30	14	19	10	20	11	11	4	3	4	4	4	2	1	1	1				336665.0	
1961										17	20	34	28	42	40	24	24	27	16	13	18	20	10	10	7	8	4	2	1							283535.0	
1962														45	43	51	28	43	57	27	11	13	14	5	7	10	6	5								443549.0	
1963										5	18	40	49	11	36	40	31	28	27	20	19	17	11	10	3											213884.0	
1964								19	17	19	51	73	20	18	14	24	27	24	16	27	13	1	3														121831.0
1965								3	3	15	34	24	52	22	16	10	21	24	19	19	12	11	21	14	7	8	9	9	5	3	4					493083.0	
1966										1	17	7	15	10	19	23	17	25	37	78	45	28	19	7	5	3	7	1	1								374694.0
1967								5	29	40	80	35	63	33	17	18	7	5	5	2	2	5	3	4	3	4	3	2								138632.0	
1968								7	7	28	26	55	39	59	43	25	14	10	11	12	4	8	5	3	5	3	2									94129.0	
1969										2	10	43	23	17	44	33	21	19	24	30	15	13	16	10	8	17	8	6	3	1		2				575370.0	
1970										8	43	33	47	51	44	23	42	32	12	11	5	9	3	1	1											170298.0	
1971										9	23	13	31	30	12	15	26	45	47	33	19	13	10	12	12	1	7	4		1						337727.0	

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	19357	100.0	9	67.00	837	17319	89.5	18	640.0	1227	6068	31.3	27	6100	113	215	1.1
1	9.00	7	19357	100.0	10	86.00	1104	16482	85.1	19	820.0	1379	4841	25.0	28	7800	57	102	.5
2	12.00	43	19350	100.0	11	110.00	1218	15378	79.4	20	1100.0	868	3462	17.9	29	10000	24	45	.2
3	15.00	22	19307	99.7	12	140.00	1359	14160	73.2	21	1400.0	619	2594	13.4	30	13000	14	21	.1
4	19.00	76	19285	99.6	13	180.00	1257	12801	66.1	22	1700.0	654	1975	10.2	31	17000	2	7	.0
5	25.00	274	19209	99.2	14	230.00	1501	11504	59.4	23	2200.0	485	1321	6.8	32	21000	3	5	.0
6	32.00	228	18935	97.8	15	300.00	1484	10003	51.7	24	2900.0	285	836	4.3	33	27000		2	.0
7	40.00	592	18707	96.5	16	390.00	1220	8519	44.0	25	3700.0	159	551	2.8	34	35000	2	2	.0
8	52.00	796	18115	93.6	17	500.00	1231	7299	37.7	26	4700.0	178	353	2.0					



STATION NUMBER 0545170C

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

TIMBER CREEK NEAR MARSHALLTOWN, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1951	0.40 4	0.40 4	0.44 5	0.47 5	0.51 4	0.71 3	0.79 2	0.82 2	1.01 1	38.40 8
1952	15.00 21	15.70 21	16.10 21	17.00 21	19.80 20	31.90 19	39.00 19	37.00 18	42.80 18	93.50 18
1953	2.50 12	2.50 11	2.50 10	2.64 9	2.91 10	3.07 6	4.75 9	5.77 9	9.47 11	53.20 11
1954	0.40 5	0.40 5	0.40 4	0.40 4	0.40 3	0.69 2	1.40 4	1.44 4	1.91 4	19.50 5
1955	3.50 14	3.60 14	3.97 15	5.06 15	3.44 17	13.00 17	16.60 17	20.90 17	27.20 17	47.90 9
1956	0.30 3	0.30 3	0.30 3	0.30 3	0.33 1	0.41 1	0.50 1	0.73 1	1.06 2	12.40 2
1957	0.00 1	0.00 1	0.00 1	0.07 1	0.37 2	0.85 4	0.93 3	0.99 3	1.53 3	8.13 1
1958	2.00 8	2.10 8	2.44 9	2.67 10	3.53 11	4.80 11	5.79 11	6.89 11	7.45 9	35.00 7
1959	2.40 10	2.43 10	2.59 11	2.69 11	2.87 9	3.93 9	4.60 8	6.27 10	8.17 10	48.70 10
1960	3.40 13	3.40 13	3.51 13	3.69 13	4.46 12	6.02 13	6.75 13	10.70 13	14.10 14	69.50 14
1961	3.70 15	3.70 15	3.84 14	4.06 14	5.30 13	6.92 14	8.98 14	11.20 14	13.80 13	107.00 20
1962	11.00 18	11.30 18	12.70 18	14.20 18	17.80 18	30.80 18	31.60 18	38.70 19	46.50 19	82.70 16
1963	6.00 16	6.13 16	6.71 17	7.28 17	8.39 16	8.62 16	10.20 15	12.10 15	17.60 16	79.20 15
1964	2.20 9	2.20 9	2.21 8	2.33 8	2.78 7	4.33 10	4.77 10	5.16 8	6.39 7	18.90 4
1965	2.50 11	2.73 12	3.40 12	3.44 12	5.39 14	5.68 12	6.10 12	8.04 12	11.30 12	62.80 12
1966	13.00 19	14.00 20	14.70 19	15.40 19	19.30 19	32.70 20	62.70 21	69.40 21	73.00 21	103.00 19
1967	1.80 7	1.80 7	1.91 7	2.21 7	2.48 6	3.29 7	3.57 6	3.86 6	5.70 6	63.20 13
1968	0.20 2	0.21 2	0.21 2	0.27 2	0.67 5	1.50 5	2.19 5	2.37 5	3.22 5	13.10 3
1969	0.97 5	1.16 6	1.27 6	1.65 6	2.86 8	3.49 8	3.98 7	4.27 7	6.55 8	34.40 6
1970	6.40 17	6.43 17	6.57 16	7.04 16	7.11 15	8.38 15	10.30 16	12.60 16	16.40 15	87.80 17
1971	13.00 20	13.70 19	15.10 20	16.80 20	22.80 21	34.70 21	47.70 20	57.90 20	67.70 20	123.00 21



STATION NUMBER 05451700

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

TIMBER CREEK NEAR MARSHALLTOWN, IOWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1950	3120.0 3	2370.0 1	1310.0 1	647.0 3	446.0 2	247.0 6	173.0 9	150.0 9	123.0 9	63.2 12
1951	972.0 17	685.0 16	397.0 17	270.0 15	194.0 13	157.0 12	159.0 10	153.0 8	125.0 8	69.0 9
1952	1640.0 12	1080.0 11	643.0 10	392.0 11	263.0 11	179.0 10	153.0 11	141.0 11	118.0 10	73.4 7
1953	2000.0 7	983.0 12	481.0 13	300.0 13	177.0 15	113.0 14	97.5 14	90.4 13	72.3 13	39.8 13
1954	1230.0 15	541.0 18	369.0 18	241.0 18	177.0 16	102.0 17	74.7 18	61.5 18	45.9 18	24.2 18
1955	1200.0 16	783.0 14	417.0 14	270.0 16	158.0 18	94.3 18	79.9 17	66.7 17	51.1 16	36.1 15
1956	92.0 22	45.3 22	23.2 22	13.7 22	10.9 22	6.9 22	6.6 22	6.0 22	4.3 22	2.8 22
1957	1370.0 9	1320.0 7	605.0 12	294.0 14	238.0 12	141.0 13	104.0 13	80.5 14	62.3 14	33.7 16
1958	600.0 19	300.0 20	155.0 20	85.5 20	53.6 20	43.5 19	33.9 19	37.9 19	31.8 19	20.5 19
1959	2210.0 6	1120.0 10	613.0 11	475.0 8	386.0 6	228.0 9	216.0 4	189.0 5	133.0 7	70.0 8
1960	2770.0 4	1630.0 3	1020.0 3	577.0 4	394.0 4	366.0 1	286.0 1	231.0 1	180.0 1	101.0 3
1961	2640.0 5	1180.0 9	846.0 7	450.0 10	393.0 5	243.0 7	178.0 8	143.0 10	110.0 12	65.0 11
1962	1650.0 11	920.0 13	785.0 9	576.0 5	374.0 7	241.0 8	216.0 5	192.0 4	168.0 4	117.0 1
1963	700.0 18	567.0 17	414.0 15	312.0 12	188.0 14	110.0 15	93.8 15	77.4 15	61.3 15	37.3 14
1964	1450.0 14	725.0 15	404.0 16	256.0 17	169.0 17	102.0 16	82.3 16	67.2 16	49.2 17	28.0 17
1965	1500.0 13	1230.0 8	881.0 5	526.0 6	370.0 8	276.0 4	241.0 2	207.0 3	170.0 3	101.0 2
1966	3720.0 1	2200.0 2	1180.0 2	662.0 2	412.0 3	285.0 3	210.0 6	181.0 6	147.0 6	100.0 4
1967	507.0 20	337.0 19	194.0 19	116.0 19	75.5 19	42.5 20	31.2 20	27.8 20	21.5 20	12.8 20
1968	189.0 21	142.0 21	78.9 21	41.1 21	28.5 21	24.7 21	19.4 21	17.8 21	15.7 21	9.3 21
1969	1300.0 10	1620.0 4	850.0 6	480.0 7	324.0 9	253.0 5	208.0 7	227.0 2	180.0 2	97.3 5
1970	3130.0 2	1550.0 5	805.0 8	462.0 9	275.0 10	165.0 11	153.0 12	135.0 12	113.0 11	66.8 10
1971	1900.0 8	1500.0 6	904.0 4	732.0 1	521.0 1	305.0 2	217.0 3	179.0 7	153.0 5	92.7 6



STATION NUMBER 0545170C

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

TIMBER CREEK NEAR MARSHALLTOWN, IOWA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS	
1950									23	43	28	59	20	14	31	27	19	19	16	19	7	8	4	3	4	2	1	6	3	3	2	1		2	1	23078.2
1951				6	41	42	22	19	2	1				3		5	25	18	26	18	22	36	31	15	14	7	4	4	2	2						25196.6
1952										10	4	7	5	13	9	36	31	46	45	47	40	38	17	6	5	3	1	1			2					26876.4
1953								2	14	17	60	21	27	15	25	21	23	38	38	24	16	8	8	2	3		1	1				1				14521.2
1954				31	11	5	5	26	35	10	20	50	25	26	35	26	11	10	3	7	9	6	5	3	3	1	1				1					8848.8
1955							1	18	20	13	11	3	12	12	44	51	41	55	42	13	3	9	6	1	1	1	1	1	1							13184.8
1956	3	9	15	30	22	61	23	26	57	28	10	35	13	10	9	1	6		6	1		1														1040.6
1957	9	1	2			18	22	38	31	3	18	27	30	32	24	19	26	14	12	6	9	5	5	1	3	5	1	1			1	2			12304.1	
1958											16	16	42	56	45	41	65	34	21	9	8	2	4	3	1		1	1								7478.0
1959										25	35	83	35	9	12	11	6	22	24	21	23	16	15	4	9	1	7	5			1	1			25532.3	
1960										18	9	14	12	36	34	27	55	24	28	25	28	13	16	9	6	2	3	3	3	2	1	1			36865.6	
1961											10	13	19	29	45	60	33	40	29	28	18	14	7	2	6	5		3	2	1			1		23735.1	
1962																5	12	23	69	69	68	53	31	10	10	1	4	5	3	2					42586.0	
1963												2	51	31	66	76	37	27	22	19	9	7	5	5	3	2	2	1							13630.2	
1964									7	20	12	48	55	36	47	29	34	24	13	16	7	9	3	2	2	1					1				10259.0	
1965										4	25	18	49	13	12	28	22	27	32	29	20	27	14	12	5	8	8	3	6	3					36782.6	
1966											1	10	15	6	3	9	8	13	45	115	55	39	17	11	8	5	1	2				1	1		36607.3	
1967										15	48	80	81	32	25	24	17	9	13	6	8	3	2			1	1									4676.3
1968		12		4	6	1	9	19	32	48	47	46	46	32	19	17	8	2	7	6		2	3													3413.8
1969										8	33	29	31	16	9	20	21	17	19	19	43	41	19	13	12	5	2	2	1	4	1				35528.0	
1970												31	22	36	62	30	32	44	50	25	12	8	2	5			2	2		1		1			24369.0	
1971										2	20	13	10	6	7	12	24	54	71	50	35	24	6	7	6	4	5	3	2	3	1					33836.2

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	12	8035	100.0	9	1.70	184	7322	91.1	18	28.0	582	3198	39.8	27	480	45	144	1.7
1	0.10	10	8023	99.9	10	2.30	309	7138	88.8	19	39.0	574	2616	32.6	28	650	37	99	1.2
2	0.20	29	8013	99.7	11	3.10	474	6829	85.0	20	53.0	601	2042	25.4	29	890	23	62	.7
3	0.30	30	7984	99.4	12	4.30	522	6355	79.1	21	73.0	447	1441	17.9	30	1200	23	39	.4
4	0.40	63	7954	99.0	13	5.90	589	5823	72.5	22	99.0	378	994	12.4	31	1700	8	16	.1
5	0.50	137	7891	98.2	14	8.10	408	5234	65.1	23	140.0	200	616	7.7	32	2300	5	8	.0
6	0.70	93	7754	96.5	15	11.00	514	4326	60.1	24	190.0	116	416	5.2	33	3100	3	3	.0
7	0.90	124	7661	95.3	16	15.00	655	4312	53.7	25	250.0	100	300	3.7	34				
8	1.20	215	7537	93.8	17	21.00	459	3657	45.5	26	350.0	56	200	2.5					



STATION NUMBER 05451900

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

RICHLAND CREEK NEAR HAVEN, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1951	0.20 3	0.20 3	0.20 3	0.20 3	0.23 4	0.31 4	0.34 4	0.35 2	0.74 3	18.80 7
1952	2.50 16	2.90 16	3.26 17	3.76 17	6.18 19	10.30 18	15.40 19	16.00 19	16.50 15	39.10 15
1953	1.10 12	1.10 11	1.17 11	1.26 10	1.34 8	1.40 5	2.16 7	2.69 8	4.02 7	29.40 10
1954	0.10 1	0.10 1	0.10 1	0.10 1	0.10 1	0.15 1	0.30 1	0.42 4	0.45 1	11.20 5
1955	0.20 4	0.27 5	0.36 5	0.59 5	0.68 5	2.07 8	7.20 16	10.90 15	18.50 17	22.90 8
1956	0.20 5	0.20 4	0.20 4	0.20 4	0.22 3	0.24 2	0.31 2	0.39 3	0.48 2	5.94 2
1957	0.10 2	0.10 2	0.10 2	0.11 2	0.14 2	0.24 3	0.31 3	0.28 1	2.26 4	3.69 1
1958	0.30 6	0.37 6	0.44 6	0.90 6	0.97 6	2.61 11	3.38 9	3.64 9	4.84 8	12.40 6
1959	1.00 11	1.30 13	1.66 13	2.59 15	3.48 15	4.51 15	6.28 14	14.60 17	21.60 19	36.10 13
1960	2.90 17	3.03 17	3.21 16	3.64 16	4.15 16	7.35 17	9.39 17	12.00 16	17.50 16	52.30 19
1961	1.70 15	1.70 15	1.79 15	1.91 12	2.83 12	4.06 14	5.14 13	7.08 13	7.36 12	45.80 17
1962	3.20 13	3.23 18	3.60 18	4.04 19	4.53 18	12.30 15	11.80 18	14.90 18	20.80 18	41.60 16
1963	1.20 13	1.37 14	1.61 12	2.54 14	2.98 14	3.35 12	4.27 12	5.24 11	7.02 11	33.70 11
1964	0.80 10	0.87 10	0.90 9	0.95 8	1.10 7	1.78 6	2.04 5	2.22 6	2.56 5	7.33 3
1965	1.20 14	1.20 12	1.67 14	2.37 13	2.93 13	3.65 13	3.82 10	5.39 12	8.08 13	37.50 14
1966	3.80 20	4.33 20	4.87 20	5.15 20	7.08 20	23.10 21	32.70 21	34.30 21	40.70 20	55.50 21
1967	0.70 9	0.80 9	1.17 10	1.46 11	1.79 11	2.17 9	2.47 8	2.56 7	4.96 9	34.60 12
1968	0.60 8	0.60 8	0.65 7	0.93 7	1.66 9	2.50 10	4.02 11	3.89 10	5.64 10	10.70 4
1969	0.42 7	0.44 7	0.81 8	1.12 9	1.67 10	1.78 7	2.14 6	2.07 5	3.83 6	23.30 9
1970	3.70 19	3.73 19	3.81 19	4.00 18	4.34 17	5.37 16	7.07 15	8.55 14	10.80 14	48.70 18
1971	4.20 21	4.43 21	5.36 21	6.60 21	10.10 21	15.80 20	22.70 20	31.20 20	41.30 21	54.20 20



STATION NUMBER 05451900

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

RICHLAND CREEK NEAR HAVEN, ICHA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1950	1370.0 4	1030.0 2	483.0 3	237.0 7	155.0 9	83.1 9	60.2 13	57.3 12	45.3 13	23.3 13
1951	495.0 16	382.0 14	223.0 14	143.0 13	80.1 13	73.2 11	66.9 11	66.9 9	57.8 8	31.0 10
1952	430.0 17	364.0 15	230.0 13	157.0 11	112.0 10	80.6 10	70.9 9	68.2 8	55.3 9	33.8 8
1953	1390.0 3	537.0 4	251.0 10	184.0 10	111.0 11	72.3 12	62.2 12	56.3 13	46.1 12	24.2 12
1954	456.0 19	308.0 17	145.0 19	72.4 19	38.3 21	25.1 21	21.9 20	20.0 20	18.5 18	9.5 21
1955	766.0 12	435.0 12	213.0 15	122.0 16	69.0 15	43.0 16	39.2 15	32.7 15	27.4 14	19.3 14
1956	205.0 21	124.0 21	55.5 22	31.4 22	19.1 22	11.5 22	7.7 22	6.2 22	4.4 22	2.5 22
1957	296.0 20	170.0 20	82.5 20	42.0 21	39.2 20	36.9 18	31.6 17	26.7 17	18.2 19	10.6 19
1958	543.0 15	455.0 11	246.0 11	125.0 14	66.6 17	45.8 14	39.6 14	33.6 14	25.6 15	16.0 15
1959	300.0 11	391.0 13	301.0 8	236.0 8	186.0 6	136.0 5	131.0 2	112.0 3	81.7 4	47.1 6
1960	2130.0 1	1100.0 1	645.0 1	354.0 1	216.0 1	165.0 2	127.0 3	107.0 4	90.7 3	54.4 3
1961	1200.0 5	552.0 8	298.0 9	218.0 9	182.0 8	113.0 6	83.5 7	68.6 7	50.2 11	30.4 11
1962	1110.0 6	602.0 7	462.0 4	290.0 4	183.0 7	113.0 7	96.5 6	87.5 6	78.0 5	55.6 2
1963	458.0 18	266.0 19	167.0 17	123.0 15	78.6 14	45.6 15	36.4 16	29.8 16	24.7 16	15.3 16
1964	579.0 13	295.0 18	159.0 18	97.3 17	67.5 16	37.9 17	28.6 18	23.7 18	18.8 17	10.7 18
1965	956.0 10	690.0 6	440.0 6	252.0 5	187.0 4	175.0 1	145.0 1	125.0 1	99.8 1	63.6 1
1966	1590.0 2	930.0 3	525.0 2	297.0 3	205.0 2	147.0 4	110.0 5	91.6 5	73.2 6	50.9 5
1967	569.0 14	327.0 16	168.0 16	53.1 18	53.0 18	31.6 19	24.3 19	20.2 19	17.9 20	11.2 17
1968	127.0 22	93.0 22	65.3 21	47.5 20	40.3 19	27.4 20	21.4 21	18.9 21	15.0 21	9.6 20
1969	1070.0 7	884.0 4	445.0 5	240.0 6	198.0 3	150.0 3	116.0 4	115.0 2	96.4 2	54.0 4
1970	1010.0 8	526.0 10	244.0 12	145.0 12	88.1 12	62.5 13	68.1 10	60.9 11	50.6 10	33.4 9
1971	1000.0 9	790.0 5	385.0 7	316.0 2	186.0 5	106.0 8	76.0 8	65.0 10	64.8 7	40.9 7



DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

RICHLAND CREEK NEAR HAVEN, IOWA

CLASS	NUMBER OF DAYS IN CLASS																																		CFS_DAYS			
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33		34		
1950	8	23	31	37	29	26	10	10	5	22	38	26	15	12	15	14	5	5	7	7	3	2	1		4	1	1		1	2	1				8500.5			
1951		37	38	46	3		1	1	4	5	9	7	24	10	18	18	11	27	32	24	22	7	10	1	5	2	2	1							11323.0			
1952								17	12	3	12	29	29	14	32	34	23	38	37	39	24	11	4	1	3	2	2						1		12362.9			
1953	1	1	2	12	15	7	23	53	20	23	14	24	5	11	21	18	24	28	17	22	7	4	3	5	4									1	8821.2			
1954	39	20	14	57	46	12	29	10	8	20	14	18	12	13	11	10	6	6	4	5	2	3	3		1			2							3483.3			
1955			4	18	17	8	13	5	6	7	12	55	20	29	49	32	24	23	17	12	4	3	4		1						1	1			7046.1			
1956	26	84	62	77	44	5	16	18	1	4	4	4	1	5	1	1	2	2	1	1	1		1		1										912.8			
1957	7	54	11	48	21	11	22	21	22	21	24	25	14	13	10	6	6	6	5	4	1	4	1	4	3	1									3884.7			
1958							16	22	22	44	36	35	56	40	32	16	13	6	7	1	2	2		2	3	1	2	1							5856.3			
1959										23	29	58	34	37	26	13	15	14	20	21	27	12	9	8	6	6	3	2	2							17197.7		
1960										7	19	31	16	31	32	55	47	33	31	22	13	10		5	4	3	3			2	1		1			19904.9		
1961								5	14	8	22	54	46	46	31	39	21	24	20	11	5	2	5	3	2	3			2			1	1			11110.9		
1962													14	10	21	28	63	64	39	52	32	14	9	4	3	8	2						2			20311.9		
1963							1	4	4	27	58	53	75	47	34	17	10	9	4	5	6	4	2	1	3		1										5571.9	
1964							11	21	12	59	65	49	28	27	26	22	11	9	6	6	5	4	2	1		1				1							3911.5	
1965								7	13	4	17	54	28	23	21	24	23	32	27	17	13	9	8	5	9	6	7	5	4	8	1						23208.4	
1966										1	11	6	12	5	9	18	40	55	67	43	32	28	14	8	5	3	4	1	1			1	1				18572.1	
1967																																						4081.2
1968							1	3	10	17	55	63	55	52	34	25	15	7	10	3	3	1	3	2	1	2	1	1									3512.2	
1969							9	6	14	26	39	41	63	40	28	18	25	15	15	5	10	4	2	4	2													19693.9
1970							6	5	6	10	38	18	15	12	6	8	19	21	15	21	32	37	27	26	10	7	8	7	1	3				4	3			12203.8
1971																																						14929.9

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	8035	100.0	9	1.90	301	6497	80.9	18	26.0	523	2052	25.5	27	370	28	85	1.0
1	0.10	91	8035	100.0	10	2.50	427	6156	77.1	19	35.0	429	1529	19.0	28	450	17	57	.7
2	0.20	219	7954	99.0	11	3.40	546	5769	71.8	20	47.0	361	1100	13.7	29	660	21	40	.4
3	0.30	162	7735	96.3	12	4.50	605	5223	65.0	21	63.0	256	739	9.2	30	880	14	19	.2
4	0.40	303	7573	94.3	13	6.10	524	4618	57.5	22	85.0	134	483	6.0	31	1200	4	5	.0
5	0.60	191	7270	90.5	14	8.10	489	4084	50.8	23	110.0	92	349	4.3	32	1600	1	1	.0
6	0.80	99	7079	88.1	15	11.00	564	3595	44.7	24	150.0	65	257	3.2	33				
7	1.00	203	6980	86.9	16	15.00	480	3031	37.7	25	200.0	64	152	2.4	34				
8	1.40	280	6777	84.3	17	20.00	499	2551	31.7	26	270.0	43	128	1.6					



STATION NUMBER 0545200C

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

SALT CREEK NEAR ELPERON, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1947	15.00 23	17.70 22	18.10 20	20.80 21	29.70 24	40.00 21	68.50 24	67.40 23	103.00 23	112.00 15
1948	7.00 12	7.00 12	7.57 13	7.79 10	7.83 9	11.20 10	22.70 14	26.20 14	24.50 9	275.00 25
1949	3.10 6	3.23 5	3.46 5	4.09 6	5.08 5	5.81 4	5.99 3	6.66 3	8.62 4	71.70 8
1950	3.20 7	3.20 4	3.24 4	3.51 4	5.37 6	7.17 6	7.41 6	8.10 5	9.67 5	67.70 7
1951	2.90 5	2.90 3	2.97 3	3.10 2	3.27 1	3.57 1	3.59 1	3.92 1	4.63 1	87.60 10
1952	18.00 23	18.00 23	21.90 25	29.40 25	37.80 25	57.00 23	67.30 23	62.60 21	80.40 20	162.00 19
1953	7.50 14	7.67 14	8.00 14	8.14 11	8.44 10	9.11 8	10.80 8	11.50 8	14.90 7	85.00 9
1954	2.40 1	2.40 1	2.40 1	2.40 1	3.43 3	5.38 3	6.65 4	6.70 4	7.49 3	64.50 6
1955	5.90 11	6.43 11	7.50 12	9.31 12	12.00 12	24.30 18	36.10 20	45.50 20	91.30 21	97.10 13
1956	2.50 2	2.50 2	2.64 2	3.14 3	3.36 2	3.83 2	4.49 2	5.42 2	6.91 2	30.50 2
1957	2.70 3	3.50 7	4.00 7	4.48 7	5.85 7	6.39 5	7.24 5	8.49 6	27.00 11	45.20 4
1958	9.30 16	10.00 16	10.00 16	10.90 15	13.90 15	17.50 14	22.60 13	24.10 13	29.70 14	63.70 5
1959	18.00 24	18.00 24	18.40 21	19.50 20	20.70 20	23.70 17	28.30 15	40.70 19	66.60 19	166.00 20
1960	13.00 13	13.30 18	13.70 17	14.40 17	16.10 16	25.60 20	32.90 18	38.80 17	55.80 18	140.00 17
1961	12.00 17	13.00 17	14.00 18	14.70 18	18.80 17	22.80 15	30.70 17	39.50 18	39.10 15	177.00 21
1962	15.00 19	15.70 19	19.90 23	23.50 24	29.50 23	67.80 24	65.80 22	98.70 24	120.00 24	182.00 22
1963	5.60 10	5.80 10	6.40 9	9.57 14	12.50 13	12.80 11	17.00 11	21.10 11	28.10 12	124.00 16
1964	3.30 8	3.80 8	3.86 6	4.04 5	5.00 4	8.96 7	10.30 7	10.90 7	12.90 6	29.00 1
1965	2.90 4	3.33 6	4.39 8	6.89 8	10.50 11	13.60 12	13.80 10	20.40 10	25.90 10	94.20 12
1966	16.00 21	17.30 21	19.70 22	21.10 22	24.50 21	68.70 25	99.70 25	105.00 25	135.00 25	192.00 23
1967	5.10 9	5.63 9	6.56 10	7.19 9	7.35 8	9.39 9	11.10 9	12.80 9	22.90 8	52.50 11
1968	7.10 13	7.10 13	7.41 11	9.35 13	13.00 14	17.40 13	20.80 12	21.80 12	29.50 13	33.60 3
1969	7.60 15	8.53 15	9.94 15	13.30 16	19.40 18	24.90 19	33.20 19	32.60 15	47.20 16	104.00 14
1970	16.00 22	16.70 20	17.10 19	17.90 19	20.00 19	23.30 16	29.50 16	36.70 16	48.50 17	274.00 24
1971	19.00 25	20.00 25	20.90 24	22.30 23	28.30 22	41.10 22	48.50 21	66.60 22	96.60 22	158.00 18



STATION NUMBER 05452000

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

SALT CREEK NEAR ELBERON, IOWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1946	5740.0 4	2810.0 5	1250.0 8	613.0 16	329.0 18	240.0 17	258.0 13	212.0 16	174.0 13	123.0 11
1947	13000.0 1	6000.0 1	3240.0 1	2950.0 1	1890.0 1	1110.0 1	844.0 1	692.0 1	501.0 2	292.0 2
1948	2520.0 16	1840.0 15	1140.0 12	633.0 15	385.0 15	234.0 18	193.0 18	153.0 18	107.0 18	63.2 19
1949	2700.0 15	1600.0 18	953.0 16	726.0 10	444.0 11	279.0 14	206.0 16	172.0 17	127.0 17	69.0 18
1950	5860.0 3	4070.0 3	1900.0 3	945.0 7	523.0 9	289.0 13	227.0 15	229.0 10	163.0 16	85.9 16
1951	3200.0 11	2310.0 10	1130.0 13	651.0 14	394.0 14	364.0 9	302.0 7	296.0 7	245.0 7	141.0 8
1952	2310.0 14	1960.0 14	1200.0 10	709.0 12	458.0 10	301.0 11	259.0 12	226.0 12	193.0 9	120.0 12
1953	2900.0 13	1610.0 17	773.0 18	447.0 20	335.0 17	251.0 15	205.0 17	213.0 15	185.0 11	100.0 14
1954	3190.0 12	2030.0 11	967.0 15	497.0 17	284.0 21	168.0 21	126.0 21	117.0 20	102.0 19	55.2 22
1955	900.0 24	572.0 24	381.0 24	330.0 21	220.0 22	139.0 22	115.0 22	99.5 22	92.0 22	71.7 17
1956	1420.0 21	954.0 20	444.0 23	282.0 23	158.0 23	116.0 23	81.3 23	79.9 23	62.8 24	36.1 24
1957	1660.0 19	1060.0 19	567.0 21	326.0 22	319.0 19	216.0 19	154.0 19	131.0 19	99.9 20	60.3 20
1958	4400.0 8	2350.0 8	1150.0 11	664.0 13	401.0 13	344.0 10	269.0 10	225.0 13	165.0 15	100.0 15
1959	4330.0 9	2530.0 6	1500.0 7	1130.0 4	779.0 3	499.0 5	424.0 4	354.0 5	254.0 6	147.0 6
1960	4500.0 7	2990.0 4	1880.0 4	1090.0 5	749.0 4	607.0 3	461.0 3	371.0 4	307.0 3	184.0 5
1961	4560.0 6	2050.0 12	990.0 14	730.0 9	605.0 6	380.0 7	284.0 8	283.0 8	215.0 8	133.0 9
1962	2300.0 17	1980.0 13	1790.0 6	1200.0 3	749.0 5	492.0 6	401.0 5	343.0 6	282.0 5	210.0 3
1963	1500.0 20	947.0 21	601.0 20	454.0 18	306.0 20	175.0 20	134.0 20	109.0 21	93.3 21	58.4 21
1964	770.0 25	391.0 25	263.0 25	163.0 25	113.0 25	88.6 25	80.0 24	71.5 25	58.7 25	35.8 25
1965	3420.0 10	2320.0 9	1850.0 5	1040.0 6	604.0 7	499.0 4	386.0 6	372.0 3	294.0 4	190.0 4
1966	1370.0 22	910.0 22	717.0 19	466.0 19	369.0 16	298.0 12	253.0 14	227.0 11	185.0 12	143.0 7
1967	620.0 26	356.0 26	181.0 26	117.0 26	78.2 26	67.8 26	61.1 26	53.8 26	46.3 26	33.6 26
1968	1260.0 23	756.0 23	492.0 22	281.0 24	158.0 24	99.5 24	75.2 25	78.2 24	72.8 23	52.0 23
1969	6340.0 2	4690.0 2	2360.0 2	1900.0 2	1410.0 2	937.0 2	702.0 2	630.0 2	537.0 1	297.0 1
1970	4530.0 5	2410.0 7	1240.0 9	718.0 11	430.0 12	248.0 16	266.0 11	230.0 9	171.0 14	109.0 13
1971	2200.0 18	1700.0 16	951.0 17	793.0 8	601.0 8	369.0 8	269.0 9	224.0 14	191.0 10	123.0 10



STATION NUMBER 05452000

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

SALT CREEK NEAR ELBERON, ICWA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34				
YEAR	NUMBER OF DAYS IN CLASS																																	CFS_DAYS					
1946									24	33	37	32	32	51	37	42	18	12	6	7	8	4	8	3	2		5	1	1		1			1			44951.0		
1947									2	22	8	15	15	15	37	39	28	45	28	27	15	13	13	15	11	3	3	2		3	1	1	1	2	1			106760.0	
1948			8	13	14	16	39	18	39	28	27	36	33	23	16	10	7	12	8	6	4	1	2	2		1		1		2							23122.8		
1949			20	25	45	29	21	18	23	16	41	20	18	14	19	7	6	6	9	6	7	2	2	2	2	2	2	2		1							25166.6		
1950			18	47	68	25	27	19	19	14	16	22	17	15	15	4	11	8	5	5	2		1		2	1	1					1	1	1			31355.7		
1951	6	60	43	24	2	2	7	2	6	7	11	14	8	17	23	18	25	24	27	8	5	11		1	4	2	2	3	1	2							51298.3		
1952					2	9	15	11	15	12	9	27	37	39	47	28	35	30	19	11	8	3	2	1	2	1	1		1	1							43838.5		
1953					10	56	52	31	14	12	10	11	7	17	32	29	28	18	12	5	5	3	3	2	2	3		2		1							36523.7		
1954	20	4	4	21	71	45	40	21	9	11	10	12	17	23	20	5	6	4	4	3	2	6			1				1	1							20137.9		
1955				5	11	11	21	14	9	29	39	36	37	47	35	19	10	15	11	3	6	3		2	2													26172.1	
1956	10	20	42	30	34	62	29	26	15	24	8	12	14	7	10	7	2	5	2	1		1		2	1	1	1										13229.1		
1957		2	8	16	36	50	28	40	35	39	17	14	12	7	10	9	12	7	5	5	2	2	1	2	2	2	1	1										21997.6	
1958							17	27	22	43	56	42	33	29	27	17	9	12	10	3	1	3	3	3	2	2	3									1		36498.0	
1959								17	29	44	51	41	31	17	17	12	20	22	9	15	8	9	7	3	5	2	3		2							1		53627.0	
1960									13	18	23	29	34	26	60	25	29	23	16	29	12	6	9	3		2	3	1	2	2						1			67198.0
1961								1	14	13	30	59	30	43	38	20	26	26	13	14	5	6	1	3	1	5	2	1		1	2					1		48446.0	
1962											3	20	15	21	61	39	42	40	53	27	7	11	4	4	6	4	2	4	2										76674.0
1963				4	4	11	31	27	31	61	59	44	29	12	11	8	8	1	9	3	3	1	2		3	1	1												21306.3
1964			4	14	10	8	11	60	75	30	27	27	24	19	12	13	12	8	3	3	3	2		1															13110.7
1965	1	2	2	5	5	12	9	57	22	16	21	22	12	20	25	20	13	18	16	15	12	4	9	6	5	4	3	1	6	1	1							65242.9	
1966								8	17	8		14	34	25	34	42	52	56	29	15	14	5	4	4	2	1	1												52177.0
1967			5	22	32	36	76	31	30	45	21	21	11	6	4	3	4	1	1	3		2	1																12273.5
1968				7	14	25	23	44	61	44	36	23	22	21	16	7	8	4	3	2	2	2			1														19030.5
1969						5	4	9	34	46	18	22	15	13	15	23	22	29	30	26	16	11	3	4	1	3	5	3	2	3	2					1		108353.0	
1970							1	22	47	37	35	58	28	52	24	16	13	13	4	5	3	2					1	1	1		1	1					1	1	39816.0
1971						12	24	11	6	10	22	23	36	43	38	44	33	26	10	10	3	1	2	2	1	2	2	1	3										44762.7



DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

SALT CREEK NEAR ELBERON, IOWA

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	9496	100.0	9	17.00	510	7152	75.3	18	140.0	423	1640	17.3	27	1300	35	120	1.2
1	2.40	37	9496	100.0	10	21.00	690	6642	69.9	19	180.0	347	1217	12.8	28	1600	20	85	.8
2	3.10	120	9459	99.6	11	27.00	716	5952	62.7	20	230.0	238	870	9.2	29	2000	28	65	.6
3	3.90	169	9339	98.3	12	34.00	655	5236	55.1	21	300.0	154	632	6.7	30	2600	15	37	.3
4	4.90	226	9170	96.6	13	43.00	662	4581	48.2	22	380.0	116	478	5.0	31	3300	7	22	.2
5	6.30	325	8944	94.2	14	55.00	602	3919	41.3	23	480.0	89	362	3.8	32	4200	9	15	.1
6	8.00	412	8619	90.8	15	70.00	658	3317	34.9	24	610.0	56	273	2.9	33	5400	4	6	.0
7	10.00	493	8207	86.4	16	89.00	486	2619	27.6	25	780.0	55	217	2.3	34	6800	2	2	.0
8	13.00	592	7744	81.6	17	110.00	493	2133	22.5	26	990.0	42	162	1.7					



STATION NUMBER 05452200

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

WALNUT CREEK NEAR HARTWICK, ICWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1951	0.10 6	0.10 5	0.10 5	0.10 4	0.11 4	0.35 4	0.40 4	0.48 4	1.11 3	30.40 8
1952	2.70 16	2.97 16	3.39 18	3.94 18	4.46 17	8.42 18	11.70 18	18.20 19	22.40 16	62.70 18
1953	0.20 8	0.27 8	0.57 8	0.72 9	0.82 9	1.01 5	1.67 8	2.92 9	3.99 8	32.90 10
1954	0.10 7	0.10 6	0.10 6	0.10 5	0.10 3	0.15 3	0.33 3	0.36 3	0.36 1	15.40 5
1955	0.00 1	0.00 1	0.04 4	0.31 7	0.61 7	1.31 8	9.39 17	10.90 16	23.80 17	26.00 7
1956	0.00 2	0.00 2	0.00 1	0.00 1	0.00 1	0.04 2	0.08 1	0.14 1	0.61 2	8.98 3
1957	0.00 3	0.00 3	0.00 2	0.00 2	0.00 2	0.01 1	0.15 2	0.27 2	3.24 6	5.82 1
1958	0.00 4	0.00 4	0.00 3	0.01 3	0.22 5	1.05 6	1.50 5	1.53 5	2.29 5	9.41 4
1959	1.30 13	1.57 13	1.81 12	2.06 13	2.67 12	4.96 14	6.86 13	10.70 15	28.40 18	53.60 15
1960	2.90 17	3.00 17	3.09 16	3.25 15	3.79 14	6.56 17	8.60 16	11.80 17	28.40 19	74.90 21
1961	1.20 11	1.20 11	1.20 11	1.29 11	1.79 11	2.73 11	4.04 10	7.13 11	6.63 10	58.90 16
1962	3.00 13	3.00 18	3.14 17	3.70 17	4.46 18	12.60 19	12.40 19	16.40 18	20.40 15	46.30 14
1963	2.60 15	2.70 15	2.83 15	3.49 16	3.89 15	3.97 13	4.91 12	6.24 10	9.31 11	37.40 11
1964	0.60 10	0.60 10	0.60 9	0.61 8	0.73 8	1.37 9	1.53 6	1.60 6	2.08 4	8.81 2
1965	1.30 12	1.43 12	1.91 13	2.04 12	3.21 13	3.80 12	4.43 11	7.73 12	10.20 13	38.90 12
1966	3.00 19	3.50 19	3.99 19	4.36 19	6.27 20	21.90 21	35.60 21	41.30 21	47.70 20	60.40 17
1967	0.10 5	0.11 7	0.16 7	0.19 6	0.33 6	1.20 7	1.53 7	1.89 7	5.16 9	38.90 13
1968	1.90 14	2.23 14	2.57 14	2.99 14	4.42 16	5.54 15	8.50 15	8.19 13	9.83 12	17.20 6
1969	0.45 9	0.51 9	0.77 10	1.20 10	1.51 10	1.67 10	2.16 9	2.43 8	3.65 7	30.70 9
1970	4.80 21	4.80 21	4.84 21	4.94 20	5.15 19	6.51 16	7.96 14	5.89 14	11.90 14	67.00 19
1971	4.10 20	4.30 20	4.83 20	5.48 21	8.67 21	14.10 20	29.90 20	33.50 20	56.00 21	69.40 20



STATION NUMBER 05452200

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

WALNUT CREEK NEAR HARTWICK, IOWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1950	1700.0 3	853.0 6	570.0 4	299.0 8	159.0 11	93.9 12	65.9 14	82.9 10	61.6 10	32.3 12
1951	615.0 17	378.0 18	240.0 15	185.0 13	125.0 12	108.0 10	106.0 7	101.0 6	85.8 6	44.9 9
1952	1110.0 11	658.0 12	391.0 11	260.0 11	182.0 9	123.0 8	106.0 8	95.3 7	83.6 7	50.6 7
1953	1200.0 8	432.0 16	201.0 18	156.0 16	89.8 17	76.7 14	67.0 13	66.0 13	54.3 13	28.5 13
1954	718.0 16	497.0 14	232.0 16	115.0 15	60.0 20	39.3 20	31.8 20	27.7 20	23.8 20	12.3 20
1955	600.0 18	383.0 17	201.0 17	118.0 18	70.9 19	46.9 19	50.1 16	41.0 16	30.6 16	22.3 15
1956	448.0 20	239.0 19	134.0 20	73.3 21	38.6 22	22.1 22	15.0 22	11.6 22	8.6 22	4.8 22
1957	257.0 22	144.0 22	73.6 22	50.1 22	38.7 21	30.0 21	23.9 21	15.2 21	13.9 21	8.3 21
1958	1750.0 2	1010.0 2	591.0 3	302.0 7	159.0 10	97.0 11	77.9 12	64.9 14	45.1 14	25.6 14
1959	1500.0 6	964.0 3	542.0 6	388.0 2	270.0 3	155.0 3	180.0 1	149.0 3	111.0 3	61.5 3
1960	2410.0 1	1430.0 1	867.0 1	484.0 1	288.0 2	226.0 1	172.0 2	158.0 1	130.0 2	78.6 1
1961	1400.0 7	821.0 7	443.0 9	329.0 6	233.0 4	143.0 6	104.0 5	85.3 9	61.6 11	36.0 11
1962	1000.0 12	689.0 11	553.0 5	350.0 4	225.0 5	136.0 7	109.0 6	94.1 8	86.6 5	60.2 5
1963	450.0 19	277.0 20	194.0 19	163.0 15	102.0 15	62.3 16	51.4 15	43.6 15	32.9 15	19.7 16
1964	767.0 15	456.0 15	250.0 14	150.0 17	110.0 14	62.8 15	47.0 17	35.0 17	28.6 17	15.5 19
1965	977.0 14	728.0 5	497.0 8	282.0 5	203.0 8	150.0 5	133.0 4	114.0 4	95.7 4	61.3 4
1966	979.0 13	730.0 8	425.0 10	260.0 10	210.0 6	159.0 4	121.0 5	102.0 5	83.0 8	58.2 6
1967	1120.0 10	563.0 13	285.0 13	168.0 14	92.8 16	54.5 17	40.3 19	33.2 18	27.3 18	16.4 17
1968	263.0 21	165.0 21	126.0 21	94.5 20	82.1 18	53.4 18	40.6 18	32.7 19	25.6 19	16.0 18
1969	1520.0 4	872.0 4	591.0 2	333.0 5	298.0 1	226.0 2	171.0 3	152.0 2	131.0 1	72.3 2
1970	1500.0 5	704.0 10	333.0 12	188.0 12	114.0 13	87.6 13	84.5 11	71.6 12	59.1 12	42.8 10
1971	1190.0 9	867.0 5	501.0 7	364.0 3	209.0 7	119.0 9	88.5 10	78.5 11	82.2 9	50.2 8



STATION NUMBER 05452200

DUPATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

WALNUT CREEK NEAR FARTWICK, ICWA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34			
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS			
1950		12	9	3	6	9	17	31	45	16	40	36	32	18	14	25	12	5	8	7	5	2	4	1	2		2		2	1	1							
1951	32	42	31	5	5	3	2	3	1	4	4	12	25	19	13	14	7	24	31	28	21	13	10	5	4	5	2											
1952							4	15	10	18	13	12	9	9	24	55	23	42	40	28	20	28	5	4	2	3	1			1								
1953	18	8	8	2	14	38	6	21	17	11	20	18	15	20	11	13	28	32	24	10	12	7	4	5	2						1							
1954	5	59	35	37	11	12	30	18	20	16	18	24	15	13	8	9	8	6	2	7	1	3	3			1	1	1		2								
1955	23	7	3	3	2	2	5	7	10	5	12	9	27	52	30	37	48	22	16	14	9	6	5	1	2	1	1	1										
1956	94	67	41	32	9	6	11	15	8	8	25	15	6	4	3	7	5	3		2	2	1					2											
1957	63	50	19	43	11	10	22	9	21	11	12	14	14	9	11	8	13	7	7		1	2	3	3	2													
1958				22	10	10	18	20	31	31	32	21	43	31	20	13	17	10	7	9	2	3	5	2			2	1	2	2				1				
1959											33	24	57	41	15	20	25	18	12	22	21	20	18	10	8	5	3	5	2	1	1							
1960											11	19	25	18	11	10	28	28	65	47	27	28	21	9	5	2	4		4	2					2			
1961								13	9	4	55	35	26	34	26	31	35	20	24	15	14	8	3	5	1	1	2		2						2			
1962															20	17	72	63	59	50	25	23	15	5	4	2	5	3	1	1								
1963											20	13	45	39	35	59	35	19	37	21	10	5	8	7	3	4	4		1									
1964							23	15	19	34	48	37	39	25	31	23	17	11	9	11	7	4	3	5														
1965							2	8	16	29	29	22	32	21	18	37	24	28	24	11	16	12	10	5	7	6	1	5	2									
1966										1	10	17	6	4	5	7	43	68	73	36	39	19	11	11	8	1	2	1	1	2								
1967	14	10	4	2	3	4	12	26	43	25	37	35	40	30	23	15	8	10	4	6	3	1	1	2	1	1												
1968							5	21	27	37	46	39	48	31	24	27	15	13	16	6	5	2	3	1														
1969				3	1	1	7	13	42	10	7	13	11	11	18	21	18	19	33	29	24	24	17	13	12	6	5	1	1	3	2							
1970											22	33	38	43	50	26	35	25	34	27	15	6	3	2	1	1	1											
1971							3	21	13	3	10	5	8	1	20	26	48	59	42	42	20	16	14	3	4			2	1	1	3							

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	190	8035	100.0	9	2.10	309	6407	79.7	18	32.0	540	2126	26.5	27	450	21	75	.9
1	0.10	247	7345	97.6	10	2.80	451	6058	75.9	19	43.0	466	1586	19.7	28	670	22	54	.6
2	0.20	170	7556	94.6	11	3.80	485	5647	70.3	20	59.0	320	1120	13.9	29	900	20	32	.3
3	0.30	192	7428	92.4	12	5.20	505	5162	64.2	21	79.0	260	800	10.0	30	1200	8	12	.1
4	0.50	56	7236	90.1	13	7.00	547	4657	58.0	22	110.0	154	540	6.7	31	1700	2	4	.0
5	0.60	92	7180	89.4	14	9.50	440	4110	51.2	23	150.0	106	346	4.3	32	2200	2	2	.0
6	0.80	165	7086	88.2	15	13.00	415	2670	45.7	24	200.0	79	240	3.0	33				
7	1.10	183	6923	86.2	16	17.00	620	3251	40.5	25	270.0	40	161	2.0	34				
8	1.50	333	6740	83.9	17	24.00	505	2631	32.7	26	360.0	46	121	1.5					



STATION\_NUMBER 5-4525.00

...LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

IOWA RIVER NEAR BELLE PLAINE, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1941	54.0 4	55.0 5	57.0 5	64.4 5	94.0 7	138.0 7	205.0 9	241.0 8	237.0 8	411.0 3
1942	85.0 8	86.3 8	89.4 8	94.1 8	106.0 8	207.0 13	405.0 15	590.0 16	662.0 15	1210.0 12
1943	350.0 19	350.0 19	351.0 18	369.0 18	445.0 18	498.0 18	593.0 17	681.0 17	932.0 18	1620.0 15
1944	190.0 16	190.0 16	191.0 15	196.0 15	205.0 14	305.0 15	376.0 14	395.0 14	562.0 13	1260.0 13
1945	175.0 15	177.0 15	181.0 14	183.0 14	192.0 13	201.0 12	242.0 11	279.0 11	396.0 11	2150.0 17
1946	160.0 13	163.0 13	169.0 13	180.0 13	234.0 15	301.0 14	317.0 13	357.0 13	600.0 14	1520.0 16
1947	240.0 17	247.0 17	276.0 17	320.0 17	413.0 17	465.0 17	622.0 18	757.0 18	869.0 16	1130.0 10
1948	100.0 9	100.0 9	101.0 9	105.0 9	127.0 10	198.0 11	272.0 12	300.0 12	276.0 10	2650.0 19
1949	69.0 7	69.7 7	71.1 7	78.3 7	84.9 6	89.3 6	101.0 6	112.0 5	165.0 5	788.0 7
1950	54.0 5	54.0 4	55.7 4	61.4 4	74.3 4	78.8 4	82.6 4	84.9 4	95.4 3	640.0 6
1951	64.0 6	64.3 6	65.3 6	68.0 6	79.5 5	82.4 5	93.3 5	125.0 6	181.0 6	994.0 8
1952	300.0 16	327.0 18	377.0 19	435.0 19	464.0 19	634.0 19	785.0 19	801.0 19	1030.0 19	2420.0 16
1953	116.0 12	117.0 12	120.0 12	125.0 11	136.0 11	140.0 8	152.0 7	151.0 7	207.0 7	1050.0 9
1954	41.0 2	41.0 2	41.4 2	42.4 2	45.2 2	57.6 2	76.6 2	79.2 3	93.0 2	563.0 4
1955	162.0 14	169.0 14	226.0 16	245.0 16	267.0 16	353.0 16	409.0 16	564.0 15	906.0 17	1280.0 14
1956	35.0 1	35.0 1	35.4 1	36.4 1	39.7 1	43.9 1	47.0 1	57.1 1	76.5 1	253.0 2
1957	50.0 3	52.0 3	54.1 3	58.4 3	66.9 3	76.6 3	78.1 3	78.8 2	147.0 4	219.0 1
1958	110.0 10	110.0 10	112.0 10	138.0 12	164.0 12	194.0 10	227.0 10	257.0 10	274.0 9	625.0 5
1959	110.0 11	110.0 11	112.0 11	116.0 10	119.0 9	151.0 9	186.0 8	251.0 9	448.0 12	1160.0 11



STATION\_NUMBER 5-4525.00

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

IOWA RIVER NEAR BELLE PLAINE, IOWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1940	1920.0 20	1790.0 19	1350.0 19	1000.0 19	795.0 19	597.0 19	491.0 19	421.0 19	393.0 19	237.0 15
1941	3300.0 17	2860.0 18	2150.0 18	1690.0 18	1500.0 18	1140.0 18	980.0 18	1000.0 17	872.0 18	551.0 17
1942	9020.0 11	8150.0 12	6650.0 12	5250.0 11	3850.0 11	2860.0 9	2560.0 9	2330.0 10	2100.0 9	1860.0 4
1943	5460.0 16	4870.0 16	4450.0 14	3320.0 13	2710.0 13	2490.0 13	2290.0 12	2340.0 9	2160.0 7	1530.0 6
1944	25800.0 2	22600.0 2	17000.0 2	12200.0 2	9590.0 2	6930.0 2	5590.0 2	4740.0 2	3520.0 3	2000.0 3
1945	8690.0 12	8170.0 11	6820.0 11	5560.0 9	4410.0 8	3980.0 4	4040.0 4	3670.0 4	2840.0 4	1620.0 5
1946	18000.0 4	15000.0 4	11100.0 4	5940.0 6	3710.0 12	2810.0 10	2970.0 6	2480.0 8	2220.0 6	1410.0 6
1947	31300.0 1	27400.0 1	20300.0 1	17600.0 1	15000.0 1	9650.0 1	7390.0 1	6290.0 1	4560.0 1	2630.0 1
1948	14100.0 6	12600.0 6	10200.0 5	7090.0 5	5160.0 5	3430.0 7	2770.0 8	2200.0 11	1570.0 12	505.0 11
1949	10000.0 9	9210.0 9	7060.0 10	4860.0 12	3880.0 10	2770.0 11	2030.0 13	1700.0 14	1300.0 14	715.0 15
1950	16000.0 5	13300.0 5	9710.0 6	5550.0 10	4080.0 9	2560.0 12	2300.0 11	2510.0 7	1810.0 10	976.0 10
1951	19200.0 3	15400.0 3	11500.0 3	9280.0 3	7020.0 3	5250.0 3	4870.0 3	4660.0 3	3660.0 2	2060.0 2
1952	9620.0 10	9040.0 10	7550.0 8	5680.0 8	4860.0 6	3480.0 6	2880.0 7	2630.0 5	2320.0 5	1450.0 7
1953	6000.0 15	5110.0 15	4080.0 15	2650.0 16	2110.0 16	1810.0 16	1740.0 14	1720.0 13	1460.0 13	825.0 13
1954	10100.0 8	9480.0 8	7340.0 9	5900.0 7	4650.0 7	2920.0 8	2400.0 10	2120.0 12	1620.0 11	864.0 12
1955	3280.0 18	3010.0 17	2670.0 17	2300.0 17	1860.0 17	1330.0 17	1130.0 17	970.0 18	932.0 16	656.0 16
1956	2320.0 19	1400.0 20	869.0 20	578.0 20	426.0 20	384.0 20	346.0 20	304.0 20	288.0 20	195.0 20
1957	6580.0 13	6040.0 13	4570.0 13	2800.0 15	2390.0 14	1880.0 14	1520.0 16	1250.0 16	900.0 17	534.0 18
1958	6520.0 14	5480.0 14	3970.0 16	2810.0 14	2140.0 15	1830.0 15	1710.0 15	1520.0 15	1190.0 15	774.0 14
1959	12600.0 7	11400.0 7	9540.0 7	8200.0 4	5500.0 4	3690.0 5	3210.0 5	2830.0 5	2100.0 8	1150.0 9



DURATION TABLE OF DAILY DISCHARGE

IOWA RIVER NEAR BELLE PLAINE, IOWA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	CFS_DAYS		
YEAR	NUMBER OF DAYS IN CLASS																																	CFS_DAYS				
1940	5	34	10	7	10	22	74	15	12	30	14	21	25	25	16	22	14	6			2	2													86598.0			
1941							4	25	35	17	24	29	25	39	23	26	23	41	16	11	19	5	2	1												215638.0		
1942															1	7	19	60	47	57	74	41	22	15	14	5	1	2								677225.0		
1943															18	26	27	38	50	32	31	61	35	19	12	14	2								559093.0			
1944										28	9	14	26	50	39	21	24	10	18	25	18	26	19	9	5	6	7	4	3	3			2		733326.0			
1945										2	52	14	4	61	41	10	14	9	10	10	21	20	25	30	20	16	3	3							593001.0			
1946											6	14	10	28	31	28	32	32	34	37	27	27	13	13	10	10	5	3	1		3	1			515785.0			
1947												13	19	14	31	12	36	30	27	11	35	35	18	18	7	10	12	7	8	2	9	4	4	2	1	561231.0		
1948								14	26	23	35	23	21	25	50	32	17	15	11	14	20	12	6	2	3	2	4	2	5	2	2				331405.0			
1949									16	31	38	44	19	13	36	15	28	17	17	8	15	14	10	10	8	7	11	3	1	1	2	1			262358.0			
1950									10	23	60	34	20	15	14	14	9	14	17	13	15	18	10	13	16	18	8	4	8	3	1	4	2	1	1	356334.0		
1951											11	46	19	4	18	9	12	6	12	4	7	18	20	19	16	22	20	18	17	20	17	15	10	2	1	1	1	751921.0
1952												12	9	16	9	12	26	15	31	35	35	51	35	30	21	9	11	3	3	3						545196.0		
1953												6	7	61	56	16	10	8	12	16	10	15	27	29	31	29	21	4	2	3	2					302715.0		
1954									17	14	19	44	24	26	16	16	10	16	26	25	17	17	11	7	9	9	5	6	6	11	5	5	3	1		315521.0		
1955										3	6	15	12	6	14	14	28	23	27	45	29	40	35	18	17	17	9	5	2							254868.0		
1956																																				71201.0		
1957																																				194779.0		
1958																																				282616.0		
1959																																				435160.0		

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	7305	100.0	9	110.00	321	6324	86.6	19	840.0	487	2775	38.0	27	6300	54	163	2.2
1	19.00	5	7305	100.0	10	140.00	311	6003	82.2	19	1100.0	357	2288	31.3	28	7800	52	105	1.4
2	24.00	34	7300	99.0	11	180.00	373	5692	77.9	20	1300.0	402	1931	26.4	29	9800	17	57	.7
3	30.00	17	7266	99.5	12	220.00	421	5319	72.8	21	1600.0	447	1529	20.9	30	12000	20	40	.5
4	37.00	54	7249	99.2	13	280.00	355	4898	67.0	22	2100.0	299	1082	14.8	31	15000	10	20	.2
5	46.00	100	7195	98.5	14	340.00	503	4543	62.2	23	2600.0	214	783	10.7	32	19000	5	10	.1
6	58.00	141	7095	97.1	15	430.00	467	4040	55.3	24	3200.0	168	569	7.8	33	24000	4	5	.0
7	72.00	383	6954	95.2	16	540.00	385	3573	48.9	25	4000.0	151	401	5.5	34	30000	1	1	.0
8	90.00	247	6571	90.0	17	670.00	413	3188	43.6	26	5000.0	87	250	3.4					



STATION NUMBER 05453000

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

BIG PEAR CREEK AT LADORA, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1947	15.00 23	22.70 25	24.00 25	29.60 25	37.60 24	44.60 22	81.40 24	102.00 24	125.00 23	156.00 19
1948	1.00 5	1.00 5	1.29 5	1.64 6	2.10 6	7.72 13	14.50 15	17.10 14	15.00 10	213.00 24
1949	2.70 13	2.77 13	2.89 13	3.80 13	5.12 12	6.03 9	6.51 7	8.63 8	27.70 16	92.40 13
1950	2.00 8	2.00 8	2.07 8	2.29 7	3.19 8	6.02 8	7.36 10	6.52 6	8.82 6	65.40 8
1951	0.60 4	0.60 4	0.60 3	0.61 3	0.66 3	0.99 3	1.95 3	2.70 3	3.87 3	79.70 10
1952	15.00 24	16.00 23	16.90 23	18.00 23	19.70 22	28.20 21	39.60 21	65.90 22	73.60 20	174.00 20
1953	3.60 14	3.70 14	3.90 14	4.12 14	4.42 10	4.47 6	5.89 6	8.66 9	12.40 9	84.50 12
1954	1.30 6	1.30 6	1.30 6	1.30 5	1.36 5	2.38 5	3.11 5	3.09 4	3.85 2	67.50 9
1955	2.40 11	2.43 11	2.64 11	2.81 8	5.29 13	7.76 14	20.50 17	22.30 17	43.70 17	48.90 6
1956	0.00 1	0.00 1	0.00 1	0.00 1	0.06 1	0.17 1	0.23 1	0.66 1	1.75 1	19.90 2
1957	0.10 2	0.10 2	0.10 2	0.15 2	0.25 2	0.59 2	1.09 2	1.05 2	4.61 4	9.87 1
1958	1.50 7	1.63 7	1.79 7	3.46 11	4.17 9	7.28 12	9.61 12	11.40 12	10.80 8	34.80 4
1959	7.40 18	7.67 18	8.97 18	11.60 19	14.60 19	20.30 18	24.70 18	33.40 19	69.40 19	126.00 16
1960	5.10 16	5.70 16	6.11 16	6.93 16	8.88 16	21.60 20	26.00 19	40.60 20	73.70 21	214.00 25
1961	5.00 15	5.00 15	5.03 15	5.42 15	7.17 15	8.93 15	11.90 13	19.10 15	19.30 14	174.00 21
1962	12.00 21	13.00 21	14.60 21	16.40 22	20.00 23	51.70 23	47.70 22	53.70 21	74.90 22	148.00 17
1963	10.00 19	10.00 19	10.00 19	10.30 18	11.70 18	12.30 17	16.20 16	19.70 16	26.50 15	100.00 14
1964	0.60 3	0.60 3	0.66 4	0.68 4	0.87 4	1.37 4	2.79 4	5.47 5	7.03 5	25.90 3
1965	2.30 10	2.40 10	2.61 9	3.26 10	4.76 11	6.77 10	6.89 9	9.96 11	15.30 11	83.60 11
1966	10.00 20	11.00 20	11.60 20	11.90 20	17.30 21	60.10 25	79.10 23	86.50 23	127.00 24	154.00 18
1967	2.70 12	2.73 12	2.83 12	2.91 9	3.00 7	5.87 7	6.74 8	7.59 7	15.80 12	102.00 15
1968	6.50 17	6.70 17	7.10 17	7.70 17	9.60 17	10.30 16	14.50 14	14.60 13	18.90 13	46.00 5
1969	2.20 9	2.33 9	2.64 10	3.76 12	6.23 14	6.90 11	9.37 11	9.38 10	10.70 7	57.70 7
1970	15.00 22	15.00 22	15.00 22	15.40 21	16.10 20	21.50 19	26.80 20	32.60 18	44.20 18	189.00 22
1971	16.00 25	16.30 24	19.00 24	24.40 24	45.70 25	57.10 24	88.80 25	111.00 25	158.00 25	198.00 23



STATION NUMBER 05453000

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

BIG BEAR CREEK AT LADORA, ICWA

YEAR	1	2	7	15	30	60	90	120	183	ANNUAL
1946	7780.0 2	3660.0 2	1620.0 5	784.0 10	411.0 12	319.0 10	277.0 9	274.0 7	256.0 5	162.0 5
1947	5800.0 3	2560.0 4	1860.0 2	1440.0 2	1140.0 1	715.0 2	621.0 1	532.0 1	389.0 2	244.0 1
1948	2010.0 17	1410.0 15	923.0 14	518.0 15	384.0 14	226.0 17	200.0 16	161.0 17	128.0 17	70.9 17
1949	2100.0 16	1710.0 13	1200.0 10	833.0 8	495.0 10	312.0 11	239.0 14	204.0 16	157.0 16	85.9 16
1950	4640.0 4	2530.0 5	1480.0 6	840.0 7	449.0 11	255.0 15	182.0 17	231.0 11	171.0 14	90.2 15
1951	1720.0 21	873.0 20	550.0 20	436.0 18	353.0 16	312.0 12	300.0 6	288.0 5	237.0 7	124.0 11
1952	1830.0 18	1270.0 17	791.0 17	533.0 14	393.0 13	281.0 13	256.0 12	232.0 10	206.0 11	133.0 10
1953	2600.0 14	1090.0 18	648.0 18	409.0 19	354.0 15	278.0 14	231.0 15	218.0 14	185.0 12	98.1 14
1954	1770.0 19	855.0 21	413.0 21	193.0 24	103.0 25	66.0 25	59.7 25	51.6 25	43.7 25	24.4 25
1955	1000.0 23	583.0 24	328.0 24	216.0 23	135.0 23	94.1 24	107.0 21	89.1 21	66.2 21	45.5 21
1956	533.0 25	247.0 26	112.0 26	82.1 26	64.0 26	36.6 26	25.5 26	19.7 26	15.4 26	8.3 26
1957	1610.0 22	846.0 22	402.0 23	228.0 22	147.0 22	108.0 22	91.7 22	72.1 22	49.7 24	27.9 24
1958	4260.0 5	2400.0 6	1230.0 9	650.0 13	350.0 17	220.0 18	173.0 18	152.0 18	109.0 18	64.4 18
1959	3730.0 7	2230.0 7	1290.0 8	944.0 5	645.0 5	448.0 4	420.0 4	358.0 4	272.0 4	154.0 6
1960	9480.0 1	6160.0 1	3770.0 1	2020.0 1	1130.0 2	802.0 1	603.0 2	507.0 2	414.0 1	244.0 2
1961	3140.0 10	1690.0 11	1030.0 13	817.0 9	561.0 7	361.0 8	270.0 10	221.0 13	166.0 15	100.0 13
1962	2900.0 11	2040.0 9	1680.0 3	1100.0 3	679.0 4	406.0 6	328.0 5	276.0 6	244.0 6	179.0 4
1963	939.0 24	640.0 23	413.0 22	347.0 20	240.0 20	154.0 20	132.0 19	112.0 19	86.1 20	53.2 19
1964	1760.0 20	984.0 19	553.0 19	321.0 21	196.0 21	109.0 21	84.8 23	69.8 23	51.8 22	29.7 23
1965	2300.0 15	1820.0 12	1170.0 11	763.0 11	509.0 9	385.0 7	327.0 6	273.0 8	223.0 9	149.0 8
1966	3490.0 9	1960.0 10	1100.0 12	669.0 12	546.0 8	413.0 5	305.0 7	269.0 9	222.0 10	150.0 7
1967	2640.0 13	1300.0 16	796.0 16	471.0 16	268.0 19	156.0 19	115.0 20	106.0 20	86.2 19	50.3 20
1968	452.0 26	317.0 25	237.0 25	176.0 25	134.0 24	94.3 23	76.7 24	64.7 24	51.7 23	32.6 22
1969	3500.0 8	2190.0 8	1630.0 4	906.0 6	789.0 3	574.0 3	453.0 3	405.0 3	326.0 3	183.0 3
1970	2000.0 12	1660.0 14	852.0 15	465.0 17	303.0 18	233.0 16	240.0 13	207.0 15	177.0 13	122.0 12
1971	4100.0 6	2670.0 3	1440.0 7	1040.0 4	632.0 6	354.0 9	259.0 11	225.0 12	235.0 8	148.0 9



STATION NUMBER 0545300C

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

HIG BEAR CREEK AT LADORA, IOWA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	CFS_DAYS		
YEAR	NUMBER OF DAYS IN CLASS																																	CFS_DAYS				
1946												4	15	19	16	44	65	47	30	19	24	31	18	14	9	3	3	1	2					1	59067.0			
1947											4	5	8	10	12	7	13	11	35	50	45	48	31	21	25	20	4	9	3	1	1	1	1		89165.0			
1948						5		20			26	6	41	16	24	52	52	33	21	23	14	9	4	7	4	1	2	3	2	1					25957.0			
1949										13	31	43	17	14	14	21	42	50	27	24	21	16	10	5	4	4	3	3	2	1					31370.1			
1950									6	20	17	45	48	28	26	32	38	36	19	11	9	5	7	3	4	3		3	1	1	1	2			32907.3			
1951						37	13	10	9	8	26	18	4	4	4	25	30	16	8	10	17	32	40	28	11	6	4	3	2						45343.9			
1952										2	15	9	11	12	23	10	24	42	39	50	48	37	25	7	6	3	2	1								48739.0		
1953										4	25	42	35	28	23	20	13	13	15	29	39	37	22	7	3	3	3	1	1	2						35793.3		
1954								26	12	48	52	52	44	39	29	17	10	6	8	4	5	5	3	1	1	2			1							8889.5		
1955					1	10	7	3	9	19	13	9	11	9	35	54	35	35	46	26	19	8	6	1	2	2		1								16614.9		
1956	18	13	26	35	18	24	16	9	47	42	23	26	28	12	6	5	2	7	3	1	2			1	1	1										3022.8		
1957		8	1	3	3	16	41	16	32	20	6	35	37	33	35	18	14	12	12	7	2	3	6	1			2	1	1							10177.6		
1958											18	26	23	37	44	42	63	35	30	16	7	5	7	1	3	3	2	1	1					1			23505.2	
1959												1	16	10	28	15	77	35	28	27	20	24	27	25	9	10	4	4	4					1			56157.5	
1960													3	25	17	25	16	22	50	57	45	39	30	15	4	5	4	4	1	2	3	2		1			89332.0	
1961												11	19	28	53	27	41	35	40	22	33	13	24	3	3	6	2	1	1	2	1						36666.0	
1962														2	22	14	42	92	64	46	36	18	8	5	6	5	3	1	1								65247.0	
1963													2	51	54	45	76	30	36	28	16	9	9	3	2	1	3										19433.8	
1964					14	11	12	12	18	7	16	27	55	60	39	30	22	17	10	6	3	3	1	1		1		1									10863.2	
1965										7	15	8	43	31	11	12	28	28	38	38	25	14	17	6	14	11	8	5	4	2							54483.3	
1966													21	10	5	10	7	38	116	46	36	36	17	9	5	4	1	3					1				54730.1	
1967										14	17	16	44	48	29	45	45	39	27	10	9	4	3	5	5	2	2						1				18375.2	
1968											9	14	45	42	77	43	35	30	23	24	10	6	6		2													11915.6
1969										5	4	33	40	15	14	6	6	9	30	31	39	42	31	17	17	11	4	3	4	1	3						66855.8	
1970													23	24	45	68	39	34	34	41	31	10	6	2	3	2	1	2										44484.0
1971													1	14	20	14	7	13	36	64	49	45	38	20	17	9	5	4		1	1	2	1				53919.2	



DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

BIG BEAR CREEK AT LADORA, ICWA

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	18	9496	100.0	9	2.20	218	8953	94.3	18	46.0	757	4044	42.6	27	1000	55	138	1.4
1	0.10	21	9478	99.8	10	3.00	295	8735	92.0	19	65.0	801	3287	34.6	28	1400	29	83	.8
2	0.20	27	9457	99.6	11	4.30	422	8440	88.9	20	92.0	657	2486	26.2	29	2000	20	44	.4
3	0.30	38	9430	99.3	12	6.00	559	8018	84.4	21	130.0	561	1829	19.3	30	2800	14	24	.2
4	0.40	22	9352	98.9	13	8.40	580	7459	78.5	22	180.0	486	1268	13.4	31	3900	7	10	.1
5	0.50	101	9370	98.7	14	12.00	685	6879	72.4	23	260.0	271	782	8.2	32	5500	2	3	.0
6	0.80	93	9269	97.6	15	17.00	619	6194	65.2	24	360.0	179	511	5.4	33	7800	1	1	.0
7	1.10	76	9176	96.6	16	23.00	819	5575	58.7	25	510.0	122	332	3.5	34				
8	1.50	147	9100	95.8	17	33.00	712	4756	50.1	26	710.0	72	210	2.2					



STATION NUMBER 0545310C

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

ICWA RIVER AT MARENGO, ICWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1958	120.00 4	120.00 4	124.00 4	149.00 6	178.00 5	209.00 6	243.00 5	278.00 4	296.00 4	692.00 3
1959	130.00 6	130.00 6	130.00 6	135.00 4	144.00 4	180.00 4	221.00 4	256.00 5	616.00 10	1430.00 7
1960	204.00 9	207.00 9	209.00 9	235.00 10	301.00 11	344.00 10	382.00 10	488.00 11	668.00 11	1540.00 8
1961	125.00 5	127.00 5	129.00 5	135.00 5	179.00 6	218.00 7	282.00 7	366.00 7	416.00 6	2260.00 12
1962	250.00 12	258.00 12	285.00 12	293.00 12	412.00 13	835.00 13	824.00 13	954.00 12	1100.00 12	1780.00 9
1963	160.00 8	180.00 8	184.00 8	196.00 8	242.00 9	266.00 8	326.00 8	392.00 8	617.00 9	2020.00 11
1964	74.00 1	74.30 1	75.40 1	76.50 1	83.30 1	117.00 1	145.00 1	160.00 1	184.00 1	650.00 2
1965	140.00 7	142.00 7	146.00 7	159.00 7	185.00 7	206.00 5	244.00 6	307.00 6	398.00 5	1070.00 4
1966	305.00 14	313.00 13	330.00 13	335.00 13	401.00 12	951.00 14	1250.00 14	1630.00 14	2210.00 14	2900.00 14
1967	84.00 2	85.00 2	89.40 2	94.60 2	102.00 2	132.00 2	146.00 2	160.00 2	221.00 2	1190.00 6
1968	90.00 3	90.00 3	92.90 3	105.00 3	137.00 3	179.00 3	218.00 3	211.00 3	228.00 3	609.00 1
1969	230.00 11	230.00 11	234.00 11	268.00 11	290.00 10	371.00 11	453.00 11	457.00 10	527.00 7	1070.00 5
1970	210.00 10	212.00 10	217.00 10	228.00 9	253.00 9	281.00 9	345.00 9	437.00 9	550.00 8	2630.00 13
1971	303.00 13	314.00 14	330.00 14	372.00 14	499.00 14	674.00 12	820.00 12	956.00 13	1210.00 13	1980.00 10



STATION NUMBER 0545310C

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

ICWA RIVER AT MARENGO, ICWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1957	6860.0 13	5910.0 13	4710.0 13	3030.0 13	2610.0 12	2030.0 13	1660.0 12	1350.0 12	983.0 13	584.0 13
1958	9540.0 10	8210.0 10	6100.0 10	3500.0 12	2510.0 13	2340.0 11	2110.0 11	1890.0 11	1450.0 11	932.0 11
1959	14000.0 5	12900.0 5	11800.0 5	10400.0 5	7040.0 5	4710.0 7	4150.0 5	3630.0 5	2650.0 5	1510.0 7
1960	29000.0 1	22600.0 2	19500.0 1	13100.0 3	8830.0 4	7420.0 2	5880.0 2	4710.0 3	3700.0 4	2220.0 4
1961	10200.0 9	9130.0 9	8020.0 8	7340.0 8	6060.0 7	4870.0 6	3840.0 6	3220.0 7	2460.0 8	1460.0 8
1962	14500.0 4	13600.0 4	13300.0 4	12000.0 4	9450.0 3	6150.0 4	5110.0 4	4400.0 4	3800.0 3	2630.0 2
1963	7000.0 12	6220.0 12	5440.0 12	4490.0 11	3570.0 11	2390.0 10	2270.0 10	1950.0 10	1640.0 10	1050.0 10
1964	5540.0 14	4650.0 14	3360.0 14	2260.0 14	1720.0 14	1380.0 14	1290.0 14	1150.0 14	956.0 14	570.0 14
1965	19300.0 3	19100.0 3	17500.0 3	15000.0 2	11100.0 2	7270.0 3	5660.0 3	4870.0 2	3820.0 2	2400.0 3
1966	11500.0 7	10500.0 7	9800.0 6	7390.0 7	5420.0 8	4260.0 8	3480.0 8	3200.0 8	2630.0 6	2140.0 5
1967	7100.0 11	6300.0 11	5960.0 11	5170.0 10	3610.0 10	2130.0 12	1560.0 13	1310.0 13	1020.0 12	621.0 12
1968	3080.0 15	2670.0 15	2310.0 15	1720.0 15	1500.0 15	1160.0 15	891.0 15	501.0 15	753.0 15	455.0 15
1969	25000.0 2	23000.0 1	18600.0 2	15100.0 1	11600.0 1	8300.0 1	6360.0 1	5970.0 1	5190.0 1	2920.0 1
1970	10300.0 8	9500.0 8	7650.0 9	5630.0 9	4050.0 9	2680.0 9	2540.0 9	2330.0 9	1850.0 9	1200.0 9
1971	13000.0 6	11700.0 6	8360.0 7	7580.0 6	6520.0 6	5090.0 5	3810.0 7	3290.0 6	2530.0 7	1790.0 6



STATION NUMBER 0545310C

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

IOWA RIVER AT MARENGO, IOWA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	CFS_DAYS	
YEAR	NUMBER OF DAYS IN CLASS																																			CFS_DAYS	
1957	20	27	47	10	10	5	11	28	40	43	13	5	5	16	19	19	10	8	4	7	3	1	2	9	1	1	1									212978.0	
1958						7	7	20	28	31	34	29	23	24	32	19	23	14	14	13	12	9	10	6	2	3	2	1	2								340285.0
1959						9	20	13	28	36	38	20	24	18	11	10	11	8	7	19	17	14	12	11	11	9	5	1	4	6	2	1				552561.0	
1960									10	12	29	20	35	29	32	36	27	11	14	23	11	9	8	14	10	11	7	2	4	6		5		1		812413.0	
1961						9	7	3	9	37	21	19	25	34	26	28	23	16	12	8	10	19	12	7	7	14	8	8	2	1						531686.0	
1962														23	33	42	39	29	39	37	30	12	20	10	10	6	12	8	6	8	1				959775.0		
1963								7	11	31	29	26	24	22	23	33	45	22	11	14	14	8	17	9	3	3	2	1								383062.0	
1964	11	12	10		8	3	62	59	19	14	8	16	18	16	28	26	24	11	14		3	1	1		2											208664.0	
1965						14	19	15	32	32	21	12	8	3	5	15	11	18	18	18	24	12	15	21	12	7	11	5	3	4	6	4				875571.0	
1966							8	5	10	5	4	9	14	11	9	16	35	17	45	54	45	23	16	7	11	4	10	3	4							782827.0	
1967		7	14	13	7	77	35	39	17	26	30	28	20	7	7	5	2	4	4	6	4		2	6	3	2										226590.0	
1968		4	6	5	19	43	23	55	45	40	24	23	17	14	12	5	10	8	5	4	3															181256.0	
1969							5	11	9	19	38	33	17	20	16	13	8	19	12	24	19	18	11	10	16	13	14	8	3	6	1	1	1			1064587.0	
1970							10	26	27	18	41	35	30	21	24	21	29	29	13	11	7	5	6	3	3	2	3	1								438384.0	
1971							19	8	12	7	5	18	21	22	15	29	44	24	38	28	16	7	15	5	6	12	9	1	2	2					653985.0		

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	5478	100.0	9	240.00	389	4621	84.4	18	1300.0	211	1757	32.1	27	6800	78	209	3.8
1	54.00	20	5478	100.0	10	290.00	343	4212	77.3	19	1500.0	286	1546	28.2	28	8200	44	131	2.3
2	65.00	38	5458	99.6	11	350.00	277	3889	71.0	20	1800.0	254	1260	23.0	29	5900	35	87	1.5
3	73.00	70	5420	98.9	12	420.00	309	3612	65.9	21	2200.0	227	1006	18.4	30	12000	25	52	.9
4	94.00	40	5350	97.7	13	500.00	313	3303	60.3	22	2700.0	149	779	14.2	31	14000	14	27	.4
5	110.00	61	5310	96.9	14	610.00	296	2985	54.5	23	3200.0	133	630	11.5	32	17000	10	13	.2
6	140.00	32	5249	95.8	15	730.00	293	2689	49.1	24	3900.0	108	457	9.1	33	21000	1	3	.0
7	160.00	262	5167	94.3	16	880.00	345	2396	43.7	25	4700.0	100	389	7.1	34	25000	2	2	.0
8	200.00	264	4885	89.2	17	1100.00	294	2051	37.4	26	5600.0	80	289	5.3					



STATION NUMBER 05454000

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

RAPID CREEK NEAR IOWA CITY, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1939	0.23 26	0.40 29	0.51 29	0.55 25	1.18 27	2.76 28	6.05 30	6.08 28	7.30 25	14.00 16
1940	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.26 14	0.45 14	0.60 12	0.78 10	8.36 9
1941	0.00 2	0.00 2	0.00 2	0.00 2	0.00 2	0.05 5	0.10 3	0.38 6	0.47 3	4.59 4
1942	0.00 3	0.00 3	0.00 3	0.00 3	0.12 17	1.28 21	4.07 27	11.20 32	10.50 29	15.00 18
1943	0.15 24	0.18 24	0.31 25	0.67 29	1.18 28	3.04 29	4.89 29	5.87 26	7.58 27	15.10 19
1944	0.25 27	0.30 27	0.44 28	0.60 27	0.77 22	1.17 20	1.80 20	1.82 18	3.97 20	18.40 25
1945	0.07 21	0.08 21	0.11 20	0.14 20	0.20 20	0.60 18	0.74 16	0.90 14	0.87 11	17.50 21
1946	0.00 4	0.00 4	0.00 4	0.00 4	0.07 14	0.51 16	1.32 17	1.36 16	1.93 14	12.50 13
1947	0.19 25	0.20 25	0.30 24	0.48 23	1.08 26	2.51 27	3.11 24	3.86 24	4.03 21	6.81 7
1948	0.00 5	0.00 5	0.00 5	0.00 5	0.04 10	0.08 6	0.18 6	0.38 7	0.55 5	19.20 27
1949	0.00 6	0.00 6	0.00 6	0.00 6	0.03 8	0.14 8	0.26 8	0.42 9	3.72 19	11.30 11
1950	0.00 7	0.00 7	0.00 7	0.01 15	0.04 11	0.28 15	0.31 10	1.39 17	1.22 12	13.40 15
1951	0.11 22	0.11 22	0.15 21	0.16 21	0.19 19	0.25 13	0.31 11	0.40 8	1.93 13	16.50 20
1952	0.30 29	0.34 28	0.40 26	0.56 26	1.00 25	1.48 22	2.54 23	3.72 22	5.10 23	18.00 24
1953	0.05 20	0.06 20	0.07 19	0.07 19	0.10 15	0.17 11	0.29 9	0.91 15	4.35 22	17.70 22
1954	0.00 8	0.00 8	0.00 8	0.00 7	0.00 3	0.00 1	0.04 2	0.09 2	0.13 2	7.72 8
1955	0.00 9	0.00 9	0.00 9	0.00 8	0.07 12	0.52 17	1.45 19	1.84 19	2.56 15	5.61 5
1956	0.00 10	0.00 10	0.00 10	0.00 9	0.00 4	0.00 2	0.00 1	0.00 1	0.00 1	4.05 3
1957	0.00 11	0.00 11	0.00 11	0.00 10	0.00 5	0.03 4	0.15 5	0.13 3	0.09 5	6.01 6
1958	0.00 12	0.00 12	0.00 12	0.00 11	0.00 6	0.00 3	0.38 12	0.61 13	0.58 7	2.26 1
1959	0.00 13	0.00 13	0.00 13	0.00 12	0.12 16	0.19 12	0.55 15	0.59 11	2.73 16	14.10 17
1960	0.00 14	0.00 14	0.00 14	0.00 13	0.17 18	2.43 26	3.69 26	3.83 23	7.35 26	17.80 23
1961	0.00 15	0.00 15	0.00 15	0.06 18	0.31 21	1.00 19	1.43 18	6.07 27	7.62 28	23.40 29
1962	0.40 30	0.47 30	0.57 30	0.75 30	1.53 32	5.11 31	6.11 31	7.83 29	14.10 30	28.00 33
1963	0.50 31	0.60 31	0.86 31	1.36 32	1.41 31	1.63 23	2.16 21	2.60 20	3.33 17	21.20 28
1964	0.00 15	0.00 16	0.00 16	0.03 16	0.03 9	0.13 7	0.41 13	0.44 10	0.51 4	3.09 2
1965	0.00 17	0.00 17	0.00 17	0.00 14	0.00 7	0.16 9	0.14 4	0.21 4	0.57 6	8.89 10
1966	0.00 18	0.03 19	0.16 22	0.47 22	0.79 23	2.21 25	3.54 25	11.30 33	15.10 31	23.60 30
1967	0.00 19	0.00 18	0.00 18	0.03 17	0.07 13	0.16 10	0.20 7	0.22 5	0.68 8	13.30 14
1968	0.27 28	0.29 26	0.40 27	0.49 24	1.26 29	7.97 33	8.41 33	8.80 31	17.50 33	19.00 26
1969	0.13 23	0.14 23	0.17 23	0.65 26	1.00 24	3.32 30	4.30 28	4.31 25	6.00 24	12.30 12
1970	1.00 32	1.07 32	1.14 32	1.31 31	1.36 30	1.67 24	2.17 22	2.76 21	3.46 18	26.50 31
1971	1.00 33	1.07 33	1.40 32	1.53 33	2.42 33	5.26 32	8.02 32	8.77 30	16.90 32	27.90 32



STATION NUMBER 0545400C

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

RAPID CREEK NEAR IOWA CITY, IOWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1938	540.0 13	250.0 17	119.0 23	98.3 17	59.3 19	33.8 23	28.7 20	24.8 18	19.0 22	12.2 19
1939	473.0 14	253.0 16	159.0 15	54.9 15	62.9 17	37.6 18	30.8 18	25.6 17	20.0 20	13.4 18
1940	164.0 29	97.7 30	77.1 26	53.9 27	37.2 26	23.5 26	16.8 29	13.5 30	9.0 30	4.8 30
1941	292.0 24	168.0 24	140.0 20	70.2 24	37.7 25	21.4 27	16.9 28	18.1 26	14.9 26	8.4 25
1942	348.0 21	167.0 25	87.7 26	73.4 23	46.2 24	29.8 25	22.9 24	21.4 24	19.4 21	14.8 15
1943	293.0 23	201.0 21	141.0 19	79.4 21	58.2 21	52.5 11	40.7 12	40.5 9	36.0 6	21.5 5
1944	303.0 8	435.0 7	262.0 5	154.0 3	94.5 5	70.4 4	58.1 5	50.0 3	40.3 4	20.8 7
1945	100.0 31	75.0 31	53.4 30	39.3 30	31.0 30	20.8 29	18.9 27	20.2 25	15.3 25	8.3 26
1946	1400.0 3	514.0 5	240.0 8	115.0 11	58.8 20	33.9 22	29.9 15	23.7 20	20.7 16	11.9 20
1947	280.0 25	118.0 28	98.0 24	67.4 25	50.2 23	42.9 15	39.5 13	37.8 12	26.6 14	14.8 16
1948	600.0 12	243.0 18	175.0 14	88.2 20	70.5 12	43.3 14	31.7 17	24.7 19	20.2 19	10.4 24
1949	500.0 15	273.0 15	155.0 16	113.0 12	65.7 14	41.8 17	32.3 16	26.7 15	20.3 18	11.0 23
1950	610.0 11	407.0 8	249.0 7	132.0 7	101.0 4	58.1 8	42.5 10	35.2 14	32.9 9	18.5 9
1951	500.0 16	383.0 10	186.0 12	134.0 6	71.2 11	58.4 7	47.1 8	41.4 7	32.7 10	17.1 12
1952	266.0 26	242.0 19	151.0 17	104.0 15	64.6 15	45.1 13	39.4 14	35.5 13	28.2 13	16.4 13
1953	1300.0 4	500.0 6	220.0 9	118.0 9	73.0 9	52.7 10	42.5 11	38.8 11	30.9 12	18.3 11
1954	83.0 32	35.3 33	24.4 33	15.6 33	9.4 33	8.1 33	6.3 33	5.0 33	4.0 33	2.1 33
1955	231.0 23	132.0 26	79.9 27	52.4 29	35.1 28	21.1 28	22.0 25	17.5 27	12.7 27	7.3 27
1956	346.0 22	205.0 20	90.5 25	55.3 26	36.3 27	32.1 24	21.5 26	16.4 28	11.2 28	6.0 29
1957	61.0 34	22.7 34	9.8 34	4.7 34	3.1 34	2.4 34	2.1 34	2.1 34	1.7 34	1.1 34
1958	150.0 30	101.0 29	52.7 31	27.9 31	15.6 31	9.1 32	6.9 32	6.9 32	5.0 32	3.0 32
1959	900.0 9	396.0 9	278.0 3	140.0 5	124.0 2	73.3 2	58.6 4	49.3 6	34.1 7	18.5 10
1960	500.0 17	313.0 13	203.0 10	113.0 13	75.5 8	64.1 5	55.8 3	51.0 5	41.7 3	26.0 3
1961	379.0 19	191.0 22	120.0 22	95.0 18	59.6 18	37.4 19	28.4 21	23.6 21	20.5 17	16.3 14
1962	1480.0 2	522.0 4	306.0 1	183.0 2	120.0 3	73.0 3	68.6 1	64.5 1	52.4 1	37.9 1
1963	350.0 20	132.0 27	65.3 29	53.2 28	34.8 29	20.5 30	16.5 30	13.6 29	10.8 29	6.6 28
1964	77.0 33	56.3 32	40.0 32	25.5 32	15.2 32	11.8 31	11.5 31	10.3 31	7.4 31	3.9 31
1965	1170.0 5	541.0 2	252.0 6	124.0 8	70.3 13	52.4 12	48.2 7	39.6 10	31.6 11	21.2 6
1966	631.0 10	278.0 14	141.0 18	103.0 16	71.7 10	58.0 9	45.7 5	40.7 8	33.4 8	20.3 8
1967	1500.0 1	540.0 3	300.0 2	149.0 4	76.8 7	42.2 16	33.2 15	26.6 16	20.9 15	11.4 21
1968	247.0 27	157.0 23	123.0 21	77.1 22	52.3 22	35.5 20	26.9 22	23.5 22	17.5 24	13.5 17
1969	1130.0 6	550.0 1	276.0 4	186.0 1	126.0 1	82.8 1	61.4 2	56.2 2	45.6 2	27.6 2
1970	959.0 7	370.0 12	196.0 11	108.0 14	90.6 6	61.6 6	51.9 6	52.5 4	38.3 5	25.0 4
1971	550.0 14	375.0 11	176.0 13	115.0 10	63.1 16	35.4 21	25.7 23	21.9 23	18.7 23	11.4 22



STATION NUMBER 05454000

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

RAPID CREEK NEAR IOWA CITY, ICWA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	CFS_DAYS	
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS		
1938							30	16	17			16	23	18	12	33	32	35	26	33	26	18	13	7	3	3	2								2	4445.8	
1939							1	2	3	5	28	10	15	21	47	48	53	41	28	18	11	10	9	6	3		3	2	1							4882.3	
1940	94	3	4	2	1	1	7	4	7	12	61	38	17	18	10	13	18	16	13	8	6	4	2	2	3	2									1774.9		
1941	53	7	6	5	4	3	8	7	14	7	18	25	24	32	37	23	25	12	13	20	6	5	2	1	1	2	2	3							3078.8		
1942							2	2	1	1	3	5	7	16	23	24	62	64	45	46	23	19	10	4	2	3	2	1								5414.4	
1943											9	20	13	28	55	39	44	30	31	24	19	20	10	11	5	5	2									7845.9	
1944					2	5	13	9	11	9	20	16	27	45	33	17	17	9	12	29	26	22	16	7	10	4	2	3	1			1			7629.0		
1945	16	2	5	2	2		4	5	9	41	32	32	25	15	10	15	25	33	27	20	15	7	8	8	4											3014.8	
1946				2			3	19	8	16	36	21	23	36	31	34	31	23	13	15	20	8	9	1	3	1	1							1		4327.7	
1947	4	1	11	2	5	1	12	2	10	4	13	21	13	16	32	45	27	20	19	28	21	21	17	9	6		4	1							5393.6		
1948	26	1	19	12	13	9	12	11	14	11	39	30	12	26	22	24	20	11	16	11	5	5	4	4	1	1		2	2	1					3801.6		
1949	20		4	21	14	6	24	19	9	8	25	12	11	28	22	27	17	25	10	18	13	9	6	7	2	5	2								3997.8		
1950		5	8	2	3		17	39	20	14	19	11	19	16	14	21	35	28	19	19	14	5	9	5	3	4	5	5	1	1						6746.2	
1951							28	27	29	15	32	18	5	14	17	9	13	21	18	37	33	14	9	11	9	1	1	1	2	1						6228.7	
1952			2	2	3	18	6	5	3	11	8	7	11	10	44	28	43	40	44	30	16	18	7	4	2	2	2									5999.8	
1953	14		5	7	8	5	12	8	26	2	6	1	6	11	29	31	27	31	35	34	24	13	10	6	4	5	2	2					1		6697.7		
1954	116	4	9	7	6	4	28	19	12	6	18	11	29	22	23	12	11	10	4	4	5	3	1		1											783.4	
1955	66						8	8	3	3	12	32	34	35	29	20	25	40	12	9	10	5	6	2	3	1	2									2678.6	
1956	215						28	21	6	6	16	10	7	9	8	8	9	4	4		2	1	1	1	5	1		4								2189.4	
1957	169						43	10	5	11	23	20	13	28	14	18	4	3	2		1		1	1												396.7	
1958	105						36	19	14	15	38	16	11	29	21	17	14	9	3	7	6		2		1	2										1104.8	
1959	24						59	15	15	17	22	17	13	21	15	14	12	22	19	20	19	14	8	2	6	2	2	3	2	1	1					6770.2	
1960	7						6	2	6	5	8	6	5	8	6	19	50	47	33	39	44	27	17	9	10	3	2	3	3	1						9509.3	
1961							9	1	5	22	10	15	25	35	35	43	35	31	32	24	13	6	9	4	2	1	3	2								5949.5	
1962														12	6	16	17	47	63	60	41	33	30	14	7	3	7	5	1			2	1			13820.4	
1963							22	13	8	7	17	13	30	44	56	58	28	26	12	14	7	3	2	1	1	2										2393.3	
1964	63						64	19	6	10	32	19	12	11	14	27	16	17	20	24	8	2		2													1429.8
1965	42						25	45	8	3	9	9	9	14	16	25	28	19	18	17	22	18	11	6	5	6	2		2						2	7747.5	
1966							32	10	1	1	2	3	3	4	3	37	55	51	26	41	30	25	16	12	5	3	2	1	1	1							7418.6
1967	7	1	3				1	46	31	26	13	39	26	13	19	22	18	20	16	14	21	8	4	6	6	2	1		1						1	4153.9	
1968							8	2	2	2	4	4	4	8	14	40	55	74	43	42	30	15	7	6	3	1	1	1									4944.2
1969														6	42	63	29	27	23	44	43	31	22	13	10	2	5	4							1	10073.8	
1970														2	27	41	35	53	22	20	17	34	33	34	19	13	6	1	2			4	1	1		9134.3	
1971						1	4	23	6	2	3	9	5	12	27	25	42	47	56	45	23	20	5	2	2	1		1	1	1	1					4165.5	



STATION NUMBER 05454000

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

RAPID CREEK NEAR ICWA CITY, ICWA

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	1040	12418	100.0	9	0.40	255	9782	78.8	18	9.4	760	3523	28.4	27	240	50	97	.7
1	0.01	26	11378	91.6	10	0.50	630	9527	76.7	19	13.0	835	2763	22.2	28	350	24	47	.3
2	0.02	74	11352	91.4	11	0.80	493	8897	71.6	20	19.0	642	1928	15.5	29	490	11	23	.1
3	0.04	64	11278	90.8	12	1.10	486	8404	67.7	21	28.0	423	1286	10.4	30	710	5	12	.0
4	0.06	61	11214	90.3	13	1.50	653	7918	63.8	22	40.0	313	863	6.9	31	1000	6	7	.0
5	0.08	42	11153	89.8	14	2.20	783	7225	58.2	23	57.0	189	550	4.4	32	1500	1	1	.0
6	0.10	623	11111	89.5	15	3.20	984	6442	51.9	24	82.0	139	361	2.9	33				
7	0.20	408	10488	84.5	16	4.60	961	5458	44.0	25	120.0	67	222	1.8	34				
8	0.30	298	10080	81.2	17	6.50	974	4497	36.2	26	170.0	58	155	1.2					



STATION NUMBER 054543CC

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

CLEAR CREEK NEAR CORALVILLE, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1954	0.30 3	0.30 3	0.30 1	0.30 1	0.32 1	0.40 1	0.96 2	1.63 4	1.36 2	21.50 6
1955	0.50 5	0.57 5	0.84 6	1.17 6	1.63 6	1.95 5	2.26 5	2.50 5	6.84 6	14.90 5
1956	0.30 4	0.30 4	0.30 2	0.30 2	0.41 2	0.55 2	0.58 1	0.71 1	1.00 1	12.30 2
1957	0.10 1	0.17 1	0.31 3	0.44 4	0.72 4	1.39 4	1.68 4	1.59 2	6.12 5	12.30 3
1958	0.20 2	0.20 2	0.31 4	0.40 3	0.49 3	0.71 3	1.07 3	1.61 3	1.60 3	6.38 1
1959	2.00 12	2.33 12	2.81 13	3.36 13	4.19 11	4.67 8	7.89 10	9.29 10	25.40 12	65.90 11
1960	2.40 13	2.53 13	2.60 12	2.74 9	3.78 9	10.40 13	16.30 15	21.80 13	36.50 16	84.50 15
1961	4.10 14	4.23 14	4.44 14	4.82 14	6.54 14	7.20 11	10.50 11	22.90 15	18.80 11	94.80 16
1962	1.50 8	1.57 9	2.34 9	2.63 8	4.65 12	11.90 14	12.10 12	17.30 12	25.60 13	82.40 14
1963	7.10 16	7.33 15	7.70 15	8.09 15	9.40 15	9.94 12	12.50 13	14.30 11	17.80 10	80.40 12
1964	0.70 6	0.70 6	0.70 5	0.71 5	0.96 5	2.12 6	2.91 6	3.34 6	3.82 4	14.90 4
1965	1.70 11	2.10 11	2.37 10	3.15 12	4.12 10	4.84 10	4.94 7	6.48 9	12.10 9	49.70 9
1966	6.50 15	7.33 16	9.81 17	11.80 18	15.10 18	37.20 19	51.90 18	52.60 18	74.40 18	110.00 17
1967	1.60 10	2.03 10	2.43 11	2.91 11	3.13 8	4.82 9	4.98 8	5.15 7	8.93 8	57.70 10
1968	1.50 9	1.53 8	1.64 7	2.05 7	5.86 13	12.70 15	14.70 14	23.20 16	33.30 15	41.60 8
1969	1.30 7	1.50 7	2.01 8	2.82 10	3.08 7	4.65 7	5.78 9	6.19 8	8.37 7	39.70 7
1970	10.00 18	10.00 18	10.40 18	10.90 17	11.30 16	13.60 16	17.10 16	22.00 14	27.50 14	124.00 18
1971	7.00 17	9.03 17	9.46 16	9.82 16	12.00 17	21.00 17	37.80 17	44.50 17	56.80 17	81.00 13



STATION NUMBER 05454300

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

CLEAR CREEK NEAR CORALVILLE, IOWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1953	1000.0 10	675.0 11	336.0 11	265.0 10	170.0 10	131.0 9	111.0 9	104.0 9	82.0 8	45.9 9
1954	197.0 19	116.0 18	91.1 18	50.5 18	29.4 18	25.6 18	18.9 18	15.4 18	12.5 18	7.2 18
1955	400.0 17	277.0 15	169.0 15	118.0 15	70.9 16	44.1 17	51.6 16	42.1 16	31.6 16	18.4 16
1956	426.0 15	251.0 17	114.0 17	86.8 17	59.2 17	48.0 16	33.0 17	25.3 17	18.3 17	11.6 17
1957	200.0 18	103.0 19	47.5 19	28.1 19	24.1 19	16.5 19	14.3 19	13.1 19	10.8 19	6.6 19
1958	345.0 12	584.0 12	284.0 12	147.0 14	78.4 15	68.3 14	63.4 13	54.2 13	37.9 15	22.2 14
1959	1920.0 6	1270.0 5	761.0 5	520.0 5	385.0 3	277.0 2	237.0 3	205.0 3	150.0 4	82.3 6
1960	2050.0 5	1520.0 4	978.0 4	548.0 4	348.0 4	243.0 4	216.0 4	205.0 4	165.0 3	109.0 3
1961	1290.0 8	870.0 9	594.0 6	450.0 6	286.0 6	180.0 7	134.0 8	108.0 8	78.7 9	49.9 8
1962	4420.0 1	1870.0 3	1140.0 1	677.0 2	418.0 2	257.0 3	251.0 2	232.0 2	184.0 2	129.0 1
1963	500.0 13	340.0 13	233.0 14	201.0 12	142.0 11	95.6 11	79.2 11	66.2 11	49.7 11	31.3 12
1964	970.0 11	704.0 10	424.0 10	247.0 11	140.0 12	82.7 13	62.1 14	52.3 14	38.9 14	22.0 15
1965	3210.0 2	2120.0 1	1050.0 3	554.0 3	337.0 5	212.0 6	177.0 5	158.0 5	149.0 5	104.0 4
1966	1870.0 7	1080.0 7	513.0 8	376.0 7	270.0 7	215.0 5	172.0 6	148.0 6	130.0 6	86.2 5
1967	415.0 16	255.0 16	148.0 16	106.0 16	79.8 14	65.1 15	60.2 15	49.7 15	40.9 13	26.9 13
1968	438.0 14	306.0 14	245.0 13	167.0 12	118.0 13	85.0 12	67.6 12	61.4 12	49.4 12	36.9 11
1969	2540.0 4	1910.0 2	1060.0 2	973.0 1	620.0 1	425.0 1	312.0 1	258.0 1	217.0 1	122.0 2
1970	2600.0 3	1160.0 6	561.0 7	323.0 8	193.0 8	147.0 8	150.0 7	144.0 7	111.0 7	73.9 7
1971	1200.0 9	950.0 8	455.0 9	311.0 9	185.0 9	111.0 10	85.2 10	76.3 10	70.2 10	45.6 10



STATION NUMBER 05454300

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

CLEAR CREEK NEAR CORALVILLE, IOWA

YEAR	CLASS																																		CFS_DAYS				
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33		34			
	NUMBER OF DAYS IN CLASS																																						
1953					8	4	5	27	20	28	5	5	6	8	3	17	33	27	25	24	30	29	25	14	10	3	3	2	2	1	1							16771.0	
1954					26	25	9	11	17	39	26	32	82	33	18	11	12	6	2	2	1	2	4	2	2	1												2642.2	
1955							8	12	9	36	46	66	28	13	13	11	17	29	32	7	11	7	6	4	3	4	1	2										6711.8	
1956																																						4256.1	
1957																																							2396.6
1958																																							8103.9
1959																																							30039.9
1960																																							39863.6
1961																																							18199.1
1962																																							46988.0
1963																																							11436.6
1964																																							8049.6
1965																																							37896.0
1966																																							31449.1
1967																																							9835.5
1968																																							13489.8
1969																																							44443.6
1970																																							26964.6
1971																																							16653.9

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	6939	100.0	9	1.70	214	6152	88.7	18	29.0	586	2657	38.3	27	490	37	108	1.5
1	0.10	1	6939	100.0	10	2.30	315	5938	85.6	19	39.0	492	2071	29.8	28	670	25	71	1.0
2	0.20	8	6938	100.0	11	3.20	393	5623	81.0	20	54.0	476	1579	22.8	29	910	17	46	.6
3	0.30	70	6930	99.9	12	4.30	471	5230	75.4	21	74.0	328	1103	15.9	30	1200	12	29	.4
4	0.40	57	6860	98.9	13	6.00	331	4759	68.6	22	100.0	270	775	11.2	31	1700	11	17	.2
5	0.50	70	6803	98.0	14	8.20	305	4428	63.8	23	140.0	160	505	7.3	32	2300	4	6	.0
6	0.70	152	6733	97.0	15	11.00	460	4123	59.4	24	190.0	115	345	5.0	33	3200	2	2	.0
7	0.90	141	5571	94.7	16	15.00	479	3663	52.8	25	260.0	69	230	3.3	34				
8	1.20	278	6430	92.7	17	21.00	527	3184	45.9	26	360.0	53	161	2.3					



STATION NUMBER 05454500

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

IOWA RIVER AT IOWA CITY, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1960	81.00 1	103.00 2	126.00 2	131.00 2	138.00 2	155.00 3	289.00 4	468.00 5	737.00 7	1990.00 6
1961	160.00 7	208.00 7	225.00 7	241.00 7	268.00 7	338.00 7	503.00 7	586.00 8	704.00 6	2940.00 10
1962	129.00 5	141.00 5	157.00 5	166.00 6	241.00 6	756.00 10	729.00 10	911.00 10	1200.00 10	2040.00 7
1963	250.00 10	250.00 9	254.00 5	281.00 5	298.00 9	321.00 5	417.00 5	554.00 6	774.00 8	2570.00 9
1964	114.00 3	122.00 3	135.00 3	139.00 3	144.00 3	152.00 2	165.00 2	192.00 1	283.00 1	734.00 1
1965	159.00 6	160.00 6	162.00 6	163.00 5	198.00 4	247.00 4	289.00 3	360.00 3	436.00 3	1110.00 4
1966	235.00 9	258.00 10	304.00 10	487.00 12	514.00 11	1200.00 12	1830.00 12	2290.00 12	2690.00 12	3360.00 11
1967	95.00 2	96.00 1	99.40 1	109.00 1	117.00 1	127.00 1	143.00 1	212.00 2	317.00 2	1400.00 5
1968	204.00 8	211.00 8	238.00 8	254.00 8	296.00 8	460.00 8	556.00 8	586.00 7	621.00 4	864.00 2
1969	128.00 4	131.00 4	137.00 4	158.00 4	235.00 5	327.00 6	427.00 6	463.00 4	647.00 5	1060.00 3
1970	394.00 12	396.00 12	400.00 12	402.00 11	403.00 10	563.00 9	647.00 9	672.00 9	1200.00 9	3360.00 12
1971	319.00 11	323.00 11	329.00 11	335.00 10	524.00 12	944.00 11	1080.00 11	1410.00 11	1480.00 11	2410.00 8



STATION NUMBER 05454500

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

IOWA RIVER AT IOWA CITY, IOWA

YEAR	1	2	7	15	30	60	90	120	183	ANNUAL
1959	9250.0 7	9210.0 7	9160.0 6	8680.0 5	7120.0 6	5340.0 7	4800.0 5	4240.0 5	3130.0 5	1750.0 7
1960	9420.0 5	9820.0 5	9820.0 4	9660.0 2	9470.0 2	7750.0 2	6750.0 2	5440.0 2	4470.0 3	2800.0 3
1961	9700.0 6	9420.0 6	9000.0 7	8560.0 6	7400.0 5	5830.0 5	4570.0 7	3780.0 7	2770.0 8	1740.0 8
1962	10200.0 3	9910.0 3	9850.0 3	9280.0 4	8250.0 4	6960.0 3	6130.0 3	5070.0 4	4550.0 2	3270.0 2
1963	7560.0 9	7380.0 9	6340.0 9	4840.0 9	3900.0 9	2600.0 10	2540.0 10	2160.0 10	1790.0 10	1160.0 10
1964	5000.0 13	3000.0 12	2940.0 12	2390.0 12	1850.0 12	1320.0 12	1320.0 12	1180.0 12	956.0 12	632.0 13
1965	9900.0 4	9900.0 4	9860.0 2	7760.0 7	6650.0 7	5660.0 6	5630.0 4	5150.0 3	4240.0 4	2520.0 5
1966	6000.0 10	5310.0 10	4410.0 10	4210.0 10	4150.0 8	4030.0 8	3870.0 8	3310.0 8	2960.0 7	2650.0 4
1967	4310.0 11	4300.0 11	4270.0 11	4200.0 11	3340.0 11	2010.0 11	1620.0 11	1390.0 11	1170.0 11	762.0 11
1968	3060.0 12	2850.0 13	2390.0 13	1740.0 13	1550.0 13	1120.0 13	876.0 13	559.0 13	842.0 13	727.0 12
1969	14500.0 1	13900.0 1	13900.0 1	12300.0 1	11200.0 1	8120.0 1	6820.0 1	6030.0 1	5800.0 1	3380.0 1
1970	8490.0 8	6240.0 8	7480.0 8	5640.0 8	3890.0 10	3120.0 9	2780.0 9	3010.0 9	2370.0 9	1590.0 9
1971	10200.0 2	10100.0 2	9800.0 5	9430.0 3	8580.0 3	6150.0 4	4660.0 6	3810.0 6	3070.0 6	2080.0 6



STATION NUMBER C545450C

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

ICWA RIVER AT ICWA CITY, ICWA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	CFS_DAYS
YEAR	NUMBER OF DAYS IN CLASS																																			CFS_DAYS
1959	5	10	10	7	10	11	22	14	17	32	15	17	20	10	7	6	3	11	7	4	7	5	15	5	8	19	17	21	5	3	8	3	11	638901.0		
1960							3		6	1		12	9	27	24	34	19	26	18	26	13	8	21	4	9	7	4	7	7	18	32	7	24	1024265.0		
1961			1	1	7	10	10	12	15	21	16	21	21	23	9	14	26	9	18	20	17	6	5	11	12	7	3	3	17	12	4	11	3	633941.0		
1962												1	4	3	5	4	12	27	13	44	23	24	35	11	16	11	3	42	35	21	6	4	20	1	1193638.0	
1963			3	4	13	1	1	8	9	50	27	4	6	23	18	16	17	57	11	22	8	4	11	12	17	11	4	3		2	3			424050.0		
1964				59	36	17	2	10	11	18	22	14	24	15	32	6	25	23	5	9	26	2	1		9										231379.0	
1965					13	4	2	29	28	19	3	13	21	7	14	5	6	6	8	8	17	2	16	5	6	20	23	10	11	49	4	3	13	919708.0		
1966						12	4	2	4	2	2	10	4	6	4	11	6	10	21	11	16	16	18	11	27	11	140	14	2	1					968195.0	
1967	7	35	22	16	18		8	4	10	23	18	14	32	32	15	19	14	22	6	5	7	6	5	8	1	3	7	8						278194.0		
1968			2	7	5	4	4	27	9	37	33	35	24	43	21	22	12	11	14	14	15	6	11	3	7										266063.0	
1969			2	9	2			1	5	3	1	26	17	13	20	7	15	10	24	21	7	3	8	7	14	5	4	23	58	7	9	13	10	21	1234221.0	
1970											10	32	12	9	20	40	33	24	22	12	17	18	16	30	4	19	4	28	5	3	1	2	4		581590.0	
1971					2	29	5	4	1	3	5	3	6	15	21	17	13	17	26	28	33	31	27	7	12	4	13	8	3	1	8	11	9	3	760845.0	

CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT
0	0.00	0	4743	100.0	9	260.00	115	4182	88.1	18	980.0	251	2442	51.4	27	3700	246	893	18.8
1	81.00	5	4743	100.0	10	300.00	219	4067	85.7	19	1100.0	183	2151	46.1	28	4200	144	647	13.6
2	94.00	17	4743	99.9	11	350.00	174	3848	81.0	20	1300.0	229	2008	42.3	29	4900	141	503	10.5
3	110.00	51	4726	99.5	12	410.00	182	3674	77.4	21	1500.0	207	1779	37.5	30	5700	115	362	7.6
4	130.00	102	4675	98.5	13	470.00	197	3492	73.5	22	1800.0	129	1572	33.1	31	6600	76	247	5.2
5	150.00	111	4573	96.3	14	540.00	237	3295	69.4	23	2000.0	203	1443	30.4	32	7600	56	171	3.6
6	170.00	109	4462	94.0	15	630.00	230	3058	64.4	24	2400.0	88	1240	26.1	33	8800	90	115	2.4
7	200.00	61	4354	91.7	16	730.00	194	2828	59.6	25	2700.0	157	1152	24.3	34	10000	25	25	.5
8	230.00	111	4293	90.4	17	840.00	192	2634	55.5	26	3200.0	102	995	21.0					



STATION NUMBER 05455000

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

RALSTON CREEK AT IOWA CITY, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1926	0.00 1	0.00 1	0.00 1	0.00 1	0.01 21	0.04 20	0.11 21	0.24 24	0.38 21	0.76 9
1927	0.00 2	0.00 2	0.00 2	0.00 2	0.07 34	0.48 43	0.88 45	0.89 40	1.96 45	2.06 34
1928	0.02 37	0.02 37	0.02 34	0.02 31	0.04 28	0.09 25	0.18 23	1.19 44	1.43 40	2.73 43
1929	0.05 41	0.06 42	0.07 42	0.11 42	0.30 44	0.47 42	1.08 46	1.88 46	1.65 42	2.65 42
1930	0.00 3	0.00 3	0.00 3	0.00 3	0.05 31	0.18 31	0.36 35	0.44 33	0.41 22	1.78 26
1931	0.00 4	0.00 4	0.00 4	0.00 4	0.00 1	0.01 11	0.29 27	0.38 26	0.49 27	1.19 15
1932	0.00 5	0.00 5	0.00 5	0.00 5	0.01 22	0.10 27	0.13 22	0.20 21	0.37 20	1.11 14
1933	0.00 6	0.00 6	0.00 6	0.00 6	0.07 32	0.28 37	0.32 29	0.35 25	0.70 33	1.22 16
1934	0.00 7	0.00 7	0.00 7	0.00 7	0.00 2	0.00 1	0.01 7	0.01 3	0.05 4	0.55 6
1935	0.00 8	0.00 8	0.00 8	0.00 8	0.00 3	0.00 2	0.00 1	0.08 13	0.23 14	1.01 13
1936	0.02 33	0.02 38	0.02 35	0.03 32	0.04 29	0.13 30	0.34 32	0.42 30	0.25 19	1.48 22
1937	0.00 9	0.00 9	0.00 9	0.00 9	0.00 4	0.00 3	0.45 39	0.63 35	0.85 36	2.33 38
1938	0.00 10	0.00 10	0.00 10	0.00 10	0.00 5	0.04 21	0.03 10	0.07 12	0.32 17	1.87 28
1939	0.02 39	0.02 39	0.02 36	0.03 33	0.09 38	0.29 38	0.43 38	0.72 38	0.74 34	1.84 27
1940	0.00 11	0.00 11	0.00 11	0.00 11	0.00 6	0.00 4	0.02 8	0.04 8	0.05 5	1.00 12
1941	0.00 12	0.00 12	0.00 12	0.00 12	0.00 7	0.00 5	0.00 2	0.01 4	0.06 6	0.42 4
1942	0.00 13	0.00 13	0.00 13	0.00 13	0.00 8	0.11 28	0.75 42	1.29 45	1.62 41	1.89 29
1943	0.00 14	0.00 14	0.00 14	0.00 14	0.00 9	0.09 26	0.32 30	0.61 34	0.82 35	1.34 20
1944	0.01 31	0.01 30	0.02 37	0.03 34	0.04 30	0.13 29	0.21 24	0.20 22	0.47 25	2.01 33
1945	0.01 32	0.01 31	0.01 30	0.03 35	0.03 27	0.07 22	0.10 19	0.12 17	0.12 12	1.30 18
1946	0.00 15	0.00 15	0.00 15	0.00 15	0.01 23	0.07 23	0.26 26	0.24 23	0.33 18	1.43 21
1947	0.00 16	0.01 32	0.03 38	0.03 36	0.11 40	0.29 39	0.38 37	0.42 31	0.54 30	0.54 11
1948	0.00 17	0.00 16	0.00 16	0.00 16	0.00 10	0.01 12	0.03 9	0.06 9	0.09 9	2.10 36
1949	0.00 18	0.00 17	0.00 17	0.00 17	0.00 11	0.03 19	0.04 11	0.06 10	0.52 29	1.33 19
1950	0.00 19	0.00 18	0.00 18	0.00 18	0.00 12	0.02 15	0.04 12	0.14 18	0.11 11	1.53 24
1951	0.01 33	0.01 33	0.01 31	0.01 28	0.02 26	0.07 24	0.10 20	0.10 15	0.30 16	2.11 37
1952	0.05 42	0.05 41	0.06 41	0.09 41	0.16 42	0.24 36	0.34 31	0.43 32	0.56 31	2.00 32
1953	0.01 34	0.01 34	0.01 32	0.01 29	0.01 24	0.03 16	0.05 15	0.14 19	0.63 32	1.90 31
1954	0.00 20	0.00 19	0.00 19	0.00 19	0.00 13	0.00 6	0.00 3	0.01 5	0.01 2	0.55 5
1955	0.00 21	0.00 20	0.00 20	0.00 20	0.00 14	0.01 13	0.09 17	0.15 20	0.23 15	0.72 8
1956	0.00 22	0.00 21	0.00 21	0.00 21	0.00 15	0.00 7	0.00 4	0.00 1	0.00 1	0.28 2
1957	0.00 23	0.00 22	0.00 22	0.00 22	0.00 16	0.00 8	0.01 5	0.01 2	0.08 7	0.71 7
1958	0.00 24	0.00 23	0.00 23	0.00 23	0.00 17	0.00 9	0.01 6	0.04 6	0.05 3	0.20 1
1959	0.00 25	0.00 24	0.00 24	0.00 24	0.01 25	0.03 17	0.10 18	0.09 14	0.51 28	1.89 30
1960	0.00 26	0.00 25	0.00 25	0.01 30	0.07 33	0.59 44	0.73 41	0.70 37	1.08 38	2.38 39
1961	0.02 35	0.02 35	0.02 32	0.03 37	0.08 35	0.21 35	0.25 25	0.80 39	0.98 37	2.98 44
1962	0.10 43	0.10 43	0.10 43	0.12 43	0.30 45	0.65 46	0.80 43	1.02 41	1.75 44	3.59 46
1963	0.10 44	0.10 44	0.14 45	0.22 45	0.25 43	0.33 40	0.35 33	0.39 27	0.46 23	2.09 35



STATION NUMBER 05455000

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

RALSTON CREEK AT IOWA CITY, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1964	0.00 27	0.00 26	0.00 26	0.00 25	0.00 18	0.00 10	0.04 13	0.07 11	0.08 8	0.41 3
1965	0.00 28	0.00 27	0.00 27	0.00 26	0.00 19	0.02 14	0.04 14	0.04 7	0.10 10	0.89 10
1966	0.02 36	0.02 36	0.03 39	0.05 39	0.09 36	0.20 32	0.36 36	1.10 43	1.66 43	2.39 40
1967	0.00 29	0.00 28	0.00 28	0.00 27	0.00 20	0.03 18	0.08 16	0.12 16	0.20 13	1.51 23
1968	0.04 40	0.04 40	0.04 40	0.05 40	0.10 35	0.43 41	0.51 40	0.65 36	1.35 39	1.68 25
1969	0.00 30	0.00 29	0.00 29	0.03 38	0.09 37	0.21 33	0.35 34	0.39 28	0.47 24	1.22 17
1970	0.11 45	0.12 45	0.12 44	0.14 44	0.15 41	0.21 34	0.30 28	0.39 29	0.48 26	2.60 41
1971	0.18 46	0.23 46	0.24 46	0.30 46	0.36 46	0.62 45	0.87 44	1.02 42	2.13 46	3.11 45



## STATION NUMBER 05455000

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## RALSTON CREEK AT IOWA CITY, IOWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1925	31.2 39	10.6 41	4.8 44	2.5 43	2.1 41	1.6 42	1.2 42	1.0 42	0.8 42	0.6 40
1926	58.0 27	25.3 29	15.2 28	8.3 32	6.8 22	3.8 28	2.6 32	2.5 30	2.0 31	1.5 26
1927	92.0 12	52.3 10	23.6 15	11.5 20	8.4 12	6.9 7	6.1 5	5.5 5	4.2 6	2.6 5
1928	76.0 21	27.7 26	23.8 14	12.6 15	6.8 23	3.7 29	3.3 25	2.6 27	2.4 23	2.2 11
1929	63.0 25	29.6 24	20.8 17	15.6 10	10.0 7	7.6 5	5.9 6	5.0 7	4.1 7	2.9 3
1930	98.0 10	40.3 16	18.3 20	9.9 26	5.7 32	3.1 34	2.5 33	2.5 28	2.1 29	1.5 27
1931	21.7 42	7.3 44	4.8 45	2.3 45	1.6 44	1.0 44	1.0 44	0.9 44	0.7 44	0.6 41
1932	93.0 11	35.4 19	15.4 27	7.9 33	4.9 35	3.1 35	2.5 34	2.1 34	2.0 30	1.6 25
1933	33.6 38	23.1 32	10.3 36	5.0 39	3.5 40	2.5 39	1.9 40	1.7 39	1.5 37	0.9 37
1934	23.4 41	7.9 43	5.2 42	2.4 44	1.2 45	0.7 45	0.5 45	0.4 45	0.2 46	0.2 45
1935	55.6 29	21.6 34	11.0 35	9.2 30	6.4 24	4.1 25	3.2 26	2.7 25	2.9 20	1.7 19
1936	37.0 36	21.7 33	12.3 31	10.2 23	5.9 31	3.3 32	2.4 35	2.3 31	1.6 35	1.2 33
1937	110.0 8	58.3 3	26.1 9	20.6 2	13.4 3	8.9 2	6.7 3	6.0 3	4.4 4	2.6 6
1938	130.0 6	57.7 5	25.8 10	19.4 3	10.6 5	5.7 12	4.3 17	3.8 17	3.0 17	1.8 17
1939	77.0 18	42.8 14	25.6 11	14.0 12	8.3 14	4.8 20	3.7 23	3.0 21	2.5 21	1.6 20
1940	30.0 40	17.3 36	15.7 26	9.5 29	5.3 34	3.2 33	2.3 36	1.7 40	1.2 40	0.6 42
1941	85.0 15	45.0 13	28.1 6	13.5 14	6.9 21	3.9 27	3.0 28	2.3 32	1.9 32	1.1 34
1942	89.0 14	32.3 22	13.9 29	9.7 27	6.0 29	3.5 30	2.7 31	2.5 29	2.2 26	1.6 21
1943	77.0 19	32.2 23	16.8 24	10.0 24	8.2 15	6.5 8	5.3 8	4.4 9	3.8 9	2.2 12
1944	54.0 37	19.7 35	11.5 33	7.6 34	5.9 30	4.9 18	4.5 13	4.1 11	3.1 14	1.6 22
1945	14.0 44	5.3 42	6.9 40	4.5 40	3.7 39	2.4 40	2.0 35	2.0 35	1.6 33	0.9 35
1946	155.0 3	55.1 7	25.1 12	11.9 18	6.1 27	3.5 31	3.2 27	2.6 26	2.2 27	1.4 28
1947	44.0 32	17.2 37	8.8 39	7.1 36	6.0 28	4.6 21	4.4 14	4.0 12	3.0 18	1.6 23
1948	53.0 28	25.8 28	19.6 18	10.0 25	7.4 18	5.0 17	3.8 20	2.9 24	2.4 24	1.3 29
1949	50.0 30	24.3 30	13.5 30	11.1 21	6.3 25	4.4 22	3.6 24	3.0 22	2.4 25	1.3 30
1950	91.0 13	45.7 12	32.9 4	16.0 7	10.6 6	6.5 9	4.8 10	4.0 13	4.0 8	2.3 9
1951	65.0 24	36.7 18	18.7 19	15.8 9	8.4 13	6.5 10	5.2 9	4.4 10	3.6 11	1.9 15
1952	44.0 33	33.3 20	18.1 21	12.2 16	7.9 16	5.2 16	4.4 15	4.0 14	3.1 15	1.8 16
1953	71.0 23	37.9 17	16.8 25	9.7 28	7.2 19	5.6 13	4.6 11	4.0 15	3.0 16	1.7 18
1954	7.5 47	5.1 46	2.2 46	1.3 46	0.8 46	0.5 46	0.4 46	0.3 46	0.3 45	0.2 46
1955	80.0 16	40.5 15	18.1 22	10.5 22	5.5 33	3.0 36	2.8 29	2.1 33	1.5 36	0.8 38
1956	77.0 20	26.2 27	11.2 34	7.0 31	4.6 36	4.0 26	2.7 30	2.0 36	1.3 39	0.7 39
1957	8.0 46	2.7 47	1.2 47	0.5 47	0.5 47	0.2 47	0.2 47	0.2 47	0.1 47	0.1 47
1958	42.0 34	15.2 35	6.7 41	3.1 41	1.8 43	1.4 43	1.2 43	1.0 43	0.8 43	0.5 43
1959	100.0 9	55.0 8	37.2 2	18.6 4	14.9 2	8.7 3	7.5 2	6.5 2	4.6 3	2.5 7
1960	75.0 22	33.3 21	21.3 16	11.9 19	9.1 9	6.9 6	6.6 4	5.8 4	4.8 2	3.1 2
1961	62.0 26	28.7 25	17.3 23	13.8 13	8.8 10	5.7 11	4.3 18	3.5 18	2.9 19	2.2 10
1962	134.0 1	64.2 2	43.9 1	25.9 1	16.4 1	9.2 1	7.7 1	7.2 1	5.7 1	4.2 1



STATION NUMBER C5455000

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

RALSTON CREEK AT ICWA CITY, ICWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1963	40.0 35	17.0 38	9.4 39	6.5 37	4.3 38	2.6 38	2.3 37	1.9 38	1.4 38	0.9 36
1964	9.6 45	6.7 45	5.1 43	3.0 42	1.9 42	1.6 41	1.5 41	1.3 41	0.9 41	0.5 44
1965	173.0 2	72.3 1	33.1 3	16.0 8	8.5 11	4.4 23	3.7 21	3.3 19	3.2 13	2.0 14
1966	50.0 31	23.4 31	13.2 32	7.6 35	7.0 20	5.6 14	4.6 12	4.0 16	3.3 12	2.1 13
1967	139.0 5	49.2 11	24.7 13	12.1 17	6.3 26	4.1 24	3.7 22	2.9 23	2.1 28	1.2 31
1968	19.0 43	14.6 40	10.2 37	6.5 38	4.4 37	2.9 37	2.2 38	2.0 37	1.6 34	1.2 32
1969	113.0 7	54.3 9	27.5 7	18.0 5	12.1 4	7.6 4	5.8 7	5.3 6	4.3 5	2.7 4
1970	151.0 4	56.9 6	27.0 8	14.5 11	7.5 17	4.8 19	4.4 16	4.5 8	3.7 10	2.5 8
1971	90.0 17	58.0 4	28.9 5	16.0 6	9.3 8	5.4 15	3.9 15	3.1 20	2.5 22	1.6 24



STATION NUMBER 0545500C

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

RALSTON CREEK AT IOWA CITY, IOWA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	CFS_DAYS
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS	
1925	103	21	6	3	5	9	32	51	29	26	11	20	13	10	5	4	2	3	2	1	1	1	1													204.1
1926	25	18	10	4	5	6	15	25	33	58	18	25	35	20	16	17	9	3	8	2	6	3	1		1	1	1								562.6	
1927		9	20	6	8	3	10	19	21	26	19	34	22	23	36	30	21	24	15	5	2	1	5	2	1	1	1	1							942.8	
1928					4	17	19	21	67	31	64	46	20	19	17	7	11	6	5	2	2			1	3	2	1	1							810.0	
1929					6	5	16	16	13	62	14	27	25	45	42	22	15	12	10	11	4	5	2	9	2	1	1								1048.6	
1930	53	11	10	5	7	5	9	26	23	43	25	33	39	23	18	8	10	2	1	1		3	1	1			1		1	1					545.4	
1931	71	14	5	6	3	16	24	49	44	42	22	17	15	7	6	4	4	5	4	1	1			1											206.7	
1932	18	12	7	6	10	6	13	19	21	58	18	45	41	33	20	8	5	7	6	6	2			2	1	1			1						583.0	
1933	91							54	25	70	10	25	24	14	12	13	10	6	5	2	1	1					2								336.7	
1934	104	33	52	14	11	12	16	9	10	6	3	3	2		1	2						1			1										56.5	
1935	52	3	9	9	11	18	22	42	27	41	13	16	17	23	12	12	7	3	5	4	4	1	8	5			1								628.6	
1936	56	3	9	4	5	4	29	47	43	59	8	23	24	13	6	3	5	2	6	5	1	6	3			2									431.9	
1937	39	6	8	9	3	7	6	30	31	42	17	23	32	13	24	19	10	13	10	4		4	6	1	4	1	1	1	1	1					963.9	
1938	37	4	17	17	24	32	17	30	24	48	11	18	20	16	12	8	6	5	2	5	2	1	2	3	1	1			1				1		671.3	
1939	15	3	14	11	6	16	16	70	38	58	19	24	23	11	7	5	4	4	4	2	3	1	5	3	1	1			1						570.6	
1940	153	8	6	9	13	33	25	18	15	25	5	11	16	6	5	3	3	2	2		2	3	2			1									226.4	
1941	135	16	9	8	8	28	19	38	26	26	8	6	6	4	6	6	2	2		2	1	2	1	3			2						1		401.0	
1942	26	2	8	5	7	9	9	30	21	49	20	33	45	32	23	13	9	6	6	3	4	2			1								2		583.4	
1943			6	4	8	11	6	43	44	43	21	30	19	20	33	15	11	9	11	12	8	5			2	2	1						1		805.5	
1944		15	25	10	7	24	9	73	34	25	3	8	13	24	19	19	20	12	7	8	3	2	2	2	2										587.3	
1945	23	7	2	1	2	2	50	65	25	32	17	35	20	15	18	7	4	4	5	7	2	3														323.8
1946	1	3	8	19	2	18	35	73	54	42	12	24	15	8	11	6	9	5	10	5		1	1	1			1							1		522.4
1947	22	11	8	2	3	7	14	34	38	46	19	23	25	17	23	18	16	15	6	6	4	2	3	2			1								595.8	
1948	83	13	11	4	4	19	20	69	32	28	10	7	12	14	15	2	7	3	1		4	2			2		3	1							462.0	
1949	97	11	10	10	6	14	16	35	24	32	10	18	15	9	13	11	6	9	4	3	6	1	1	1	2	1									458.3	
1950	25	7	29	20	13	22	15	40	23	33	24	22	21	17	11	3	5	4	4	3	7	2	7	2	2			3	1						821.3	
1951		21	24	5	6	23	20	49	21	22	12	9	31	23	29	20	13	9	7	5	4	6			1	3	1	1								704.4
1952		17	3		1	4	5	38	23	49	13	32	40	33	38	16	9	17	13	3	4	1	3	2	1	1	1									668.2
1953	40	14	16	10	14	16	5	30	23	46	14	19	22	21	27	12	9	7	5	2	1	4	4			2	1	1							627.6	
1954	194	20	9	6	7	27	19	41	16	8		2	3	4	3	1	1	1	1	2																60.9
1955	112	35	19	6	7	24	19	26	25	34	8	11	11	7	6		2	2	3		2	2	2			1									297.1	
1956	305	11	3	3	3	7	9	5	2	1	1	1	2			1	1				1	4					1	1	1						260.5	
1957	259	19	11	6	6	14	10	16	8	7	2	2			2		1	1		1															29.2	
1958	191	18	15	11	16	25	17	18	17	9	1	1	4	2	3	5	2	4	2					2	1		1								178.0	
1959	13	38	25	12	9	28	21	47	13	23	11	15	19	11	15	11	14	9	6	4	2	5	3	3	3	2	1	1	1						920.6	
1960			7	3	4	6	8	15	8	19	13	46	64	30	40	29	16	15	10	7	7	4	5	4	2	2	1	1							1120.9	
1961								46	47	63	22	31	31	27	38	8	12	10	7	7	2	3	4	1	2	3	1									806.1
1962								14	36	12	8	63	63	51	22	21	17	18	12	5	7	5	2	3	2	1	1	1								1547.3



STATION NUMBER 05455000

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

RALSTON CREEK AT ICWA CITY, ICWA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34		
YEAR	NUMBER OF DAYS IN CLASS																																	CFS_DAYS			
1963	36							48	30	10	8	31	31	27	14	15	7	5	1	7		1	2	1			1										322.7
1964	146							45	34	41	12	19	26	12	13	6	4	3	2	2	1																182.1
1965	68		3	11	10	17	14	36	28	23	9	20	12	16	27	14	17	10	14	6	2	2	2	1	1		1					1				747.7	
1966	29	1	2	1	2	12	6	1	1	42	24	47	38	43	31	22	19	14	15	6	2	1	2			4										759.3	
1967	11				5	16	21	33	43	41	18	10	18	20	15	7	8	7	3	2		2	1	1									1			431.2	
1968	6	1	1	1	1		10	29	22	55	30	54	42	37	31	17	10	5	3	5	3		2													438.4	
1969								12	39	71	10	23	35	29	42	23	19	21	16	8	3	1	4	3	4				1							983.8	
1970								32	30	55	29	23	22	29	39	31	18	23	16	4	3	4	3	2		1						1				920.6	
1971	9	2	5	5	6	13	9	22	18	44	21	39	35	61	33	20	9	2	3	1	3		2	1			1	1								574.1	

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	2733	17166	100.0	9	0.30	1890	8898	51.8	18	5.0	291	990	5.8	27	71	18	30	.1
1	0.01	432	14433	84.1	10	0.50	661	7008	40.8	19	6.7	180	699	4.1	28	96	6	12	.0
2	0.02	432	14001	81.6	11	0.60	1057	6327	36.9	20	9.0	117	519	3.0	29	130	4	6	.0
3	0.03	266	13565	79.0	12	0.30	1134	5270	30.7	21	12.0	102	402	2.3	30	170	2	2	.0
4	0.04	274	13303	77.5	13	1.10	921	4136	24.1	22	16.0	97	300	1.7	31				
5	0.05	577	13029	75.9	14	1.50	912	3215	18.7	23	22.0	66	203	1.2	32				
6	0.07	633	12452	72.5	15	2.10	544	2303	13.4	24	29.0	48	137	0.8	33				
7	0.10	1717	11519	68.9	16	2.80	419	1759	10.2	25	39.0	40	89	0.5	34				
8	0.20	1204	10102	58.8	17	3.70	350	1340	7.8	26	53.0	19	49	0.3					



STATION NUMBER C545501C

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

SOUTH BRANCH WALSTON CREEK AT IOWA CITY, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1965	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.06 2	0.07 1	0.13 1	0.19 1	0.98 1
1966	0.00 2	0.00 2	0.00 2	0.00 2	0.19 6	0.44 5	0.74 5	1.42 7	1.55 5	3.03 5
1967	0.00 3	0.00 3	0.00 3	0.00 3	0.01 2	0.02 1	0.06 2	0.14 2	0.27 2	1.68 3
1968	0.00 4	0.00 4	0.00 4	0.00 4	0.14 5	0.79 6	0.85 6	0.91 5	1.74 6	2.05 4
1969	0.00 5	0.00 5	0.00 5	0.01 5	0.07 4	0.20 4	0.44 4	0.50 4	0.58 4	1.28 2
1970	0.04 6	0.04 6	0.05 6	0.06 6	0.06 3	0.11 3	0.19 3	0.33 3	0.52 3	3.18 6
1971	0.11 7	0.12 7	0.16 7	0.24 7	0.40 7	0.80 7	1.08 7	1.16 6	2.34 7	3.30 7



STATION NUMBER 05455C1C

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

SOUTH BRANCH RALSTON CREEK AT IOWA CITY, IOWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1964	16.0 8	9.0 8	5.4 8	3.4 8	2.1 8	1.5 8	1.4 8	1.2 8	0.9 8	0.5 8
1965	131.0 3	64.0 1	29.8 3	14.6 4	10.1 2	7.9 2	6.2 2	5.2 3	4.5 2	2.8 3
1966	81.0 5	33.3 6	17.5 6	12.5 6	9.7 3	6.9 3	5.3 3	4.3 4	3.4 4	2.2 4
1967	148.0 2	57.5 4	30.8 2	15.1 3	7.8 5	4.8 5	3.9 5	3.1 5	2.5 5	1.4 6
1968	72.0 7	17.0 7	12.0 7	7.8 7	5.3 7	3.5 7	2.6 7	2.4 7	1.8 7	1.4 7
1969	114.0 4	61.0 2	31.9 1	21.9 1	15.0 1	9.6 1	7.3 1	6.4 1	5.1 1	3.1 1
1970	155.0 1	59.5 3	28.9 4	16.2 2	8.4 4	5.9 4	5.1 4	5.6 2	4.3 3	3.0 2
1971	60.0 6	45.0 5	22.1 5	14.1 5	7.6 6	4.3 6	3.3 6	2.8 6	2.4 6	1.7 5



STATION NUMBER 0545501C

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

SOUTH BRANCH RALSTON CREEK AT IOWA CITY, IOWA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34		
YEAR	NUMBER OF DAYS IN CLASS																																			CFS_DAYS	
1964	319	4	3	8	4	4	5	1	4	3	1	1	1	1	1					1																	190.0
1965	243	5	4	8	7	15	12	9	5	7	3	8	4	7	4	5	7	1		1		2	2	2			1	1						1	1	1031.0	
1966	233	24	15	6	11	9	8	10	8	7	4	4	5		4	3	1	1	2	2	1	2	1	2					1	1						806.0	
1967	302	5	3	9	7	5	2	2	5	4	2	4	3	2	1	2	1		2	1					1	1								1		520.3	
1968	261	19	9	9	12	8	8	8	5	4	2	5	3	2	1		3	2	1	1	2	1														503.5	
1969	199	23	12	11	10	12	9	8	5	11	14	6	13	2	4	3	2	4	3	3	3		1	2	2									1		1122.4	
1970	188	15	14	19	13	13	11	11	15	9	5	10	6	7	3	5	3	1	1	1	2	3	3		1							1			1	1099.8	
1971	253	28	10	14	12	6	9	5	2	4	3	2		2	3	2	1		1		2	2	2					1	1							637.4	

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	1998	2922	100.0	9	3.60	49	323	11.1	18	14.0	10	74	2.5	27	52	1	9	.3
1	1.10	128	924	31.6	10	4.20	34	274	9.4	19	16.0	10	64	2.2	28	61	1	8	.2
2	1.30	70	796	27.2	11	4.90	40	240	8.2	20	18.0	10	54	1.8	29	70	1	7	.2
3	1.50	54	726	24.8	12	5.60	25	200	6.8	21	21.0	10	44	1.5	30	82	1	6	.2
4	1.70	76	642	22.0	13	6.50	23	165	5.6	22	25.0	9	34	1.2	31	95		5	.1
5	2.00	72	566	19.4	14	7.60	21	142	4.9	23	29.0	7	25	0.9	32	110	2	5	.1
6	2.30	64	494	16.9	15	8.80	20	121	4.1	24	34.0	4	18	0.6	33	130	2	3	.1
7	2.70	54	430	14.7	16	10.00	18	101	3.5	25	39.0	1	14	0.5	34	150	1	1	.0
8	3.10	53	376	12.9	17	12.00	9	83	2.8	26	45.0	4	13	0.4					



STATION NUMBER 0545510C

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

OLD MANS CREEK NEAR ICWA CITY, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1952	12.00 13	13.30 13	16.70 13	17.50 13	29.90 13	78.50 13	82.20 13	104.00 13	106.00 13	222.00 13
1953	1.00 7	1.03 7	1.07 7	1.10 6	1.26 6	1.58 6	3.44 5	7.87 7	21.40 8	101.00 7
1954	0.40 5	0.40 5	0.40 5	0.40 4	0.40 3	0.49 3	0.78 3	0.79 2	0.92 2	41.90 6
1955	0.20 2	0.23 3	0.26 3	0.27 3	0.53 4	1.56 5	5.32 7	6.42 6	13.70 6	24.30 4
1956	0.20 3	0.20 2	0.20 2	0.20 2	0.25 2	0.28 2	0.32 1	0.33 1	0.49 1	21.00 2
1957	0.30 4	0.30 4	0.34 4	0.66 5	0.91 5	1.06 4	1.53 4	1.53 3	5.98 5	22.10 3
1958	0.10 1	0.10 1	0.10 1	0.14 1	0.21 1	0.26 1	0.51 2	2.05 4	1.50 3	12.90 1
1959	3.10 8	3.17 8	3.56 8	3.68 8	3.85 8	4.40 8	10.70 8	11.90 8	29.90 9	110.00 8
1960	3.40 10	3.60 11	3.63 10	3.79 9	6.95 11	18.40 11	29.90 11	38.90 11	63.60 11	180.00 11
1961	3.50 11	3.57 10	3.60 9	3.80 10	5.12 9	6.82 9	11.90 9	25.70 9	20.70 7	176.00 10
1962	3.30 9	3.47 9	4.30 11	4.71 11	6.12 10	44.20 12	43.90 12	49.90 12	64.50 12	186.00 12
1963	8.00 12	8.90 12	10.40 12	10.70 12	11.60 12	13.80 10	20.70 10	28.30 10	33.20 10	170.00 9
1964	0.60 6	0.90 6	0.90 6	1.23 7	1.33 7	3.06 7	4.27 6	3.98 5	4.99 4	30.80 5



STATION NUMBER 05455100

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

OLD MANS CREEK NEAR IOWA CITY, IOWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1951	1330.0 8	1150.0 7	683.0 9	617.0 6	460.0 6	370.0 5	353.0 4	337.0 4	274.0 4	153.0 3
1952	3250.0 4	2180.0 4	1270.0 4	877.0 5	548.0 5	371.0 4	316.0 5	277.0 5	231.0 5	152.0 4
1953	2040.0 5	1600.0 5	832.0 6	473.0 8	338.0 8	294.0 7	245.0 7	218.0 6	172.0 6	94.9 7
1954	390.0 13	229.0 13	144.0 13	83.5 13	47.4 14	46.1 13	33.5 13	25.7 14	19.4 14	10.3 14
1955	600.0 12	456.0 12	279.0 12	197.0 12	146.0 10	93.5 11	87.3 10	71.8 11	54.0 11	34.0 10
1956	1000.0 10	813.0 10	393.0 10	206.0 11	126.0 12	105.0 10	74.2 12	56.1 12	37.9 12	20.6 12
1957	212.0 14	151.0 14	102.0 14	63.7 14	50.3 13	39.4 14	31.4 14	26.9 13	21.6 13	12.2 13
1958	740.0 11	575.0 11	386.0 11	227.0 10	136.0 11	93.0 12	81.0 11	81.7 10	57.1 10	32.4 11
1959	5770.0 3	2920.0 3	1730.0 3	1120.0 3	715.0 3	509.0 3	441.0 3	392.0 3	280.0 3	149.0 5
1960	6400.0 2	5210.0 1	3070.0 1	1650.0 1	963.0 1	624.0 1	507.0 2	441.0 2	364.0 2	226.0 2
1961	1600.0 6	1440.0 6	1050.0 5	914.0 4	583.0 4	354.0 6	264.0 6	214.0 7	161.0 7	97.5 6
1962	6840.0 1	3960.0 2	2470.0 2	1500.0 2	920.0 2	536.0 2	539.0 1	484.0 1	389.0 1	276.0 1
1963	1300.0 7	891.0 9	735.0 7	568.0 7	361.0 7	243.0 8	196.0 8	163.0 8	118.0 8	70.5 8
1964	1200.0 9	1090.0 8	729.0 8	471.0 5	269.0 9	149.0 9	116.0 9	95.5 9	71.8 9	39.2 9



STATION NUMBER C545510C

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

OLD MANS CREEK NEAR ICWA CITY, IOWA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34		
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS		
1951						28	50	21	7	10	4	1	3	3	9	10	20	20	15	12	13	28	33	26	18	8	11	13	2								55793.0
1952									4	7	7	16	1	6	6	16	17	17	37	31	49	61	29	22	12	15	7	3	1	1	1						55500.0
1953						1	7	58	24	4	8	3	5	4	4	30	28	25	13	28	28	38	19	18	6	5	6	1		2						34647.8	
1954			5	10	40	38	45	55	27	34	17	21	14	8	10	7	6	4	3	4	5	3	2	2	1											3752.6	
1955				12	15	11	6	7	11	30	31	35	33	16	13	13	24	35	21	11	15	11	5	5	1	4										12408.6	
1956			24	51	50	27	23	33	6	30	21	20	13	8	11	5	4	7	8	8	4	3	2	2		4		2								7540.5	
1957		9	6	4	5	17	33	63	27	18	22	30	29	20	19	16	12	10	8	4	2	6	5													4465.0	
1958		14	41	22	9	10	24	13	3	5	4	28	34	32	24	19	19	14	11	7	5	9	3	6	3	2	4									11831.6	
1959											26	65	20	25	23	23	18	17	13	16	18	24	18	17	7	9	10	7	6	1	1	1				54465.8	
1960											3	20	6	11	13	12	14	35	50	35	57	40	24	9	12	9	5	4	1	3	1	1	1	1		82715.1	
1961											13	35	25	13	34	26	37	40	35	18	13	27	10	13	10	3	3	5	5								35591.5
1962															7	5	15	24	33	67	50	51	27	26	20	8	9	4	6	6	2	3	1	1		100559.0	
1963										1	2	19	14	14	52	37	48	47	35	36	22	13	6	2	3	4	7	2	1								25738.9
1964		1			2	1	14	26	15	27	9	15	52	22	20	25	19	52	22	18	6	7	2	3	3	1	1	2	1								14331.4

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	5114	100.0	9	2.00	166	4055	79.3	18	42.0	289	1901	37.2	27	860	44	97	1.8
1	0.10	24	5114	100.0	10	2.90	164	3389	76.0	19	58.0	310	1612	31.5	28	1200	26	53	1.0
2	0.20	76	5090	99.5	11	4.00	291	3725	72.8	20	82.0	265	1302	25.5	29	1700	11	27	.5
3	0.30	99	5014	98.0	12	5.60	263	3434	67.1	21	110.0	338	1037	20.3	30	2300	7	16	.3
4	0.40	121	4915	96.1	13	7.80	177	3171	62.0	22	160.0	201	699	13.7	31	3300	5	9	.1
5	0.50	133	4794	93.7	14	11.00	243	2954	58.5	23	220.0	166	498	9.7	32	4600	2	4	.0
6	0.70	206	4661	91.1	15	15.00	245	2751	53.8	24	310.0	93	332	6.5	33	6400	2	2	.0
7	1.00	276	4455	87.1	16	21.00	279	2506	49.0	25	440.0	75	239	4.7	34				
8	1.50	124	4179	81.7	17	30.00	326	2227	43.5	26	610.0	67	164	3.2					



STATION NUMBER 0545550G

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

ENGLISH RIVER AT KALONA, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1941	2.60 5	2.60 5	2.76 5	3.07 4	3.49 4	4.67 4	5.97 5	9.36 5	20.90 7	84.40 3
1942	6.00 14	6.67 14	7.93 14	10.60 17	12.70 17	54.30 23	88.60 24	139.00 25	135.00 23	268.00 14
1943	9.00 17	9.00 17	9.07 17	9.68 14	12.00 16	26.60 16	31.10 15	43.70 17	60.60 15	216.00 11
1944	32.00 30	32.30 28	33.10 28	33.60 28	37.90 26	56.60 24	77.70 23	74.60 22	145.00 24	442.00 21
1945	21.00 23	21.30 23	22.40 23	24.30 23	25.10 23	30.30 19	33.50 16	34.60 15	38.90 12	473.00 22
1946	23.00 24	23.30 24	24.40 24	28.40 25	34.20 25	69.30 26	99.30 25	97.00 23	127.00 22	535.00 23
1947	25.00 26	39.00 30	47.70 30	67.50 30	94.40 30	124.00 28	146.00 28	202.00 28	224.00 26	388.00 20
1948	4.00 8	4.00 7	4.00 7	4.36 7	5.00 8	9.43 7	17.10 10	15.00 9	19.90 5	576.00 25
1949	11.00 20	12.70 20	14.60 22	15.60 21	21.40 19	34.90 20	35.60 17	50.40 18	176.00 25	360.00 19
1950	2.80 6	4.73 9	4.94 9	5.19 9	6.23 9	9.60 8	11.70 7	13.30 6	23.70 8	211.00 10
1951	3.70 7	3.70 6	3.73 6	3.81 6	4.02 5	5.23 5	5.61 4	5.85 4	11.00 3	221.00 12
1952	29.00 29	34.00 29	38.10 29	42.70 29	57.50 29	218.00 31	232.00 30	310.00 31	343.00 29	669.00 30
1953	5.80 13	5.80 13	6.01 12	6.14 12	7.37 12	8.36 6	11.20 6	23.00 11	61.20 16	301.00 16
1954	1.60 3	1.93 3	2.11 3	2.50 3	2.56 3	3.23 2	4.58 2	4.27 2	5.00 2	127.00 7
1955	2.10 4	2.17 4	2.50 4	3.33 5	4.79 6	10.60 9	40.20 18	40.70 16	76.40 17	108.00 6
1956	1.10 1	1.10 1	1.10 1	1.21 1	1.65 1	1.94 1	2.10 1	2.16 1	2.85 1	94.00 4
1957	1.70 2	1.50 2	1.59 2	1.91 2	2.42 2	3.43 3	5.54 3	5.23 3	17.60 4	51.80 1
1958	4.80 10	4.30 10	5.20 10	5.73 10	10.80 13	18.50 14	26.40 14	31.50 14	32.80 10	82.90 2
1959	10.00 18	10.00 18	10.10 19	10.60 18	11.10 14	12.70 11	26.10 12	29.90 13	77.60 18	282.00 15
1960	14.00 21	14.00 21	14.30 21	15.70 22	28.30 22	62.40 25	114.00 26	157.00 27	236.00 27	562.00 24
1961	14.00 22	14.00 22	14.10 20	14.70 20	21.60 20	30.10 18	45.90 20	106.00 24	83.70 19	601.00 28
1962	25.00 27	26.70 26	30.10 27	32.90 27	46.40 27	87.40 27	120.00 27	152.00 26	258.00 28	583.00 26
1963	10.00 19	10.00 19	10.00 18	14.40 19	22.20 21	26.60 17	42.30 19	64.20 19	56.90 14	303.00 17
1964	4.50 9	4.50 8	4.50 8	4.50 8	4.91 7	10.30 10	15.30 9	15.60 8	20.40 6	103.00 5
1965	5.40 11	5.73 11	6.20 13	6.55 13	7.03 11	13.40 12	13.40 8	15.10 7	30.80 9	229.00 13
1966	24.00 25	25.00 25	28.10 26	29.00 26	47.20 28	209.00 30	313.00 31	293.00 30	365.00 30	730.00 31
1967	5.80 12	5.80 12	5.89 11	6.01 11	6.96 10	16.70 13	18.30 11	20.70 10	42.50 13	380.00 19
1968	8.00 16	8.17 16	8.81 16	10.50 16	19.70 18	39.50 21	57.40 22	67.40 20	117.00 21	183.00 8
1969	6.50 15	7.00 15	8.17 15	9.76 15	11.90 15	19.50 15	26.20 13	26.50 12	37.10 11	200.00 9
1970	27.00 28	27.00 27	27.30 25	28.10 24	30.70 24	41.20 22	57.20 21	68.90 21	94.40 20	593.00 27
1971	62.00 31	64.00 31	63.30 31	81.00 31	105.00 31	164.00 29	214.00 29	290.00 29	491.00 31	632.00 29



## STATION NUMBER 05455500

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## ENGLISH RIVER AT KALONA, IOWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1940	1230.0 32	1070.0 28	722.0 29	521.0 27	412.0 27	311.0 26	237.0 26	185.0 29	137.0 29	72.6 29
1941	2320.0 25	1820.0 26	988.0 26	622.0 26	432.0 26	296.0 27	225.0 28	215.0 27	201.0 25	117.0 26
1942	3110.0 23	2620.0 23	1670.0 23	1360.0 22	895.0 21	591.0 21	464.0 22	438.0 21	400.0 21	279.0 19
1943	9460.0 6	7310.0 6	4030.0 9	2450.0 14	1450.0 14	938.0 16	912.0 14	878.0 11	716.0 12	472.0 10
1944	6350.0 14	5340.0 12	4590.0 6	2970.0 5	2240.0 7	1800.0 3	1500.0 4	1300.0 3	912.0 6	488.0 9
1945	3600.0 22	3430.0 20	2640.0 18	1690.0 19	1550.0 12	1080.0 13	931.0 12	835.0 13	653.0 13	352.0 14
1946	13500.0 3	10100.0 3	5490.0 4	2800.0 8	1490.0 13	980.0 15	1010.0 10	869.0 12	865.0 7	508.0 8
1947	6440.0 10	5110.0 13	3790.0 11	2840.0 7	2360.0 4	1560.0 6	1630.0 1	1410.0 2	1020.0 4	596.0 4
1948	6360.0 13	5070.0 14	3760.0 12	1960.0 17	1430.0 15	837.0 18	682.0 18	536.0 19	504.0 17	265.0 20
1949	5100.0 18	4320.0 17	3130.0 16	2490.0 13	1560.0 11	1120.0 11	914.0 13	777.0 14	598.0 15	332.0 16
1950	7700.0 8	6450.0 8	3580.0 14	1960.0 15	1180.0 18	656.0 20	478.0 21	569.0 18	448.0 20	234.0 21
1951	5760.0 17	3360.0 21	2150.0 20	1910.0 18	1340.0 17	1140.0 10	1080.0 9	1070.0 7	847.0 8	469.0 11
1952	6400.0 12	5470.0 11	3610.0 13	2530.0 12	1630.0 10	1070.0 14	871.0 15	762.0 15	651.0 14	441.0 12
1953	5500.0 15	4190.0 18	2200.0 19	1390.0 21	962.0 20	923.0 17	753.0 17	651.0 16	520.0 16	287.0 18
1954	1860.0 29	1070.0 29	518.0 30	254.0 31	154.0 32	141.0 32	105.0 32	97.8 32	76.6 32	41.7 32
1955	4350.0 20	3510.0 19	2110.0 21	1320.0 23	807.0 23	475.0 23	440.0 23	352.0 23	252.0 24	158.0 23
1956	2000.0 27	987.0 31	471.0 31	346.0 30	239.0 30	223.0 30	167.0 30	126.0 31	85.4 31	48.4 31
1957	1550.0 30	829.0 32	411.0 32	216.0 32	191.0 31	171.0 31	150.0 31	128.0 30	94.8 30	56.5 30
1958	2000.0 28	1540.0 27	857.0 27	472.0 29	329.0 29	270.0 28	234.0 27	218.0 26	180.0 28	117.0 27
1959	3240.0 7	6320.0 7	4130.0 7	2760.0 9	1760.0 8	1310.0 9	1160.0 8	1070.0 8	794.0 10	421.0 13
1960	16500.0 2	13300.0 1	8530.0 1	4520.0 1	2590.0 2	1830.0 1	1570.0 2	1430.0 1	1150.0 1	740.0 1
1961	5400.0 16	4410.0 16	3220.0 15	2610.0 11	1720.0 9	1090.0 12	828.0 16	651.0 17	502.0 18	334.0 15
1962	10200.0 5	8830.0 4	6370.0 3	3850.0 3	2360.0 5	1360.0 8	1310.0 6	1080.0 6	928.0 5	647.0 3
1963	2300.0 26	2120.0 25	1960.0 22	1410.0 20	886.0 22	573.0 22	518.0 19	432.0 22	325.0 22	194.0 22
1964	2850.0 24	2340.0 24	1540.0 25	1060.0 24	615.0 24	400.0 25	326.0 25	268.0 25	196.0 26	107.0 28
1965	17300.0 1	13200.0 2	8100.0 2	4370.0 2	3400.0 1	1770.0 4	1500.0 3	1200.0 5	1110.0 2	688.0 2
1966	7330.0 9	6200.0 9	4090.0 8	2880.0 6	2250.0 6	1560.0 5	1200.0 7	1020.0 9	816.0 9	524.0 6
1967	4330.0 21	2790.0 22	1580.0 24	911.0 25	532.0 25	421.0 24	400.0 24	332.0 24	259.0 23	148.0 24
1968	1310.0 31	989.0 30	794.0 28	496.0 28	336.0 28	225.0 29	220.0 29	190.0 28	180.0 27	136.0 25
1969	6420.0 11	5850.0 10	3820.0 10	3170.0 4	2440.0 3	1800.0 2	1470.0 5	1250.0 4	1070.0 3	594.0 5
1970	11200.0 4	8460.0 5	4930.0 5	2690.0 10	1430.0 16	1370.0 7	999.0 11	932.0 10	773.0 11	523.0 7
1971	5000.0 19	4530.0 15	2970.0 17	1970.0 16	1160.0 19	669.0 19	504.0 20	456.0 20	488.0 19	330.0 17



STATION NUMBER 05455500

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

ENGLISH RIVER AT KALCNA, IOWA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34			
YEAR	NUMBER OF DAYS IN CLASS																																	CFS_DAYS				
1940	14	48	36	41	31	15	20	14	16	13	13	12	8	18	18	15	11	6	6	5	4	1	1													26555.3		
1941		7	24	29	12	9	19	20	41	30	28	21	19	28	17	12	12	14	4	5	5	4	3					2								42537.1		
1942						3	14	17	8	6	8	8	22	41	38	51	43	29	26	21	15	4	5	1	4	1										101792.0		
1943							12	14	1	4	25	9	13	21	33	29	33	22	28	35	22	22	5	10	13	7	4	1			1	1				172213.5		
1944										13	31	41	52	43	27	11	13	11	13	25	15	15	15	10	11	6	5	6	3						178789.0			
1945										33	70	47	26	17	10	3	13	16	26	26	25	14	12	13	2	4	8									128649.0		
1946											4	24	27	22	38	39	47	31	34	22	16	18	11	8	8	6	1	4	3			1	1			185330.0		
1947						2	10	16	12	8	8	3	6	27	25	20	29	37	31	26	28	16	13	14	8	7	7	9	3							217710.0		
1948			13	13	3	21	31	31	33	18	19	19	23	27	25	21	13	9	6	11	8	3	6	4			1	6	2							96994.6		
1949		1	2	8	3	2	13	34	17	8	21	21	40	44	15	20	16	20	19	8	15	6	6	10	7	3	1	1								121049.3		
1950						17	50	38	27	18	12	15	24	23	37	26	24	11	7	6	3	5	4	3	3	2	1	2			4					85393.0		
1951				46	38	25	4	6	3		5	16	16	16	20	10	7	10	8	23	29	22	14	16	11	11	7	1	1							171366.5		
1952						4	8	16	8	7	7	10	15	10	15	32	45	34	41	29	21	19	15	14	3	7	2	2	2							161253.2		
1953			3		7	15	33	32	5	6	5	7	3	32	22	23	17	29	19	27	26	13	13	10	8	4	3	1	1	1						104667.0		
1954		1	32	48	34	37	29	30	32	25	21	17	16	9	10	3	3	2	2	4	1	5	3			1										15222.5		
1955		4	20	16	4	4	5	7	11	27	47	29	27	24	11	20	31	18	15	17	6	5	6	4	1	1	3									57796.9		
1956	13	30	52	59	20	17	23	26	23	9	12	15	11	6	16	8	4	5	2	5	3	1	2	2			2								17711.0			
1957	1	12	22	23	22	24	15	22	30	35	28	18	22	18	22	14	9	5	5	6	5	4	1	1	1											20638.2		
1958						12	8	5	11	35	39	30	22	50	40	30	26	16	10	10	4	5	3	5	2	2										42654.5		
1959							6	48	24	12	37	19	15	18	25	14	18	21	16	21	14	13	4	10	10	11	6			1	2					153664.0		
1960								2	10	12	8	11	14	13	17	46	32	46	37	42	18	14	10	8	7	7	2	4	3	1	2					270860.0		
1961									6	24	13	34	43	23	30	25	29	17	18	30	16	17	10	7	6	5	5	4	3	1						121995.0		
1962							7	3	1	10	13	10	6	4	15	22	37	68	50	27	23	29	9	6	4	3	3	4	5	3	3					236022.0		
1963									3	57	40	34	43	39	26	19	30	19	14	7	9	9	3	3	6	4										70932.0		
1964									17	18	6	8	38	23	51	21	16	20	30	22	18	21	10	10	3	4	3	2	3							39197.6		
1965									18	41	12	18	6	10	9	6	13	18	18	23	20	27	22	19	12	15	8	9	8	11	4	7	6	3	1	1	250982.0	
1966										8	8	12	6	9	3	11	19	33	56	47	37	35	19	18	13	6	7	4	4	4	5	1				191361.0		
1967										17	15	11	24	27	31	25	33	34	31	24	19	18	10	10	13	10	3	5	1	1	1	1				54050.0		
1968											5	10	23	14	5	18	29	21	51	59	45	25	17	18	12	6	5	2	1							49804.5		
1969											7	5	16	18	14	14	4	23	22	19	13	15	29	30	30	21	21	18	13	9	4	10	6	4		216644.8		
1970																29	21	19	37	36	25	31	31	27	27	29	13	8	8	3	8	1	2	4	2	2	190736.0	
1971																	3	10	4	15	12	13	27	27	56	48	36	38	27	20	8	5	3	6		3	4	120579.0



STATION NUMBER 05455500

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

ENGLISH RIVER AT KALONA, IOWA

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	11688	100.0	9	11.00	455	10129	86.7	18	160.0	774	4482	38.3	27	2100	129	359	3.0
1	1.10	14	11698	100.0	10	15.00	455	9634	82.4	19	210.0	681	3708	31.7	28	2900	84	230	1.9
2	1.50	47	11674	99.9	11	20.00	573	9179	78.5	20	280.0	682	3027	25.9	29	3800	68	146	1.2
3	2.00	143	11627	99.5	12	27.00	629	8606	73.6	21	370.0	569	2345	20.1	30	5100	46	78	.6
4	2.60	202	11484	98.3	13	36.00	608	7977	68.2	22	500.0	470	1776	15.2	31	6900	19	32	.2
5	3.50	225	11262	96.5	14	49.00	642	7369	63.0	23	670.0	370	1306	11.2	32	9200	8	13	.1
6	4.70	308	11057	94.6	15	65.00	758	6727	57.6	24	900.0	226	936	8.0	33	12000	4	5	.0
7	6.30	317	10749	92.0	16	87.00	780	5969	51.1	25	1200.0	200	710	6.1	34	17000	1	1	
8	8.50	303	10432	89.3	17	120.00	707	5189	44.4	26	1600.0	151	510	4.4					



STATION NUMBER 05455700

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

IOWA RIVER NEAR LONE TREE, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1960	130.00 2	155.00 2	172.00 3	178.00 3	218.00 3	328.00 4	558.00 6	799.00 6	1240.00 8	2900.00 6
1961	200.00 5	210.00 5	245.00 6	208.00 6	361.00 5	454.00 7	653.00 7	821.00 7	901.00 5	3960.00 10
1962	296.00 3	315.00 8	349.00 8	398.00 9	576.00 10	1110.00 10	1060.00 10	1250.00 10	1670.00 10	3070.00 7
1963	320.00 9	340.00 9	364.00 9	370.00 8	393.00 7	421.00 5	546.00 5	727.00 5	570.00 7	3220.00 8
1964	150.00 3	162.00 3	164.00 2	167.00 2	190.00 2	202.00 2	221.00 2	240.00 1	354.00 1	959.00 1
1965	191.00 4	194.00 4	193.00 4	205.00 4	246.00 4	302.00 3	341.00 3	427.00 3	563.00 3	1540.00 4
1966	502.00 12	624.00 12	651.00 12	684.00 12	722.00 11	2260.00 12	2860.00 12	3300.00 12	3680.00 12	4640.00 12
1967	119.00 1	119.00 1	128.00 1	150.00 1	175.00 1	193.00 1	213.00 1	286.00 2	466.00 2	2070.00 9
1968	227.00 6	254.00 7	281.00 7	235.00 7	505.00 8	608.00 8	771.00 8	852.00 8	926.00 6	1260.00 2
1969	227.00 7	231.00 6	235.00 5	245.00 5	365.00 6	431.00 6	526.00 4	562.00 4	804.00 4	1460.00 3
1970	400.00 10	433.00 10	500.00 10	501.00 10	508.00 9	679.00 9	802.00 9	873.00 9	1510.00 9	4490.00 11
1971	500.00 11	509.00 11	540.00 11	622.00 11	980.00 12	1380.00 11	1740.00 11	2060.00 11	2430.00 11	3500.00 9



STATION NUMBER 05455700

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

IOWA RIVER NEAR LONE TREE, IOWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1959	14600.0 8	13200.0 8	10400.0 7	9690.0 7	9570.0 7	7700.0 4	6720.0 5	6130.0 5	4540.0 5	2510.0 7
1960	27300.0 2	23500.0 1	16600.0 3	13600.0 3	12400.0 2	10400.0 2	9260.0 2	7700.0 2	6280.0 2	3980.0 3
1961	16200.0 6	15400.0 5	13700.0 5	12000.0 4	9950.0 4	7610.0 5	5910.0 6	4870.0 7	3630.0 8	2320.0 9
1962	24500.0 3	21300.0 3	19000.0 1	15700.0 2	12400.0 3	9580.0 3	8450.0 3	7040.0 3	6040.0 3	4460.0 2
1963	10100.0 10	9240.0 10	7610.0 10	6540.0 10	5600.0 10	3770.0 10	3530.0 10	3010.0 10	2420.0 10	1570.0 10
1964	5550.0 13	4940.0 12	4050.0 12	3520.0 12	2620.0 12	1940.0 12	1850.0 12	1630.0 12	1310.0 12	843.0 13
1965	29200.0 1	23500.0 2	15700.0 4	10700.0 6	9710.0 6	7520.0 6	7160.0 4	6820.0 4	5660.0 4	3700.0 4
1966	14600.0 9	11200.0 9	9030.0 9	7530.0 9	6900.0 8	6210.0 8	5530.0 8	4920.0 6	4380.0 6	3600.0 5
1967	6710.0 11	5020.0 11	4390.0 11	4780.0 11	4070.0 11	2550.0 11	2230.0 11	2030.0 11	1670.0 11	1080.0 11
1968	5620.0 12	4800.0 13	3730.0 13	2450.0 13	1910.0 13	1460.0 13	1250.0 13	1340.0 13	1170.0 13	1060.0 12
1969	21500.0 4	20600.0 4	18500.0 2	17100.0 1	14800.0 1	11100.0 1	9400.0 1	8260.0 1	7560.0 1	4500.0 1
1970	16700.0 5	14600.0 6	10300.0 8	8550.0 8	5670.0 9	4380.0 9	4040.0 9	4280.0 9	3550.0 9	2480.0 8
1971	14700.0 7	14500.0 7	12900.0 6	11400.0 5	9890.0 5	7460.0 7	5570.0 7	4690.0 8	3960.0 7	2740.0 6







STATION NUMBER 05457700

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

CEDAR RIVER AT CHARLES CITY, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1966	124.00 3	128.00 3	148.00 3	167.00 3	171.00 3	215.00 4	217.00 6	352.00 6	688.00 6	1060.00 6
1967	85.00 1	108.00 2	126.00 2	134.00 2	141.00 2	151.00 2	174.00 2	187.00 2	210.00 2	472.00 2
1968	83.00 2	88.00 1	88.30 1	92.50 1	104.00 1	127.00 1	133.00 1	142.00 1	152.00 1	362.00 1
1969	150.00 4	157.00 5	162.00 5	169.00 4	232.00 6	233.00 6	245.00 4	270.00 4	482.00 5	664.00 3
1970	154.00 6	155.00 4	159.00 4	169.00 5	174.00 4	184.00 3	190.00 3	202.00 3	221.00 3	755.00 5
1971	150.00 5	164.00 6	179.00 6	189.00 6	200.00 5	223.00 5	254.00 5	278.00 5	458.00 4	667.00 4



STATION NUMBER 05457700

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

CEDAR RIVER AT CHARLES CITY, IOWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1965	19800.0 1	18600.0 1	14600.0 1	9490.0 1	5260.0 1	3400.0 1	2450.0 1	1930.0 2	1400.0 2	898.0 2
1966	7500.0 4	5330.0 4	2930.0 5	1900.0 5	1430.0 5	1280.0 4	1080.0 4	924.0 5	810.0 4	633.0 4
1967	4970.0 5	4430.0 5	3290.0 4	2490.0 4	1550.0 4	1040.0 6	1040.0 5	1000.0 4	759.0 5	482.0 5
1968	4360.0 6	3630.0 6	2570.0 6	1550.0 6	1170.0 6	1070.0 5	933.0 6	806.0 6	668.0 6	411.0 6
1969	15900.0 2	11700.0 2	10200.0 2	5910.0 2	3760.0 2	2190.0 2	1810.0 2	2000.0 1	1490.0 1	957.0 1
1970	1810.0 7	1710.0 7	1320.0 7	1080.0 7	958.0 7	825.0 7	711.0 7	640.0 7	514.0 7	365.0 7
1971	9510.0 3	7470.0 3	5640.0 3	3950.0 3	3280.0 3	2070.0 3	1570.0 3	1360.0 3	1030.0 3	745.0 3



STATION NUMBER 05457700

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

CEDAR RIVER AT CHARLES CITY, IOWA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34			
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS			
1965	27	34	73	43	25	22	15	18	16	16	8	6	12	7	3	4	3	3	3	1	5	3	2	1	1	3		2	2	2	3	2					327776.0	
1966			2	24	28	29	25	48	48	39	30	21	19	15	8	3	10	3	1	1	2		3	4		1	1										231112.0	
1967	1	4	13	57	71	41	24	20	22	19	13	17	13	5	12	7	4	2	2	3	3	5	2	4	1												175771.0	
1968	12	31	22	62	74	10	17	16	22	21	15	14	12	8	2	6	2	5	1	3	2	5	2	2													150516.0	
1969			2	6	12	81	40	24	25	20	16	23	19	15	16	7	13	9	7	7	7	3	1	2	2	2	2	1	2	1	1	1					349272.0	
1970			10	75	61	64	26	12	31	29	18	11	6	4	8	4	3	3																				133051.0
1971			2	31	42	36	24	19	22	23	32	28	18	28	14	13	6	7	5	1	2	2	2	3	2	2	1										271851.0	

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	2556	100.0	9	320.00	165	1222	47.8	18	1400.0	42	202	7.9	27	6200	8	27	1.0
1	85.00	13	2556	100.0	10	380.00	182	1057	41.4	19	1700.0	28	160	6.3	28	7300	3	19	.7
2	100.00	62	2543	99.5	11	450.00	155	875	34.2	20	2000.0	22	132	5.2	29	8600	4	16	.6
3	120.00	69	2451	97.1	12	530.00	135	720	28.2	21	2300.0	15	110	4.3	30	10000	3	12	.4
4	140.00	208	2412	94.4	13	620.00	114	585	22.9	22	2700.0	26	95	3.7	31	12000	3	9	.3
5	170.00	324	2204	86.2	14	730.00	87	471	18.4	23	3200.0	12	69	2.7	32	14000	4	6	.2
6	200.00	219	1880	73.6	15	860.00	83	384	15.0	24	3800.0	14	57	2.2	33	17000	2	2	.0
7	230.00	273	1681	65.0	16	1000.00	62	301	11.8	25	4500.0	11	43	1.7	34	20000			
8	270.00	156	1388	54.3	17	1200.00	37	239	9.4	26	5300.0	5	32	1.3					



STATION NUMBER 05458000

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

LITTLE CEDAR RIVER NEAR IONIA, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1956	5.50 2	5.53 2	5.56 2	5.82 2	5.91 2	6.11 2	6.74 2	8.63 2	11.10 2	58.80 4
1957	10.00 5	10.00 5	10.00 5	10.40 5	10.80 5	14.50 4	16.80 5	18.70 5	23.00 6	51.40 2
1958	10.00 6	10.00 6	10.00 6	10.80 6	15.80 8	20.10 8	24.70 8	28.30 8	28.30 7	52.90 3
1959	3.00 1	3.00 1	3.01 1	3.08 1	3.26 1	3.75 1	4.87 1	6.09 1	8.86 1	45.00 1
1960	21.00 10	21.70 10	23.00 10	23.30 10	24.80 10	30.60 11	52.90 14	56.30 14	69.90 12	97.60 8
1961	13.00 9	13.00 9	13.40 9	13.90 8	17.20 9	21.00 9	26.60 9	31.80 9	56.40 10	191.00 12
1962	24.00 11	25.70 14	26.70 14	28.90 14	30.60 14	31.10 12	35.30 11	44.60 11	61.30 11	151.00 10
1963	24.00 12	24.30 11	25.10 12	26.90 13	30.40 13	32.10 13	37.80 12	47.20 12	119.00 14	231.00 14
1964	12.00 7	12.00 7	12.10 7	12.20 7	13.40 6	16.00 6	18.20 6	20.50 6	22.50 5	75.60 6
1965	7.50 4	7.40 4	7.60 4	8.08 4	8.78 4	12.50 3	15.10 3	16.40 3	18.90 3	59.40 5
1966	24.00 13	25.00 13	25.40 13	26.10 11	29.40 12	59.40 15	79.70 15	92.00 16	245.00 16	341.00 16
1967	13.00 8	13.00 8	13.30 8	14.30 9	15.00 7	19.20 7	23.20 7	27.10 7	31.10 8	132.00 9
1968	6.00 3	6.00 3	6.11 3	6.54 3	7.96 3	14.60 5	16.30 4	18.10 4	20.30 4	86.20 7
1969	25.00 15	26.00 15	27.40 15	29.80 15	41.60 15	42.60 14	46.00 13	54.30 13	114.00 13	185.00 11
1970	24.00 14	24.30 12	25.00 11	26.60 12	27.60 11	28.80 10	30.90 10	36.30 10	42.60 9	255.00 15
1971	31.00 16	32.00 16	37.40 16	38.30 16	43.10 16	63.00 16	89.70 16	86.50 15	139.00 15	219.00 13



STATION NUMBER 05458000

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

LITTLE CEDAR RIVER NEAR ICNIA, IOWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1955	1290.0 12	982.0 12	642.0 12	351.0 14	208.0 14	185.0 13	178.0 13	159.0 13	118.0 13	89.9 12
1956	870.0 13	726.0 14	638.0 13	426.0 12	246.0 13	171.0 14	127.0 14	103.0 14	85.9 14	49.6 15
1957	624.0 15	474.0 15	261.0 15	170.0 15	148.0 15	131.0 15	107.0 15	89.9 15	79.4 15	50.4 14
1958	239.0 17	200.0 17	147.0 17	100.0 17	77.6 17	72.2 17	60.4 17	51.4 17	45.7 17	35.6 16
1959	1340.0 11	1250.0 10	1200.0 7	856.0 7	480.0 8	274.0 11	219.0 12	193.0 12	143.0 12	80.3 13
1960	1810.0 10	1210.0 11	768.0 11	441.0 11	331.0 11	314.0 9	276.0 10	239.0 9	188.0 9	128.0 8
1961	9930.0 1	7130.0 1	3740.0 3	1880.0 3	1080.0 4	663.0 4	485.0 4	382.0 5	312.0 5	177.0 6
1962	7940.0 2	5300.0 3	2760.0 4	1880.0 4	1180.0 3	666.0 3	486.0 3	408.0 3	390.0 3	228.0 4
1963	1930.0 8	1340.0 9	878.0 10	776.0 8	478.0 9	412.0 7	324.0 7	257.0 8	190.0 8	148.0 7
1964	342.0 16	272.0 16	202.0 16	136.0 16	96.9 16	87.9 16	71.0 16	60.5 16	46.4 16	33.9 17
1965	6280.0 4	5100.0 4	4060.0 2	2770.0 1	1470.0 2	913.0 1	652.0 2	510.0 2	439.0 2	257.0 2
1966	3230.0 5	2260.0 5	1170.0 8	651.0 9	555.0 6	467.0 6	359.0 6	300.0 6	289.0 6	205.0 5
1967	2370.0 6	2070.0 7	1380.0 6	881.0 6	503.0 7	308.0 10	314.0 8	295.0 7	213.0 7	122.0 9
1968	1870.0 9	1660.0 8	1000.0 9	569.0 10	421.0 10	350.0 8	283.0 9	230.0 10	185.0 10	104.0 11
1969	6870.0 3	5500.0 2	4740.0 1	2550.0 2	1580.0 1	910.0 2	675.0 1	709.0 1	530.0 1	314.0 1
1970	382.0 14	760.0 13	499.0 14	386.0 13	314.0 12	247.0 12	229.0 11	200.0 11	166.0 11	105.0 10
1971	2310.0 7	2230.0 6	1790.0 5	1170.0 5	968.0 5	601.0 5	448.0 5	402.0 4	333.0 4	232.0 3



STATION NUMBER 05458000

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

LITTLE CEDAR RIVER NEAR ICNIA, ICWA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34			
YEAR	NUMBER OF DAYS IN CLASS																																	CFS_DAYS				
1955					4	14	15	30	26	24	29	45	36	36	23	25	13	11	12	8	6	4	2			1	1										32831.4	
1956			28	50	12	10	13	56	37	39	16	26	26	11	12	7	6	2	5	2			4	2	2												18169.1	
1957						26	11	36	65	63	36	41	21	19	19	11	3	5	3	3				3													18411.0	
1958						17	31	32	81	59	50	37	25	8	9	2	3	3	2																		12994.0	
1959		39	15	16	20	24	11	36	8	9	27	24	34	18	23	15	6	5	9	10	2	2		2	3	4	4									29324.4		
1960									19	23	33	51	61	32	32	30	27	18	9	13	2	5	2	2	2	3	2	2									46859.0	
1961						16	6	37	26	34	65	41	29	34	15	8	14	11	11	2	4	1			3	1	2	1				1	2		1		64530.0	
1962									46	34	46	21	14	39	46	23	19	16	10	10	5	9	3	2	1	3	1	1	1		1	1		1	1	1	83127.0	
1963									5	56	46	63	23	14	45	25	15	11	16	7	8	8	4	5	4	3	2	1									54127.0	
1964				5	21	18	28	44	53	55	21	20	21	15	10	2	3	3	1	2																		12402.4
1965					7	13	39	41	44	29	17	32	12	18	18	15	14	10	4	9	4	3	1	2	1	4	1	7	2	3	3	3					93859.0	
1966									9	26	23	20	32	38	49	44	34	28	12	15	6	3	6	5	2	4	4	2	2	1							74877.0	
1967							23	13	45	71	36	22	28	21	26	15	9	11	11	6	3	5	4	5	2	1	2	1	1								44491.0	
1968			4	12	9	5	28	8	53	41	29	32	25	24	22	18	11	11	7	3	3	2	5	3	1	3	3										38061.8	
1969										21	76	27	32	30	27	17	31	23	16	10	11	15	6	8	2	2	5				3	1	2				114728.0	
1970									5	71	46	45	37	37	24	16	22	22	14	5	7	6	1	3														38359.0
1971										16	28	35	46	13	31	23	35	33	31	19	13	8	6	6	2	8	3	5										84559.0

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	6209	100.0	9	20.00	528	5301	85.4	18	170.0	241	959	15.4	27	1500	24	77	1.2
1	3.00	38	6209	100.0	10	26.00	676	4773	76.9	19	220.0	187	718	11.6	28	1900	23	53	.8
2	3.80	15	6171	99.4	11	33.00	523	4057	66.0	20	280.0	135	531	8.6	29	2400	6	30	.4
3	4.80	48	6156	99.1	12	41.00	692	3574	57.6	21	360.0	76	356	6.4	30	3100	5	24	.3
4	6.10	87	6108	98.4	13	53.00	510	2882	46.4	22	450.0	68	320	5.2	31	3900	7	19	.3
5	7.30	77	6021	97.0	14	67.00	384	2372	38.2	23	570.0	63	252	4.1	32	4900	7	12	.1
6	9.90	123	5944	95.7	15	85.00	438	1988	32.0	24	730.0	45	189	3.0	33	6300	3	5	.0
7	13.00	240	5821	93.8	16	110.00	339	1550	25.0	25	930.0	33	144	2.3	34	7900	2	2	.0
8	16.00	230	5581	89.9	17	140.00	252	1211	19.5	26	1200.0	34	111	1.8					



## STATION NUMBER 05458500

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## CEDAR RIVER AT JANESVILLE, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1906	190.00 42	190.00 38	197.00 37	200.00 35	230.00 36	267.00 35	285.00 34	316.00 32	352.00 32	1020.00 39
1916	100.00 21	140.00 28	140.00 26	163.00 28	183.00 28	271.00 36	371.00 39	444.00 40	553.00 38	1230.00 43
1917	57.00 8	60.00 6	50.00 4	62.10 3	67.70 2	73.70 1	81.30 2	114.00 4	143.00 5	871.00 34
1918	50.00 5	50.00 1	50.00 1	60.30 2	81.20 6	132.00 14	166.00 16	190.00 16	255.00 22	834.00 32
1919	250.00 45	250.00 44	250.00 44	252.00 43	300.00 43	415.00 45	653.00 47	704.00 47	724.00 43	930.00 35
1920	120.00 27	120.00 24	120.00 21	129.00 21	141.00 21	175.00 24	227.00 29	318.00 33	318.00 27	854.00 33
1921	113.00 25	118.00 23	142.00 28	223.00 38	251.00 39	344.00 42	355.00 38	407.00 38	437.00 36	620.00 22
1922	122.00 28	140.00 29	140.00 27	140.00 25	159.00 25	165.00 22	154.00 24	223.00 25	291.00 24	690.00 27
1923	28.00 1	60.00 7	60.00 5	65.40 5	77.00 5	89.00 4	96.70 5	125.00 6	154.00 8	425.00 9
1924	39.00 16	39.00 14	39.00 14	92.10 12	99.70 9	162.00 20	176.00 18	210.00 23	247.00 20	425.00 8
1925	90.00 17	90.00 15	91.40 15	95.70 15	101.00 10	116.00 8	151.00 13	193.00 19	322.00 30	538.00 16
1926	47.00 3	59.00 4	70.10 7	83.40 9	107.00 13	141.00 16	158.00 14	168.00 13	167.00 10	386.00 6
1927	94.00 19	114.00 21	123.00 22	139.00 24	165.00 30	197.00 28	212.00 27	251.00 27	299.00 25	402.00 7
1934	54.00 6	60.00 5	61.40 6	65.70 6	73.30 3	92.00 5	94.70 4	103.00 3	115.00 3	456.00 12
1935	43.00 4	50.70 2	57.10 3	63.50 4	70.70 4	81.20 3	83.10 3	84.70 1	93.40 1	450.00 11
1936	30.00 14	83.30 12	87.30 13	89.40 10	101.00 11	117.00 9	138.00 11	165.00 12	183.00 12	636.00 23
1937	67.00 10	97.00 18	100.00 18	105.00 18	123.00 19	138.00 15	176.00 19	227.00 26	319.00 28	555.00 18
1938	70.00 11	74.00 9	73.70 10	82.40 8	86.60 7	96.10 7	123.00 7	145.00 10	185.00 13	590.00 20
1939	154.00 40	252.00 45	269.00 45	298.00 45	379.00 46	463.00 46	464.00 44	509.00 44	744.00 45	986.00 36
1940	90.00 18	90.00 16	92.10 16	97.90 16	108.00 14	122.00 10	135.00 10	141.00 8	149.00 6	296.00 3
1941	65.00 9	71.30 8	77.40 9	92.10 13	106.00 12	146.00 17	166.00 15	210.00 24	331.00 31	550.00 17
1942	155.00 36	190.00 39	213.00 40	226.00 39	240.00 37	322.00 40	390.00 40	474.00 42	599.00 40	1000.00 37
1947	156.00 37	181.00 35	192.00 35	204.00 36	224.00 35	234.00 32	332.00 37	367.00 37	566.00 39	640.00 24
1948	143.00 30	162.00 33	164.00 33	167.00 30	171.00 26	198.00 29	226.00 28	252.00 28	285.00 23	1170.00 42
1949	110.00 23	117.00 22	130.00 25	145.00 26	157.00 24	175.00 25	183.00 22	191.00 17	202.00 15	585.00 19
1950	77.00 13	78.70 11	82.90 11	90.00 11	114.00 16	128.00 13	129.00 9	143.00 9	150.00 7	599.00 21
1951	47.00 20	100.00 19	100.00 17	101.00 17	114.00 17	124.00 11	127.00 8	138.00 7	158.00 9	478.00 13
1952	250.00 46	307.00 47	350.00 47	417.00 47	440.00 47	545.00 47	623.00 46	641.00 46	702.00 42	1610.00 46
1953	111.00 24	127.00 25	144.00 29	174.00 31	184.00 29	193.00 27	199.00 25	203.00 20	254.00 21	754.00 29
1954	105.00 22	110.00 20	112.00 20	115.00 19	125.00 18	154.00 18	183.00 23	206.00 22	225.00 19	680.00 25
1955	150.00 34	187.00 37	193.00 36	195.00 34	202.00 33	243.00 34	279.00 33	335.00 35	431.00 35	766.00 31
1956	74.00 12	76.70 10	77.10 8	82.00 7	88.20 8	93.40 6	97.50 6	115.00 5	130.00 4	286.00 2
1957	84.00 15	94.00 13	87.10 12	94.80 14	112.00 15	126.00 12	140.00 12	147.00 11	176.00 11	255.00 5
1958	56.00 7	94.30 17	103.00 19	115.00 20	141.00 20	160.00 19	176.00 20	182.00 14	186.00 14	297.00 4
1959	45.00 2	52.00 3	54.70 2	56.40 1	62.30 1	73.80 2	81.00 1	94.40 2	107.00 2	271.00 1
1960	176.00 39	213.00 41	231.00 41	248.00 41	264.00 40	312.00 39	445.00 42	437.00 39	494.00 37	705.00 28
1961	155.00 32	155.00 30	158.00 30	164.00 29	192.00 32	236.00 33	256.00 31	267.00 29	318.00 26	1000.00 38
1962	154.00 35	177.00 36	179.00 34	137.00 33	203.00 34	223.00 30	250.00 30	299.00 31	366.00 33	680.00 26



STATION NUMBER 05458500

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

CEDAR RIVER AT JANESVILLE, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1963	220.00 43	240.00 42	241.00 42	250.00 42	271.00 42	294.00 38	306.00 36	356.00 36	641.00 41	1250.00 44
1964	147.00 31	156.00 31	161.00 31	162.00 27	175.00 27	191.00 26	199.00 26	205.00 21	223.00 18	499.00 14
1965	120.00 26	127.00 26	129.00 23	133.00 22	142.00 22	165.00 21	178.00 21	191.00 18	206.00 17	441.00 10
1966	173.00 38	184.00 36	209.00 38	240.00 40	246.00 38	344.00 41	487.00 45	555.00 45	1100.00 47	1620.00 47
1967	156.00 33	157.00 32	163.00 32	175.00 32	186.00 31	227.00 31	266.00 32	292.00 30	322.00 29	760.00 30
1968	128.00 29	129.00 27	129.00 24	134.00 23	143.00 23	169.00 23	174.00 17	185.00 15	203.00 16	519.00 15
1969	190.00 41	199.00 40	211.00 39	220.00 37	235.00 44	364.00 43	404.00 41	452.00 41	741.00 44	1030.00 40
1970	248.00 44	246.00 43	290.00 43	298.00 44	266.00 41	272.00 37	287.00 35	322.00 34	372.00 34	1320.00 45
1971	292.00 47	296.00 46	308.00 46	319.00 46	346.00 45	405.00 44	458.00 43	494.00 43	755.00 46	1090.00 41



STATION NUMBER 05458500

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

CEDAR RIVER AT JANESVILLE, IOWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1905	5150.0 39	4330.0 39	3430.0 38	3090.0 33	2380.0 31	1830.0 31	1520.0 28	1560.0 17	1310.0 17	779.0 19
1906	22600.0 5	17500.0 6	10000.0 8	5880.0 9	4140.0 8	3320.0 6	2750.0 4	2460.0 4	1840.0 6	1160.0 8
1915	6300.0 33	6460.0 28	5600.0 23	4080.0 22	3030.0 17	2810.0 8	2240.0 9	2260.0 5	2100.0 3	1280.0 3
1916	8740.0 26	7340.0 22	5200.0 25	4080.0 23	2880.0 20	2580.0 10	2480.0 7	2140.0 8	1690.0 8	1030.0 10
1917	21200.0 8	16100.0 8	10400.0 6	5790.0 10	3500.0 14	2250.0 17	1990.0 14	2070.0 9	1570.0 11	865.0 15
1918	7220.0 30	5900.0 32	4240.0 32	2540.0 39	1890.0 37	1330.0 37	1290.0 36	1240.0 34	1110.0 24	734.0 23
1919	6700.0 34	6650.0 26	5550.0 24	4660.0 15	3060.0 16	2560.0 11	2070.0 12	1830.0 12	1460.0 12	1020.0 12
1920	6000.0 36	5570.0 35	4200.0 33	3290.0 32	2410.0 29	1770.0 32	1450.0 30	1260.0 32	967.0 34	659.0 29
1921	14400.0 13	10400.0 16	6460.0 18	4110.0 20	2860.0 21	1840.0 29	1420.0 33	1250.0 33	984.0 33	705.0 25
1922	4600.0 40	3930.0 40	3190.0 40	2210.0 40	1730.0 38	1590.0 35	1310.0 35	1100.0 38	870.0 39	553.0 41
1923	4210.0 42	3880.0 41	3010.0 41	2650.0 38	1630.0 39	1000.0 42	775.0 43	639.0 44	483.0 44	327.0 45
1924	4410.0 41	3380.0 42	2730.0 42	1830.0 42	1380.0 43	1120.0 41	894.0 41	794.0 41	844.0 41	596.0 37
1925	6090.0 35	6210.0 31	4080.0 34	2760.0 36	1530.0 41	871.0 44	677.0 44	674.0 43	543.0 43	379.0 43
1926	3310.0 46	3200.0 45	2140.0 46	1420.0 47	1020.0 47	707.0 46	595.0 46	530.0 45	435.0 45	327.0 44
1927	4010.0 43	3410.0 43	2620.0 43	1850.0 42	1500.0 42	1300.0 39	1210.0 38	1190.0 37	929.0 37	610.0 34
1933	25000.0 3	21700.0 3	12200.0 5	6730.0 6	3670.0 12	2230.0 18	1740.0 18	1470.0 21	1130.0 22	674.0 28
1934	10100.0 23	6250.0 30	3370.0 39	1890.0 41	1050.0 45	599.0 49	437.0 50	370.0 50	275.0 51	187.0 51
1935	6330.0 28	7200.0 23	5680.0 22	4200.0 18	2970.0 18	1840.0 30	1460.0 31	1200.0 35	987.0 32	570.0 39
1936	10700.0 21	5880.0 18	9030.0 11	6620.0 7	3980.0 10	2380.0 14	1710.0 19	1330.0 26	949.0 36	608.0 35
1937	11700.0 18	11200.0 19	8300.0 13	4780.0 14	2860.0 22	1900.0 26	1620.0 23	1620.0 16	1200.0 19	718.0 24
1938	8740.0 27	7000.0 25	4570.0 29	2860.0 35	1960.0 36	1730.0 33	1420.0 34	1320.0 27	1150.0 20	779.0 20
1939	7000.0 32	5830.0 33	4270.0 31	3620.0 28	2410.0 30	1630.0 34	1230.0 37	1060.0 39	914.0 38	613.0 32
1940	3770.0 44	2970.0 46	2050.0 48	1300.0 48	886.0 48	607.0 47	451.0 49	382.0 49	428.0 47	296.0 46
1941	4040.0 29	5810.0 34	3770.0 37	2670.0 37	2610.0 26	2330.0 16	1900.0 16	1820.0 13	1360.0 15	876.0 14
1942	3620.0 25	6480.0 27	5750.0 20	4020.0 26	2740.0 24	2380.0 15	2050.0 13	1810.0 14	1630.0 9	1210.0 6
1946	11500.0 19	7310.0 21	4850.0 27	4050.0 25	2810.0 23	1880.0 27	1620.0 24	1360.0 25	1060.0 27	777.0 21
1947	9020.0 24	7130.0 24	5740.0 21	4080.0 24	2900.0 19	2150.0 19	2130.0 10	2030.0 10	1580.0 10	1030.0 11
1948	21200.0 9	15900.0 9	9330.0 10	5030.0 13	4160.0 7	2530.0 12	1530.0 15	1550.0 18	1130.0 21	682.0 27
1949	10500.0 22	8580.0 19	6170.0 19	4590.0 16	3900.0 11	2490.0 13	1800.0 17	1480.0 20	1070.0 26	637.0 30
1950	15700.0 11	12100.0 13	7250.0 15	4210.0 17	3570.0 13	2080.0 20	1570.0 25	1270.0 31	1010.0 30	582.0 38
1951	23900.0 4	20300.0 4	15300.0 4	10700.0 3	7720.0 1	4830.0 2	3760.0 1	3200.0 2	2530.0 2	1400.0 2
1952	14200.0 15	12500.0 12	8540.0 12	5230.0 12	4040.0 9	2710.0 9	2120.0 11	1810.0 15	1460.0 13	1010.0 13
1953	14400.0 14	11600.0 14	7100.0 17	4110.0 19	2720.0 25	2030.0 21	1650.0 22	1460.0 22	1250.0 18	750.0 22
1954	17300.0 10	15600.0 10	9860.0 9	5450.0 11	3110.0 15	1950.0 24	1530.0 27	1300.0 29	995.0 31	613.0 33
1955	3360.0 45	3380.0 44	2340.0 44	1570.0 46	1190.0 44	932.0 43	818.0 42	745.0 42	591.0 42	465.0 42
1956	3240.0 47	2820.0 47	2120.0 47	1650.0 45	1040.0 46	746.0 45	598.0 45	516.0 46	433.0 46	284.0 49
1957	1650.0 49	1590.0 49	1170.0 49	863.0 49	712.0 49	603.0 48	526.0 47	451.0 47	408.0 48	289.0 47
1958	1000.0 50	933.0 51	813.0 51	612.0 51	459.0 51	424.0 51	373.0 51	332.0 51	284.0 50	226.0 50



STATION NUMBER 05458500

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

CEDAR RIVER AT JANESVILLE, IOWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1959	5760.0 38	5170.0 38	4530.0 30	3740.0 27	2280.0 33	1320.0 38	1160.0 35	1190.0 36	954.0 35	553.0 40
1960	12000.0 17	8250.0 20	4970.0 26	2890.0 34	2130.0 35	1980.0 22	1690.0 20	1490.0 19	1110.0 23	757.0 18
1961	34900.0 1	26700.0 1	15600.0 3	9280.0 4	4790.0 6	3010.0 7	2280.0 8	1860.0 11	1430.0 14	860.0 16
1962	21800.0 6	17000.0 7	10300.0 7	7900.0 5	5540.0 4	3340.0 5	2490.0 6	2180.0 7	1910.0 5	1160.0 7
1963	5800.0 37	5270.0 37	3850.0 36	3550.0 29	2300.0 32	1860.0 28	1570.0 26	1300.0 30	1050.0 28	816.0 17
1964	1000.0 51	938.0 50	928.0 50	640.0 50	578.0 50	564.0 50	483.0 48	421.0 48	348.0 49	284.0 48
1965	27400.0 2	25000.0 2	19800.0 1	13200.0 1	7510.0 2	4860.0 1	3510.0 2	2790.0 3	2010.0 4	1250.0 4
1966	15400.0 12	12600.0 11	7160.0 16	4090.0 21	2530.0 27	1970.0 23	1670.0 21	1450.0 23	1350.0 16	1120.0 5
1967	7020.0 31	6230.0 29	4730.0 28	3540.0 30	2270.0 34	1450.0 36	1450.0 32	1420.0 24	1090.0 25	698.0 26
1968	12600.0 16	5550.0 36	4000.0 35	3390.0 31	2510.0 28	1930.0 25	1510.0 29	1320.0 28	1040.0 29	624.0 31
1969	21500.0 7	19400.0 5	17300.0 2	10700.0 2	6790.0 3	3950.0 3	3050.0 3	3350.0 1	2540.0 1	1610.0 1
1970	2730.0 48	2630.0 48	2220.0 45	1760.0 44	1620.0 40	1270.0 40	1110.0 40	1030.0 40	847.0 40	602.0 36
1971	11100.0 20	10200.0 17	8150.0 14	6010.0 8	5080.0 5	3410.0 4	2590.0 5	2210.0 6	1700.0 7	1240.0 5



STATION NUMBER 054585CC

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

CEDAR RIVER AT JANESVILLE, ICWA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	YEAR	CFS_DAYS
		NUMBER OF DAYS IN CLASS																																			
									23	56	10	47	8	26	48	32	14	18	14	17	7	7	20	13	3	2									1905	284270.0	
											31	26	27	34	60	31	27	13	15	15	21	19	12	14	12	2	2	1		1			2		1906	423990.0	
											21	23	18	1	49	18	9	17	62	20	18	36	16	18	15	3	12	8	1						1915	468646.0	
								1	10	17	36	19	42	20	22	28	25	34	21	25	20	12	12	5	5	4	1	3	4						1916	375429.0	
					11	37	30	1	15	34	24	13	26	8	15	20	24	20	14	33	7	9	9	3	2	2	2	1	1	1	1	1	1	1	1	1917	315671.0
			10								11	10																							1918	267914.0	
													1	3	35	20	64	33	19	40	18	26	33	26	17	4	2	7	8	2	2				1919	373550.0	
														5	19	21	8	50	45	46	39	18	29	28	14	11	14	5	8	2	1	1	2		1920	241160.0	
																																			1921	257260.0	
																																			1922	202003.0	
																																				1923	119524.0
																																				1924	218084.0
																																				1925	138396.0
																																				1926	119226.0
																																				1927	222649.0
																																				1933	245833.0
																																				1934	68146.0
																																				1935	208077.0
																																				1936	222566.0
																																				1937	262044.0
																																				1938	284277.0
																																				1939	223719.0
																																				1940	108156.0
																																				1941	319645.0
																																				1942	439888.0
																																				1946	283528.0
																																				1947	375959.0
																																				1948	249666.0
																																				1949	232544.0
																																				1950	212474.0
																																				1951	512756.0
																																				1952	371180.0
																																				1953	273727.0
																																				1954	223692.0
																																				1955	169879.0
																																				1956	104111.0
																																				1957	105506.0
																																				1958	82596.0



STATION NUMBER 05458500

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

CEDAR RIVER AT JANESVILLE, IOWA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34			
YEAR	NUMBER OF DAYS IN CLASS																																			CFS_DAYS		
1959				3	19	18	45	32	28	15	13	15	38	30	23	14	17	9	7	8	3	4	8	7	3	5	1											201527.0
1960										1	3	31	45	64	55	31	44	23	21	11	18	2	3	5	3	4		1		1							291719.0	
1961										19	27	55	71	51	28	27	20	15	10	17	6	2	5	1	1	4	2				1	1				2	314075.0	
1962										8	25	35	37	34	32	32	35	34	21	18	11	5	6	8	9	3	2	5		2	1	1	1			421706.0		
1963										1	2	24	78	59	39	44	26	16	17	13	11	8	10	5	5	6	1										297752.0	
1964									25	55	101	81	35	9	24	21	11	3	1																			104114.0
1965									25	39	65	43	25	14	28	23	19	12	14	13	6	3	5	3	4	5	4	2	2	3	3	1	2	2		455399.0		
1966												5	29	23	39	54	63	38	29	33	16	10	5	5	3	5	3	2	1		2					408878.0		
1967										18	32	44	91	30	25	23	26	19	17	7	8	3	7	3	7	2	1	2									254745.0	
1968									24	47	70	57	20	15	17	37	15	13	10	7	6	1	10	3	4	5					1						228296.0	
1969												2	24	43	46	44	40	22	26	22	26	7	15	15	9	4	6	5	3			1	3	2			587620.0	
1970												46	58	73	53	22	42	30	11	9	12	3	6															215869.0
1971																																						451186.0

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	18626	100.0	9	150.00	1576	16538	88.8	18	1000.0	699	3183	17.1	27	6700	58	161	.8
1	23.00	1	18626	100.0	10	190.00	1597	14962	80.3	19	1200.0	626	2484	13.3	28	8300	23	103	.5
2	35.00	0	18525	100.0	11	230.00	1617	13365	71.8	20	1500.0	515	1858	10.0	29	10000	25	70	.3
3	43.00	21	18625	100.0	12	280.00	1857	11748	63.1	21	1900.0	277	1343	7.2	30	13000	16	45	.2
4	53.00	62	18604	99.9	13	350.00	1660	9851	53.1	22	2300.0	311	1066	5.7	31	16000	12	29	.1
5	65.00	193	18542	99.5	14	430.00	1545	8231	44.2	23	2900.0	220	755	4.1	32	19000	11	17	.0
6	80.00	400	13349	98.5	15	540.00	1271	6686	35.9	24	3600.0	177	535	2.9	33	24000	4	6	.0
7	99.00	473	17949	96.4	16	660.00	1253	5415	29.1	25	4400.0	120	358	1.9	34	29000	2	2	.0
8	120.00	933	17471	93.8	17	820.00	979	4162	22.3	26	5400.0	77	238	1.3					



STATION NUMBER 0545890C

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

WEST FORK CEDAR RIVER AT FINCHFORD, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1947	65.00 21	66.70 21	72.10 21	83.20 21	105.00 22	113.00 21	137.00 21	162.00 21	179.00 18	247.00 9
1948	36.00 12	36.00 11	36.00 11	36.80 10	40.40 10	59.00 14	80.90 14	93.10 14	95.90 14	677.00 22
1949	24.00 9	24.70 9	25.90 9	27.30 9	28.30 7	33.20 6	36.80 7	41.90 6	48.10 5	235.00 8
1950	16.00 5	16.30 4	17.30 4	18.10 4	20.50 4	22.30 4	25.50 4	29.90 4	35.30 4	225.00 7
1951	21.00 7	21.00 7	21.00 7	21.40 6	26.00 6	31.50 5	36.50 5	48.70 7	72.60 11	398.00 16
1952	140.00 25	140.00 25	142.00 25	146.00 25	167.00 25	227.00 25	269.00 25	308.00 24	390.00 24	1150.00 25
1953	50.00 17	50.50 17	51.00 17	53.00 17	53.90 16	55.30 11	57.90 10	58.80 10	66.90 9	336.00 12
1954	17.00 6	17.00 5	17.60 5	18.10 5	25.50 5	35.50 8	45.10 8	49.50 8	55.80 7	210.00 5
1955	35.00 11	36.70 12	40.10 14	42.70 14	48.70 14	82.60 18	107.00 18	146.00 19	216.00 19	450.00 17
1956	8.00 2	8.00 2	8.00 2	8.33 2	8.97 2	10.20 2	14.30 2	20.60 3	27.20 3	89.80 2
1957	11.00 3	11.00 3	11.00 3	11.00 3	12.50 3	16.50 3	19.20 3	20.50 2	20.70 2	57.60 1
1958	15.00 4	18.00 6	19.60 6	25.10 8	33.40 9	34.50 7	36.80 6	41.90 5	53.20 6	93.20 3
1959	5.00 1	5.93 1	6.06 1	6.32 1	6.37 1	7.82 1	9.90 1	12.90 1	17.50 1	166.00 4
1960	74.00 22	77.70 22	88.60 22	101.00 22	127.00 24	146.00 23	197.00 23	224.00 23	251.00 22	378.00 15
1961	42.00 15	42.00 15	42.60 15	44.60 15	56.70 17	71.20 15	94.10 17	110.00 16	142.00 15	576.00 21
1962	29.00 10	30.30 10	32.30 10	37.10 11	41.90 11	52.80 10	63.10 11	75.00 13	81.50 13	291.00 11
1963	54.00 20	64.00 19	64.30 18	65.70 18	65.90 18	75.50 17	87.50 16	118.00 17	241.00 21	558.00 19
1964	48.00 16	48.30 16	49.10 16	49.50 16	51.30 15	55.90 12	65.80 13	69.10 12	75.80 12	363.00 14
1965	38.00 14	38.00 14	38.30 12	40.50 12	48.40 13	73.50 16	86.30 15	93.70 15	150.00 16	215.00 6
1966	87.00 23	88.70 23	95.90 23	107.00 24	116.00 23	214.00 24	248.00 24	417.00 25	694.00 25	1010.00 24
1967	37.00 13	37.30 13	39.00 13	41.40 13	45.00 12	58.10 13	65.60 12	63.90 11	72.50 10	347.00 13
1968	22.00 8	22.00 8	22.40 8	23.20 7	25.70 8	47.80 9	54.90 9	56.60 9	60.40 8	255.00 10
1969	60.00 13	60.70 18	65.60 19	78.60 20	97.50 20	140.00 22	159.00 22	222.00 22	312.00 23	575.00 20
1970	100.00 24	100.00 24	101.00 24	103.00 23	104.00 21	111.00 20	123.00 20	145.00 18	167.00 17	840.00 23
1971	64.00 19	65.00 20	67.00 20	70.40 19	80.90 19	94.80 19	113.00 19	154.00 20	219.00 20	506.00 18



STATION NUMBER 05458900

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

WEST FORK CEDAR RIVER AT FINCHFORD, IOWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1946	4290.0 19	3400.0 19	2520.0 19	2370.0 13	1630.0 14	1030.0 16	806.0 16	667.0 18	527.0 17	343.0 13
1947	8440.0 10	7350.0 8	5450.0 7	4060.0 7	3350.0 4	2070.0 4	1590.0 4	1420.0 4	1050.0 4	604.0 5
1948	8470.0 9	6020.0 10	3690.0 12	2280.0 14	1840.0 12	1180.0 11	967.0 12	780.0 14	540.0 16	308.0 17
1949	5580.0 14	4050.0 16	2670.0 17	1530.0 19	1320.0 19	860.0 18	627.0 20	509.0 20	380.0 21	222.0 21
1950	7500.0 11	5170.0 13	3000.0 14	1710.0 18	1600.0 15	980.0 17	884.0 15	848.0 13	608.0 13	325.0 14
1951	25100.0 1	15300.0 1	9110.0 2	5800.0 3	3920.0 3	2950.0 1	2540.0 1	2600.0 1	2060.0 1	1120.0 1
1952	5200.0 15	4110.0 15	2870.0 16	2110.0 15	1670.0 13	1170.0 12	996.0 11	868.0 12	748.0 10	497.0 9
1953	2250.0 21	2080.0 21	1520.0 21	949.0 21	680.0 21	632.0 21	534.0 21	464.0 21	440.0 20	255.0 20
1954	11200.0 6	9300.0 6	7490.0 4	4490.0 4	2620.0 8	1490.0 9	1130.0 9	910.0 10	666.0 12	363.0 12
1955	850.0 24	780.0 24	671.0 23	581.0 23	477.0 22	345.0 22	294.0 22	247.0 22	235.0 22	179.0 22
1956	590.0 26	498.0 26	403.0 26	375.0 25	279.0 25	210.0 25	170.0 25	142.0 26	104.0 26	65.5 26
1957	1000.0 23	827.0 23	580.0 24	385.0 24	308.0 24	213.0 24	163.0 26	149.0 25	122.0 25	73.6 25
1958	625.0 25	575.0 25	436.0 25	310.0 26	224.0 26	205.0 26	171.0 24	160.0 24	165.0 24	109.0 24
1959	4490.0 17	4120.0 14	3550.0 13	2460.0 12	1460.0 16	814.0 20	760.0 18	711.0 16	557.0 14	298.0 18
1960	9400.0 7	8270.0 7	5000.0 8	2950.0 10	2000.0 10	1670.0 7	1250.0 7	983.0 9	719.0 11	475.0 10
1961	14100.0 4	11600.0 3	7440.0 5	4330.0 6	2660.0 7	1850.0 6	1380.0 6	1100.0 6	760.0 9	433.0 11
1962	13100.0 5	9330.0 5	6480.0 6	4460.0 5	2860.0 6	1620.0 8	1200.0 8	1080.0 7	932.0 5	516.0 7
1963	3430.0 19	3330.0 19	2600.0 18	1940.0 17	1460.0 17	1170.0 13	1120.0 10	998.0 8	791.0 8	500.0 8
1964	1290.0 22	1220.0 22	965.0 22	668.0 22	443.0 23	324.0 22	261.0 23	224.0 23	232.0 23	156.0 23
1965	16300.0 2	14000.0 2	11000.0 1	7060.0 2	4170.0 2	2460.0 3	1850.0 3	1540.0 3	1340.0 3	769.0 3
1966	4580.0 16	3800.0 17	2920.0 15	1960.0 16	1350.0 18	1060.0 14	892.0 14	503.0 11	792.0 7	639.0 4
1967	5720.0 12	5790.0 11	4360.0 11	2800.0 11	1840.0 11	1050.0 15	778.0 17	629.0 19	463.0 19	266.0 19
1968	9370.0 8	6390.0 9	4490.0 9	3130.0 9	2230.0 9	1300.0 10	949.0 13	743.0 15	548.0 15	310.0 16
1969	16200.0 3	11500.0 4	7910.0 3	7130.0 1	4580.0 1	2720.0 2	2110.0 2	2320.0 2	1740.0 2	1030.0 2
1970	2390.0 20	2230.0 20	1770.0 20	1520.0 20	1280.0 20	841.0 19	723.0 19	671.0 17	492.0 18	316.0 15
1971	6020.0 13	5420.0 12	4430.0 10	3300.0 8	2880.0 5	1890.0 5	1430.0 5	1240.0 5	897.0 6	556.0 6



STATION NUMBER 05458900

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

WEST FORK CEDAR RIVER AT FINCHFORD, IOWA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	CFS_DAYS
YEAR	NUMBER OF DAYS IN CLASS																																			
1946							1	6	17	25	24	80	72	32	27	25	13	10	7	11	1	4	4	2	3	1										125190.0
1947									12	35	27	59	41	36	22	18	21	15	14	24	9	6	3	9	6	4	1	2	1	1						220419.0
1948			1	23	26	36	14	55	23	27	49	12	5	14	26	17	9	6	9	3	2	2	1	1	2	1	1	2	1	1	1				112872.0	
1949				6	23	73	55	37	25	17	26	19	13	14	17	11	4	4	5	3	4	1	2					1	1						81033.0	
1950					29	18	23	39	44	19	5	13	8	21	23	11	9	35	18	14	9	7	1	8	3	2	4			1	1				118472.0	
1951						16	9	37	18	10	10	21	4	11	13	12	3	15	28	25	24	20	20	9	15	9	11	7	5	5	5	2		1	410131.0	
1952									4	15	15	3	32	31	7	57	63	53	26	15	20	11	7	3	2			1	1						181983.0	
1953										3	132	23	10	9	14	23	34	27	32	22	11	10	7	4	1	3									92972.0	
1954					14	6	4	11	28	62	33	45	20	15	23	23	19	8	13	5	9	14	1	1	3	1	1	1		2	2	1			132645.0	
1955					12	16	17	9	27	18	21	29	24	45	33	27	41	20	18	6	2															65325.0
1956			21	24	24	20	21	32	59	51	16	11	25	14	16	13	3	8	5	2	1															23960.6
1957				15	25	16	46	37	26	40	23	36	37	17	22	10	5	2	2	2	1	2	1													26847.0
1958					2	22	26	9	31	42	62	50	26	36	22	13	9	8	4	3																39942.0
1959			33	13	13	29	29	28	0	4	1	1	6	12	13	36	25	19	24	17	9	10	5	9	3	7	4	2	3	2					108616.2	
1960												20	38	70	44	37	48	20	14	20	11	14	11	8	2	4	1	1			1	2			174025.0	
1961								2	8	19	22	47	35	29	63	25	17	17	12	8	8	15	13	10	3	4	1	1	2	1		1	1	1	158023.0	
1962									5	24	42	30	28	24	11	19	30	24	27	23	18	14	12	8	7	4	8	2	1	1	1	1		1	188287.0	
1963										6	45	56	8	23	13	31	32	29	34	18	13	14	16	7	10	5	5									182629.0
1964										19	53	80	64	33	28	12	20	18	24	6	3	2	2	2											57020.0	
1965									7	17	3	18	40	45	47	22	26	22	14	12	8	11	15	12	10	3	7	8	3	1	4	3		2	1	280642.0
1966											13	8	7	4	23	18	12	28	38	79	43	30	24	15	6	5	5	3	4							233183.0
1967										4	41	43	72	36	27	51	21	18	8	7	7	4	5	6	3	3	3	1	1	1	2	1			97173.0	
1968					12	8	6	45	39	28	48	20	44	21	25	19	9	9	6	3	3	4	3	3	5	4			1		1				113472.0	
1969												10	33	37	49	40	27	24	16	27	20	21	17	11	9	6	4	3	3	5	2			1	374636.0	
1970													1	17	50	55	60	38	22	17	45	25	5	6	6	3	10	5							115450.0	
1971										9	11	6	11	54	17	20	14	26	26	33	44	32	16	10	11	4	6	3	6	3	3					202868.0



DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

WEST FORK CEDAR RIVER AT FINCHFORD, IOWA

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	9496	100.0	9	40.00	529	8514	89.7	18	350.0	576	2595	27.3	27	3000	66	182	1.9
1	5.90	33	9496	100.0	10	51.00	630	7985	84.1	19	440.0	516	2019	21.3	28	3900	38	116	1.2
2	7.50	34	9463	99.7	11	65.00	699	7355	77.5	20	570.0	321	1503	15.8	29	4900	22	78	.8
3	9.50	52	9429	99.3	12	83.00	807	6656	70.1	21	720.0	260	1182	12.4	30	6200	21	56	.5
4	12.00	78	9377	98.7	13	110.00	547	5849	61.6	22	910.0	266	922	9.7	31	7900	22	35	.3
5	15.00	122	9259	97.9	14	130.00	935	5302	55.8	23	1200.0	172	656	6.9	32	10000	6	13	.1
6	20.00	136	9177	96.5	15	170.00	644	4367	46.0	24	1500.0	127	484	5.1	33	13000	4	7	.0
7	25.00	195	8951	94.7	16	220.00	553	3723	39.2	25	1900.0	97	357	3.8	34	16000	3	3	.0
8	32.00	282	8756	92.6	17	280.00	575	3170	33.4	26	2400.0	78	260	2.7					



STATION NUMBER 05459000

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

SHELL ROCK RIVER NEAR NORTHWOOD, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1947	10.00 10	10.70 10	12.30 13	14.40 14	17.50 13	24.10 14	60.40 22	77.20 23	92.40 21	141.00 17
1948	11.00 13	11.00 11	11.00 9	11.00 6	12.80 5	22.90 13	31.30 16	33.00 14	33.70 14	177.00 20
1949	17.00 19	17.00 18	17.10 17	18.40 17	23.00 16	30.70 20	30.10 13	32.00 13	32.60 13	99.60 8
1950	11.00 14	11.00 12	11.00 10	11.50 8	13.60 8	17.10 7	19.80 7	22.10 9	22.80 9	104.00 5
1951	12.00 15	12.70 15	13.40 15	14.00 12	14.80 11	18.00 9	20.90 9	21.50 8	21.60 7	61.00 4
1952	33.00 25	36.30 25	44.00 25	45.10 25	48.50 24	54.00 24	69.10 24	75.50 22	92.50 22	263.00 23
1953	8.00 5	9.00 5	10.90 7	14.40 13	17.90 15	19.20 10	19.90 8	20.60 7	22.60 8	121.00 16
1954	10.00 11	10.30 9	11.00 11	11.50 9	14.70 10	19.60 11	24.00 11	22.90 10	26.10 12	112.00 11
1955	20.00 20	20.00 20	21.10 22	23.40 22	23.60 17	30.00 18	36.50 20	43.40 18	55.90 17	118.00 15
1956	6.00 6	9.27 6	10.90 8	11.70 10	12.90 6	13.90 5	14.60 5	15.00 4	15.10 3	62.10 6
1957	7.00 4	7.00 4	7.21 4	7.73 4	8.10 4	11.70 4	13.60 4	15.60 5	16.90 4	52.50 2
1958	9.40 7	9.40 7	9.44 5	10.30 5	16.10 12	20.20 12	24.50 12	26.50 12	25.90 11	55.10 3
1959	0.30 1	0.30 1	0.30 1	0.33 1	0.41 1	0.75 1	1.55 1	2.28 1	5.58 1	27.90 1
1960	10.00 8	11.00 13	12.70 14	14.80 15	28.80 23	34.00 22	55.40 21	61.80 21	85.20 19	117.00 14
1961	10.00 9	10.00 8	10.60 6	11.10 7	14.10 9	17.80 8	22.30 10	22.90 11	23.90 10	147.00 18
1962	16.00 17	16.70 17	18.30 19	19.30 18	24.20 20	30.20 19	35.60 19	45.40 19	61.80 18	113.00 12
1963	20.00 21	20.00 21	20.60 20	21.90 20	25.20 21	26.30 17	30.50 14	36.80 17	91.00 20	233.00 22
1964	11.00 12	11.00 14	11.60 12	11.90 11	13.40 7	15.40 6	17.30 6	17.30 6	18.50 6	61.10 5
1965	2.90 3	3.10 3	3.29 3	3.72 3	4.05 2	7.23 2	12.40 3	14.80 3	17.60 5	63.90 7
1966	21.00 24	21.70 23	23.40 23	23.40 23	27.20 22	45.10 23	75.90 25	105.00 25	162.00 24	294.00 24
1967	15.00 16	16.00 16	16.00 16	17.10 16	17.80 14	25.60 15	35.50 18	36.40 16	36.90 16	115.00 13
1968	2.60 2	2.63 2	2.79 2	3.33 2	4.90 3	8.23 3	10.40 2	12.60 2	14.40 2	107.00 10
1969	20.00 22	23.00 24	23.60 24	26.50 24	59.60 25	60.90 25	67.00 23	85.00 24	207.00 25	300.00 25
1970	21.00 23	21.00 22	21.10 21	22.20 21	23.60 18	26.20 16	30.50 15	34.20 15	34.60 15	183.00 21
1971	17.00 18	17.50 19	17.70 18	20.40 19	24.10 19	32.80 21	35.40 17	51.30 20	101.00 23	174.00 19



STATION NUMBER 0545900C

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

SHELL ROCK RIVER NEAR NORTHWOOD, IOWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1946	1100.0 13	991.0 14	948.0 13	859.0 12	788.0 8	547.0 7	417.0 7	372.0 8	280.0 8	172.0 8
1947	926.0 16	861.0 16	799.0 16	687.0 14	615.0 11	467.0 11	365.0 11	385.0 7	296.0 7	185.0 7
1948	973.0 18	789.0 18	669.0 18	531.0 19	422.0 17	330.0 17	276.0 17	225.0 17	169.0 16	101.0 17
1949	1230.0 11	1200.0 11	1170.0 11	1040.0 9	752.0 10	530.0 8	378.0 9	296.0 12	205.0 14	117.0 15
1950	1700.0 5	1570.0 5	1320.0 6	936.0 10	587.0 13	379.0 12	298.0 14	233.0 16	161.0 18	91.9 19
1951	2360.0 3	2290.0 2	2220.0 2	1890.0 2	1440.0 2	899.0 2	663.0 2	547.0 2	401.0 1	213.0 4
1952	1410.0 8	1380.0 8	1290.0 7	1050.0 8	778.0 9	524.0 9	393.0 8	324.0 10	242.0 10	155.0 10
1953	1040.0 14	970.0 15	873.0 15	677.0 15	495.0 15	304.0 18	262.0 18	251.0 14	229.0 11	126.0 13
1954	1360.0 9	1330.0 9	1230.0 10	912.0 11	542.0 14	348.0 15	282.0 16	224.0 18	164.0 17	95.8 18
1955	435.0 23	468.0 22	418.0 22	309.0 22	181.0 24	164.0 24	150.0 23	143.0 22	119.0 22	63.1 20
1956	500.0 19	760.0 19	599.0 20	427.0 20	275.0 20	205.0 22	154.0 22	127.0 23	97.9 23	57.2 23
1957	526.0 22	399.0 23	297.0 24	218.0 26	179.0 25	150.0 25	126.0 25	105.0 25	82.7 24	50.5 24
1958	327.0 26	316.0 25	284.0 25	224.0 25	176.0 26	117.0 26	95.3 26	77.6 26	59.6 26	38.9 26
1959	615.0 21	557.0 21	456.0 21	359.0 21	252.0 21	210.0 21	178.0 21	175.0 20	142.0 20	75.7 22
1960	755.0 20	695.0 20	628.0 19	536.0 18	369.0 19	340.0 16	316.0 13	297.0 11	208.0 13	143.0 11
1961	2400.0 2	2220.0 3	1780.0 3	1270.0 4	819.0 7	492.0 10	370.0 10	294.0 13	215.0 12	122.0 14
1962	1500.0 4	1600.0 4	1600.0 4	1440.0 3	1140.0 3	703.0 4	512.0 4	455.0 5	363.0 4	214.0 3
1963	900.0 17	819.0 17	725.0 17	591.0 17	412.0 18	281.0 19	231.0 19	187.0 19	144.0 19	111.0 16
1964	353.0 25	312.0 26	267.0 26	263.0 24	226.0 23	181.0 23	136.0 24	110.0 24	78.2 25	47.0 25
1965	3200.0 1	3100.0 1	3000.0 1	2460.0 1	1640.0 1	943.0 1	697.0 1	568.0 1	401.0 2	228.0 2
1966	1120.0 12	1030.0 12	892.0 14	664.0 16	440.0 16	349.0 13	285.0 15	245.0 15	200.0 15	166.0 9
1967	1020.0 15	1010.0 13	992.0 12	875.0 13	603.0 12	349.0 14	337.0 12	333.0 9	246.0 9	141.0 12
1968	1450.0 7	1440.0 7	1360.0 5	1130.0 5	991.0 5	712.0 3	579.0 3	504.0 4	359.0 5	188.0 6
1969	1600.0 6	1530.0 6	1270.0 8	1110.0 7	920.0 6	603.0 6	456.0 6	525.0 3	390.0 3	278.0 1
1970	367.0 24	355.0 24	310.0 23	266.0 23	232.0 22	220.0 20	193.0 20	173.0 21	127.0 21	81.4 21
1971	1350.0 10	1320.0 10	1250.0 9	1120.0 6	1000.0 4	652.0 5	487.0 5	424.0 6	320.0 6	212.0 5







DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

SHELL ROCK RIVER NEAR NORTHWOOD, IOWA

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	9496	100.0	9	2.80	32	9416	99.2	18	35.0	812	5789	61.0	27	440	179	617	6.4
1	0.30	10	9496	100.0	10	3.70	39	9384	98.8	19	46.0	795	4977	52.4	28	580	154	438	4.6
2	0.40	10	9486	99.9	11	4.90	43	9345	98.4	20	61.0	582	4182	44.0	29	760	126	284	2.9
3	0.50	12	9476	99.8	12	6.50	88	9302	98.0	21	81.0	646	3600	37.9	30	1000	83	158	1.6
4	0.70	9	9464	99.7	13	8.60	85	9214	97.0	22	110.0	551	2954	31.1	31	1300	51	75	.7
5	0.90	8	9455	99.6	14	11.00	350	9129	96.1	23	140.0	606	2403	25.3	32	1800	13	24	.2
6	1.20	5	9447	99.5	15	15.00	766	8779	92.4	24	190.0	488	1797	18.9	33	2300	8	11	.1
7	1.60	11	9442	99.4	16	20.00	1290	8013	84.4	25	250.0	422	1309	13.8	34	3100	3	3	.0
8	2.10	15	9431	99.3	17	27.00	934	6723	70.8	26	330.0	270	887	9.3					



STATION NUMBER 05459500

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

WINNEBAGO RIVER AT MASON CITY, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1934	2.50 1	2.50 1	3.07 1	4.21 1	4.50 1	7.65 2	9.18 2	9.73 2	11.20 1	124.00 10
1935	2.50 2	3.33 2	4.00 2	4.36 2	4.70 2	5.31 1	6.38 1	8.96 1	11.30 2	75.60 2
1936	8.50 9	8.80 9	9.93 11	10.10 8	10.40 7	13.10 8	15.90 8	20.70 9	22.10 9	126.00 11
1937	6.90 5	7.03 5	7.33 5	7.36 4	7.72 4	10.60 5	18.50 10	36.90 18	64.10 22	121.00 8
1938	10.50 13	10.80 13	11.70 14	12.80 13	13.30 11	14.20 9	16.00 9	17.60 8	21.60 8	140.00 13
1939	30.00 31	36.70 33	39.00 33	42.20 33	46.10 32	89.30 37	88.00 31	106.00 31	255.00 35	352.00 30
1940	8.10 8	8.17 8	8.37 7	8.64 6	9.76 6	11.20 6	13.30 4	15.50 4	16.50 4	81.10 3
1941	7.70 7	8.03 7	8.56 8	10.20 9	11.90 10	27.10 19	30.40 16	36.10 16	66.50 24	151.00 16
1942	21.00 23	27.30 28	29.30 28	32.10 27	37.60 28	123.00 38	165.00 38	235.00 37	286.00 37	375.00 33
1943	21.00 24	25.10 26	27.40 25	29.50 26	31.50 25	37.80 23	38.80 22	44.80 22	62.50 21	212.00 20
1944	25.00 27	25.70 24	26.70 24	29.00 25	34.50 26	57.20 31	71.80 30	93.60 30	121.00 28	250.00 25
1945	15.00 21	18.00 20	19.70 21	20.80 20	22.70 19	26.00 17	36.20 21	39.90 20	57.00 20	373.00 32
1946	13.00 16	18.70 22	20.30 22	21.90 22	27.30 22	38.70 24	42.60 23	49.60 23	82.20 25	395.00 35
1947	41.00 35	41.30 35	46.60 35	51.70 35	64.70 37	72.20 33	100.00 35	127.00 35	155.00 31	216.00 22
1948	13.00 17	13.30 17	13.60 16	13.90 16	15.70 16	32.20 21	48.90 25	50.70 24	54.20 19	359.00 31
1949	9.00 11	9.00 10	9.71 9	13.80 15	14.30 15	17.30 11	19.30 11	21.70 10	28.70 11	143.00 15
1950	6.50 3	6.90 4	7.27 4	7.66 5	8.52 5	10.50 4	14.00 6	16.40 6	18.20 5	118.00 6
1951	9.60 12	9.83 12	11.20 13	11.60 11	13.50 12	16.00 10	15.70 7	17.40 7	21.40 7	119.00 7
1952	46.00 33	47.30 37	44.90 37	52.60 37	59.40 36	63.10 32	90.80 33	112.00 33	161.00 32	546.00 37
1953	11.00 14	11.70 15	14.10 17	20.80 21	24.90 20	25.70 16	26.40 15	27.80 14	31.40 14	167.00 17
1954	7.60 6	8.00 6	8.30 6	8.97 7	11.50 8	17.80 12	26.10 14	27.20 13	30.90 12	123.00 9
1955	26.00 29	27.30 27	28.90 27	32.40 28	35.20 27	51.70 28	62.90 29	79.40 28	120.00 27	271.00 27
1956	3.70 10	9.03 11	9.67 10	10.40 10	11.60 9	12.50 7	13.50 5	15.60 5	18.80 6	140.00 14
1957	13.00 13	13.00 16	13.00 15	13.40 14	13.80 13	19.10 14	22.10 13	23.60 11	27.00 10	89.20 5
1958	15.00 19	17.30 19	18.00 19	19.40 18	26.10 21	29.00 20	33.20 19	36.90 19	36.20 15	86.50 4
1959	6.50 4	6.63 3	6.76 3	7.11 3	7.46 3	8.54 3	10.00 3	11.50 3	13.80 3	57.90 1
1960	24.00 25	28.00 29	36.30 31	36.50 29	41.40 30	55.90 30	113.00 36	129.00 36	170.00 33	251.00 26
1961	15.00 20	15.00 18	15.30 18	16.10 17	20.10 17	25.00 15	32.00 17	34.20 15	42.10 16	224.00 24
1962	35.00 33	37.00 34	39.10 34	43.80 34	50.10 33	53.70 29	62.30 28	80.90 29	123.00 29	212.00 21
1963	35.00 34	35.30 32	36.90 32	38.60 31	44.70 31	47.40 27	55.50 27	71.60 27	151.00 30	398.00 36
1964	25.00 28	25.70 25	28.30 26	28.70 24	30.00 23	33.90 22	35.60 20	43.00 21	48.90 18	220.00 23
1965	24.00 26	25.00 23	25.70 23	27.10 23	30.70 24	44.40 26	54.30 26	62.10 26	115.00 26	171.00 18
1966	44.00 37	47.70 38	50.10 38	52.10 36	58.50 34	82.90 36	154.00 37	247.00 38	385.00 38	637.00 38
1967	17.00 22	18.30 21	18.90 20	20.80 19	21.50 18	27.10 18	32.40 18	36.20 17	42.20 17	181.00 19
1968	11.00 15	11.00 14	11.00 12	11.90 12	14.00 14	18.70 13	21.40 12	25.70 12	31.00 13	135.00 12
1969	30.00 30	31.00 30	32.00 29	39.50 32	77.70 38	79.30 35	88.50 32	119.00 34	263.00 36	350.00 29
1970	33.00 32	34.70 31	35.40 30	37.20 30	38.60 29	41.60 25	46.10 24	55.50 25	64.20 23	385.00 34
1971	36.00 35	43.00 36	47.30 36	55.40 38	58.80 35	79.20 34	100.00 34	108.00 32	190.00 34	305.00 28



STATION NUMBER 05459500

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

WINNEBAGO RIVER AT MASON CITY, IOWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1933	7590.0 3	7060.0 3	4860.0 3	2970.0 3	1650.0 6	899.0 10	621.0 12	491.0 15	345.0 19	185.0 23
1934	845.0 37	774.0 36	629.0 36	362.0 37	201.0 38	111.0 39	80.9 39	64.4 39	47.1 39	28.1 39
1935	1700.0 28	1180.0 32	809.0 35	652.0 33	490.0 32	321.0 34	260.0 34	223.0 34	173.0 34	96.5 34
1936	2220.0 22	2080.0 19	1870.0 15	1470.0 15	999.0 15	579.0 22	412.0 25	315.0 31	219.0 33	132.0 32
1937	3580.0 12	2900.0 13	1750.0 17	980.0 24	698.0 26	537.0 24	446.0 23	424.0 20	293.0 23	168.0 25
1938	3910.0 9	3400.0 9	2550.0 10	1720.0 11	1070.0 14	608.0 19	546.0 14	544.0 11	447.0 10	269.0 13
1939	2760.0 18	2230.0 18	1490.0 23	1340.0 16	952.0 16	661.0 15	470.0 22	377.0 24	297.0 22	190.0 20
1940	800.0 38	747.0 34	533.0 38	349.0 38	250.0 37	151.0 37	117.0 37	92.8 38	98.1 37	59.3 38
1941	1330.0 33	1150.0 33	957.0 33	756.0 25	766.0 23	690.0 14	532.0 15	540.0 12	426.0 12	283.0 12
1942	1910.0 26	1790.0 23	1500.0 22	1230.0 20	920.0 17	658.0 16	512.0 18	442.0 17	418.0 14	332.0 8
1943	3030.0 16	1780.0 25	1200.0 26	984.0 23	823.0 22	596.0 20	514.0 16	437.0 19	440.0 11	268.0 14
1944	5630.0 7	4860.0 6	3320.0 8	2060.0 8	1460.0 9	1150.0 5	905.0 5	754.0 6	556.0 8	326.0 9
1945	3500.0 13	3210.0 10	2790.0 9	1850.0 10	1270.0 12	1080.0 6	1040.0 3	976.0 4	748.0 4	402.0 5
1946	1650.0 29	1510.0 28	1100.0 28	941.0 25	829.0 21	582.0 21	482.0 20	457.0 16	357.0 18	215.0 17
1947	3350.0 15	3150.0 11	2390.0 11	2050.0 9	1690.0 5	1030.0 7	860.0 7	823.0 5	606.0 6	375.0 7
1948	3700.0 11	2250.0 16	1480.0 24	857.0 28	742.0 24	504.0 26	400.0 26	320.0 28	225.0 32	133.0 31
1949	2440.0 19	1790.0 24	1530.0 20	1340.0 17	1100.0 13	730.0 13	513.0 17	416.0 21	291.0 24	163.0 26
1950	2120.0 23	1730.0 26	1310.0 25	876.0 27	653.0 27	471.0 28	395.0 27	319.0 29	229.0 30	124.0 33
1951	7020.0 4	6300.0 4	4900.0 2	3610.0 2	2630.0 2	1720.0 2	1300.0 2	1160.0 1	865.0 2	466.0 3
1952	3730.0 10	3130.0 12	2360.0 12	1550.0 13	1300.0 11	865.0 11	679.0 10	555.0 10	420.0 13	261.0 15
1953	1500.0 31	1320.0 30	992.0 32	626.0 34	398.0 35	355.0 32	305.0 32	262.0 32	252.0 27	141.0 29
1954	6230.0 6	4990.0 5	3850.0 5	2420.0 7	1410.0 10	804.0 12	631.0 11	533.0 13	391.0 16	214.0 18
1955	2070.0 25	1830.0 22	1550.0 19	1020.0 21	581.0 29	486.0 27	380.0 29	342.0 26	276.0 26	189.0 21
1956	1170.0 35	1050.0 35	998.0 31	667.0 32	403.0 34	294.0 35	213.0 35	185.0 35	172.0 35	96.4 35
1957	950.0 36	755.0 37	570.0 37	474.0 36	349.0 36	269.0 36	202.0 36	174.0 36	133.0 36	80.0 36
1958	754.0 39	586.0 39	353.0 39	209.0 39	140.0 39	120.0 38	113.0 38	112.0 37	92.4 38	62.4 37
1959	2240.0 21	2050.0 20	1570.0 18	1470.0 14	879.0 18	532.0 25	428.0 24	390.0 23	324.0 21	176.0 24
1960	1730.0 27	1510.0 27	1160.0 27	754.0 30	519.0 30	410.0 31	365.0 30	318.0 30	242.0 29	197.0 19
1961	9370.0 1	7710.0 1	4740.0 4	2750.0 5	1630.0 7	955.0 9	702.0 9	571.0 9	406.0 15	223.0 16
1962	6900.0 5	4710.0 7	3560.0 6	2900.0 4	2010.0 4	1170.0 4	864.0 6	745.0 7	679.0 5	406.0 4
1963	3370.0 14	2790.0 14	2110.0 14	1270.0 19	860.0 19	629.0 17	600.0 13	517.0 14	470.0 9	299.0 11
1964	1550.0 30	1390.0 29	1070.0 29	679.0 31	459.0 33	383.0 32	284.0 33	232.0 33	227.0 31	138.0 30
1965	7920.0 2	7670.0 2	6810.0 1	4640.0 1	2890.0 1	1900.0 1	1420.0 1	1150.0 2	901.0 1	509.0 2
1966	2430.0 20	2240.0 17	1640.0 16	1300.0 18	858.0 20	553.0 23	476.0 21	416.0 22	378.0 17	324.0 10
1967	1230.0 34	1200.0 31	1090.0 30	900.0 26	649.0 28	448.0 29	391.0 28	373.0 25	284.0 25	162.0 27
1968	2110.0 24	1910.0 21	1500.0 21	1020.0 22	730.0 25	610.0 18	510.0 19	438.0 18	340.0 20	186.0 22
1969	5040.0 8	4490.0 8	3420.0 7	2700.0 6	2110.0 3	1230.0 3	935.0 4	1070.0 3	792.0 3	518.0 1
1970	1350.0 32	1140.0 34	898.0 34	605.0 35	508.0 31	418.0 30	365.0 31	321.0 27	250.0 28	157.0 28



STATION NUMBER 05459500

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

WINNEBAGO RIVER AT MASON CITY, IOWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1971	2913.0 17	2730.0 15	2280.0 13	1710.0 12	1550.0 8	1020.0 8	786.0 8	720.0 8	563.0 7	376.0 6
1972	2850.0 15	2650.0 14	2200.0 12	1650.0 11	1500.0 7	1000.0 7	750.0 7	700.0 7	550.0 6	370.0 5
1973	2800.0 14	2600.0 13	2150.0 11	1600.0 10	1450.0 6	950.0 6	700.0 6	650.0 6	500.0 5	360.0 4
1974	2750.0 13	2550.0 12	2100.0 10	1550.0 9	1400.0 5	900.0 5	650.0 5	600.0 5	450.0 4	350.0 3
1975	2700.0 12	2500.0 11	2050.0 9	1500.0 8	1350.0 4	850.0 4	600.0 4	550.0 4	400.0 3	340.0 2
1976	2650.0 11	2450.0 10	2000.0 8	1450.0 7	1300.0 3	800.0 3	550.0 3	500.0 3	350.0 2	330.0 1
1977	2600.0 10	2400.0 9	1950.0 7	1400.0 6	1250.0 2	750.0 2	500.0 2	450.0 2	300.0 1	320.0 1
1978	2550.0 9	2350.0 8	1900.0 6	1350.0 5	1200.0 1	700.0 1	450.0 1	400.0 1	250.0 1	310.0 1
1979	2500.0 8	2300.0 7	1850.0 5	1300.0 4	1150.0 1	650.0 1	400.0 1	350.0 1	200.0 1	300.0 1
1980	2450.0 7	2250.0 6	1800.0 4	1250.0 3	1100.0 1	600.0 1	350.0 1	300.0 1	150.0 1	290.0 1
1981	2400.0 6	2200.0 5	1750.0 3	1200.0 2	1050.0 1	550.0 1	300.0 1	250.0 1	100.0 1	280.0 1
1982	2350.0 5	2150.0 4	1700.0 2	1150.0 1	1000.0 1	500.0 1	250.0 1	200.0 1	50.0 1	270.0 1
1983	2300.0 4	2100.0 3	1650.0 1	1100.0 1	950.0 1	450.0 1	200.0 1	150.0 1	0.0 1	260.0 1
1984	2250.0 3	2050.0 2	1600.0 1	1050.0 1	900.0 1	400.0 1	150.0 1	100.0 1	0.0 1	250.0 1
1985	2200.0 2	2000.0 1	1550.0 1	1000.0 1	850.0 1	350.0 1	100.0 1	50.0 1	0.0 1	240.0 1
1986	2150.0 1	1950.0 1	1500.0 1	950.0 1	800.0 1	300.0 1	50.0 1	0.0 1	0.0 1	230.0 1
1987	2100.0 1	1900.0 1	1450.0 1	900.0 1	750.0 1	250.0 1	0.0 1	0.0 1	0.0 1	220.0 1
1988	2050.0 1	1850.0 1	1400.0 1	850.0 1	700.0 1	200.0 1	0.0 1	0.0 1	0.0 1	210.0 1
1989	2000.0 1	1800.0 1	1350.0 1	800.0 1	650.0 1	150.0 1	0.0 1	0.0 1	0.0 1	200.0 1
1990	1950.0 1	1750.0 1	1300.0 1	750.0 1	600.0 1	100.0 1	0.0 1	0.0 1	0.0 1	190.0 1
1991	1900.0 1	1700.0 1	1250.0 1	700.0 1	550.0 1	50.0 1	0.0 1	0.0 1	0.0 1	180.0 1
1992	1850.0 1	1650.0 1	1200.0 1	650.0 1	500.0 1	0.0 1	0.0 1	0.0 1	0.0 1	170.0 1
1993	1800.0 1	1600.0 1	1150.0 1	600.0 1	450.0 1	0.0 1	0.0 1	0.0 1	0.0 1	160.0 1
1994	1750.0 1	1550.0 1	1100.0 1	550.0 1	400.0 1	0.0 1	0.0 1	0.0 1	0.0 1	150.0 1
1995	1700.0 1	1500.0 1	1050.0 1	500.0 1	350.0 1	0.0 1	0.0 1	0.0 1	0.0 1	140.0 1
1996	1650.0 1	1450.0 1	1000.0 1	450.0 1	300.0 1	0.0 1	0.0 1	0.0 1	0.0 1	130.0 1
1997	1600.0 1	1400.0 1	950.0 1	400.0 1	250.0 1	0.0 1	0.0 1	0.0 1	0.0 1	120.0 1
1998	1550.0 1	1350.0 1	900.0 1	350.0 1	200.0 1	0.0 1	0.0 1	0.0 1	0.0 1	110.0 1
1999	1500.0 1	1300.0 1	850.0 1	300.0 1	150.0 1	0.0 1	0.0 1	0.0 1	0.0 1	100.0 1
2000	1450.0 1	1250.0 1	800.0 1	250.0 1	100.0 1	0.0 1	0.0 1	0.0 1	0.0 1	90.0 1



STATION NUMBER C545950C

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

WINNEBAGO RIVER AT MASON CITY, IOWA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	CFS_DAYS	
YEAR	NUMBER OF DAYS IN CLASS																																	CFS_DAYS			
1933				2	2	8	34	23	31	53	69	11	10	29	16	15	14	9	10	4	2	6	2	2	2	2	2	3	1	1	1		3	67608.0			
1934	11	24	26	60	39	41	40	21	36	22	11	7	5	5	4	1	3	1	1		1	1	2	3										10273.5			
1935			1	7	10	15	47	38	27	24	21	23	22	7	11	21	15	17	10	8	12	3	7	3	1		1								35228.5		
1936					27	32	37	42	36	20	24	24	21	16	17	12	4	6	9	7	3	5	5	6	2	4	3	4						48332.8			
1937						1	19	45	48	38	30	19	17	11	13	13	15	29	16	12	16	7	6	1		2		2	1					61207.0			
1938				2	35	34	33	21	5	14	7	11	19	24	18	22	18	20	15	15	15	16	8	3	3	2	2	1	3	1				98156.5			
1939				1	6	13	15	11	13	26	43	40	34	40	23	17	18	15	11	12	5	5	6	3	2			2						69346.1			
1940				10	24	43	45	69	36	24	17	16	17	11	10	6	13	9	5	3	3	1	3											21691.2			
1941								1	3	9	27	27	29	30	37	21	30	24	16	18	20	31	25	16	1										103271.0		
1942										4	7	6	16	48	40	51	44	37	25	22	23	18	17	4	1	2									121256.0		
1943								1	6	28	46	22	34	17	20	21	24	25	28	19	21	17	12	18	4	1		1							97754.3		
1944									5	10	24	17	24	44	44	32	24	32	25	17	11	19	10	12	3	5	4	1	1			2			119265.0		
1945								1	14	29	15	18	38	46	15	10	16	13	13	19	14	12	15	20	25	13	7	6	3	3					146555.0		
1946					1	1	9	14	13	22	73	34	20	34	23	21	16	14	11	14	15	17	7	4	2										78646.0		
1947										11	41	31	32	19	27	41	30	27	19	14	23	10	14	8	7	6	3	2							136854.0		
1948				2	8	42	25	15	22	40	33	56	22	12	11	18	23	11	3	4	6	5	5	1	1										48797.0		
1949				4	3	27	31	50	47	41	22	38	21	13	5	6	10	9	5	3	4	4	4	12	4	1	1								59564.0		
1950				1	15	27	9	21	60	38	30	26	10	11	9	10	13	31	16	8	7	7	5	3	3		3	2							45427.2		
1951				4	27	31	55	16	5	8	9	5	3	8	23	33	15	23	12	11	10	14	9	10	8	10	8	4			3	1			170036.5		
1952									7	18	49	45	14	30	40	60	24	9	13	13	17	9	6	2	6	1	1	2							95592.0		
1953				3	4	3	63	87	25	9	15	12	18	14	23	34	15	8	20	7	1	1	2	1											51593.0		
1954			6	8	8	7	14	53	31	16	25	26	21	40	25	25	12	11	3	6	5	7	3	2	1	3	2	1	2	1					78220.6		
1955				1	1	9	21	27	28	22	35	34	36	27	34	28	14	8	10	12	5	4	4	2	1										68553.0		
1956					7	38	48	29	33	21	26	28	19	23	28	18	13	7	7	6	3	2	3	7												35298.1	
1957						17	14	14	81	64	36	34	24	7	14	13	15	7	10	5	6	2	1	1											29208.0		
1958						2	23	39	34	42	65	48	33	28	21	9	9	4	3	3		1	1												22786.0		
1959							2	23	39	34	42	65	48	33	28	21	9	9	4	3	3		1	1											64351.1		
1960			3	29	32	27	50	18	12	8	17	6	10	27	23	22	13	12	8	6	10	8	5	5	6	5	3									72204.0	
1961										2	50	29	30	16	23	30	59	42	35	27	10	6	1	3	1	2										81366.0	
1962								11	11	9	41	73	46	30	23	21	15	21	11	9	10	13	6	2	3	2	2	1	1	1					1	2	81366.0
1963											8	53	28	22	36	16	35	47	31	18	18	10	5	8	5	8	5	7	1	2	1					148195.0	
1964											3	29	31	47	14	24	35	45	30	19	23	18	9	7	15	8	3	2	2	1						109022.0	
1965											26	62	58	69	30	16	12	7	12	15	13	15	13	9	3	2	2	1								50573.0	
1966											21	3	19	63	30	46	42	11	11	7	6	9	18	7	15	17	12	8	2	7	1	3	3	4		185692.0	
1967																																				118249.0	
1968											5	21	23	31	15	29	33	47	36	35	28	13	10	11	5	5	3	1								55078.0	
1969											1	18	23	45	60	47	14	10	20	22	21	15	12	22	14	7	3	9	2							68136.0	
1970											12	27	23	9	42	55	21	10	12	16	16	26	12	13	16	18	5	6	2	1	2					189037.0	
1970												7	34	73	19	10	19	30	26	28	29	19	8	19	14	8	10	5	3	3	1					57392.0	
1970												10	49	52	45	47	31	10	27	26	30	21	9	2	2	2	2										



STATION NUMBER 05459500

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

WINNEBAGO RIVER AT MASON CITY, IOWA

CLASS 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34

YEAR  
1971

NUMBER OF DAYS IN CLASS  
19 23 43 26 14 11 35 28 27 27 40 31 11 9 5 7 6 3

CFS\_DAYS  
137162.0

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	14244	100.0	9	18.00	666	12820	50.0	18	160.0	532	4780	33.6	27	1500	110	302	2.1
1	2.50	11	14244	100.0	10	23.00	796	12154	85.3	19	210.0	750	3848	27.0	28	1900	79	192	1.3
2	3.20	24	14233	99.9	11	29.00	889	11358	79.7	20	270.0	626	3058	21.5	29	2400	52	113	.7
3	4.10	27	14209	99.8	12	37.00	1079	10469	73.5	21	340.0	512	2432	17.1	30	3100	26	61	.4
4	5.20	73	14182	99.6	13	48.00	1125	9390	65.9	22	430.0	496	1920	13.5	31	3900	12	35	.2
5	6.70	138	14109	99.1	14	61.00	1027	8265	58.0	23	550.0	403	1424	10.0	32	5000	12	23	.1
6	8.50	207	13971	98.1	15	78.00	854	7238	50.8	24	710.0	250	1021	7.2	33	6400	9	11	.0
7	11.00	399	13764	96.6	16	99.00	881	6384	44.8	25	900.0	291	731	5.1	34	8200	2	2	.0
8	14.00	545	13365	93.8	17	130.00	723	5503	38.6	26	1200.0	148	450	3.2					



## STATION\_NUMBER 5-4605.00

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

SHELL ROCK RIVER AT MARBLE ROCK, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1935	6.0 1	14.0 1	20.3 1	24.1 1	27.6 1	31.5 1	33.5 1	38.8 1	46.5 1	218.0 2
1936	20.0 3	23.3 3	27.0 2	28.5 2	29.3 2	43.5 2	57.0 2	75.6 5	88.0 4	435.0 8
1937	20.0 4	28.0 4	35.4 3	36.9 3	44.4 3	54.4 3	82.3 7	139.0 10	272.0 14	394.0 5
1938	25.0 5	52.0 10	59.1 10	62.2 9	63.8 8	67.8 6	77.7 6	91.3 7	108.0 7	415.0 7
1939	85.0 15	135.0 17	150.0 18	168.0 18	193.0 17	272.0 18	274.0 16	314.0 16	649.0 18	872.0 14
1940	15.0 2	22.3 2	41.1 4	44.5 5	46.9 5	57.0 4	65.1 4	73.3 3	79.0 3	212.0 1
1941	25.0 6	33.3 5	43.3 6	47.2 6	56.9 6	94.9 11	107.0 10	149.0 11	269.0 13	455.0 5
1942	119.0 18	136.0 18	144.0 17	155.0 17	161.0 16	309.0 19	403.0 19	554.0 19	732.0 19	1010.0 17
1943	100.0 16	100.0 15	102.0 15	107.0 15	111.0 14	134.0 13	139.0 13	159.0 13	241.0 11	704.0 12
1944	75.0 14	76.0 13	78.1 13	85.5 13	99.1 13	148.0 15	170.0 15	204.0 15	280.0 15	550.0 12
1945	61.0 12	63.0 12	67.0 12	72.3 11	78.3 11	84.8 9	111.0 11	120.0 9	164.0 9	560.0 16
1946	75.0 13	85.7 14	88.7 14	95.3 14	118.0 15	147.0 14	161.0 14	181.0 14	263.0 12	1070.0 16
1947	119.0 17	122.0 16	125.0 16	130.0 16	196.0 18	209.0 16	301.0 17	378.0 18	444.0 16	563.0 11
1948	60.0 11	60.0 11	60.0 11	60.7 8	66.8 9	102.0 12	139.0 12	150.0 12	168.0 10	925.0 15
1949	47.0 10	51.0 9	57.6 9	69.6 10	74.4 10	80.8 8	84.9 8	88.9 6	100.0 6	395.0 6
1950	38.0 7	39.0 6	41.7 5	42.0 4	45.8 4	59.6 5	64.1 3	69.4 2	72.7 2	385.0 4
1951	45.0 9	46.0 8	50.4 7	50.9 7	55.9 7	69.0 7	68.6 5	73.7 4	93.0 5	362.0 3
1952	215.0 19	219.0 19	225.0 19	229.0 19	238.0 19	242.0 17	314.0 18	367.0 17	450.0 17	1410.0 19
1953	40.0 6	44.3 7	53.4 8	73.3 12	89.7 12	91.1 10	93.3 9	98.3 8	112.0 8	488.0 10



STATION\_NUMBER 5-4605.00

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

SHELL ROCK RIVER AT MARBLE ROCK, IOWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1934	3600.0 19	2950.0 19	1930.0 19	1170.0 19	649.0 20	358.0 20	268.0 20	219.0 20	161.0 20	105.0 20
1935	6660.0 12	4860.0 12	2860.0 18	1780.0 18	1310.0 18	898.0 18	761.0 18	632.0 18	503.0 18	287.0 18
1936	6360.0 14	5880.0 10	5610.0 4	5180.0 3	3400.0 4	1960.0 7	1400.0 8	1070.0 12	749.0 13	478.0 13
1937	9660.0 6	7810.0 4	4990.0 6	2850.0 11	1810.0 16	1270.0 16	1110.0 15	1190.0 9	853.0 11	502.0 11
1938	8630.0 7	6380.0 8	4830.0 8	3420.0 8	2140.0 13	1600.0 10	1280.0 11	1230.0 7	1100.0 7	680.0 7
1939	7770.0 9	5750.0 11	4410.0 10	3200.0 9	2170.0 10	1460.0 12	1050.0 16	865.0 16	711.0 15	474.0 14
1940	2600.0 20	2200.0 20	1710.0 20	1080.0 20	779.0 19	528.0 19	385.0 19	320.0 19	315.0 19	207.0 19
1941	6260.0 15	4400.0 15	3760.0 12	2900.0 10	2150.0 12	1860.0 8	1670.0 5	1620.0 5	1220.0 5	819.0 5
1942	4840.0 16	4260.0 16	3520.0 13	2660.0 14	1900.0 15	1390.0 15	1370.0 9	1230.0 8	1100.0 6	952.0 3
1943	7840.0 8	4630.0 14	3290.0 15	2710.0 13	2160.0 11	1430.0 13	1140.0 14	1050.0 13	1070.0 8	681.0 8
1944	11900.0 2	9440.0 3	6800.0 3	4300.0 4	3230.0 5	2800.0 3	2200.0 3	1850.0 4	1360.0 4	802.0 6
1945	9920.0 5	9680.0 2	8220.0 2	5210.0 2	3440.0 3	2890.0 2	2800.0 2	2560.0 2	1990.0 2	1080.0 2
1946	4530.0 17	3620.0 18	3170.0 16	2760.0 12	2360.0 8	1630.0 9	1280.0 10	1170.0 10	929.0 10	593.0 10
1947	7380.0 10	6810.0 6	4900.0 7	4180.0 5	3650.0 2	2310.0 4	2060.0 4	1970.0 3	1480.0 3	936.0 4
1948	10000.0 3	7670.0 5	4660.0 9	2640.0 15	2190.0 9	1480.0 11	1170.0 12	932.0 15	663.0 17	400.0 16
1949	6610.0 13	4780.0 13	4110.0 11	3530.0 7	2850.0 7	1970.0 6	1410.0 7	1170.0 11	837.0 12	478.0 12
1950	9920.0 4	6080.0 9	3440.0 14	2400.0 16	2090.0 14	1410.0 14	1140.0 13	940.0 14	699.0 16	389.0 17
1951	19300.0 1	15400.0 1	11900.0 1	8520.0 1	6670.0 1	4430.0 1	3420.0 1	3050.0 1	2300.0 1	1250.0 1
1952	7270.0 11	6620.0 7	5190.0 5	3790.0 6	3000.0 6	2070.0 5	1620.0 6	1360.0 6	1070.0 9	697.0 7
1953	4340.0 18	3840.0 17	2940.0 17	1980.0 17	1340.0 17	938.0 17	825.0 17	783.0 17	747.0 14	429.0 15



DURATION TABLE OF DAILY DISCHARGE

SHELL ROCK RIVER AT MARBLE ROCK, IOWA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	CFS_DAYS	
YEAR	NUMBER OF DAYS IN CLASS																																	CFS_DAYS			
1934				16	2	48	52	46	81	58	15	13	7	4	5	3	2	3	1	1	3	1	1		1	1	1	1							38380.0		
1935	4				3	5	7	13	24	29	30	45	32	27	20	11	11	21	23	25	16	9	5	1	1		1		1	1					104772.0		
1936						7	22	19	36	25	32	37	35	17	19	14	19	17	7	9	10	9	4	1	2	6	4	2	6	7					174945.0		
1937						1	1	1		6	23	48	50	24	23	23	16	14	22	34	30	18	5	5	3	2	3	1	3		2	1			183218.0		
1938							4		2	4	43	26	23	24	20	13	17	31	26	18	29	24	14	11	14	7	6	3	3	2	1				248160.0		
1939									1	4	7	27	22	25	55	35	47	47	20	10	15	23	7	4	6	2	3	2	2		1			173090.0			
1940						2	1	3	8	15	42	40	74	46	29	24	11	16	14	13	5	7	7	3	3	1	2								75593.0		
1941														3	16	34	37	40	50	23	23	27	23	21	19	24	10	9	3	1	2				298951.0		
1942																	1	17	32	52	91	47	39	25	16	16	11	10	7	1					347453.0		
1943															35	31	34	35	19	30	27	28	18	30	35	19	10	4	7	2		1			248673.0		
1944										4	8	31	9	32	55	41	26	16	26	25	23	14	12	16	5	9	4	7		2			1		293631.0		
1945										1	12	42	10	37	44	25	17	13	14	10	11	23	11	14	21	17	16	14	5	3		5			392487.0		
1946											1	10	26	30	72	26	35	37	21	20	10	16	12	16	17	6	7	1	2						216552.0		
1947															8	48	40	32	24	27	36	32	28	19	17	17	11	10	8	2	5	1			341647.0		
1948										1	16	30	38	35	54	62	23	8	10	21	20	13	10	6	6	4	3	1	2	1		1	1			146248.0	
1949											8	35	70	62	28	25	30	19	15	9	6	8	10	7	3	6	4	8	7	2	2					174560.0	
1950										4	37	26	40	48	42	15	15	14	11	13	28	22	16	9	9	4	2	2	4	1	1	1		1		142051.0	
1951											5	34	26	54	13	6	7	10	5	12	27	32	23	17	11	14	10	8	10	12	10	8	4	3	2	2	456941.0
1952												4	18	26	63	23	44	54	41	16	24	15	11	3	9	7	3	2	2	1					255132.0		
1953											3	2	3	56	93	18	19	10	11	17	21	32	31	18	17	7	2	1	1	3					156499.0		

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	7305	100.0	9	40.00	170	7082	96.7	18	330.0	470	3177	43.5	27	2700	117	305	4.1
1	6.00	4	7305	100.0	10	50.00	278	6912	94.6	19	420.0	454	2707	37.1	28	3500	76	188	2.5
2	7.60	0	7301	99.9	11	63.00	390	6634	90.8	20	530.0	489	2253	30.8	29	4400	49	112	1.5
3	9.60	0	7301	99.9	12	80.00	508	6244	85.5	21	670.0	385	1764	24.1	30	5600	33	63	.8
4	12.00	16	7301	99.9	13	100.00	575	5646	77.3	22	850.0	363	1379	18.9	31	7100	14	30	.4
5	15.00	5	7285	99.7	14	130.00	423	5071	69.4	23	1100.0	241	1016	13.9	32	8900	11	16	.2
6	19.00	16	7280	99.7	15	160.00	584	4648	63.6	24	1400.0	184	775	10.6	33	11000	3	5	.0
7	25.00	85	7264	99.4	16	210.00	480	4064	55.6	25	1700.0	175	591	8.1	34	14000	2	2	.0
8	31.00	97	7179	98.3	17	260.00	407	3584	49.1	26	2200.0	111	416	5.7					



STATION NUMBER 05462000

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

SHELL ROCK RIVER AT SHELL ROCK, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1955	176.00 15	181.00 13	184.00 13	189.00 13	194.00 11	247.00 13	288.00 13	354.00 13	472.00 12	667.00 11
1956	71.00 4	79.00 4	81.10 4	82.40 3	86.90 3	90.10 2	94.70 2	102.00 2	112.00 2	343.00 4
1957	65.00 3	70.70 3	72.70 3	82.90 4	87.80 4	94.80 3	102.00 3	110.00 3	122.00 3	261.00 2
1958	33.00 6	100.00 6	102.00 6	113.00 6	130.00 6	149.00 5	163.00 6	172.00 5	171.00 5	285.00 3
1959	39.00 1	39.00 1	39.10 1	40.00 1	42.20 1	45.30 1	48.70 1	60.90 1	72.80 1	256.00 1
1960	145.00 12	164.00 12	173.00 12	183.00 11	232.00 14	281.00 14	423.00 15	455.00 15	562.00 13	764.00 9
1961	86.00 8	105.00 7	108.00 7	113.00 7	134.00 7	157.00 7	185.00 8	204.00 8	271.00 6	954.00 12
1962	93.00 11	147.00 11	170.00 11	184.00 12	187.00 10	198.00 9	231.00 10	282.00 10	367.00 11	671.00 7
1963	174.00 13	196.00 15	203.00 14	207.00 14	231.00 13	243.00 12	281.00 12	331.00 12	633.00 14	1320.00 15
1964	66.00 9	118.00 9	136.00 9	146.00 9	149.00 8	160.00 8	162.00 5	179.00 6	214.00 6	750.00 8
1965	64.00 7	95.00 5	93.30 5	106.00 5	120.00 5	155.00 6	173.00 7	194.00 7	276.00 9	475.00 6
1966	175.00 14	216.00 16	244.00 16	245.00 16	256.00 15	359.00 16	545.00 17	817.00 17	1200.00 17	1860.00 17
1967	42.00 5	103.00 8	128.00 8	145.00 8	163.00 9	215.00 10	223.00 9	243.00 9	248.00 7	806.00 10
1968	50.00 2	50.30 2	52.70 2	59.40 2	76.20 2	109.00 4	117.00 4	124.00 4	138.00 4	448.00 5
1969	90.00 10	132.00 10	154.00 10	172.00 10	315.00 16	339.00 15	378.00 14	454.00 14	859.00 16	1130.00 14
1970	173.00 16	193.00 14	208.00 15	217.00 15	222.00 12	233.00 11	255.00 11	291.00 11	341.00 10	1410.00 16
1971	251.00 17	256.00 17	264.00 17	295.00 17	321.00 17	391.00 17	440.00 16	490.00 16	787.00 15	1090.00 13



STATION NUMBER C5462000

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

SHELL ROCK RIVER AT SHELL ROCK, IOWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1954	19100.0 4	14200.0 4	10700.0 4	6690.0 5	4020.0 6	2350.0 6	1880.0 7	1600.0 8	1200.0 8	695.0 9
1955	2500.0 14	2330.0 14	2030.0 14	1470.0 14	924.0 15	866.0 14	764.0 14	776.0 14	677.0 14	528.0 14
1956	2340.0 15	2120.0 16	1820.0 15	1360.0 15	913.0 16	699.0 16	549.0 16	473.0 17	416.0 16	266.0 16
1957	2130.0 17	1900.0 17	1420.0 17	1110.0 16	832.0 17	699.0 17	548.0 17	477.0 16	390.0 17	257.0 17
1958	1480.0 18	1150.0 18	875.0 18	712.0 18	574.0 18	441.0 18	399.0 18	383.0 18	312.0 18	234.0 18
1959	6570.0 10	4850.0 10	3700.0 10	2670.0 10	1770.0 13	1290.0 13	1250.0 11	1140.0 11	970.0 11	550.0 13
1960	8900.0 8	7530.0 8	4910.0 9	3010.0 9	2160.0 10	1870.0 10	1630.0 10	1420.0 10	1060.0 10	804.0 8
1961	32100.0 1	25300.0 1	15900.0 2	9210.0 3	5540.0 3	3400.0 3	2570.0 4	2080.0 5	1500.0 7	864.0 7
1962	15500.0 5	11800.0 5	9070.0 5	7530.0 4	5370.0 4	3320.0 5	2550.0 5	2250.0 4	2020.0 3	1210.0 5
1963	11700.0 6	7910.0 7	5610.0 7	3460.0 8	2440.0 8	2180.0 7	2050.0 6	1770.0 6	1550.0 6	1050.0 6
1964	2320.0 16	2100.0 15	1670.0 16	1070.0 17	948.0 14	826.0 15	649.0 15	543.0 15	451.0 15	353.0 15
1965	23400.0 2	21200.0 2	18100.0 1	13400.0 1	8540.0 1	5170.0 1	3960.0 1	3300.0 2	2450.0 2	1460.0 2
1966	8730.0 9	7020.0 9	5270.0 8	3670.0 7	2480.0 7	1950.0 9	1640.0 8	1760.0 7	1590.0 5	1250.0 4
1967	3730.0 13	3610.0 13	3150.0 12	2660.0 11	1930.0 11	1310.0 12	1170.0 13	1130.0 12	885.0 13	560.0 12
1968	4620.0 12	4250.0 11	3420.0 11	2610.0 12	2280.0 9	2030.0 8	1630.0 9	1440.0 9	1110.0 9	627.0 10
1969	21100.0 3	16200.0 3	14500.0 3	11000.0 2	7610.0 2	4430.0 2	3420.0 2	3680.0 1	2780.0 1	1750.0 1
1970	5150.0 11	4040.0 12	2900.0 13	2200.0 13	1930.0 12	1410.0 11	1220.0 12	1110.0 13	894.0 12	612.0 11
1971	11400.0 7	10300.0 6	8130.0 6	5880.0 6	5130.0 5	3360.0 4	2640.0 3	2330.0 3	1810.0 4	1290.0 3



STATION NUMBER 05462000

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

SHELL ROCK RIVER AT SHELL ROCK, IOWA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34		
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS		
1954						1	36	15	23	72	38	21	23	25	26	14	12	12	8	5	6	5	4	2	3	1	2	1		2	2		1				
1955						5	19	10	13	36	22	37	40	34	29	26	33	17	17	12	4	5	1														
1956					12	59	64	33	37	36	27	25	21	11	7	11	7	4	2	5	3	1	1														
1957				1	11	51	57	34	52	35	37	20	10	15	10	8	6	10	5		1	2															
1958				4	15	14	45	30	60	70	38	36	12	12	9	10	6	1	2	1																	
1959	49	32		6	20	28	16	3	9	12	0	18	30	20	15	12	12	10	10	11	15	5	7	6	3		1	1									
1960						1			1	13	35	27	36	35	41	44	24	34	23	18	11	10	6	2	1	1	1		2								
1961						3	12	7	21	43	59	52	27	26	16	22	19	10	4	4	14	8	3	2	4	2	1	1		1		1	1	1	1	1	
1962						1			5	6	37	32	16	26	20	32	28	15	36	22	31	10	6	11	5	4	6	3	6	1	4	1	1				
1963									2	10	44	29	29	16	41	37	33	24	16	20	18	11	7	10	4	4	5	4			1						
1964				1	8	33	18	53	59	47	35	27	13	14	13	14	19	7	1	1	2	1															
1965							17	14	28	18	55	44	19	13	10	11	18	12	15	14	7	8	13	13	3	3	5	4	5	1	1	3	4	2			
1966								3		11	13	12	15	23	17	26	50	40	31	41	27	14	17	7	9	2	3	2	2								
1967				1	5	3	10	11	29	45	45	39	36	26	11	18	21	15	13	14	10	2	7	2	3												
1968				6	6	8	27	31	20	43	43	10	20	12	6	12	17	21	20	6	13	12	15	6	6	4	2										
1969											29	44	40	19	20	29	23	19	31	25	14	11	12	16	8	6	7	4	2			1	4	1			
1970								1	12	53	41	58	50	26	24	40	22	11	12	3	5	1	3	2		1											
1971										10	27	13	40	32	17	11	16	40	31	49	26	15	5	8	7	7	4	4	1	1	1						

CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT
0	0.00	0	6574	100.0	9	130.00	562	5259	80.0	18	1100.0	242	1238	18.8	27	6100	30	83	1.2
1	39.00	49	6574	100.0	10	220.00	590	4697	71.4	19	1300.0	282	996	15.2	28	7400	15	53	.8
2	47.00	38	6525	97.3	11	270.00	513	4107	62.5	20	1600.0	193	714	10.9	29	9000	11	38	.5
3	53.00	13	6487	98.7	12	330.00	505	3594	54.7	21	1900.0	128	521	7.9	30	11000	6	27	.4
4	70.00	78	6469	98.4	13	400.00	422	3089	47.0	22	2300.0	101	393	6.0	31	13000	6	21	.3
5	85.00	200	6391	97.2	14	490.00	352	2667	40.6	23	2800.0	78	292	4.4	32	16000	10	15	.2
6	100.00	341	6191	94.2	15	590.00	352	2315	35.2	24	3400.0	63	214	3.3	33	20000	4	5	.0
7	130.00	203	5850	89.0	16	720.00	376	1963	29.9	25	4200.0	36	151	2.3	34	24000	1	1	.0
8	150.00	388	5647	85.9	17	880.00	349	1587	24.1	26	5000.0	32	115	1.7					



STATION NUMBER 05463000

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

BEAVER CREEK AT NEW HARTFORD, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1947	31.00 22	31.00 22	31.00 22	33.30 22	40.80 22	45.50 22	53.60 22	63.00 20	85.20 20	119.00 12
1948	17.00 18	17.00 18	17.00 17	17.30 17	19.40 16	27.70 17	36.40 18	42.60 17	39.30 13	365.00 23
1949	9.50 9	11.00 11	11.40 10	11.90 10	12.30 9	14.40 9	15.80 6	16.90 6	23.50 9	113.00 10
1950	6.20 7	6.27 7	6.34 7	6.37 5	8.09 5	8.22 4	8.65 4	10.50 3	12.20 3	85.20 7
1951	5.90 5	5.97 5	6.06 5	6.66 7	8.80 6	11.00 5	13.80 5	17.50 7	37.20 12	247.00 20
1952	70.00 25	76.70 25	79.30 25	93.60 25	93.10 25	119.00 24	158.00 24	167.00 24	207.00 24	405.00 24
1953	15.00 16	15.00 14	15.40 14	16.30 15	17.10 14	18.70 13	20.50 12	20.30 10	22.00 8	113.00 11
1954	5.50 4	5.83 4	5.90 4	6.34 4	8.94 7	12.50 6	16.00 7	16.70 5	18.50 4	83.10 6
1955	11.00 12	12.00 12	12.90 12	13.60 12	14.10 12	19.30 14	24.10 14	34.00 15	52.40 17	89.60 8
1956	2.30 1	2.30 1	2.33 1	2.52 1	2.78 1	3.30 1	4.70 1	6.64 1	9.59 2	37.20 2
1957	3.00 2	3.13 2	3.50 2	3.64 2	4.36 2	6.11 2	7.34 2	7.49 2	8.72 1	18.80 1
1958	9.80 10	9.80 9	10.30 9	11.00 9	12.90 10	14.60 10	16.90 9	20.70 11	25.10 10	46.00 3
1959	5.00 3	5.00 3	5.04 3	5.18 3	5.34 3	6.29 3	7.93 3	12.10 4	20.80 6	151.00 14
1960	38.00 23	40.30 23	44.30 23	49.40 23	64.30 24	79.10 23	106.00 23	116.00 23	130.00 22	183.00 17
1961	19.00 19	19.00 19	19.60 19	21.10 18	29.10 20	39.70 21	51.30 21	64.80 21	103.00 21	300.00 21
1962	23.00 20	23.70 20	25.10 20	27.60 21	29.60 21	35.20 19	41.70 19	50.90 19	60.20 18	182.00 16
1963	13.00 13	13.70 13	13.90 13	14.10 12	14.90 13	17.40 11	19.60 11	23.80 12	35.30 11	144.00 13
1964	3.40 8	8.53 8	8.77 8	8.96 8	9.75 8	12.90 7	17.10 10	18.50 9	21.80 7	71.10 4
1965	11.00 11	11.00 10	11.60 11	12.10 11	14.00 11	18.50 12	21.90 13	26.20 13	45.40 15	90.30 5
1966	40.00 24	41.30 24	46.10 24	51.80 24	63.60 23	164.00 25	173.00 25	207.00 25	282.00 25	427.00 25
1967	15.00 14	15.30 15	15.70 15	15.90 14	17.20 15	23.20 15	29.20 15	33.20 14	43.20 14	165.00 15
1968	6.00 6	6.00 6	6.14 6	6.51 6	8.04 4	13.70 8	16.30 8	17.50 8	20.20 5	74.50 5
1969	16.00 17	16.30 17	17.00 18	21.10 19	25.30 18	36.20 20	45.20 20	88.80 22	141.00 23	231.00 19
1970	25.00 21	25.00 21	25.40 21	26.60 20	28.20 19	30.10 18	34.90 17	43.30 18	51.40 16	307.00 22
1971	15.00 15	15.30 16	15.90 16	16.60 16	19.70 17	27.70 16	30.90 16	42.30 16	75.40 19	150.00 18



STATION NUMBER 05463000

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

BEAVER CREEK AT NEW HARTFORD, IOWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1946	4600.0 10	2830.0 11	1510.0 14	1300.0 9	805.0 11	553.0 12	507.0 9	402.0 11	321.0 11	206.0 9
1947	16300.0 1	7910.0 1	4230.0 2	3080.0 1	2230.0 1	1270.0 1	976.0 1	815.0 3	568.0 4	315.0 4
1948	5910.0 7	3400.0 8	2100.0 9	1260.0 10	960.0 9	617.0 10	481.0 10	376.0 13	276.0 14	155.0 14
1949	5700.0 8	3290.0 9	1690.0 12	914.0 14	563.0 16	360.0 16	261.0 16	210.0 17	161.0 18	52.9 18
1950	3500.0 13	2200.0 15	1310.0 15	884.0 15	611.0 14	561.0 11	454.0 12	457.0 9	316.0 12	172.0 13
1951	7050.0 3	6150.0 5	3240.0 5	2200.0 5	1420.0 4	1050.0 3	922.0 2	827.0 2	720.0 1	408.0 2
1952	1400.0 19	1200.0 17	379.0 17	647.0 17	585.0 15	434.0 15	396.0 14	349.0 14	281.0 13	198.0 11
1953	1210.0 21	333.0 20	544.0 21	371.0 21	323.0 20	254.0 19	234.0 17	211.0 16	202.0 15	113.0 15
1954	1430.0 17	817.0 21	694.0 19	549.0 18	371.0 19	233.0 20	176.0 21	147.0 21	111.0 22	65.1 22
1955	430.0 25	390.0 25	303.0 25	220.0 24	166.0 24	132.0 23	114.0 23	98.1 23	83.0 24	61.0 23
1956	200.0 26	130.0 26	150.0 26	127.0 26	89.5 26	68.4 26	57.1 26	46.2 26	32.5 26	21.8 26
1957	975.0 23	707.0 23	464.0 23	278.0 23	188.0 23	117.0 25	90.0 25	75.8 25	61.5 25	35.5 25
1958	1210.0 22	854.0 19	519.0 22	309.0 22	207.0 22	159.0 22	144.0 22	126.0 22	114.0 21	73.6 21
1959	4500.0 11	3200.0 10	2850.0 7	1790.0 6	1110.0 7	646.0 9	478.0 11	405.0 10	326.0 10	177.0 12
1960	7000.0 6	5360.0 6	3040.0 6	1720.0 7	1200.0 6	971.0 4	728.0 4	570.0 5	420.0 5	276.0 5
1961	3150.0 14	2640.0 13	1890.0 11	1210.0 11	938.0 10	724.0 8	587.0 6	473.0 8	333.0 9	199.0 10
1962	3270.0 5	6410.0 3	3910.0 4	2270.0 4	1340.0 5	783.0 6	577.0 7	480.0 7	352.0 7	208.0 8
1963	2700.0 16	1990.0 16	1120.0 16	679.0 16	404.0 18	288.0 17	231.0 18	207.0 18	175.0 17	105.0 16
1964	690.0 24	471.0 24	330.0 24	208.0 25	133.0 25	125.0 24	102.0 24	86.6 24	86.3 23	54.1 24
1965	4520.0 4	6370.0 4	4640.0 1	2630.0 3	1450.0 3	908.0 5	715.0 5	609.0 4	578.0 3	337.0 3
1966	4110.0 12	2670.0 12	1580.0 13	939.0 13	710.0 13	508.0 13	414.0 13	389.0 12	340.0 8	276.0 6
1967	1400.0 18	1090.0 18	774.0 13	514.0 15	462.0 17	268.0 18	200.0 19	185.0 19	143.0 19	88.3 19
1968	2840.0 15	2540.0 14	1950.0 10	1080.0 12	732.0 12	440.0 14	318.0 15	247.0 15	180.0 16	102.0 17
1969	12300.0 2	7550.0 2	4110.0 3	2760.0 2	1810.0 2	1060.0 2	826.0 3	904.0 1	685.0 2	411.0 1
1970	1230.0 20	763.0 22	569.0 20	404.0 20	292.0 21	196.0 21	187.0 20	176.0 20	131.0 20	86.7 20
1971	4710.0 9	3730.0 7	2260.0 8	1390.0 8	1070.0 8	750.0 7	552.0 8	489.0 6	354.0 6	215.0 7



DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

BEAVER CREEK AT NEW HARTFORD, IOWA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	YEAR	CFS_DAYS	
											5	11	25	10	45	28	53	20	15	27	6	6	5	5	4	1	1	4		2	1					1946	75097.0	
										3	14	41	24	65	40	17	42	25	14	11	17	14	15	3	3	3	6	2	1		3	1		1			1947	115044.0
						1	23	22	38	35	27	35	50	20	20	13	11	25	13	7	5	1	4	2				4	1		1					1948	56894.5	
							28	66	68	25	23	26	28	17	17	20	16	11	8	4	2	2	1				1				1					1949	33926.0	
					15	40	24	24	46	29	9	15	11	10	22	12	17	12	22	13	9	9	2	7	6	3	3	2	1	2						1950	62766.1	
					8	5	8	29	20	17	26	12	5	21	7	10	21	22	27	31	22	15	15	9	7	4	7	6	2	5		3	1			1951	148979.0	
								2	20	5	17	9	12	20	39	52	62	37	28	34	10	9	6	1	3											1952	72621.0	
								3	10	5	32	8	6	13	23	20	34	22	31	14	10	6	4	3	1	1										1953	41092.0	
					9	7	7	7	50	71	60	43	32	19	11	4	13	5	8	7	3	3	2		3	1										1954	23760.3	
					1	15	27	14	31	26	40	33	28	37	39	24	20	13	6	6	3	2														1955	22247.7	
																																				1956	7566.0	
	14	43	35	30	36	28	26	33	25	22	13	19	15	13	6	3	5	1																		1957	12566.9	
		4	25	20	24	56	17	38	27	37	24	47	10	6	14	5	1	1	1		1	2		1												1958	26847.4	
						3	18	7	23	57	69	33	37	30	19	15	16	9	7	4	3		1		1											1959	64535.0	
																																				1960	101093.0	
																																					1961	72795.0
																																					1962	75845.0
																																					1963	38267.0
																																					1964	15783.6
																																					1965	123036.0
																																					1966	100592.0
																																					1967	32240.0
																																					1968	37329.1
																																					1969	150050.0
																																					1970	31663.0
																																					1971	78497.0



STATION NUMBER 05463000

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

BEAVER CREEK AT NEW HARTFORD, IOWA

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	9496	100.0	9	18.00	738	8158	85.9	18	190.0	466	1812	19.1	27	2000	27	102	1.0
1	2.30	14	9496	100.0	10	24.00	721	7420	78.1	19	250.0	334	1346	14.2	28	2600	30	75	.7
2	3.00	47	9482	99.9	11	31.00	740	6699	70.5	20	320.0	288	1012	10.7	29	3300	18	45	.4
3	3.90	60	9435	99.4	12	40.00	761	5959	62.8	21	420.0	201	724	7.6	30	4300	11	27	.2
4	5.00	127	9375	98.7	13	52.00	866	5198	54.7	22	540.0	155	523	5.5	31	5600	11	16	.1
5	6.50	157	9243	97.4	14	68.00	659	4332	45.6	23	700.0	107	368	3.9	32	7300	3	5	.0
6	8.40	212	9091	95.7	15	88.00	569	3633	38.3	24	910.0	65	261	2.7	33	9500		2	.0
7	11.00	240	8879	93.5	16	110.00	747	3064	32.3	25	1200.0	47	196	2.1	34	12000	2	2	.0
8	14.00	481	8639	91.0	17	150.00	505	2317	24.4	26	1500.0	47	149	1.6					



STATION NUMBER 05463500

LOWEST MEAN DISCHARGE, IN CFS, AND BANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

BLACK HAWK CREEK AT HULSON, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1954	4.30 4	4.33 4	4.47 4	4.59 4	7.04 4	11.80 5	13.30 4	13.30 4	14.20 2	82.50 5
1955	12.00 7	13.00 9	16.00 13	18.90 13	22.30 13	29.40 13	33.50 13	46.50 13	80.10 15	116.00 9
1956	1.90 1	1.90 1	1.97 1	2.04 1	2.16 1	2.57 1	3.45 1	4.43 1	5.74 1	31.70 2
1957	1.90 2	2.13 2	2.56 2	3.21 2	4.09 2	7.12 2	9.02 2	9.37 2	19.10 4	23.90 1
1958	12.00 8	12.00 7	13.30 8	17.10 12	18.50 9	39.40 16	48.10 15	58.20 15	58.90 13	96.10 7
1959	13.00 9	13.00 8	13.10 7	13.60 7	14.50 7	16.30 7	19.30 7	28.20 8	36.40 8	185.00 14
1960	19.00 15	20.70 15	22.00 15	22.40 14	24.90 15	27.90 12	31.90 12	44.80 12	58.00 12	116.00 8
1961	15.00 12	15.00 11	15.40 10	16.40 9	21.30 12	29.50 14	38.70 14	50.20 14	50.90 11	281.00 16
1962	19.00 16	20.30 15	23.40 17	24.60 16	31.70 17	64.20 17	75.70 17	82.80 17	117.00 17	219.00 15
1963	14.00 10	14.00 10	14.00 9	14.40 8	15.60 8	18.20 8	19.90 8	23.80 7	32.40 7	150.00 10
1964	6.50 6	6.67 6	6.89 6	7.07 5	7.66 5	9.32 3	12.00 3	12.90 3	15.30 3	46.80 3
1965	6.00 5	6.00 5	6.36 5	10.50 6	13.90 6	16.00 6	17.80 6	19.10 6	26.60 6	84.70 6
1966	25.00 14	25.70 18	29.30 18	35.40 18	39.10 18	134.00 18	148.00 18	158.00 18	280.00 18	328.00 17
1967	17.00 13	17.00 13	17.00 12	17.00 10	18.60 10	24.40 9	28.80 9	32.10 9	49.20 10	158.00 11
1968	3.40 3	3.40 3	3.43 3	3.55 3	4.59 3	11.50 4	16.50 5	17.60 5	19.70 5	55.70 4
1969	19.00 14	20.00 14	21.90 14	25.70 17	29.50 16	38.90 15	50.20 16	61.50 16	110.00 16	170.00 13
1970	22.00 17	22.00 17	22.60 16	23.40 15	24.70 14	26.60 11	31.00 11	38.80 10	48.70 9	354.00 18
1971	15.00 11	16.00 12	16.70 11	17.00 11	20.30 11	25.60 10	30.40 10	40.60 11	76.00 14	162.00 12



STATION NUMBER 05463500

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

BLACK HAWK CREEK AT HUDSON, IOWA

YEAR	1	2	7	15	30	60	90	120	182	ANNUAL
1953	1800.0 14	1120.0 14	602.0 15	508.0 13	383.0 12	261.0 12	227.0 10	219.0 9	207.0 9	114.0 10
1954	1640.0 15	951.0 15	628.0 14	578.0 11	416.0 11	277.0 11	205.0 14	178.0 13	139.0 11	76.7 14
1955	800.0 16	600.0 17	397.0 17	369.0 16	229.0 17	159.0 16	138.0 16	117.0 17	93.4 17	72.3 17
1956	333.0 19	245.0 19	147.0 19	104.0 19	59.5 19	42.7 19	31.8 19	26.6 19	28.4 19	18.4 19
1957	2090.0 11	1580.0 10	928.0 11	502.0 14	438.0 10	252.0 13	209.0 12	195.0 12	131.0 14	76.6 15
1958	2170.0 10	1470.0 12	864.0 12	525.0 12	362.0 13	321.0 9	257.0 9	209.0 10	174.0 10	116.0 9
1959	5920.0 3	3280.0 5	2790.0 5	1840.0 3	1070.0 4	623.0 5	457.0 6	362.0 7	270.0 8	150.0 8
1960	7500.0 2	4350.0 2	2890.0 4	1610.0 5	1170.0 2	894.0 2	691.0 2	548.0 2	393.0 2	228.0 5
1961	2430.0 9	1920.0 9	1310.0 9	982.0 7	880.0 7	685.0 4	535.0 4	430.0 4	315.0 5	184.0 7
1962	4600.0 5	4320.0 3	3150.0 3	1920.0 2	1170.0 3	743.0 3	598.0 3	491.0 3	366.0 4	261.0 3
1963	2020.0 12	1490.0 11	982.0 10	593.0 10	359.0 14	247.0 14	196.0 15	156.0 15	132.0 13	81.3 12
1964	643.0 18	480.0 18	362.0 18	252.0 18	192.0 18	150.0 17	121.0 18	97.0 18	77.9 18	46.6 18
1965	5850.0 4	3370.0 4	3210.0 2	1700.0 4	932.0 5	609.0 6	476.0 5	399.0 6	379.0 3	236.0 4
1966	2780.0 8	2200.0 7	1320.0 8	827.0 9	579.0 8	421.0 8	359.0 8	347.0 8	305.0 6	266.0 2
1967	763.0 17	613.0 16	459.0 16	322.0 17	243.0 16	147.0 18	133.0 17	129.0 16	113.0 16	73.5 16
1968	2800.0 7	2170.0 8	1620.0 6	864.0 8	482.0 9	285.0 10	213.0 11	170.0 14	129.0 15	76.9 13
1969	11300.0 1	6720.0 1	3730.0 1	2860.0 1	1950.0 1	1270.0 1	1000.0 1	872.0 1	715.0 1	414.0 1
1970	1880.0 13	1390.0 13	773.0 13	493.0 15	310.0 15	228.0 15	205.0 13	187.0 11	135.0 12	87.7 11
1971	3110.0 6	2360.0 6	1560.0 7	1070.0 6	901.0 6	574.0 7	426.0 7	420.0 5	303.0 7	188.0 6



STATION NUMBER 05463500

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

BLACK HAWK CREEK AT HUDSON, ICWA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34		
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS		
1953									75	50	11	10	22	9	16	15	33	31	21	29	13	8	8	8		2	3		1								
1954				15	3	4	6	48	69	53	21	29	21	16	13	12	10	6	7	11	4	6	2	5	1	1	2										
1955			5	6	8	16	14	4	9	23	27	48	36	34	37	34	20	7	13	8	3	2	4	1	1												
1956	30	31	30	21	22	56	27	29	28	18	16	16	11	15	6	3	2	1	2	1			1														
1957		4	1	10	30	46	17	30	22	35	50	23	20	20	14	10	5	6	4	5	4	1	2	1	1	1	1	3									
1958									11	25	22	34	82	53	45	20	24	14	11	7	4	6	2	1	3					1							
1959								6	38	34	39	63	29	15	15	30	33	14	13	8	6	5	4	2	2	2	2	2	2	2	2	2	2	1			
1960									5	26	26	43	49	41	33	19	16	19	11	17	22	10	8	5	3	1	3	2	1	1					1		
1961									11	12	16	45	55	38	37	28	20	8	19	17	15	5	14	4	5	10	3			3							
1962										10	16	13	12	23	60	34	26	44	45	30	20	9	10	2	4			2	1	1	2	1					
1963										33	63	54	43	43	33	24	21	8	12	10	6	2	4	2	1	1	3	1	1								
1964					2	25	20	12	99	52	35	23	20	10	11	19	11	9	6	4	3	2	2	1													
1965					5	3	8	9	18	56	30	21	16	27	15	23	19	15	17	17	12	11	11	7	6	4	4	6	1	1	2			1			
1966												8	15	11	19	31	21	34	67	62	43	20	14	5	6	1	2	4	1	1							
1967										19	35	24	81	74	35	19	22	12	14	11	4	5	4	3	3												
1968			14	7	7	5	4	13	20	50	54	50	42	29	20	17	9	4	5	3	4	3				1	2	2		1							
1969											6	48	38	48	31	18	14	24	36	22	21	18	10	10	8	2	4	2	2	2	2	2	2	1			
1970											11	18	73	48	32	36	36	25	32	18	12	13	4	2	3												
1971										16	21	29	41	24	17	23	46	37	19	17	16	15	8	11	9	7	4		1	2	2						

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	6439	100.0	9	14.00	451	6241	89.9	18	140.0	271	1644	23.7	27	1300	26	97	1.3
1	1.90	30	6439	100.0	10	18.00	493	5740	83.4	19	170.0	325	1373	19.8	28	1700	29	71	1.0
2	2.40	31	6909	99.6	11	23.00	524	5297	76.3	20	220.0	278	1048	15.1	29	2100	17	42	.6
3	3.10	53	6679	97.1	12	30.00	652	4773	68.8	21	290.0	219	770	11.1	30	2700	9	25	.3
4	4.00	50	5825	90.4	13	39.00	546	4121	59.4	22	370.0	153	551	7.9	31	3500	9	16	.2
5	5.20	57	6775	97.6	14	50.00	543	3575	51.5	23	470.0	125	398	5.7	32	4500	3	7	.1
6	6.70	139	5713	86.8	15	64.00	465	3032	43.7	24	610.0	78	273	3.9	33	5800	2	4	.0
7	8.00	125	6579	94.8	16	82.00	544	2567	37.0	25	780.0	50	195	2.8	34	7500	2	2	.0
8	11.00	213	6454	93.0	17	110.00	379	2023	29.2	26	1000.0	48	145	2.1					



STATION NUMBER 05464000

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

CEDAR RIVER AT WATERLOO, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1942	534.00 21	584.00 20	600.00 19	643.00 19	688.00 19	1000.00 24	1340.00 26	1790.00 28	2350.00 28	3160.00 20
1943	960.00 30	980.00 30	1010.00 29	1040.00 29	1100.00 28	1170.00 27	1210.00 25	1380.00 25	2020.00 25	3790.00 25
1944	540.00 22	564.00 18	569.00 18	587.00 18	609.00 18	759.00 18	861.00 18	934.00 17	1170.00 17	2100.00 13
1945	430.00 15	450.00 14	454.00 14	464.00 13	475.00 13	495.00 10	564.00 13	648.00 13	823.00 13	3410.00 23
1946	500.00 17	587.00 21	667.00 23	671.00 21	735.00 21	852.00 21	903.00 21	991.00 18	1750.00 23	4180.00 27
1947	540.00 23	620.00 22	628.00 21	679.00 23	813.00 23	908.00 23	1100.00 23	1310.00 23	1590.00 21	1900.00 11
1948	415.00 12	420.00 12	427.00 11	437.00 11	468.00 11	592.00 14	710.00 15	805.00 16	882.00 15	4060.00 26
1949	248.00 6	331.00 8	362.00 9	392.00 9	447.00 10	491.00 9	517.00 7	555.00 8	603.00 8	1730.00 7
1950	230.00 4	237.00 4	254.00 4	293.00 4	332.00 4	354.00 4	372.00 4	397.00 4	452.00 4	1740.00 9
1951	208.00 5	303.00 5	311.00 5	317.00 5	347.00 5	373.00 5	383.00 5	431.00 5	541.00 5	1920.00 12
1952	793.00 29	841.00 29	1020.00 30	1130.00 30	1260.00 30	1540.00 29	1770.00 29	1960.00 29	2340.00 27	5590.00 30
1953	350.00 10	370.00 10	433.00 12	510.00 15	536.00 14	546.00 13	557.00 12	581.00 11	669.00 11	2230.00 15
1954	300.00 7	314.00 6	321.00 6	328.00 6	357.00 6	437.00 6	523.00 8	562.00 9	624.00 9	1730.00 8
1955	510.00 19	530.00 17	558.00 17	583.00 17	607.00 17	734.00 17	849.00 17	1050.00 20	1380.00 20	2420.00 18
1956	205.00 2	213.00 2	219.00 2	235.00 2	251.00 2	258.00 2	274.00 2	308.00 2	351.00 2	861.00 2
1957	230.00 3	230.00 3	236.00 3	255.00 3	307.00 3	332.00 3	359.00 3	365.00 3	425.00 3	765.00 1
1958	310.00 8	323.00 7	345.00 7	368.00 8	430.00 8	487.00 8	525.00 9	551.00 7	551.00 6	890.00 3
1959	152.00 1	164.00 1	173.00 1	176.00 1	183.00 1	222.00 1	247.00 1	289.00 1	346.00 1	1090.00 4
1960	704.00 25	782.00 26	804.00 27	811.00 25	866.00 25	1030.00 25	1440.00 27	1490.00 26	1670.00 22	2270.00 16
1961	447.00 16	458.00 15	463.00 15	478.00 14	536.00 15	615.00 15	708.00 14	799.00 15	998.00 16	3290.00 21
1962	530.00 20	620.00 23	631.00 24	716.00 24	750.00 22	777.00 20	882.00 20	1050.00 21	1240.00 19	2150.00 14
1963	632.00 24	641.00 24	653.00 22	674.00 22	711.00 20	766.00 19	874.00 19	1040.00 19	1780.00 24	3660.00 24
1964	425.00 14	443.00 13	450.00 13	455.00 12	474.00 12	506.00 12	527.00 10	576.00 10	642.00 10	1830.00 10
1965	345.00 9	377.00 11	386.00 10	404.00 10	441.00 9	503.00 11	539.00 11	586.00 12	780.00 12	1450.00 5
1966	754.00 27	805.00 28	833.00 28	844.00 28	928.00 27	1630.00 30	1920.00 30	2520.00 30	3980.00 30	5550.00 29
1967	420.00 13	495.00 16	508.00 16	543.00 16	568.00 16	643.00 16	724.00 16	773.00 14	839.00 14	2370.00 17
1968	355.00 11	350.00 9	357.00 8	361.00 7	386.00 7	485.00 7	517.00 6	535.00 6	566.00 7	1470.00 6
1969	504.00 18	574.00 19	604.00 20	662.00 20	1120.00 29	1340.00 28	1460.00 28	1640.00 27	2470.00 29	3400.00 22
1970	764.00 26	790.00 27	804.00 25	828.00 26	832.00 24	872.00 22	953.00 22	1070.00 22	1220.00 18	4670.00 28
1971	659.00 25	751.00 25	804.00 26	849.00 27	925.00 26	1030.00 26	1190.00 24	1370.00 24	2070.00 26	3160.00 15



STATION NUMBER 05464000

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

CEDAR RIVER AT WATERLOO, IOWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1941	10300.0 25	9240.0 25	8010.0 25	6700.0 25	5710.0 25	4740.0 22	4410.0 22	4180.0 21	3210.0 22	2260.0 17
1942	21600.0 19	19400.0 17	15500.0 17	11600.0 15	7940.0 19	7210.0 12	6480.0 10	5710.0 10	5260.0 7	4190.0 4
1943	16600.0 23	15300.0 22	12100.0 21	10700.0 19	8060.0 18	5940.0 19	4780.0 21	4290.0 18	3690.0 16	2750.0 13
1944	23400.0 15	19300.0 16	16300.0 15	11200.0 17	9280.0 15	8080.0 9	6760.0 9	6020.0 8	4680.0 9	2850.0 11
1945	50700.0 5	45100.0 5	32300.0 5	20100.0 6	13000.0 8	10100.0 5	10000.0 4	8860.0 4	6990.0 3	3920.0 5
1946	22600.0 18	18900.0 19	14500.0 19	13400.0 10	9580.0 13	6370.0 16	5500.0 13	4610.0 14	3780.0 15	2530.0 16
1947	45200.0 8	36400.0 8	25800.0 8	18700.0 7	15000.0 5	10400.0 4	8730.0 5	8020.0 5	6030.0 5	3710.0 7
1948	37400.0 10	30600.0 10	19200.0 11	11600.0 16	10700.0 9	6710.0 13	5410.0 14	4400.0 17	3220.0 21	1970.0 19
1949	22700.0 16	20500.0 15	15700.0 16	10700.0 18	9540.0 14	5520.0 14	4800.0 20	3970.0 22	2990.0 24	1820.0 25
1950	36900.0 11	30200.0 11	19000.0 13	10500.0 20	9960.0 12	6120.0 18	5170.0 16	4590.0 15	3410.0 17	1950.0 20
1951	54400.0 4	48800.0 4	37400.0 4	28700.0 3	21700.0 3	15700.0 1	12200.0 1	11500.0 2	9060.0 1	5080.0 2
1952	27200.0 13	24900.0 13	19200.0 12	12900.0 11	10700.0 10	7720.0 11	6320.0 12	5500.0 11	4480.0 11	3060.0 10
1953	18500.0 20	16800.0 20	11900.0 22	7520.0 24	5190.0 26	3900.0 26	3450.0 26	3420.0 26	3300.0 18	2000.0 18
1954	47300.0 7	39500.0 7	28600.0 7	17200.0 8	10200.0 11	6260.0 17	5010.0 19	4270.0 20	3270.0 20	1950.0 21
1955	5250.0 23	5680.0 24	4530.0 27	3430.0 28	2880.0 27	2450.0 27	2200.0 27	2070.0 27	1740.0 27	1410.0 27
1956	5600.0 29	5280.0 29	4520.0 28	3630.0 27	2450.0 29	1900.0 30	1550.0 30	1330.0 30	1120.0 31	740.0 31
1957	6960.0 27	5760.0 27	4060.0 29	2870.0 29	2570.0 28	1940.0 29	1600.0 29	1380.0 29	1200.0 29	818.0 30
1958	3820.0 31	2970.0 31	2490.0 31	1970.0 31	1570.0 31	1360.0 31	1210.0 31	1210.0 31	1140.0 30	834.0 29
1959	22700.0 17	19300.0 18	15000.0 18	11800.0 14	7410.0 21	4420.0 23	4150.0 23	3880.0 23	3180.0 23	1830.0 24
1960	45100.0 9	34200.0 9	21800.0 9	12900.0 12	9160.0 16	7830.0 10	6380.0 11	5380.0 12	3950.0 13	2800.0 12
1961	74000.0 1	62900.0 2	39200.0 3	22500.0 5	13900.0 7	9460.0 8	7320.0 8	5940.0 9	4370.0 12	2620.0 15
1962	40400.0 6	40800.0 6	30000.0 6	22700.0 4	16200.0 4	10000.0 6	7650.0 7	6630.0 7	5720.0 6	3530.0 5
1963	15200.0 24	13800.0 23	11300.0 24	9760.0 21	6640.0 23	5710.0 21	5170.0 17	4510.0 16	3780.0 14	2680.0 14
1964	4060.0 30	4010.0 30	3410.0 30	2600.0 30	2400.0 30	2170.0 28	1790.0 28	1520.0 28	1380.0 28	1010.0 28
1965	64000.0 2	64700.0 1	54800.0 1	39000.0 1	23400.0 2	14300.0 3	10900.0 3	9060.0 3	6950.0 4	4240.0 3
1966	32300.0 12	26900.0 12	18500.0 14	11800.0 13	7880.0 20	5830.0 20	5180.0 15	4910.0 13	4650.0 10	3830.0 6
1967	14100.0 22	16300.0 21	12900.0 20	9680.0 22	6730.0 22	4250.0 24	3640.0 25	3560.0 24	2780.0 25	1790.0 26
1968	18200.0 21	13600.0 24	11700.0 23	9450.0 23	8970.0 17	6440.0 15	5010.0 18	4280.0 19	3280.0 19	1940.0 22
1969	59000.0 3	50300.0 3	43200.0 2	35200.0 2	23900.0 1	14400.0 2	11300.0 2	11700.0 1	9040.0 2	5650.0 1
1970	9170.0 26	8690.0 26	7530.0 26	6350.0 26	5730.0 24	4180.0 25	3670.0 24	3490.0 25	2750.0 26	1930.0 23
1971	25900.0 14	24200.0 14	20300.0 10	15800.0 9	14600.0 6	9980.0 7	7710.0 6	6860.0 6	5240.0 8	3640.0 8



STATION NUMBER 05464000

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

CEDAR RIVER AT WATERLOO, IOWA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34						
YEAR	NUMBER OF DAYS IN CLASS																																	CFS_DAYS							
1941								1	11	38	49	43	31	40	24	26	17	17	14	17	12	9	10	6														824133.0			
1942												1	5	21	33	38	56	54	49	41	10	14	9	12	12	3	3	4										1529190.0			
1943											1	44	50	19	52	59	51	25	17	12	6	8	9	5	2	3	2										1005160.0				
1944											2	32	20	25	64	33	30	6	14	21	28	24	17	11	11	8	4	5	6	4			1					1042488.0			
1945											7	49	12	15	44	29	20	14	18	12	7	15	20	18	11	17	12	15	11	4	6	4	4	1	1		2	1	1429264.0		
1946											1	17	26	42	68	42	34	21	18	22	13	10	13	5	12	2	6	3	2	4	3	1						925161.0			
1947											1	1	21	23	54	33	33	20	26	31	21	13	12	19	11	11	9	8	5	7	3			1	1	1		1352871.0			
1948					1	3	24	42	39	26	50	52	18	14	16	16	24	9	8	5	4	2	2		2	1	2			3	2	1					722770.0				
1949					4	19	39	70	41	39	35	20	15	13	10	15	11	4	5	5		4	4	4	1	5	1	1									665725.0				
1950					7	28	25	27	68	26	10	18	16	7	12	14	23	32	15	7	8	2	4	5	3	1		1	2	2	1	1					711083.0				
1951					9	27	53	9	28	10	11	2	6	3	5	13	25	22	24	23	10	16	11	4	12	12	9	4	5	3	5	2	2				1854401.0				
1952									5	14	8	38	26	21	41	43	48	39	21	16	14	12	5	6	2	2	1	2	1	1								1121257.0			
1953					2	9	35	71	27	17	13	9	11	21	22	48	26	24	13	10		3		1	1	2												731702.0			
1954					4	19	13	21	45	57	39	31	29	27	10	11	12	10	8	7	4	6	4		1		2			2	1			1	1			713133.0			
1955					8	36	12	38	21	27	47	32	28	28	36	22	17	10		2	1																		515728.0		
1956					3	30	56	23	46	46	37	26	30	21	13	10	7	7	1	1	4	3	2																270778.0		
1957									10	27	39	53	35	44	36	37	26	10	12	17	8	3	3	1	2														298462.0		
1958									1	18	30	64	61	59	47	33	14	11	10	8	7	1	1																304417.0		
1959					9	25	17	37	23	36	8	3	2	15	32	27	25	11	16	16	16	11	7	6	3	6	8	2	1	1	1	1					666487.0				
1960											7	39	39	56	40	27	33	29	21	15	20	12	11	3	6	2	1	2			1	1			1			1026628.0			
1961									3	18	18	43	62	62	17	26	14	16	12	14	12	15	11	6	4	2	4		1			2				1	1	1	955346.0		
1962									1	3	39	28	29	31	21	33	31	27	33	19	16	13	7	6	5	4	4	7	2	2	1	1	1	1				1289769.0			
1963											7	42	34	48	9	30	42	38	19	19	10	18	11	11	8	8	7	3	1										978847.0		
1964											11	65	72	77	40	16	7	21	10	21	16	6	4																369885.0		
1965											2	24	24	22	51	32	26	10	15	11	20	21	12	14	14	14	10	9	5	4	3	2	5	3	3	3		3	2	1	1546785.0
1966												9	14	16	12	28	11	44	45	45	32	36	16	19	9	5	7	2	2	2	2			1						1396421.0	
1967											1	11	52	57	63	32	18	23	12	30	10	10	9	8	9	3	3	5	1	1	2								652663.0		
1968											16	32	21	75	38	25	12	16	16	24	20	10	8	10	8	7	6	7	8	4	2	1							708681.0		
1969													29	22	43	32	29	32	21	14	25	28	20	14	8	12	4	13	4	2	2	2	2	3	4				2077030.0		
1970												1	6	74	62	56	40	13	24	36	16	10	5	8	7	6	1												706029.0		
1971																																								1328525.0	



DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

CEDAR RIVER AT WATERLOO, IOWA

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	11322	100.0	9	670.00	846	5062	80.0	18	3500.0	464	2116	18.7	27	19000	42	135	1.1
1	152.00	9	11322	100.0	10	800.00	970	8216	72.6	19	4200.0	413	1652	14.6	28	22000	30	93	.8
2	190.00	28	11313	99.9	11	970.00	1049	7246	64.0	20	5100.0	282	1239	10.9	29	27000	19	63	.5
3	220.00	64	11285	99.7	12	1200.00	709	6197	54.7	21	6100.0	240	957	8.5	30	32000	15	44	.3
4	260.00	103	11221	99.1	13	1400.00	703	5488	48.5	22	7400.0	176	717	6.3	31	39000	11	29	.2
5	320.00	209	11058	97.7	14	1700.00	608	4785	42.3	23	8900.0	142	541	4.8	32	47000	13	18	.1
6	380.00	424	10849	95.8	15	2000.00	731	4177	36.9	24	11000.0	114	399	3.5	33	57000	3	5	.0
7	460.00	573	10425	92.1	16	2400.00	743	3446	30.4	25	13000.0	63	285	2.5	34	68000	2	2	.0
8	550.00	710	9852	87.0	17	2900.00	587	2703	23.9	26	15000.0	87	222	2.0					



STATION NUMBER 05464130

LOWEST MEAN DISCHARGE, IN CFS, AND BANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

FOURMILE CREEK NEAR LINCOLN, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1964	0.16 2	0.19 2	0.20 2	0.27 2	0.36 1	0.51 1	0.53 1	0.57 1	0.63 1	2.13 1
1965	0.11 1	0.12 1	0.17 1	0.25 1	0.54 3	0.63 3	0.68 3	0.83 3	1.15 2	5.06 2
1966	0.49 5	0.50 5	0.55 5	0.60 4	0.84 4	3.03 5	6.17 5	6.53 5	10.80 5	14.10 5
1967	0.23 3	0.26 3	0.36 3	0.47 3	0.52 2	0.60 2	0.63 2	0.65 2	1.79 3	6.58 3
1971	0.40 4	0.43 4	0.54 4	0.64 5	0.95 5	1.54 4	1.79 4	2.77 4	5.40 4	11.40 4



## STATION NUMBER 05464130

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

FOURMILE CREEK NEAR LINCOLN, IOWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1963	93.0 6	70.0 5	41.1 5	26.1 5	16.5 5	10.4 5	8.6 5	7.2 5	6.4 5	4.0 5
1964	40.0 7	17.1 7	9.6 7	7.5 7	6.5 7	5.4 6	4.5 6	3.6 7	3.0 7	1.8 7
1965	366.0 2	219.0 2	185.0 1	92.2 1	48.6 2	38.2 1	27.5 1	21.8 2	17.6 2	11.6 2
1966	180.0 4	89.7 4	47.4 4	30.6 4	21.4 4	18.2 3	16.8 3	15.4 3	14.5 3	11.5 3
1967	150.0 5	57.1 6	26.1 6	13.1 6	7.5 6	4.5 7	4.4 7	3.8 6	3.8 6	2.5 6
1970	261.0 3	149.0 3	69.0 3	46.1 3	25.5 3	15.8 4	14.3 4	12.9 4	9.2 4	5.8 4
1971	411.0 1	268.0 1	131.0 2	80.7 2	66.0 1	37.1 2	26.4 2	23.4 1	18.4 1	12.0 1



STATION NUMBER 05464130

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

FOURMILE CREEK NEAR LINCOLN, IOWA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	CFS_DAYS	
YEAR	NUMBER OF DAYS IN CLASS																																	CFS_DAYS			
1953				4	1	4	5	54	23	35	55	39	47	29	17	17	13	4	2	6	1	2	1		2	2	1	1									1443.4
1964	13	20	20	33	54	32	48	11	12	27	13	19	15	14	9	8	5	3	2		1		1													671.4	
1965	4	9	12	16	23	35	50	13	15	15	17	17	18	20	14	8	12	7	9	10	8	4	11	2	4	2	2	1	2	2	2	2	1		4240.1		
1966						2	15	3	6	5	7	15	19	22	22	38	35	68	55	26	12	8	2					3		2					4213.9		
1967		3	21	22	24	43	76	19	31	30	18	26	15	10	6	4	6	6	1	1		1			1										898.7		
1970				4	7	10	30	27	35	34	33	30	32	37	29	19	13	6	4	4	1	3	1	1		2	1		1			1			2123.7		
1971	10	14	5	4	2	7	2	3	5	13	16	48	45	37	35	34	23	15	8	5	6	5	3	4	1	2	5				1	1		4392.9			

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	2556	100.0	9	1.20	137	1710	66.9	18	10.0	115	383	15.0	27	90	9	29	1.1
1	0.10	17	2556	100.0	10	1.50	171	1573	61.5	19	13.0	92	268	10.5	28	110	6	20	.7
2	0.20	48	2539	99.3	11	2.00	140	1402	54.9	20	17.0	50	176	6.9	29	150	6	14	.5
3	0.30	77	2491	97.5	12	2.50	170	1262	49.4	21	21.0	29	126	4.9	30	190	2	8	.3
4	0.40	31	2414	94.4	13	3.20	176	1092	42.7	22	27.0	23	97	3.8	31	240	4	6	.2
5	0.50	116	2333	91.3	14	4.00	165	916	35.8	23	35.0	20	74	2.9	32	300	2	2	.0
6	0.60	129	2217	86.7	15	5.10	134	751	29.4	24	44.0	8	54	2.1	33				
7	0.70	230	2028	81.7	16	6.50	125	617	24.1	25	56.0	11	46	1.8	34				
8	1.00	98	1808	70.7	17	8.20	109	452	19.2	26	71.0	6	35	1.4					



STATION NUMBER 05464133

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

HALF MILE CREEK NEAR GLAD BROOK, ICWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1964	0.03 5	0.03 5	0.03 4	0.04 5	0.04 4	0.07 3	0.07 3	0.08 2	0.09 1	0.24 1
1965	0.00 1	0.00 1	0.00 1	0.00 1	0.03 2	0.04 1	0.06 1	0.10 3	0.12 2	0.69 3
1966	0.02 4	0.02 4	0.02 3	0.02 3	0.04 3	0.14 4	0.47 5	0.54 5	0.79 5	1.34 5
1967	0.00 2	0.00 2	0.00 2	0.00 2	0.02 1	0.05 2	0.06 2	0.06 1	0.23 3	0.67 2
1971	0.02 3	0.02 3	0.04 5	0.04 4	0.09 5	0.16 5	0.18 4	0.21 4	0.36 4	0.77 4



STATION NUMBER 05464133

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

HALF MILE CREEK NEAR GLAD BROOK, IOWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1963	9.3 6	6.6 6	4.2 5	2.6 5	2.1 5	1.3 5	1.0 5	0.9 5	0.7 5	0.5 5
1964	8.7 7	3.1 7	1.5 7	1.0 7	0.7 7	0.5 7	0.4 7	0.3 7	0.3 7	0.2 7
1965	41.0 1	30.3 1	24.1 1	15.0 1	7.8 1	5.9 1	4.3 1	3.3 1	2.5 1	1.4 1
1966	30.0 2	11.1 4	5.8 4	3.5 4	2.2 4	1.9 3	1.7 3	1.5 3	1.4 2	1.0 2
1967	13.0 5	8.6 5	4.0 6	1.9 6	1.1 6	0.6 6	0.5 6	0.5 6	0.4 6	0.3 6
1970	30.0 3	12.5 2	6.9 3	6.4 2	3.4 3	1.9 4	1.6 4	1.3 4	1.0 4	0.6 4
1971	22.0 4	11.7 3	8.0 2	5.5 3	4.3 2	2.7 2	2.0 2	1.8 2	1.3 3	0.8 3



STATION NUMBER 05464133

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

HALF MILE CREEK NEAR CLADROCK, IOWA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34		
YEAR	NUMBER OF DAYS IN CLASS																																	CFS_DAYS			
1963						5	9	4	21	38	57	24	17	4	9	4	4	3	3	5	1	4	1	2													180.9
1964	9	21	12	21	17	36	76	26	78	19	8	17	12	8	1	1	2					1	1													68.8	
1965	20	11	24	38	17	27	22	4	45	28	18	16	20	6	7	6	6	11	5	5	6	2	3	4	3	3	1	2	3	2					519.9		
1966	9		1	2		12	7	1	8	27	21	22	83	68	25	33	18	8	4	5	3	4		1		1	1		1						366.6		
1967	12	1	2	13	14	41	55	28	104	35	25	7	12	5	1	3		2	1			2			1		1								106.5		
1970			3	8	8	11	7	4	138	64	35	18	26	9	7	6	3	2	1	1		2	4	2		1									212.2		
1971	2	20	16	4	4	6	1		53	33	31	51	62	25	10	10	6	8	3	4	3	4	3	2	1	2		1							304.3		

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	52	2556	100.0	9	0.20	294	1318	51.6	18	2.3	17	117	4.5	27	21	3	10	.3
1	0.01	53	2504	98.0	10	0.30	199	1024	40.1	19	3.0	20	100	3.9	28	27	5	7	.2
2	0.02	53	2451	95.9	11	0.40	155	825	32.3	20	3.8	13	80	3.1	29	35	2	2	.0
3	0.03	85	2393	93.6	12	0.50	232	670	26.2	21	4.8	19	67	2.6	30				
4	0.04	60	2307	90.3	13	0.70	125	438	17.1	22	6.2	11	48	1.9	31				
5	0.05	133	2247	87.9	14	0.90	60	313	12.2	23	7.9	12	37	1.4	32				
6	0.07	177	2109	82.5	15	1.10	63	253	9.9	24	10.0	5	25	1.0	33				
7	0.09	67	1932	75.5	16	1.40	39	190	7.4	25	13.0	7	20	0.8	34				
8	0.10	547	1865	73.0	17	1.80	34	151	5.9	26	17.0	3	13	0.5					



STATION NUMBER 05464137

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

FOUR MILE CREEK NEAR TRAEER, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1964	0.20 1	0.27 1	0.30 1	0.37 1	0.48 1	0.73 1	0.73 1	0.83 1	0.96 1	2.87 1
1965	0.20 2	0.27 2	0.30 2	0.37 2	0.72 2	0.91 2	0.97 2	1.17 2	1.53 2	7.59 2
1966	0.80 4	0.80 4	0.87 4	0.91 3	1.21 3	4.32 6	8.96 6	9.46 6	14.40 6	19.00 5
1969	1.00 5	1.03 5	1.14 5	1.43 5	1.77 6	2.46 5	3.84 5	3.64 5	4.27 4	10.20 3
1970	1.30 6	1.37 6	1.43 6	1.48 6	1.52 5	1.83 3	2.28 3	2.84 3	3.84 3	21.20 6
1971	0.44 3	0.65 3	0.80 3	0.91 4	1.40 4	2.13 4	2.42 4	3.55 4	6.41 5	15.00 4



STATION NUMBER 05464137

HIGHEST MEAN DISCHARGE, IN CFS, AND PAKKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

FOURMILE CREEK NEAR TRAEH, IOWA

YEAR	1	2	7	15	30	60	90	120	183	ANNUAL
1963	120.0 6	101.0 6	61.4 6	38.5 6	23.6 6	14.4 6	11.9 6	9.9 6	8.6 6	5.4 6
1964	54.0 8	25.0 8	15.2 8	9.8 8	8.8 7	7.4 7	6.1 7	5.0 8	4.1 8	2.5 8
1965	473.0 1	294.0 3	242.0 1	123.0 1	64.7 3	56.0 1	40.0 2	31.9 3	25.7 2	16.4 2
1966	178.0 5	114.0 5	71.0 5	47.9 5	31.7 5	24.7 5	22.8 4	20.8 4	19.1 4	15.6 4
1968	73.0 7	31.7 7	21.5 7	12.3 7	8.3 8	7.1 8	5.4 8	5.4 7	4.8 7	3.4 7
1969	424.0 2	331.0 1	185.0 2	109.0 3	71.8 2	55.4 2	48.5 1	45.8 1	41.7 1	24.0 1
1970	215.0 4	150.0 4	89.0 4	81.4 4	45.2 4	26.9 4	21.8 5	19.4 5	13.8 5	8.5 5
1971	334.0 3	307.0 2	164.0 3	110.0 2	91.6 1	52.4 3	37.5 3	32.3 2	24.4 3	15.7 3







STATION NUMBER 05464500

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

CEDAR RIVER AT CEDAR RAPIDS, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1904	670.00 48	670.00 42	687.00 41	709.00 39	825.00 44	919.00 41	998.00 37	1230.00 39	2400.00 54	5000.00 61
1905	330.00 12	330.00 8	330.00 8	330.00 6	352.00 6	395.00 5	441.00 5	540.00 8	676.00 9	2320.00 23
1906	600.00 41	600.00 37	600.00 34	609.00 32	803.00 42	809.00 34	1030.00 38	1240.00 40	1320.00 33	3650.00 47
1907	1000.00 65	1060.00 65	1340.00 67	1430.00 66	1650.00 66	1990.00 64	1980.00 60	2230.00 61	2270.00 52	3650.00 48
1908	880.00 62	883.00 59	887.00 54	893.00 51	946.00 50	1140.00 51	1300.00 51	1400.00 49	2160.00 50	3720.00 49
1909	500.00 31	500.00 30	500.00 24	509.00 24	585.00 23	722.00 28	839.00 28	916.00 28	1070.00 27	3530.00 46
1910	300.00 55	800.00 50	800.00 48	800.00 46	840.00 45	1000.00 46	1590.00 55	1670.00 53	2740.00 61	4560.00 57
1911	250.00 4	250.00 1	253.00 2	274.00 2	298.00 2	324.00 2	402.00 4	454.00 4	548.00 6	1280.00 4
1912	410.00 19	410.00 17	433.00 17	461.00 17	533.00 18	737.00 30	1200.00 47	1220.00 38	1380.00 36	2180.00 20
1913	490.00 29	498.00 29	515.00 26	570.00 25	595.00 24	684.00 24	727.00 21	781.00 23	937.00 25	2930.00 36
1914	490.00 30	520.00 31	557.00 30	584.00 28	639.00 28	732.00 29	787.00 26	796.00 24	806.00 17	1720.00 8
1915	540.00 36	653.00 41	693.00 42	726.00 42	747.00 38	936.00 43	1150.00 46	1550.00 52	1590.00 43	3300.00 44
1916	800.00 56	900.00 51	914.00 50	986.00 57	1290.00 60	2040.00 66	2740.00 67	3240.00 68	3800.00 67	5700.00 64
1917	400.00 17	400.00 15	400.00 13	400.00 11	408.00 9	413.00 7	494.00 9	631.00 12	749.00 11	2250.00 42
1918	460.00 27	490.00 28	490.00 22	490.00 19	536.00 20	548.00 15	585.00 13	637.00 13	852.00 22	2840.00 34
1919	940.00 64	1060.00 66	1100.00 61	1210.00 61	1310.00 61	1760.00 61	2320.00 65	2380.00 63	2480.00 57	4020.00 54
1920	550.00 33	567.00 34	600.00 35	659.00 37	723.00 35	773.00 32	951.00 32	1530.00 51	1880.00 48	3950.00 51
1921	801.00 57	867.00 57	1130.00 63	1340.00 65	1590.00 63	1700.00 59	2040.00 62	2130.00 58	2220.00 51	3270.00 43
1922	783.00 52	840.00 54	840.00 51	845.00 50	918.00 48	1010.00 47	1250.00 49	1370.00 48	1790.00 45	2940.00 37
1923	470.00 23	470.00 26	436.00 21	503.00 22	534.00 19	575.00 17	604.00 14	745.00 20	814.00 18	1790.00 10
1924	450.00 25	450.00 23	450.00 18	464.00 18	483.00 16	756.00 31	906.00 30	1090.00 30	1340.00 34	2070.00 15
1925	730.00 50	840.00 58	949.00 57	971.00 55	1010.00 52	1070.00 48	1230.00 48	1360.00 47	1750.00 44	3020.00 38
1926	620.00 45	711.00 47	757.00 47	806.00 47	853.00 47	958.00 44	1110.00 43	1350.00 46	1270.00 32	1820.00 11
1927	630.00 49	719.00 48	754.00 45	819.00 48	1040.00 53	1220.00 54	1300.00 50	1330.00 44	1830.00 47	2300.00 21
1928	590.00 39	610.00 38	630.00 38	723.00 41	844.00 46	891.00 38	1050.00 39	1320.00 43	1530.00 41	2050.00 40
1929	1040.00 65	1160.00 67	1230.00 65	1280.00 63	1610.00 65	2030.00 65	2070.00 63	2450.00 64	3610.00 66	5100.00 62
1930	450.00 26	450.00 24	450.00 19	493.00 20	513.00 17	575.00 18	664.00 19	822.00 26	973.00 26	2710.00 27
1931	360.00 14	360.00 13	371.00 9	386.00 9	399.00 7	531.00 14	615.00 15	669.00 15	758.00 13	1430.00 6
1932	370.00 15	377.00 14	385.00 10	394.00 10	428.00 10	512.00 12	550.00 12	583.00 11	819.00 19	2370.00 24
1933	850.00 59	850.00 55	850.00 52	896.00 52	993.00 51	1120.00 50	1120.00 44	1240.00 41	1500.00 40	2770.00 30
1934	234.00 7	343.00 10	379.00 12	454.00 16	464.00 14	511.00 11	526.00 11	544.00 9	603.00 8	2100.00 18
1935	236.00 2	258.00 3	276.00 3	314.00 5	340.00 5	403.00 6	501.00 10	477.00 6	529.00 3	1720.00 9
1936	530.00 37	673.00 43	745.00 45	731.00 45	810.00 43	891.00 39	1060.00 40	1200.00 37	1140.00 28	2740.00 28
1937	413.00 20	418.00 18	428.00 16	442.00 14	475.00 15	553.00 16	899.00 29	1090.00 31	1460.00 38	2640.00 26
1938	413.00 21	436.00 21	536.00 23	571.00 26	615.00 25	615.00 20	658.00 18	691.00 16	803.00 16	2630.00 25
1939	797.00 53	818.00 52	855.00 53	908.00 53	1180.00 59	1540.00 58	1660.00 56	1930.00 54	2400.00 55	3310.00 45
1940	280.00 5	280.00 6	281.00 4	284.00 3	300.00 3	329.00 4	391.00 3	439.00 3	492.00 2	1200.00 3
1941	426.00 22	435.00 20	457.00 20	499.00 21	709.00 34	902.00 40	951.00 33	1150.00 35	1460.00 39	2050.00 16



STATION NUMBER 05464500

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

CEDAR RIVER AT CEDAR RAPIDS, ICWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1942	655.00 46	692.00 45	698.00 44	729.00 43	768.00 39	1160.00 52	2020.00 61	2520.00 65	3030.00 64	3980.00 53
1943	1140.00 68	1240.00 68	1470.00 68	1530.00 67	1590.00 64	1750.00 60	1870.00 59	2130.00 59	2630.00 62	4740.00 60
1944	550.00 34	590.00 35	678.00 35	700.00 38	725.00 36	934.00 42	1070.00 41	1140.00 33	1450.00 27	2780.00 31
1945	611.00 42	620.00 39	629.00 37	637.00 36	651.00 29	680.00 23	799.00 27	853.00 27	1150.00 29	4260.00 56
1946	600.00 40	687.00 46	914.00 55	937.00 54	1060.00 55	1310.00 55	1320.00 52	1430.00 50	2350.00 53	5250.00 63
1947	620.00 43	836.00 53	985.00 59	1020.00 59	1150.00 57	1370.00 56	1680.00 57	1980.00 57	2490.00 58	2810.00 32
1948	570.00 35	573.00 33	579.00 33	585.00 29	632.00 26	822.00 35	986.00 35	1110.00 32	1180.00 31	5760.00 65
1949	427.00 23	460.00 25	554.00 32	626.00 34	657.00 32	706.00 25	729.00 22	749.00 21	833.00 20	2310.00 22
1950	212.00 1	268.00 4	301.00 6	371.00 8	434.00 12	446.00 9	491.00 8	508.00 7	539.00 5	2140.00 19
1951	300.00 3	330.00 9	404.00 14	406.00 12	430.00 11	477.00 10	487.00 7	552.00 10	768.00 14	2760.00 29
1952	850.00 60	946.00 63	1260.00 66	1550.00 68	1690.00 68	2190.00 68	2740.00 68	2800.00 66	3310.00 65	7180.00 68
1953	450.00 24	453.00 27	554.00 29	607.00 31	651.00 30	711.00 26	730.00 23	739.00 19	873.00 23	2820.00 33
1954	320.00 11	347.00 11	354.00 11	401.00 12	443.00 13	519.00 13	622.00 16	641.00 14	699.00 10	1990.00 14
1955	620.00 44	643.00 40	680.00 40	742.00 44	777.00 40	977.00 45	1100.00 42	1350.00 45	1810.00 46	2870.00 35
1956	280.00 6	280.00 5	281.00 5	299.00 4	318.00 4	328.00 3	344.00 1	386.00 1	449.00 1	1080.00 2
1957	304.00 9	309.00 7	317.00 7	344.00 7	401.00 8	425.00 8	458.00 6	474.00 5	583.00 7	981.00 1
1958	341.00 13	410.00 16	417.00 15	443.00 15	539.00 21	625.00 21	712.00 20	732.00 18	750.00 12	1310.00 5
1959	250.00 3	250.00 2	250.00 1	258.00 1	280.00 1	321.00 1	348.00 2	421.00 2	534.00 4	1690.00 7
1960	1050.00 67	1060.00 64	1120.00 62	1220.00 62	1470.00 62	1940.00 63	2180.00 64	2250.00 62	2410.00 56	3080.00 39
1961	590.00 38	590.00 36	601.00 36	633.00 35	730.00 37	833.00 36	959.00 34	1190.00 34	1360.00 35	4570.00 58
1962	800.00 54	800.00 49	811.00 49	844.00 49	935.00 49	1180.00 53	1440.00 53	1940.00 56	2620.00 60	3730.00 50
1963	660.00 47	673.00 44	691.00 42	716.00 40	783.00 41	878.00 37	990.00 36	1200.00 36	2020.00 49	4600.00 59
1964	330.00 16	420.00 19	500.00 25	507.00 23	549.00 22	610.00 19	658.00 17	714.00 17	787.00 15	2090.00 17
1965	510.00 10	552.00 12	491.00 23	604.00 30	638.00 27	666.00 22	735.00 24	773.00 22	915.00 24	1890.00 13
1966	835.00 63	937.00 61	999.00 60	1100.00 60	1180.00 58	2110.00 67	2480.00 66	3170.00 67	4920.00 68	6460.00 67
1967	405.00 13	437.00 22	528.00 27	625.00 33	657.00 31	808.00 33	924.00 31	955.00 29	1160.00 30	3100.00 41
1968	502.00 32	543.00 32	558.00 31	577.00 27	659.00 33	718.00 27	759.00 25	808.00 25	851.00 21	1860.00 12
1969	840.00 58	945.00 62	1200.00 64	1230.00 64	1680.00 67	1800.00 62	1830.00 58	2160.00 60	2840.00 63	3970.00 52
1970	731.00 51	887.00 60	970.00 58	986.00 58	1050.00 54	1090.00 49	1150.00 45	1310.00 42	1570.00 42	5970.00 66
1971	854.00 61	863.00 56	929.00 56	980.00 56	1130.00 56	1440.00 57	1530.00 54	1930.00 55	2540.00 59	4130.00 55



STATION NUMBER 05464500

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

CEDAR RIVER AT CEDAR RAPIDS, ICWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1903	52500.0 10	45200.0 10	33800.0 9	21300.0 9	14700.0 10	10500.0 14	9820.0 9	8940.0 10	7970.0 6	5580.0 3
1904	11600.0 59	10700.0 59	9390.0 55	7330.0 55	6160.0 55	5180.0 53	4460.0 53	4260.0 50	3350.0 53	2530.0 48
1905	22300.0 35	20700.0 36	16500.0 37	13400.0 32	10500.0 30	7210.0 35	7210.0 25	6800.0 22	5490.0 23	3130.0 33
1906	50500.0 12	37100.0 14	23800.0 17	15900.0 23	12000.0 19	10200.0 15	8400.0 17	7390.0 17	5680.0 20	3620.0 23
1907	19400.0 41	17500.0 43	15400.0 41	12500.0 37	9680.0 37	7940.0 29	7290.0 22	6180.0 26	5550.0 21	4070.0 16
1908	20400.0 40	18300.0 40	15600.0 40	11900.0 42	8760.0 42	8440.0 23	6830.0 27	5740.0 32	5260.0 26	3420.0 26
1909	21000.0 39	19800.0 37	16500.0 38	13200.0 35	11500.0 26	10000.0 17	8890.0 14	8020.0 13	6610.0 11	3920.0 18
1910	23700.0 34	21400.0 35	18900.0 29	14100.0 27	5790.0 34	6350.0 46	4860.0 47	4530.0 48	4410.0 35	2730.0 38
1911	13100.0 54	12100.0 53	9080.0 59	6050.0 59	4030.0 59	2540.0 64	2060.0 64	2130.0 63	1720.0 63	1250.0 62
1912	54100.0 5	51000.0 4	38900.0 6	25700.0 7	17200.0 7	10900.0 13	8160.0 18	6590.0 23	4810.0 29	3310.0 28
1913	21400.0 38	19500.0 35	17100.0 36	14400.0 26	10000.0 31	6790.0 41	6390.0 32	5350.0 35	3830.0 46	2340.0 52
1914	16500.0 45	14400.0 48	10600.0 51	8660.0 51	6450.0 53	4390.0 56	3460.0 56	3030.0 56	2420.0 57	1680.0 60
1915	32400.0 20	29100.0 19	22800.0 19	16700.0 18	12200.0 17	11200.0 11	9120.0 13	9390.0 6	8500.0 4	5460.0 4
1916	29300.0 32	22100.0 32	17800.0 33	12900.0 26	10000.0 32	8730.0 21	8500.0 16	7840.0 15	6410.0 13	4440.0 13
1917	52600.0 7	45100.0 11	30800.0 13	19000.0 13	12400.0 15	8260.0 27	7460.0 21	7030.0 19	5360.0 24	3070.0 34
1918	26700.0 28	25300.0 26	22400.0 20	16300.0 19	12000.0 20	8300.0 26	6670.0 29	5970.0 29	5030.0 28	3190.0 29
1919	20700.0 21	25800.0 23	18900.0 30	16100.0 22	12400.0 16	11100.0 12	9160.0 12	6590.0 11	6590.0 12	4340.0 14
1920	14400.0 51	13300.0 52	12200.0 47	10500.0 47	8470.0 44	7340.0 33	6820.0 28	5860.0 31	4750.0 31	3430.0 25
1921	16300.0 46	14500.0 47	11000.0 50	7970.0 53	6270.0 54	5400.0 52	4600.0 51	4320.0 49	3560.0 52	2830.0 37
1922	19000.0 42	17000.0 44	11200.0 49	9070.0 49	7850.0 46	7080.0 36	5710.0 40	4860.0 43	3730.0 49	2560.0 47
1923	15700.0 48	15200.0 45	13900.0 44	10600.0 46	6810.0 52	4320.0 57	3350.0 57	2800.0 58	2150.0 59	1550.0 61
1924	24500.0 33	22000.0 34	19500.0 27	13400.0 23	9360.0 39	6550.0 43	5580.0 43	4780.0 44	4740.0 32	3190.0 30
1925	12200.0 57	11000.0 57	8290.0 60	6040.0 60	4010.0 61	2610.0 63	2230.0 63	2350.0 61	2150.0 60	1740.0 55
1926	9450.0 61	8640.0 62	7110.0 61	5150.0 61	3620.0 63	3030.0 61	2710.0 60	2420.0 60	2040.0 61	1890.0 56
1927	11500.0 50	10700.0 60	9220.0 57	8960.0 50	7690.0 48	6380.0 45	5700.0 41	5240.0 37	4320.0 37	3170.0 32
1928	24500.0 22	23600.0 29	17600.0 34	12000.0 40	8800.0 41	6160.0 47	4810.0 48	4100.0 52	3740.0 47	3180.0 31
1929	59600.0 3	54900.0 3	43200.0 2	29900.0 4	19700.0 6	14400.0 5	11300.0 6	5190.0 7	7570.0 8	5210.0 6
1930	11200.0 58	11400.0 56	9220.0 58	6060.0 58	4030.0 60	3260.0 58	3020.0 58	2880.0 57	2670.0 56	1770.0 58
1931	3020.0 69	2650.0 69	2460.0 69	1590.0 69	1300.0 69	1080.0 69	1080.0 69	1020.0 69	885.0 68	795.0 68
1932	14500.0 44	17500.0 41	14800.0 42	12000.0 41	8720.0 43	6930.0 38	6130.0 36	5870.0 30	5290.0 25	3900.0 19
1933	57200.0 4	49700.0 5	33200.0 10	20300.0 11	12000.0 21	8570.0 22	6430.0 31	5330.0 36	4200.0 39	2610.0 42
1934	3440.0 63	6870.0 63	4970.0 64	3210.0 67	2020.0 67	1340.0 68	1190.0 68	1060.0 68	880.0 69	669.0 69
1935	25300.0 30	23600.0 30	17600.0 35	12400.0 38	9550.0 38	6820.0 39	5490.0 44	4640.0 47	4160.0 40	2570.0 45
1936	22700.0 36	22100.0 33	18500.0 31	17700.0 15	13100.0 14	8140.0 28	6150.0 35	5030.0 41	3650.0 51	2560.0 46
1937	36300.0 16	35100.0 16	29000.0 14	18000.0 14	11900.0 22	8390.0 24	7010.0 26	7100.0 18	5550.0 22	3340.0 27
1938	12300.0 55	11600.0 55	9670.0 54	7100.0 56	5920.0 56	5500.0 51	4640.0 50	4240.0 51	3980.0 44	2720.0 39
1939	13400.0 43	17500.0 42	14800.0 43	11500.0 43	8410.0 45	5810.0 49	4500.0 52	3770.0 55	3290.0 54	2340.0 53
1940	5150.0 66	4970.0 66	4360.0 66	3350.0 65	2640.0 65	2410.0 65	1940.0 65	1670.0 66	1650.0 65	1140.0 66



STATION NUMBER 05464500

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

CEDAR RIVER AT CEDAR RAPIDS, IOWA

YEAR	1	3	7	15	30	60	90	120	182	ANNUAL
1941	12200.0 56	10800.0 58	10100.0 53	8080.0 52	7560.0 49	6530.0 44	5410.0 46	5160.0 38	4100.0 41	3010.0 36
1942	32900.0 17	28400.0 20	21400.0 24	13400.0 34	9790.0 35	8820.0 20	7800.0 20	6940.0 20	6290.0 15	5210.0 7
1943	15400.0 49	14100.0 50	11800.0 48	10900.0 45	9220.0 40	7220.0 34	6030.0 38	5550.0 34	4770.0 30	3640.0 22
1944	23400.0 25	26700.0 21	21500.0 22	15400.0 24	11800.0 23	10100.0 16	8520.0 15	7660.0 16	6050.0 16	3670.0 20
1945	49600.0 13	44100.0 12	31700.0 12	21000.0 10	14300.0 11	11500.0 10	11400.0 5	10200.0 5	8160.0 5	4680.0 12
1946	26000.0 29	23800.0 28	18800.0 32	15300.0 25	11500.0 27	7850.0 30	7280.0 23	6160.0 27	5240.0 27	3570.0 24
1947	53300.0 7	49600.0 6	37500.0 7	28600.0 5	23400.0 4	16400.0 3	13200.0 3	11700.0 3	8780.0 3	5430.0 5
1948	32500.0 18	31700.0 17	24600.0 16	16300.0 20	13900.0 13	8890.0 19	7280.0 24	5970.0 28	4360.0 36	2690.0 40
1949	28500.0 23	26300.0 22	21600.0 21	13600.0 31	11700.0 25	8350.0 25	6220.0 34	5090.0 39	3910.0 45	2370.0 51
1950	32400.0 19	29400.0 18	23100.0 18	13700.0 30	11800.0 24	7600.0 32	6510.0 30	6240.0 25	4630.0 33	2660.0 41
1951	53700.0 6	49400.0 7	39600.0 5	32000.0 3	24700.0 2	18400.0 1	14800.0 1	13900.0 2	11200.0 1	6350.0 2
1952	26600.0 27	24700.0 27	19300.0 28	14000.0 28	12100.0 18	9590.0 18	7870.0 19	6940.0 21	5800.0 19	4020.0 17
1953	14400.0 52	13400.0 51	10500.0 52	7140.0 57	5030.0 57	4450.0 55	4180.0 54	4020.0 53	4010.0 42	2450.0 49
1954	40000.0 15	35500.0 15	25600.0 15	16100.0 21	10000.0 33	6560.0 42	5490.0 45	4680.0 46	3700.0 50	2210.0 54
1955	6560.0 64	6240.0 64	5150.0 63	4120.0 63	3750.0 62	3170.0 59	2970.0 59	2720.0 59	2260.0 58	1830.0 57
1956	5220.0 65	4930.0 65	4470.0 65	3560.0 64	2490.0 66	2160.0 66	1820.0 66	1550.0 67	1380.0 67	931.0 67
1957	7370.0 62	6910.0 61	6980.0 62	4670.0 62	4450.0 58	3100.0 60	2510.0 61	2140.0 62	1760.0 62	1180.0 65
1958	4560.0 67	4120.0 67	3590.0 67	2870.0 68	2010.0 68	1930.0 67	1700.0 67	1710.0 65	1650.0 66	1150.0 64
1959	25500.0 31	23100.0 31	20000.0 25	17100.0 17	11400.0 28	7050.0 37	6110.0 37	5560.0 33	4420.0 34	2590.0 43
1960	52300.0 8	46500.0 9	32900.0 11	19700.0 12	14000.0 12	12200.0 8	9770.0 10	8200.0 12	6330.0 14	4310.0 15
1961	71500.0 1	61100.0 2	40000.0 4	24000.0 8	16500.0 9	11900.0 9	9370.0 11	7850.0 14	5870.0 17	3640.0 21
1962	46800.0 14	43000.0 13	34000.0 8	26200.0 6	20400.0 5	13600.0 6	10600.0 7	8950.0 9	7380.0 9	5050.0 8
1963	14700.0 50	14500.0 49	12800.0 45	11100.0 44	7780.0 47	6120.0 48	5620.0 42	4950.0 42	4270.0 38	3020.0 35
1964	3640.0 66	3500.0 63	3290.0 63	3240.0 66	2950.0 64	2660.0 62	2320.0 62	1920.0 64	1700.0 64	1240.0 63
1965	66100.0 2	63100.0 1	53600.0 1	39400.0 1	24500.0 3	15700.0 4	12000.0 4	10200.0 4	7720.0 7	4910.0 10
1966	28500.0 24	25500.0 24	19700.0 26	13900.0 29	9720.0 36	6800.0 40	6260.0 33	6290.0 24	5850.0 18	4950.0 9
1967	15300.0 47	14800.0 46	12600.0 46	9910.0 48	7340.0 51	4720.0 54	4000.0 55	4000.0 54	3240.0 55	2150.0 55
1968	21500.0 37	18400.0 39	16500.0 39	12400.0 35	11000.0 29	7720.0 31	6020.0 35	5080.0 40	3980.0 43	2440.0 50
1969	52400.0 11	48200.0 8	41000.0 3	38700.0 2	28400.0 1	17800.0 2	14000.0 2	14000.0 1	11200.0 2	6550.0 1
1970	13300.0 53	12000.0 54	9250.0 56	7830.0 54	7420.0 50	5590.0 50	4910.0 49	4770.0 45	3730.0 48	2570.0 44
1971	27200.0 26	25400.0 25	21400.0 23	17600.0 16	16900.0 8	12900.0 7	10000.0 8	9050.0 8	7030.0 10	4770.0 11



STATION NUMBER 05464500

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

CEDAR RIVER AT CEDAR RAPIDS, IOWA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	CFS_DAYS
YEAR	NUMBER OF DAYS IN CLASS																																			
1903								12	10	6	28	7		21		9	16	30	71	24	27	34	23	26	4	5	1	1	1		1	2	1		2034905.0	
1904								6	24	58	42	30	13	13	32	29	13	36	26	18	12	5	5	3												924811.0
1905																																				1141263.0
1906																																				1321732.0
1907																																				1485430.0
1908																																				1251220.0
1909																																				1431230.0
1910																																				956870.0
1911																																				455650.0
1912																																				1212030.0
1913																																				855215.0
1914																																				613500.0
1915																																				1992990.0
1916																																				1624150.0
1917																																				1119130.0
1918																																				1164195.0
1919																																				1563480.0
1920																																				1255430.0
1921																																				1033630.0
1922																																				934720.0
1923																																				567529.0
1924																																				1167730.0
1925																																				635969.0
1926																																				690322.0
1927																																				1155456.0
1928																																				1162249.0
1929																																				1903350.0
1930																																				647079.0
1931																																				290218.0
1932																																				1428563.0
1933																																				953781.0
1934																																				251642.0
1935																																				536275.0
1936																																				936765.0
1937																																				1219216.0
1938																																				992147.0
1939																																				854533.0
1940																																				418166.0



STATION NUMBER 05464500

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

CEDAR RIVER AT CEDAR RAPIDS, IOWA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	CFS_DAYS			
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS				
1941								7	21	10	28	39	43	32	27	33	16	23	20	15	12	16	11	10	1												1100374.0		
1942													4	8	21	40	36	57	75	43	19	17	9	15	9	6	2	1	1	2							1901810.0		
1943											1	2	42	36	30	52	79	35	22	17	14	11	9	11	3	1											1326860.0		
1944								1	15	27	8	29	29	50	26	16	12	10	27	30	25	17	11	10	7	4	3	5	1	2	1						1341674.0		
1945								50	18	2	30	26	27	19	24	12	5	13	16	13	24	21	14	21	13	3	7	3		1	1	1	1				1708774.0		
1946								1	4	21	25	37	43	44	34	35	18	22	13	12	10	13	3	7	3	5	5	2	3								1302476.0		
1947								1		7	18	27	41	40	26	20	16	42	22	13	16	17	3	10	9	7	10	3	3	3	3	3	1	2			1980577.0		
1948								14	47	35	22	45	27	43	22	17	12	10	22	15	9	3	5	2	3	1	1	3	2	1	5						982937.0		
1949						1	17	22	46	48	27	38	21	31	19	11	13	8	17	12	7	3	3	3	6	2	3	2	1	3	1						864670.0		
1950	4	4	16	19	25	50	35	16	12	6	16	13	11	10	24	16	17	20	8	9	11	6	3	4	1		2	3	2							969582.0			
1951																																						2318552.0	
1952																																						1471453.0	
1953																																						853299.0	
1954																																							806706.0
1955																																							667821.0
1956																																							340650.0
1957																																							429318.0
1958																																							436094.0
1959																																							944872.0
1960																																							1577840.0
1961																																							1327381.0
1962																																							1844460.0
1963																																							1101485.0
1964																																							454256.0
1965																																							1751319.0
1966																																							1805430.0
1967																																							786259.0
1968																																							892082.0
1969																																							2537114.0
1970																																							939100.0
1971																																							1740594.0



DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

CEDAR RIVER AT CEDAR RAPIDS, ICWA

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	25202	100.0	9	850.00	1607	20349	80.7	18	4100.0	1341	5564	22.1	27	20000	78	265	1.0
1	212.00	5	25202	100.0	10	1000.00	1931	18742	74.4	19	4900.0	961	4223	16.8	28	23000	74	187	.7
2	250.00	77	25197	100.0	11	1200.00	1537	16811	66.7	20	5800.0	776	3262	12.9	29	28000	41	113	.4
3	300.00	271	25120	99.7	12	1400.00	2076	15274	60.6	21	6900.0	683	2486	9.9	30	33000	26	72	.2
4	360.00	342	24847	98.6	13	1700.00	1628	13198	52.4	22	8200.0	533	1803	7.2	31	39000	17	46	.1
5	430.00	535	24507	97.2	14	2000.00	1571	11570	45.9	23	9700.0	448	1270	5.0	32	47000	21	29	.1
6	510.00	832	23922	94.9	15	2400.00	1672	9959	39.7	24	12000.0	213	822	3.3	33	56000	6	8	.0
7	600.00	1339	23090	91.6	16	2900.00	1261	8327	33.0	25	14000.0	149	609	2.4	34	66000	2	2	.0
8	720.00	1332	21731	86.2	17	3400.00	1502	7066	28.0	26	16000.0	195	460	1.8					



STATION NUMBER 05464640

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

PRAIRIE CREEK AT FAIRFAX, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1968	10.00 1	11.30 2	12.30 2	12.60 1	18.10 1	20.30 1	26.10 2	27.50 1	42.40 1	51.30 1
1969	10.00 2	10.30 1	11.30 1	14.20 2	21.60 3	22.80 2	25.10 1	29.00 2	42.90 2	103.00 2
1970	18.00 4	18.70 4	20.30 4	21.70 4	22.20 4	26.70 3	35.90 3	44.80 3	52.70 3	222.00 4
1971	14.00 3	14.00 3	14.90 3	15.00 3	20.00 2	34.00 4	45.60 4	73.50 4	96.10 4	154.00 3



STATION NUMBER 05464640

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

PRAIRIE CREEK AT FAIRFAX, IOWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1967	876.0 5	485.0 5	301.0 5	188.0 5	114.0 5	80.7 5	83.9 5	73.7 5	63.2 5	39.9 5
1968	2480.0 3	1560.0 4	805.0 4	422.0 4	231.0 4	144.0 4	108.0 4	112.0 4	94.6 4	74.0 4
1969	3130.0 2	2500.0 1	1390.0 1	1040.0 1	890.0 1	696.0 1	519.0 1	479.0 1	408.0 1	229.0 1
1970	4300.0 1	2080.0 2	1180.0 2	729.0 2	493.0 2	296.0 2	283.0 2	260.0 2	191.0 2	123.0 2
1971	2300.0 4	1570.0 3	817.0 3	686.0 3	459.0 3	274.0 3	215.0 3	189.0 3	160.0 3	111.0 3



STATION NUMBER 05464640

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

PRAIRIE CREEK AT FAIRFAX, IOWA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	
YEAR	NUMBER OF DAYS IN CLASS																																	CFS_DAYS		
1967	6	11	26	11	17	39	16	44	37	36	23	23	13	16	13	7	10	5	2	3	1	2	2			1	1									14555.6
1968						1	3	3	21	48	64	39	43	35	30	26	12	12	9	6	6	2	2	2							1	1				27095.0
1969						6	2	7	14	52	30	16	16	15	8	18	14	21	23	21	21	12	24	8	8	7	6	2	4	2	5		2	1		83586.0
1970							7	11	20	37	16	34	27	34	33	34	29	29	11	10	11	5	4	3	3	1	1		1	1		2		1		44807.0
1971		1	7	12	26		3	4	4	6	20	21	41	35	47	27	29	23	14	13	8	3	2	4	2	1	2	1	2	1	1	1				40552.9

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	1826	100.0	9	19.00	96	1563	85.6	18	120.0	90	386	21.1	27	750	10	39	2.1
1	3.70	6	1826	100.0	10	23.00	179	1467	80.3	19	150.0	59	296	16.2	28	920	3	29	1.5
2	4.50	11	1820	99.7	11	29.00	153	1288	70.5	20	180.0	50	237	13.0	29	1100	7	26	1.4
3	5.60	27	1309	99.1	12	35.00	133	1135	62.2	21	220.0	49	187	10.2	30	1400	4	19	1.0
4	6.80	18	1782	97.6	13	43.00	140	1002	54.9	22	270.0	23	138	7.6	31	1700	7	15	.8
5	8.40	29	1764	96.6	14	53.00	139	862	47.2	23	330.0	34	115	6.3	32	2100	4	8	.4
6	10.00	72	1735	95.0	15	65.00	131	723	39.6	24	410.0	19	81	4.4	33	2600	2	4	.2
7	13.00	31	1663	91.1	16	79.00	112	592	32.4	25	500.0	13	62	3.4	34	3100	2	2	.1
8	15.00	69	1632	89.4	17	97.00	94	480	26.3	26	610.0	10	49	2.7					



STATION NUMBER 05465000

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

CEDAR RIVER NEAR CONESVILLE, IOWA

YEAR	1		3		7		14		30		60		90		120		183		ANNUAL	
1941	630.00	12	630.00	12	641.00	10	662.00	9	873.00	13	1060.00	15	1110.00	12	1390.00	15	1600.00	15	2340.00	5
1942	1010.00	23	1020.00	21	1030.00	20	1050.00	20	1110.00	20	1630.00	23	2630.00	25	3190.00	29	3900.00	30	4900.00	20
1943	1430.00	30	1500.00	30	1700.00	30	1980.00	31	2150.00	31	2720.00	30	2820.00	29	3030.00	25	3680.00	28	5700.00	25
1944	750.00	16	817.00	17	957.00	19	971.00	17	1020.00	17	1250.00	17	1410.00	18	1510.00	16	1510.00	18	3760.00	16
1945	940.00	20	943.00	19	951.00	18	961.00	16	982.00	16	1030.00	14	1140.00	13	1250.00	13	1500.00	14	5350.00	22
1946	840.00	18	1010.00	20	1140.00	22	1150.00	21	1330.00	22	1560.00	22	1600.00	22	1770.00	21	2670.00	22	6210.00	27
1947	1060.00	24	1160.00	24	1180.00	24	1230.00	23	1470.00	24	1790.00	24	2250.00	23	2710.00	23	2860.00	23	3470.00	13
1948	770.00	17	770.00	15	776.00	15	784.00	13	814.00	10	1020.00	12	1210.00	15	1320.00	14	1410.00	12	7010.00	28
1949	540.00	11	573.00	10	637.00	9	731.00	10	840.00	11	889.00	9	921.00	9	929.00	8	1110.00	9	2860.00	10
1950	450.00	8	497.00	7	587.00	8	621.00	8	670.00	7	702.00	6	712.00	5	751.00	5	923.00	5	2720.00	9
1951	400.00	4	467.00	4	510.00	5	536.00	5	559.00	4	592.00	4	632.00	4	720.00	4	967.00	6	3400.00	12
1952	1200.00	25	1270.00	25	1570.00	29	1840.00	29	1890.00	28	2630.00	29	3360.00	31	3350.00	30	3900.00	29	8090.00	31
1953	650.00	13	680.00	13	760.00	14	867.00	15	915.00	15	959.00	11	1040.00	11	1050.00	10	1240.00	11	3640.00	15
1954	450.00	9	490.00	6	501.00	4	515.00	4	565.00	5	644.00	5	752.00	6	764.00	6	835.00	4	2430.00	6
1955	900.00	19	907.00	18	926.00	17	996.00	19	1040.00	18	1320.00	15	1450.00	20	1780.00	22	2450.00	20	3630.00	14
1956	250.00	1	310.00	1	354.00	1	384.00	1	412.00	1	421.00	1	443.00	1	444.00	1	552.00	1	1440.00	2
1957	370.00	2	380.00	2	386.00	2	420.00	2	461.00	3	504.00	3	544.00	2	562.00	2	693.00	2	1210.00	1
1958	430.00	6	500.00	8	560.00	6	596.00	7	732.00	8	831.00	8	882.00	7	933.00	9	990.00	7	1640.00	3
1959	400.00	3	400.00	3	406.00	3	428.00	3	437.00	2	477.00	2	554.00	3	612.00	3	786.00	3	2250.00	4
1960	1360.00	27	1380.00	27	1430.00	27	1580.00	28	1930.00	29	2340.00	27	2640.00	26	2790.00	24	3000.00	24	4150.00	18
1961	700.00	14	700.00	14	710.00	13	749.00	11	860.00	12	1000.00	12	1240.00	16	1630.00	19	1770.00	16	5630.00	24
1962	1360.00	28	1410.00	28	1420.00	26	1440.00	25	1770.00	26	2090.00	25	2350.00	24	3140.00	28	3610.00	27	5410.00	23
1963	1000.00	21	1100.00	22	1100.00	21	1150.00	22	1230.00	21	1290.00	18	1380.00	17	1610.00	18	2580.00	21	5800.00	26
1964	450.00	7	517.00	9	573.00	7	592.00	6	638.00	6	797.00	7	888.00	8	926.00	7	1060.00	8	2520.00	8
1965	410.00	5	480.00	5	674.00	12	751.00	12	806.00	9	898.00	10	964.00	10	1090.00	11	1150.00	10	2460.00	7
1966	1330.00	29	1420.00	29	1490.00	28	1530.00	27	1800.00	27	2830.00	31	3270.00	30	4140.00	31	6060.00	31	7850.00	30
1967	540.00	10	613.00	11	663.00	11	797.00	14	888.00	14	1070.00	16	1190.00	14	1250.00	12	1460.00	13	3870.00	17
1968	740.00	15	793.00	16	916.00	16	994.00	18	1030.00	19	1350.00	20	1440.00	15	1530.00	17	1500.00	17	2970.00	11
1969	1500.00	31	1540.00	31	1830.00	31	1970.00	30	2100.00	30	2540.00	29	2690.00	28	3050.00	27	3590.00	26	4720.00	19
1970	1000.00	22	1100.00	23	1160.00	23	1240.00	24	1350.00	23	1410.00	21	1540.00	21	1760.00	20	2070.00	19	7650.00	29
1971	1250.00	26	1310.00	26	1410.00	25	1490.00	26	1670.00	25	2260.00	26	2650.00	27	3040.00	26	3460.00	25	5300.00	21



## STATION NUMBER 05465000

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## CEDAR RIVER NEAR CONESVILLE, IOWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1940	5380.0 31	4900.0 31	4200.0 32	3440.0 32	3290.0 30	2720.0 30	2210.0 31	1980.0 31	1930.0 31	1400.0 30
1941	13000.0 26	12100.0 26	11200.0 25	9500.0 25	8750.0 25	7680.0 22	6330.0 24	6200.0 20	4910.0 22	3570.0 19
1942	30600.0 13	28700.0 12	22500.0 16	15000.0 18	11000.0 20	9990.0 14	8840.0 14	7940.0 13	7140.0 11	6160.0 5
1943	17100.0 24	15800.0 23	14200.0 23	13100.0 21	11600.0 18	9350.0 16	8130.0 17	7560.0 17	6370.0 15	4830.0 13
1944	34900.0 11	27500.0 13	24600.0 11	20500.0 11	14900.0 12	13300.0 9	11400.0 8	10300.0 8	8070.0 8	4850.0 12
1945	43000.0 7	43000.0 7	32000.0 8	22700.0 8	15800.0 10	12800.0 10	13000.0 7	11600.0 6	9190.0 6	5350.0 10
1946	29000.0 14	26700.0 15	23600.0 13	17000.0 13	13100.0 14	9120.0 17	8940.0 13	7580.0 15	6520.0 14	4370.0 15
1947	55500.0 4	50600.0 4	38900.0 3	31600.0 3	26000.0 3	18500.0 3	15400.0 3	13900.0 3	10600.0 3	6540.0 4
1948	39200.0 9	34900.0 9	30800.0 9	21600.0 9	17900.0 8	11500.0 12	9330.0 12	7660.0 14	5630.0 17	3430.0 20
1949	24700.0 15	27000.0 14	23400.0 14	15600.0 16	12800.0 15	9590.0 15	7300.0 15	5960.0 21	4750.0 23	2930.0 25
1950	31200.0 12	28800.0 11	23900.0 12	15300.0 17	12400.0 16	8580.0 19	7390.0 18	7230.0 18	5610.0 18	3380.0 21
1951	54100.0 6	49000.0 6	37800.0 6	31600.0 4	24700.0 4	19000.0 2	15800.0 2	14800.0 2	12100.0 2	6970.0 2
1952	23000.0 19	22000.0 19	18900.0 19	14800.0 19	14500.0 13	11600.0 11	9550.0 11	8470.0 11	7100.0 12	4920.0 11
1953	20600.0 21	15100.0 25	10900.0 26	7400.0 26	6410.0 26	5820.0 26	5520.0 26	5250.0 26	5030.0 20	3210.0 23
1954	35700.0 10	32800.0 10	25000.0 10	16500.0 14	10800.0 21	7630.0 23	6530.0 22	5550.0 24	4430.0 25	2650.0 26
1955	9700.0 27	3490.0 28	7570.0 27	6300.0 27	5540.0 27	4510.0 27	4410.0 27	3930.0 27	3170.0 27	2510.0 27
1956	5220.0 32	4810.0 32	4670.0 30	3760.0 31	2710.0 31	2580.0 31	2170.0 32	1920.0 32	1710.0 32	1180.0 32
1957	9700.0 28	9200.0 27	7460.0 28	5190.0 28	5080.0 28	3670.0 28	2950.0 28	2570.0 29	2090.0 30	1400.0 31
1958	7330.0 29	6130.0 29	4970.0 29	3860.0 29	2700.0 32	2560.0 32	2280.0 30	2220.0 30	2170.0 28	1570.0 29
1959	25100.0 16	25000.0 16	23100.0 15	21100.0 10	15000.0 11	10000.0 13	8400.0 15	7560.0 16	6100.0 16	3580.0 17
1960	56400.0 3	50100.0 5	38400.0 5	25700.0 6	18500.0 6	15700.0 6	13100.0 6	11100.0 7	8480.0 7	5720.0 9
1961	65000.0 2	55100.0 2	38300.0 4	24500.0 7	18200.0 7	13500.0 8	10700.0 10	9150.0 10	7030.0 13	4510.0 14
1962	40400.0 8	42900.0 8	35400.0 7	29400.0 5	24400.0 5	17100.0 5	13900.0 5	11700.0 5	9560.0 4	6880.0 3
1963	15500.0 25	15200.0 24	14300.0 22	12100.0 23	5170.0 24	6860.0 24	6370.0 23	5750.0 22	4990.0 21	3580.0 18
1964	6260.0 30	5080.0 30	4200.0 31	3770.0 30	3430.0 29	3140.0 29	2940.0 29	2590.0 28	2160.0 29	1610.0 28
1965	66700.0 1	63700.0 1	54700.0 1	41100.0 2	27300.0 2	18300.0 4	14400.0 4	12100.0 4	9290.0 5	6040.0 7
1966	25900.0 17	24500.0 17	20500.0 17	15900.0 15	11200.0 19	8640.0 18	8150.0 16	8040.0 12	7430.0 10	6150.0 6
1967	22700.0 20	16500.0 22	14100.0 24	12900.0 22	9790.0 23	6310.0 25	5570.0 25	5370.0 25	4370.0 26	2930.0 24
1968	20100.0 22	19100.0 20	17700.0 20	13700.0 20	11700.0 17	8400.0 20	6650.0 21	5720.0 23	4680.0 24	3290.0 22
1969	54400.0 5	53000.0 3	46900.0 2	44600.0 1	34100.0 1	22200.0 1	17400.0 1	17000.0 1	13800.0 1	8670.0 1
1970	19500.0 23	18500.0 21	14500.0 21	11600.0 24	10300.0 22	7740.0 21	6720.0 20	6720.0 19	5340.0 19	3710.0 16
1971	24400.0 18	23400.0 18	20500.0 18	17800.0 12	17100.0 9	13800.0 7	10800.0 9	9830.0 9	7860.0 9	5480.0 9



STATION NUMBER 05465000

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

CEDAR RIVER NEAR CONESVILLE, ICWA

CLASS	NUMBER OF DAYS IN CLASS																																		CFS_DAYS																				
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33		34																			
YEAR																																			511001.0																				
1940	17	24	8	9	28	56	51	15	32	20	14	13	26	24	13	8	7	1																		1304190.0																			
1941																		15	55	32	38	24	36	21	17	22	21	17	20	19	15	11	2											2249330.0											
1942																						4	1	12	26	43	39	57	66	37	21	17	15	8	9	5	2	1	2											1763870.0					
1943																								2	4	32	38	29	48	66	41	25	24	21	9	8	9	8	1											1776190.0					
1944																				2	6	24	23	19	56	39	25	9	13	7	22	18	32	19	13	12	5	6	3	9	1	2	1								1968775.0				
1945																		5	41	27	40	21	24	29	13	12	7	10	18	18	20	18	22	14	9	7	5	1	1	1	1	1											1594640.0		
1946																		1	2	40	28	38	26	51	29	24	27	16	14	12	12	10	11	8	3	3	5	4	1											2385940.0					
1947																				1	9	24	36	33	35	20	21	21	35	21	20	13	12	5	11	15	14	6	3	2	4	2	1	1								1254651.0			
1948																				25	42	20	62	18	49	22	20	11	14	20	13	18	4	1	5	4	1	3	2	3	2	3	3	1								1067745.0			
1949																				4	6	35	42	33	55	19	24	23	24	12	13	8	23	9	8	3	5	4	4	3	3	1	3	1								1235082.0			
1950																		1	3	23	64	24	6	24	13	14	8	33	24	15	24	18	20	9	10	10	3	5	4	1	1	2	2											2545205.0	
1951																		1			35	36	7	24	12	21	3	2					5	14	25	27	18	28	10	8	16	10	16	17	12	8	4	2	2	2					1801870.0
1952																				1	10	11	10	30	22	17	19	45	49	44	37	14	8	8	17	9	9	2	4											1171145.0					
1953																				1	13	56	27	34	14	12	5	12	15	30	42	42	29	14	10	4	1	2	1	1											966222.0				
1954																		1	22	15	45	53	25	36	15	14	19	25	11	14	12	12	11	6	14	5	2	2			1	1	2			2								517471.0	
1955																		6	15	11	9	18	17	39	21	35	32	25	27	34	31	18	11	6	5	5											430425.0								
1956	1	1	19	55	16	37	45	36	25	23	26	23	17	16	8	7	7	3	1											510968.0																									
1957																		11	16	43	54	8	26	45	60	17	23	13	13	10	9	2	4	2	2	3	4											573421.0							
1958																				1	9	12	31	66	29	50	33	52	20	23	8	5	12	7	2	1											1307000.0								
1959																		7	40	17	40	17	9	3	10	17	13	14	19	18	22	33	14	18	11	13	5	4	3	3	6	7	2											2093880.0	
1960																				3	13	31	45	60	23	36	17	17	25	14	15	16	15	8	7	5	5	1	1								1646120.0								
1961																				13	10	11	39	23	21	34	43	19	22	29	16	11	5	23	15	8	7	5	5	1	1			2			1	1					2512450.0		
1962																						10	33	48	14	31	32	31	33	29	28	13	14	6	10	10	11	6	3	1	2											1305340.0			
1963																				2	55	35	30	24	39	23	40	28	17	21	17	8	9	8	4	5											585745.0								
1964																		1	6	15	22	47	54	75	26	21	13	27	20	26	11	1			1											2204352.0									
1965																		2	2	7	14	26	36	27	15	9	12	16	24	22	19	18	17	19	21	8	11	6	3	7	5	6	3	3	2	1	2	2					2246100.0		
1966																						8	6	10	14	26	9	15	35	52	46	50	34	15	15	10	13	1	3	3											1070250.0				
1967																		2	5	10	4	16	71	32	40	24	27	21	28	25	17	13	10	5	1	7	3	2	1	1											1203160.0				
1968																				2	10	4	32	25	58	42	47	43	26	18	13	6	8	7	7	5	5	3	4	1											3163430.0				
1969																				2	31	20	30	50	29	23	19	22	30	22	14	6	28	8	5	5	3	6	5	6											1352960.0				
1970																				2	14	66	16	32	66	20	26	31	33	13	8	9	6	9	7	2	5											2001932.0							
1971																				10	30	7	10	12	30	29	20	37	47	43	18	19	6	9	11	7	13	6	1											2001932.0					



STATION NUMBER 05465000

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

CEDAR RIVER NEAR CONESVILLE, IOWA

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	11628	100.0	9	960.00	485	10028	85.8	18	4400.0	719	3417	29.2	27	20000	56	242	2.0
1	250.00	1	11668	100.0	10	1100.00	965	5543	81.6	19	5200.0	603	2698	23.1	28	24000	56	146	1.2
2	300.00	18	11687	100.0	11	1400.00	619	8578	73.4	20	6200.0	466	2055	17.9	29	28000	28	90	.7
3	350.00	62	11669	99.8	12	1600.00	761	7959	68.1	21	7300.0	402	1629	13.9	30	33000	24	62	.5
4	410.00	131	11607	99.3	13	1900.00	703	7198	61.6	22	8600.0	271	1227	10.5	31	39000	18	38	.3
5	490.00	183	11476	98.2	14	2200.00	928	6495	55.6	23	10000.0	250	956	8.2	32	47000	12	20	.1
6	530.00	290	11293	96.6	15	2700.00	614	5567	47.6	24	12000.0	166	706	6.0	33	55000	5	8	.0
7	690.00	418	11003	94.1	16	3100.00	763	4953	42.4	25	14000.0	174	540	4.6	34	65000	3	3	.0
8	810.00	557	10585	90.6	17	3700.00	773	4190	35.8	26	17000.0	124	366	3.1					



## LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## IOWA RIVER AT WAPELLO, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1916	1100.0 30	1100.0 28	1200.0 27	1400.0 33	2050.0 37	3480.0 40	4480.0 41	5660.0 42	7610.0 43	10100.0 41
1917	600.0 9	600.0 7	600.0 6	600.0 6	607.0 5	628.0 3	722.0 3	979.0 7	1170.0 7	5340.0 18
1918	900.0 22	900.0 22	900.0 20	913.0 18	973.0 16	1020.0 12	1170.0 14	1280.0 14	1730.0 15	5710.0 22
1919	1500.0 37	1500.0 36	1600.0 36	1810.0 36	1930.0 34	2570.0 36	3230.0 37	3230.0 34	3620.0 30	7520.0 35
1920	620.0 14	740.0 17	876.0 18	1150.0 23	1390.0 27	2110.0 31	2530.0 32	3690.0 37	4330.0 35	8420.0 37
1921	2000.0 41	2020.0 40	2050.0 40	2130.0 40	2380.0 38	2840.0 38	2870.0 35	3110.0 32	3270.0 28	5880.0 25
1922	1400.0 34	1400.0 34	1400.0 35	1540.0 34	1810.0 32	2240.0 33	3030.0 36	3360.0 36	5080.0 37	6360.0 28
1923	600.0 10	693.0 14	896.0 19	945.0 19	1000.0 18	1070.0 16	1150.0 13	1360.0 15	1330.0 10	3470.0 9
1924	570.0 5	673.0 11	800.0 16	800.0 13	859.0 13	1470.0 22	1730.0 23	2050.0 21	2520.0 25	4180.0 12
1925	1600.0 38	1780.0 38	1800.0 38	1820.0 37	1930.0 35	2080.0 29	2410.0 30	2710.0 26	3400.0 29	6950.0 32
1926	700.0 17	767.0 18	797.0 15	901.0 16	1270.0 22	1410.0 21	1670.0 21	2380.0 26	2370.0 22	3070.0 5
1927	1090.0 26	1090.0 26	1140.0 26	1230.0 26	1800.0 31	2740.0 37	2810.0 33	3050.0 31	5770.0 40	6410.0 30
1928	1150.0 31	1150.0 31	1210.0 28	1350.0 30	1610.0 30	1660.0 25	2220.0 27	3120.0 33	3590.0 34	7870.0 34
1929	2380.0 43	2480.0 43	2570.0 43	2680.0 42	3240.0 43	4130.0 41	5730.0 42	6250.0 43	7270.0 42	9960.0 40
1930	700.0 18	700.0 15	700.0 11	700.0 10	782.0 12	1030.0 13	1190.0 15	1520.0 17	1840.0 18	6180.0 27
1931	700.0 19	700.0 16	700.0 12	736.0 12	775.0 11	1050.0 15	1110.0 12	1150.0 12	1310.0 9	3110.0 6
1932	570.0 6	570.0 5	570.0 5	579.0 4	588.0 3	751.0 6	925.0 7	1050.0 8	1540.0 14	5000.0 16
1933	1460.0 36	1460.0 35	1460.0 33	1460.0 31	1890.0 33	2110.0 30	2140.0 25	2350.0 25	3050.0 26	5440.0 20
1934	600.0 11	600.0 8	643.0 10	718.0 11	729.0 10	826.0 9	855.0 6	873.0 4	976.0 3	4120.0 11
1935	531.0 3	536.0 3	550.0 4	574.0 3	591.0 4	682.0 4	1000.0 9	1080.0 9	1100.0 5	3110.0 7
1936	1020.0 24	1040.0 24	1080.0 24	1170.0 25	1330.0 25	1820.0 26	2450.0 31	2810.0 30	2500.0 23	6160.0 26
1937	609.0 13	613.0 9	630.0 9	666.0 9	717.0 9	909.0 10	1550.0 18	2190.0 23	2520.0 24	5520.0 21
1938	840.0 21	860.0 21	934.0 21	962.0 20	971.0 14	1040.0 14	1100.0 11	1130.0 11	1450.0 13	4740.0 15
1939	1100.0 29	1130.0 29	1470.0 34	1900.0 38	2420.0 40	2550.0 35	2870.0 34	3320.0 35	3680.0 32	6370.0 25
1940	430.0 2	430.0 2	430.0 2	441.0 2	470.0 2	499.0 1	622.0 2	723.0 2	835.0 2	2650.0 4
1941	655.0 15	676.0 12	723.0 13	812.0 14	1130.0 21	1530.0 24	1710.0 22	2130.0 22	2180.0 20	3230.0 8
1942	1070.0 26	1070.0 25	1110.0 25	1150.0 24	1300.0 24	2220.0 32	3610.0 38	4320.0 38	5370.0 38	7180.0 32
1943	2000.0 42	2100.0 42	2420.0 41	2590.0 41	3070.0 41	4150.0 42	4460.0 40	4660.0 40	5480.0 39	8380.0 36
1944	960.0 23	1140.0 30	1310.0 31	1340.0 29	1460.0 28	1900.0 27	2280.0 28	2340.0 24	3090.0 27	6650.0 31
1945	1220.0 32	1230.0 32	1240.0 30	1270.0 27	1320.0 25	1400.0 20	1590.0 20	1780.0 19	2200.0 21	9350.0 38
1946	1400.0 35	1570.0 37	1640.0 37	1660.0 35	2010.0 36	2300.0 34	2310.0 29	2620.0 27	3780.0 31	9830.0 35
1947	1800.0 39	1830.0 39	1880.0 39	2040.0 39	2390.0 39	2990.0 39	3730.0 39	4340.0 39	4600.0 36	5600.0 23
1948	1030.0 25	1030.0 23	1040.0 23	1050.0 21	1110.0 19	1500.0 23	1810.0 24	1930.0 20	2030.0 19	12100.0 42
1949	760.0 20	820.0 20	959.0 22	1050.0 22	1130.0 20	1190.0 18	1220.0 16	1270.0 13	1630.0 17	4720.0 14
1950	605.0 12	678.0 13	819.0 17	913.0 17	972.0 15	1010.0 11	1050.0 10	1100.0 10	1350.0 11	4440.0 13
1951	580.0 7	593.0 6	617.0 7	641.0 7	666.0 6	765.0 7	825.0 5	933.0 5	1230.0 8	5360.0 15
1952	1900.0 40	2030.0 41	2510.0 42	3140.0 43	3220.0 42	4440.0 43	5840.0 43	5590.0 41	6560.0 41	13500.0 43
1953	1080.0 27	1100.0 27	1230.0 29	1280.0 28	1280.0 23	1330.0 19	1550.0 19	1580.0 18	1810.0 16	5880.0 24







STATION\_NUMBER 5-4655.00

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

IOWA RIVER AT WAPELLC, IOWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1915	41800.0 17	41600.0 14	38400.0 11	33100.0 8	22800.0 11	19700.0 7	15400.0 11	15900.0 7	14700.0 5	9640.0 4
1916	48300.0 12	40400.0 16	35300.0 14	25900.0 18	18100.0 20	15900.0 17	14900.0 15	13400.0 12	11200.0 10	8020.0 12
1917	48300.0 13	43300.0 12	34600.0 15	29300.0 11	20500.0 15	13700.0 23	13900.0 17	13300.0 13	10100.0 18	5680.0 20
1918	71000.0 2	69400.0 2	59100.0 3	41700.0 4	31500.0 4	21600.0 6	16200.0 7	13700.0 11	10800.0 16	6550.0 19
1919	37400.0 20	35400.0 20	34200.0 16	27200.0 15	26000.0 8	22700.0 5	19400.0 6	17900.0 5	13400.0 7	8140.0 11
1920	32200.0 27	31000.0 26	28400.0 23	25200.0 19	20400.0 16	17500.0 13	15900.0 8	13100.0 14	9850.0 19	7260.0 15
1921	31900.0 28	30500.0 28	27600.0 27	22000.0 25	12400.0 33	9600.0 34	8010.0 32	7220.0 34	6960.0 30	5360.0 24
1922	26500.0 33	23500.0 33	21200.0 33	18000.0 32	14500.0 30	14100.0 20	11500.0 24	9880.0 25	7470.0 28	5350.0 25
1923	30700.0 29	29900.0 29	27700.0 25	22100.0 24	14500.0 29	9510.0 35	7360.0 36	6260.0 37	4670.0 37	3180.0 37
1924	34700.0 25	34000.0 22	31000.0 21	23700.0 21	18100.0 21	16200.0 16	15200.0 12	12600.0 16	11200.0 11	7230.0 16
1925	12500.0 39	11400.0 39	9370.0 39	7240.0 40	5310.0 40	4480.0 40	3950.0 40	3730.0 40	3550.0 39	3000.0 38
1926	43500.0 15	39100.0 17	33100.0 17	23700.0 22	17300.0 23	10700.0 30	7780.0 35	6860.0 35	5770.0 35	4680.0 32
1927	33700.0 26	30900.0 27	27100.0 28	23200.0 23	19800.0 18	17600.0 12	15500.0 10	13800.0 9	11200.0 12	8170.0 9
1928	28800.0 31	26600.0 31	21400.0 31	15800.0 33	12800.0 32	11200.0 28	10100.0 26	8730.0 28	8130.0 25	7040.0 17
1929	71000.0 3	66500.0 3	61200.0 2	49500.0 2	35400.0 3	28500.0 3	22500.0 3	18400.0 4	15200.0 3	10600.0 2
1930	51200.0 10	47900.0 11	33100.0 18	20600.0 29	13300.0 31	9350.0 36	7870.0 34	7370.0 33	6340.0 33	3560.0 34
1931	6740.0 44	6660.0 42	5270.0 43	3280.0 44	3080.0 43	2310.0 43	2100.0 43	1990.0 43	1750.0 43	1490.0 42
1932	27800.0 32	26300.0 32	25100.0 30	20600.0 30	15700.0 27	12600.0 25	11400.0 25	10900.0 23	10900.0 15	8020.0 12
1933	60800.0 5	55700.0 6	42700.0 9	29900.0 10	19000.0 19	16600.0 14	12800.0 18	10500.0 22	8370.0 23	5180.0 27
1934	7230.0 43	6220.0 43	4820.0 44	3450.0 43	2400.0 44	1840.0 44	1820.0 44	1620.0 44	1510.0 44	1210.0 44
1935	35500.0 24	33500.0 23	27600.0 26	21300.0 27	16600.0 24	11900.0 27	9690.0 29	9870.0 26	9090.0 21	5620.0 21
1936	36000.0 22	35300.0 21	32600.0 19	28200.0 13	23300.0 10	15400.0 18	11900.0 23	9900.0 24	7140.0 29	4560.0 25
1937	53200.0 9	51300.0 8	49300.0 6	37900.0 6	27300.0 7	18700.0 10	15200.0 13	13700.0 10	11100.0 13	6650.0 18
1938	19000.0 36	15800.0 36	14900.0 35	13300.0 35	11900.0 34	10700.0 29	9040.0 30	8430.0 29	7810.0 27	5140.0 28
1939	36100.0 21	33100.0 25	28300.0 24	24500.0 20	17700.0 22	12500.0 26	9800.0 27	8090.0 30	6620.0 31	4810.0 31
1940	7780.0 41	7560.0 41	6750.0 41	5630.0 41	5290.0 41	4430.0 41	3650.0 41	3220.0 41	2980.0 41	2030.0 41
1941	16500.0 37	15800.0 37	14400.0 37	12600.0 36	11100.0 36	9660.0 33	7970.0 33	7980.0 31	6570.0 32	4680.0 32
1942	35800.0 23	33400.0 24	26500.0 29	20600.0 28	15800.0 26	14100.0 21	12300.0 21	10900.0 21	10300.0 17	9250.0 5
1943	22300.0 35	21200.0 34	20200.0 34	18700.0 31	16200.0 25	13500.0 24	12800.0 19	12500.0 17	11100.0 14	8140.0 10
1944	53400.0 8	52100.0 7	49100.0 7	38700.0 5	31100.0 5	26100.0 4	22400.0 4	19700.0 3	15100.0 4	8840.0 6
1945	53700.0 7	50100.0 9	40800.0 10	31000.0 9	22500.0 12	19100.0 9	19800.0 5	17800.0 6	13900.0 6	8170.0 7
1946	50600.0 11	48200.0 10	44800.0 8	28600.0 12	21000.0 14	14600.0 19	15100.0 14	12800.0 15	11300.0 9	7330.0 14
1947	92400.0 1	80700.0 1	64300.0 1	56400.0 1	49000.0 1	33800.0 1	28400.0 1	25300.0 1	18800.0 2	11400.0 1
1948	58500.0 6	56000.0 5	50200.0 5	36100.0 7	28800.0 6	18500.0 11	14700.0 16	12000.0 19	9090.0 22	5430.0 23
1949	43800.0 15	42100.0 13	37100.0 12	26100.0 17	21600.0 13	16400.0 15	12400.0 20	10300.0 23	8120.0 26	4840.0 30
1950	44300.0 14	41500.0 15	36500.0 13	26600.0 15	20200.0 17	13800.0 22	12000.0 22	12200.0 18	9490.0 20	5540.0 22
1951	67000.0 4	62800.0 4	53100.0 4	47000.0 3	37400.0 2	29500.0 2	25200.0 2	24000.0 2	19500.0 1	11200.0 2
1952	40800.0 18	38000.0 19	32400.0 20	28100.0 14	25000.0 9	19300.0 8	15900.0 9	14000.0 8	11900.0 8	8170.0 8



STATION\_NUMBER 5-4655.00

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

IOWA RIVER AT WAPELLO, IOWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1953	30300.0 30	27600.0 30	21200.0 32	14600.0 34	11900.0 35	10600.0 31	9790.0 28	9340.0 27	8260.0 24	5200.0 26
1954	39300.0 19	36400.0 19	28800.0 22	21400.0 26	14900.0 28	10500.0 32	8920.0 31	7590.0 32	6230.0 34	3650.0 36
1955	22500.0 34	20000.0 35	14700.0 36	11400.0 37	8610.0 37	7310.0 37	7320.0 37	6360.0 36	4950.0 36	3930.0 35
1956	7620.0 42	6210.0 44	5370.0 42	4380.0 42	3250.0 42	3180.0 42	2710.0 42	2490.0 42	2400.0 42	1650.0 42
1957	13900.0 38	13100.0 38	11400.0 38	8490.0 38	8050.0 38	6010.0 38	4900.0 39	4220.0 39	3420.0 40	2260.0 40
1958	11400.0 40	10100.0 40	8530.0 40	7240.0 39	5930.0 39	5550.0 39	5020.0 38	4660.0 38	3980.0 38	2870.0 39







STATION\_NUMBER 5-4655.00

DURATION TABLE OF DAILY DISCHARGE

IOWA RIVER AT WAPELLO, IOWA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34		
YEAR	NUMBER OF DAYS IN CLASS																																	CFS_DAYS			
1953									13	69	27	21	9	16	10	8	19	21	23	41	28	22	22	10	2	1	1	1	1							1899450.0	
1954		1	20	16	42	63	21	21	15	10	35	16	13	14	10	7	11	12	12	10	5	4	1	2	1	1	1	2							1331245.0		
1955				26	15	9	9	33	20	24	30	35	21	23	39	29	13	17	8	4	4	3	2	1												1435270.0	
1956	1	7	23	38	15	16	46	37	26	25	20	32	29	15	10	9	11	4	2																	602146.0	
1957				14	28	52	16	20	15	50	39	24	25	16	15	13	14	4	6	4	4	4	2													824484.0	
1958					13	18	38	31	40	32	22	45	14	28	18	21	13	18	9	3	2																1048062.0

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	16071	100.0	9	1200.00	635	13861	86.2	18	5500.0	848	5476	34.1	27	25000	188	476	2.9
1	300.00	1	16071	100.0	10	1400.00	1022	13226	82.3	19	6500.0	899	4628	28.8	28	30000	132	288	1.7
2	360.00	7	16070	100.0	11	1700.00	825	12204	75.9	20	7700.0	775	3729	23.2	29	36000	65	156	.9
3	420.00	51	16063	100.0	12	2000.00	774	11379	70.9	21	9100.0	731	2954	18.4	30	42000	46	91	.5
4	500.00	128	16012	99.6	13	2300.00	1246	10605	66.0	22	11000.0	525	2223	13.8	31	50000	27	45	.2
5	590.00	231	15884	98.8	14	2800.00	937	9359	58.2	23	13000.0	337	1698	10.6	32	60000	14	18	.1
6	700.00	385	15653	97.4	15	3300.00	970	8422	52.4	24	15000.0	397	1361	8.5	33	71000	3	4	.0
7	840.00	494	15268	95.0	16	3900.00	980	7452	46.4	25	18000.0	242	964	6.0	34	84000	1	1	.0
8	950.00	913	14774	91.9	17	4600.00	956	6472	40.3	26	21000.0	246	722	4.5					



STATION NUMBER 05465500

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

IOWA RIVER AT WAPELLC, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1960	1850.00 8	1940.00 8	1950.00 8	2110.00 8	2690.00 9	2820.00 8	3490.00 8	3900.00 8	4510.00 8	7470.00 6
1961	1200.00 4	1270.00 4	1320.00 4	1420.00 4	1660.00 4	1870.00 4	2140.00 4	2640.00 6	2820.00 4	10200.00 10
1962	1780.00 7	1780.00 7	1810.00 7	1880.00 7	2390.00 8	3690.00 10	3790.00 9	4430.00 10	5410.00 10	8730.00 7
1963	1400.00 5	1420.00 5	1450.00 5	1530.00 5	1730.00 5	1950.00 5	2210.00 5	2500.00 4	3980.00 7	5310.00 9
1964	650.00 1	767.00 2	941.00 1	954.00 1	1010.00 1	1160.00 1	1210.00 1	1250.00 1	1540.00 1	3520.00 1
1965	800.00 3	933.00 3	1170.00 3	1270.00 2	1400.00 3	1410.00 2	1460.00 2	1770.00 3	1870.00 2	4130.00 2
1966	2110.00 10	2140.00 10	2200.00 10	2270.00 10	2720.00 10	5530.00 12	6900.00 12	8430.00 12	10200.00 12	12600.00 12
1967	700.00 2	761.00 1	1010.00 2	1270.00 3	1300.00 2	1500.00 3	1590.00 3	1690.00 2	2140.00 3	6410.00 5
1968	1430.00 6	1460.00 6	1510.00 6	1670.00 6	1900.00 6	2250.00 6	2410.00 6	2510.00 5	3070.00 5	4470.00 3
1969	2300.00 12	2400.00 12	2520.00 12	2650.00 12	2870.00 11	3200.00 9	3900.00 10	4300.00 9	4630.00 9	6250.00 4
1970	1900.00 9	2000.00 9	2160.00 9	2190.00 9	2310.00 7	2430.00 7	2710.00 7	2980.00 7	3940.00 6	12300.00 11
1971	2200.00 11	2280.00 11	2430.00 11	2520.00 11	3050.00 12	4290.00 11	5240.00 11	5550.00 11	6290.00 11	9300.00 8



STATION NUMBER 05465500

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

IOWA RIVER AT WAPELLO, ICWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1959	36100.0 7	34800.0 6	33500.0 6	32200.0 5	25700.0 6	18800.0 7	15900.0 7	14300.0 6	11200.0 7	6460.0 9
1960	66900.0 3	65300.0 2	58800.0 3	43000.0 3	33700.0 4	28100.0 2	24200.0 2	20100.0 2	15900.0 2	10400.0 3
1961	66400.0 4	57900.0 4	43000.0 5	30200.0 6	27900.0 5	21400.0 6	17000.0 6	14300.0 7	10900.0 8	6990.0 7
1962	53100.0 5	50100.0 5	44700.0 4	41500.0 4	38000.0 3	27700.0 3	23200.0 3	19200.0 3	15900.0 3	11700.0 2
1963	24200.0 10	23400.0 10	21100.0 10	17500.0 10	15100.0 10	10500.0 10	10200.0 10	8810.0 10	7480.0 10	5290.0 10
1964	11300.0 13	10100.0 13	8370.0 13	6790.0 13	5550.0 13	5040.0 13	4930.0 13	4430.0 13	3650.0 13	2600.0 13
1965	70300.0 1	68600.0 1	63200.0 1	52300.0 2	38100.0 2	25200.0 4	20900.0 4	18400.0 4	15200.0 4	9910.0 5
1966	29800.0 9	26600.0 9	24900.0 8	20500.0 8	17900.0 8	16200.0 8	14400.0 8	13800.0 8	12500.0 5	10100.0 4
1967	21700.0 11	20500.0 11	18700.0 12	17900.0 9	14200.0 11	9030.0 12	8040.0 11	7730.0 11	6300.0 11	4240.0 12
1968	21100.0 12	20200.0 12	18800.0 11	15100.0 12	13400.0 12	9800.0 11	7500.0 12	6530.0 12	5990.0 12	4540.0 11
1969	67400.0 2	64800.0 3	59400.0 2	56500.0 1	47500.0 1	32700.0 1	26000.0 1	24300.0 1	21100.0 1	13100.0 1
1970	33600.0 8	28900.0 8	22400.0 9	17100.0 11	15700.0 9	12500.0 9	11100.0 9	11300.0 9	9270.0 9	6590.0 8
1971	36200.0 6	33700.0 7	29300.0 7	26800.0 7	24300.0 7	22000.0 5	17100.0 5	15000.0 5	12000.0 6	8550.0 6







STATION NUMBER 05470000

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

SOUTH SKUNK RIVER NEAR AMES, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1922	1.50 22	1.57 22	1.60 22	1.82 21	3.64 22	15.70 31	24.80 34	40.60 33	108.00 40	142.00 27
1923	4.00 31	4.00 31	4.57 30	6.14 31	10.20 32	11.30 26	16.90 25	28.00 28	23.90 19	100.00 18
1924	2.00 25	2.00 24	2.00 23	2.93 25	5.50 27	9.80 22	23.30 28	34.20 30	71.90 33	123.00 21
1925	7.00 38	7.00 37	7.00 36	7.00 32	9.10 30	14.20 29	17.20 26	24.60 25	41.10 25	143.00 28
1926	2.00 26	2.00 25	2.00 24	2.43 23	2.87 20	9.82 23	16.60 24	24.90 26	25.70 20	43.50 4
1927	1.00 17	1.00 17	1.29 18	1.46 18	3.08 21	5.83 19	8.02 19	15.00 20	116.00 41	127.00 22
1934	0.10 5	0.43 12	0.47 12	0.49 10	1.04 13	2.37 16	2.64 12	3.13 11	7.91 15	56.20 8
1935	0.00 1	0.00 1	0.00 1	0.01 4	0.04 3	0.21 3	2.42 9	1.93 6	5.76 12	75.30 12
1936	5.70 36	6.37 36	7.39 37	11.00 38	12.80 37	15.80 32	32.10 32	58.40 37	67.40 32	177.00 32
1937	0.18 9	0.20 9	0.24 7	0.26 7	0.34 6	0.78 8	2.72 13	4.57 15	4.50 9	63.20 9
1938	0.15 8	0.18 7	0.19 6	0.22 6	0.39 7	0.46 6	0.81 5	0.85 3	3.06 6	52.70 5
1939	2.70 27	3.00 27	3.39 27	4.57 29	11.40 34	22.90 35	24.80 31	27.50 27	45.40 29	139.00 26
1940	0.10 6	0.10 5	0.10 5	0.10 5	0.12 5	0.28 5	0.71 3	0.89 4	0.81 3	33.70 2
1941	0.36 13	0.46 13	0.62 14	0.82 15	1.92 18	10.80 24	24.20 30	31.60 29	57.20 31	73.00 11
1942	1.90 23	1.97 23	2.33 25	3.33 26	4.46 24	11.30 27	59.50 41	86.40 42	106.00 38	173.00 31
1943	20.00 43	22.00 43	25.00 44	27.40 44	33.30 44	42.50 40	55.30 40	77.90 41	129.00 43	195.00 34
1944	14.00 42	14.00 42	15.40 41	17.10 42	21.30 40	54.00 43	69.70 42	72.00 39	92.40 37	185.00 33
1945	9.00 39	9.33 39	9.71 38	10.20 37	10.60 33	12.30 28	14.90 23	18.70 22	39.80 24	303.00 44
1946	2.00 24	2.17 26	2.37 26	2.62 24	4.16 23	7.36 20	7.45 18	8.22 18	34.30 22	228.00 38
1947	4.30 33	4.73 33	5.70 34	9.96 36	19.00 39	27.50 38	38.90 36	52.00 35	51.40 30	82.10 14
1948	1.40 20	1.47 20	1.56 19	1.73 20	2.26 19	4.06 18	8.69 20	12.00 19	13.20 17	291.00 43
1949	0.30 11	0.30 10	0.34 11	0.59 12	0.69 9	1.27 9	3.25 16	3.65 12	6.48 13	104.00 20
1950	0.30 12	0.30 11	0.30 10	0.36 9	0.40 8	0.64 7	0.72 4	0.89 5	1.04 4	55.40 7
1951	0.70 15	0.70 15	0.70 15	0.74 14	1.17 14	1.50 10	2.46 10	5.00 16	13.50 18	134.00 24
1952	22.00 44	23.30 44	24.30 43	25.90 43	31.60 43	48.60 42	72.00 43	74.30 40	92.00 36	278.00 40
1953	1.00 18	1.00 18	1.09 17	1.38 17	1.69 17	2.22 14	2.85 14	2.99 10	4.89 11	88.30 17
1954	0.00 2	0.00 2	0.00 2	0.00 1	0.04 4	0.20 2	0.40 2	0.45 2	0.55 2	55.30 6
1955	4.20 32	4.57 32	4.84 31	5.12 30	10.10 31	27.40 37	27.50 35	62.40 38	108.00 35	205.00 36
1956	0.00 3	0.00 3	0.00 3	0.00 2	0.00 1	0.03 1	0.04 1	0.07 1	0.20 1	34.60 3
1957	0.00 4	0.00 4	0.00 4	0.00 3	0.00 2	0.24 4	0.93 6	5.38 17	6.48 14	12.70 1
1958	5.40 35	6.07 35	6.29 35	7.04 33	9.02 29	14.40 30	14.80 22	24.40 24	44.20 28	101.00 15
1959	1.50 21	1.50 21	1.56 20	1.58 19	1.63 16	2.03 13	2.58 11	4.30 14	9.80 16	133.00 23
1960	6.70 37	7.30 38	12.70 40	14.00 40	21.70 41	47.40 41	53.50 39	54.60 36	78.60 35	147.00 29
1961	3.60 28	3.63 28	3.71 29	3.95 28	6.63 28	10.80 25	17.40 27	23.40 23	39.20 23	242.00 39
1962	12.00 41	13.00 41	16.00 42	17.10 41	25.20 42	61.70 44	99.70 44	119.00 43	127.00 42	225.00 37
1963	3.60 29	3.63 29	3.70 28	3.87 27	5.16 25	8.88 21	11.50 21	16.80 21	29.80 21	201.00 35
1964	0.20 10	0.20 9	0.26 8	0.29 8	0.85 11	2.26 15	3.02 15	2.85 9	4.80 10	71.70 10
1965	0.60 14	0.60 14	0.60 13	0.67 13	0.81 10	1.88 12	2.34 8	2.30 8	3.30 7	81.00 13



STATION NUMBER 05470000

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

SOUTH SKUNK RIVER NEAR AMES, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1966	1.00 19	1.23 19	1.60 21	1.95 22	5.19 26	23.30 36	45.50 38	141.00 44	175.00 44	288.00 41
1967	0.13 7	0.13 6	0.26 9	0.53 11	0.97 12	1.85 11	2.18 7	2.11 7	2.67 5	82.20 15
1968	0.74 16	0.74 16	0.77 16	0.95 16	1.56 15	3.32 17	3.76 17	4.12 13	4.20 8	83.50 16
1969	3.70 30	4.00 30	5.13 32	7.35 35	11.70 35	17.90 34	32.90 33	39.90 32	41.90 26	136.00 25
1970	10.00 40	10.70 40	11.10 39	11.90 39	12.30 36	16.80 33	23.80 29	35.90 31	43.30 27	289.00 42
1971	4.50 34	4.93 34	5.64 33	7.04 34	13.60 38	32.60 39	39.90 37	47.30 34	78.10 34	165.00 30



## STATION NUMBER 05470000

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## SOUTH SKUNK RIVER NEAR AMES, ICWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1921	2910.0 14	2210.0 15	1670.0 10	981.0 14	548.0 22	295.0 30	214.0 32	187.0 32	176.0 26	157.0 15
1922	2420.0 23	1760.0 24	951.0 32	533.0 36	369.0 36	359.0 24	272.0 26	222.0 27	189.0 23	115.0 21
1923	1460.0 33	1150.0 34	941.0 33	683.0 26	429.0 31	270.0 34	203.0 33	168.0 35	116.0 36	80.7 34
1924	2440.0 21	2110.0 17	1350.0 18	826.0 20	540.0 23	422.0 16	334.0 13	321.0 13	313.0 9	202.0 10
1925	370.0 45	299.0 44	190.0 45	132.0 44	97.1 44	63.5 44	49.5 44	47.9 44	43.0 44	34.3 44
1926	2350.0 15	2200.0 16	1500.0 13	871.0 15	577.0 18	318.0 28	218.0 31	165.0 36	116.0 37	88.6 31
1927	1440.0 35	995.0 37	548.0 39	384.0 40	258.0 41	214.0 35	195.0 37	195.0 31	146.0 30	111.0 22
1933	1920.0 28	1540.0 29	987.0 31	630.0 28	379.0 35	271.0 33	197.0 36	154.0 37	111.0 39	69.0 40
1934	420.0 44	293.0 45	233.0 44	125.0 45	70.2 45	40.4 45	33.0 45	25.7 45	18.1 45	11.3 45
1935	2790.0 16	2290.0 13	1600.0 12	1200.0 11	728.0 12	433.0 13	309.0 15	282.0 17	275.0 13	156.0 16
1936	2520.0 19	2250.0 14	1640.0 11	1140.0 12	725.0 13	421.0 17	327.0 15	259.0 21	199.0 21	118.0 20
1937	2000.0 27	1600.0 26	1020.0 27	600.0 33	389.0 34	264.0 35	231.0 30	202.0 29	139.0 33	73.5 37
1938	2360.0 24	2070.0 18	1450.0 15	907.0 15	616.0 16	394.0 15	303.0 21	244.0 23	192.0 22	110.0 24
1939	2420.0 22	1810.0 21	1130.0 22	724.0 24	421.0 32	277.0 32	202.0 34	170.0 34	125.0 35	72.2 38
1940	1000.0 41	777.0 40	521.0 40	298.0 42	226.0 42	136.0 43	92.0 43	77.6 43	75.1 43	39.8 43
1941	1290.0 30	931.0 39	637.0 37	490.0 37	319.0 37	175.0 41	155.0 40	145.0 39	130.0 34	94.2 29
1942	1450.0 29	1600.0 27	997.0 29	612.0 32	461.0 28	335.0 27	297.0 23	291.0 15	266.0 14	251.0 6
1943	3100.0 10	2320.0 11	1450.0 16	623.0 21	499.0 25	373.0 21	359.0 12	328.0 11	278.0 12	194.0 11
1944	3650.0 2	4640.0 1	2980.0 2	1800.0 5	1350.0 3	992.0 3	823.0 3	688.0 3	514.0 2	296.0 3
1945	3070.0 12	2310.0 12	1490.0 14	1290.0 10	954.0 8	699.0 8	663.0 6	589.0 6	430.0 6	228.0 9
1946	1460.0 34	1080.0 35	744.0 36	613.0 31	421.0 33	314.0 29	244.0 29	203.0 28	187.0 24	106.0 26
1947	5450.0 3	3720.0 4	2560.0 5	2430.0 1	1900.0 1	1150.0 1	891.0 1	717.0 2	497.0 3	272.0 4
1948	2100.0 25	1700.0 23	1340.0 19	1010.0 13	634.0 15	425.0 15	328.0 14	256.0 22	177.0 25	95.2 28
1949	1700.0 31	1430.0 31	1110.0 23	856.0 16	563.0 20	380.0 20	269.0 27	224.0 26	162.0 29	83.2 32
1950	3000.0 13	1990.0 20	1110.0 24	654.0 27	469.0 27	372.0 22	278.0 25	313.0 14	211.0 19	109.0 25
1951	4600.0 6	3490.0 6	2220.0 8	1450.0 8	952.0 9	743.0 6	743.0 4	670.0 4	492.0 5	265.0 5
1952	1360.0 37	1080.0 36	795.0 35	628.0 29	551.0 21	395.0 18	299.0 22	267.0 20	234.0 16	144.0 18
1953	434.0 42	729.0 42	516.0 41	386.0 39	266.0 40	213.0 38	198.0 35	182.0 33	144.0 31	73.7 36
1954	5750.0 1	3690.0 5	2600.0 4	1800.0 6	1230.0 5	674.0 5	501.0 5	423.0 9	296.0 10	149.0 17
1955	1120.0 40	956.0 38	625.0 38	419.0 38	313.0 38	203.0 40	152.0 41	121.0 42	113.0 36	90.1 30
1956	278.0 46	174.0 46	104.0 46	52.5 46	27.1 46	15.9 46	12.6 46	10.5 46	10.8 46	5.6 46
1957	2550.0 17	1800.0 22	1050.0 25	592.0 34	474.0 26	359.0 25	257.0 28	197.0 30	142.0 32	75.8 35
1958	2550.0 18	1700.0 25	1250.0 21	876.0 18	649.0 14	432.0 14	313.0 18	269.0 19	212.0 18	130.0 19
1959	1400.0 36	1190.0 33	839.0 34	591.0 35	431.0 30	291.0 31	308.0 20	282.0 16	207.0 20	111.0 23
1960	5300.0 4	4070.0 2	2910.0 3	1750.0 7	1110.0 7	862.0 4	677.0 5	567.0 7	393.0 8	238.0 7
1961	1700.0 32	1300.0 32	1020.0 28	720.0 25	607.0 17	483.0 11	400.0 10	349.0 10	293.0 11	162.0 14
1962	3220.0 9	2820.0 8	2550.0 6	1810.0 4	1170.0 6	742.0 7	657.0 7	609.0 5	494.0 4	311.0 2
1963	1720.0 30	1440.0 30	1050.0 26	786.0 22	565.0 19	337.0 26	289.0 24	237.0 25	170.0 27	97.4 27



STATION NUMBER C547000C

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

SOUTH SKUNK RIVER NEAR AMES, IOWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1964	1170.0 39	773.0 41	480.0 42	313.0 41	294.0 39	230.0 37	176.0 39	140.0 40	96.0 42	50.0 42
1965	5150.0 5	3980.0 3	3160.0 1	2210.0 2	1240.0 4	762.0 5	636.0 8	543.0 8	406.0 7	237.0 8
1966	2110.0 26	1590.0 28	992.0 30	616.0 30	540.0 24	369.0 23	316.0 17	270.0 18	220.0 17	164.0 13
1967	2510.0 20	2040.0 19	1870.0 9	1390.0 9	879.0 10	464.0 12	318.0 16	240.0 24	163.0 28	83.0 33
1968	4150.0 7	2380.0 5	1400.0 17	760.0 23	444.0 29	252.0 36	177.0 38	148.0 38	103.0 41	54.4 41
1969	3670.0 8	3430.0 7	2500.0 7	1920.0 3	1530.0 2	1110.0 2	833.0 2	749.0 1	642.0 1	346.0 1
1970	462.0 43	438.0 43	305.0 43	246.0 43	187.0 43	140.0 42	142.0 42	136.0 41	107.0 40	70.4 39
1971	3130.0 11	2320.0 10	1290.0 20	881.0 17	815.0 11	534.0 10	385.0 11	325.0 12	255.0 15	165.0 12







STATION NUMBER 05470000

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

SOUTH SKUNK RIVER NEAR AMES, IOWA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34			
YEAR	NUMBER OF DAYS IN CLASS																																	CFS_DAYS				
1964									11	2	10	9	17	20	39	39	39	39	23	11	18	20	24	18	8	8	5	2	3	1							18318.0	
1965										19	20	21	47	20	19	8	4	11	5	19	30	30	25	21	14	12	5	6	5	8	7	1					86417.7	
1966								1	1	3	6	5	9	11	13	6	10	13	12	35	48	58	61	34	19	11	5	2	2								59997.0	
1967								4	1	1	7	8	18	63	71	29	28	20	29	30	8	7	6	6	4	3	6	3	3	4	5	1					30285.8	
1968										5	11	19	23	19	49	38	41	32	33	32	20	14	11	6	4	3	2	1	1	1							19911.6	
1969																	3	2	51	60	40	34	22	30	32	26	20	11	14	12	7	1					126261.0	
1970																5	11	30	42	46	44	47	54	46	26	7	7										25697.3	
1971																																						60285.2

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	135	16900	100.0	9	0.50	246	16098	95.8	18	20.0	1188	10848	64.6	27	750	235	555	3.3
1	0.01	4	16614	98.9	10	0.80	312	15952	94.4	19	30.0	1438	9660	57.5	28	1100	164	320	1.9
2	0.02	4	16610	98.9	11	1.20	338	15540	92.5	20	45.0	1509	8222	48.9	29	1700	101	156	.9
3	0.03	2	16606	98.8	12	1.80	661	15202	90.5	21	67.0	1614	6713	40.0	30	2500	43	55	.3
4	0.04	4	16604	98.8	13	2.70	557	14541	86.6	22	100.0	1490	5099	30.4	31	3800	11	12	.0
5	0.07	3	15600	98.8	14	4.00	663	13984	83.2	23	150.0	1253	3609	21.5	32	5700	1	1	
6	0.10	143	16557	98.8	15	6.00	693	13321	79.3	24	230.0	842	2356	14.0	33				
7	0.20	244	16454	97.9	16	9.00	780	12628	75.2	25	340.0	569	1514	9.0	34				
8	0.40	112	16210	96.5	17	13.00	1000	11848	70.5	26	500.0	390	945	5.6					



STATION NUMBER C5470500

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

SQUAW CREEK AT AMES, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1921	2.90 8	3.10 7	3.71 7	4.96 8	13.30 10	29.80 12	46.20 12	65.50 12	71.00 11	105.00 10
1922	4.00 9	4.00 9	5.14 10	6.93 10	13.70 11	20.50 10	24.10 10	28.00 8	54.40 8	88.40 4
1923	6.00 11	6.00 11	6.00 11	6.00 9	8.33 8	11.90 8	15.30 6	22.80 6	20.60 4	58.10 8
1924	1.00 5	1.00 5	2.43 5	3.14 5	5.10 5	8.35 5	19.60 9	29.20 9	65.10 10	90.80 5
1925	4.00 10	4.00 10	4.00 8	4.00 7	5.47 6	9.05 6	10.70 4	15.60 4	29.00 6	102.00 9
1926	0.00 1	0.00 1	0.14 1	0.79 4	1.60 4	6.03 4	10.80 5	17.20 5	17.80 3	27.90 1
1927	0.50 4	0.50 4	0.50 4	0.64 3	1.57 3	2.60 3	3.82 3	7.60 3	93.10 12	97.20 6
1957	0.13 2	0.13 2	0.15 2	0.19 2	0.21 1	0.29 1	0.41 1	0.43 1	0.52 1	57.80 3
1958	0.14 3	0.14 3	0.14 2	0.17 1	0.28 2	0.75 2	0.88 2	1.13 2	1.38 2	47.50 2
1969	2.40 6	2.63 6	3.17 6	3.99 6	7.65 7	10.50 7	18.00 7	29.70 10	31.50 7	98.00 7
1970	7.40 12	7.47 12	7.80 12	8.07 12	9.02 9	13.10 9	18.20 8	27.00 7	27.80 5	168.00 12
1971	2.50 7	3.47 8	4.64 9	7.55 11	17.90 12	25.70 11	36.40 11	48.00 11	57.50 9	136.00 11



STATION NUMBER 05470500

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

SQUAW CREEK AT AMES, IOWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1920	1720.0 9	1260.0 10	765.0 11	445.0 11	317.0 10	260.0 8	253.0 3	201.0 5	158.0 5	141.0 3
1921	1520.0 11	1300.0 8	916.0 8	591.0 7	379.0 7	204.0 10	148.0 10	134.0 10	123.0 7	104.0 5
1922	3220.0 2	1840.0 4	1070.0 5	600.0 5	386.0 6	268.0 7	211.0 6	205.0 4	168.0 4	100.0 6
1923	1110.0 12	990.0 12	541.0 12	379.0 12	258.0 12	166.0 11	128.0 12	109.0 12	76.6 12	59.9 11
1924	2130.0 6	1630.0 6	940.0 7	591.0 6	370.0 8	275.0 5	236.0 4	235.0 3	217.0 2	144.0 2
1925	470.0 14	252.0 14	126.0 14	78.4 14	57.7 14	45.0 14	35.2 14	33.0 14	30.0 14	25.2 14
1926	2400.0 3	1980.0 3	1250.0 3	337.0 2	568.0 3	292.0 3	199.0 7	150.0 8	102.0 9	68.1 10
1927	953.0 13	666.0 13	474.0 13	296.0 13	196.0 13	154.0 13	139.0 11	126.0 11	95.6 10	76.4 8
1966	2640.0 5	1670.0 5	955.0 6	569.0 8	422.0 5	288.0 4	226.0 5	194.0 6	149.0 6	95.0 7
1967	1700.0 10	1290.0 9	1130.0 4	813.0 3	518.0 4	273.0 6	185.0 8	140.0 9	93.5 11	47.2 12
1968	2050.0 7	1210.0 11	830.0 9	461.0 10	278.0 11	156.0 12	117.0 13	94.0 13	64.7 13	33.4 13
1969	2770.0 4	2310.0 1	1840.0 1	1270.0 1	805.0 1	601.0 1	474.0 1	528.0 1	386.0 1	212.0 1
1970	1810.0 8	1350.0 7	744.0 10	530.0 9	329.0 9	207.0 9	180.0 9	157.0 7	119.0 8	73.5 9
1971	3320.0 1	2260.0 2	1260.0 2	757.0 4	642.0 2	398.0 2	284.0 2	236.0 2	175.0 3	108.0 4







STATION NUMBER 05471000

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

SOUTH SKUNK RIVER BELOW SQUAW CREEK NEAR AMES, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1954	0.00 1	0.00 1	0.00 1	0.00 1	0.02 5	0.09 3	0.15 2	0.26 2	0.75 2	102.00 3
1955	8.00 16	8.00 13	8.93 13	9.77 13	23.10 15	49.40 15	68.00 15	111.00 16	199.00 16	365.00 14
1956	0.00 2	0.00 2	0.00 2	0.00 2	0.00 1	0.00 1	0.00 1	0.05 1	0.24 1	71.60 2
1957	0.00 3	0.00 3	0.00 3	0.00 3	0.00 2	0.02 2	0.53 3	2.49 6	4.71 6	16.90 1
1958	6.90 14	8.03 14	9.00 14	12.20 14	16.90 13	29.40 12	32.20 11	51.70 11	79.00 13	176.00 8
1959	0.20 8	0.20 8	0.21 8	0.26 8	0.33 7	1.06 6	1.94 7	5.04 8	16.00 6	267.00 11
1960	6.40 13	8.80 15	18.50 17	22.70 17	37.90 16	55.80 16	64.00 14	75.20 14	105.00 14	252.00 10
1961	3.80 11	3.80 11	3.83 11	4.33 11	10.20 11	17.40 10	30.00 10	40.40 10	65.00 11	434.00 15
1962	26.00 18	28.50 18	33.10 18	35.30 18	55.00 18	169.00 18	193.00 18	230.00 18	281.00 18	444.00 16
1963	3.20 10	3.20 10	3.26 9	3.52 9	5.20 9	9.28 9	13.60 9	21.50 9	37.60 9	345.00 13
1964	0.00 4	0.00 4	0.01 7	0.09 7	0.69 8	2.17 8	2.85 8	2.78 7	5.12 7	122.00 4
1965	0.00 5	0.00 5	0.00 4	0.01 6	0.02 6	0.44 5	0.88 5	0.95 4	3.34 5	151.00 6
1966	2.20 9	2.53 9	3.36 10	3.81 10	8.56 10	34.50 14	71.80 16	229.00 17	261.00 17	465.00 17
1967	0.00 6	0.00 6	0.00 5	0.00 4	0.00 3	0.38 4	0.59 4	0.58 3	0.93 3	152.00 7
1968	0.00 7	0.00 7	0.00 6	0.00 5	0.00 4	1.56 7	1.76 6	2.08 5	3.01 4	131.00 5
1969	4.70 12	5.03 12	6.69 12	5.39 12	16.70 12	27.40 11	51.50 13	62.30 12	64.90 10	226.00 9
1970	16.00 17	16.00 17	16.30 16	17.30 15	19.40 14	30.20 13	42.30 12	63.10 13	77.50 12	469.00 18
1971	7.30 15	9.33 16	14.40 15	19.70 16	39.80 17	65.00 17	87.90 17	109.00 15	159.00 15	321.00 12



STATION NUMBER 05471000

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

SOUTH SKUNK RIVER BELOW SQUAW CREEK NEAR AMES, IOWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1953	1360.0 18	1160.0 18	822.0 18	624.0 17	446.0 18	381.0 18	352.0 15	325.0 14	260.0 12	132.0 14
1954	7020.0 4	4990.0 7	3240.0 6	2500.0 5	1850.0 5	1020.0 5	883.0 5	757.0 5	525.0 6	265.0 8
1955	2330.0 17	1830.0 16	1160.0 16	791.0 16	609.0 16	393.0 17	291.0 18	232.0 18	204.0 16	173.0 11
1956	362.0 19	187.0 19	98.7 19	43.8 19	31.9 19	17.8 19	15.7 15	13.3 19	11.7 19	6.0 19
1957	5790.0 9	4140.0 8	2290.0 10	1240.0 14	950.0 12	615.0 11	454.0 13	349.0 13	249.0 15	131.0 15
1958	7400.0 2	5090.0 6	3420.0 5	2110.0 7	1380.0 8	904.0 7	645.0 8	531.0 9	409.0 8	247.0 9
1959	4270.0 11	3220.0 12	2050.0 12	1290.0 13	886.0 13	572.0 13	636.0 5	560.0 8	408.0 9	216.0 10
1960	8540.0 1	7340.0 1	5250.0 2	3080.0 4	1950.0 4	1600.0 2	1230.0 3	1030.0 3	708.0 3	412.0 3
1961	3100.0 14	2300.0 14	1380.0 13	1310.0 12	1070.0 9	878.0 8	714.0 6	640.0 6	530.0 5	298.0 5
1962	5800.0 8	5480.0 4	4920.0 3	3470.0 2	2190.0 2	1400.0 3	1240.0 2	1120.0 2	895.0 2	581.0 1
1963	3590.0 13	2870.0 13	1740.0 14	1470.0 9	1040.0 11	614.0 12	518.0 11	421.0 11	296.0 11	163.0 12
1964	2600.0 16	1510.0 17	528.0 17	579.0 18	475.0 17	395.0 15	327.0 16	261.0 16	177.0 17	51.0 17
1965	7020.0 5	6180.0 2	5290.0 1	3690.0 1	2110.0 3	1300.0 4	1100.0 4	946.0 4	665.0 4	391.0 4
1966	5520.0 10	3600.0 10	2140.0 11	1320.0 11	1050.0 10	713.0 10	591.0 10	505.0 10	399.0 10	288.0 6
1967	4070.0 12	3370.0 11	3060.0 7	2220.0 6	1430.0 7	756.0 9	516.0 12	385.0 12	259.0 13	131.0 16
1968	5910.0 7	3840.0 9	2440.0 9	1350.0 10	757.0 14	435.0 14	309.0 17	252.0 17	173.0 18	88.6 18
1969	6310.0 6	5540.0 3	4060.0 4	3280.0 3	2350.0 1	1760.0 1	1340.0 1	1270.0 1	1030.0 1	556.0 2
1970	2920.0 15	2200.0 15	1340.0 15	930.0 15	611.0 15	395.0 16	355.0 14	324.0 15	251.0 14	158.0 13
1971	7090.0 3	5220.0 5	2600.0 8	1650.0 8	1510.0 6	969.0 6	699.0 7	589.0 7	444.0 7	285.0 7



STATION NUMBER 05471000

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

SOUTH SKUNK RIVER BELOW SQUAW CREEK NEAR AMES, IOWA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	CFS_DAYS			
YEAR																																							
1953																																				48178.3			
1954	34																																				96611.3		
1955																																				63130.4			
1956	173																																				2178.7		
1957	39																																				47885.0		
1958																																				90021.0			
1959																																				78791.7			
1960																																				150811.0			
1961																																				108751.6			
1962																																				212039.0			
1963																																				59454.0			
1964	9																																				32321.0		
1965	43																																				142679.7		
1966																																				105015.5			
1967	55	1	2																																				47680.2
1968	55																																				32417.9		
1969																																				202974.2			
1970																																				57542.0			
1971																																				104154.8			

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	407	6239	100.0	9	0.40	87	6374	51.9	18	16.0	265	4783	68.9	27	650	233	571	8.2
1	0.01	1	6532	94.1	10	0.60	147	6287	90.6	19	24.0	316	4518	65.1	28	990	133	338	4.8
2	0.02	2	6531	94.1	11	0.90	66	6140	88.5	20	36.0	494	4202	60.6	29	1500	70	205	2.9
3	0.03	3	6529	94.1	12	1.30	143	6074	87.5	21	55.0	552	3708	53.4	30	2300	71	135	1.9
4	0.04	1	6529	94.1	13	2.00	233	5931	85.5	22	83.0	643	3156	45.5	31	3400	41	64	.9
5	0.07	1	6528	94.1	14	3.00	246	5698	82.1	23	130.0	598	2513	36.2	32	5200	21	23	.3
6	0.10	35	6527	94.1	15	4.60	201	5452	78.6	24	190.0	568	1915	27.6	33	7800	2	2	.0
7	0.20	65	6492	93.6	16	7.00	193	5251	75.7	25	290.0	438	1347	19.4	34				
8	0.30	53	6427	92.6	17	11.00	275	5058	72.9	26	430.0	338	909	13.1					



STATION NUMBER 05471500

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

SOUTH SKUNK RIVER NEAR OSKALOUSA, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1947	116.00 22	152.00 23	156.00 23	184.00 23	303.00 25	321.00 23	398.00 22	550.00 23	565.00 21	558.00 18
1948	37.00 12	37.00 12	37.00 12	44.70 12	63.70 14	107.00 17	139.00 16	179.00 16	168.00 16	1760.00 25
1949	29.00 10	29.30 10	30.90 10	31.90 9	32.10 8	51.60 10	64.10 10	75.40 10	141.00 10	611.00 10
1950	28.00 9	28.00 9	29.00 9	33.20 10	50.00 11	51.20 9	55.10 7	57.20 7	72.10 7	478.00 7
1951	7.50 3	7.57 3	7.60 3	7.88 3	8.84 3	10.70 3	17.10 3	25.60 3	38.30 4	505.00 9
1952	170.00 25	170.00 25	174.00 24	184.00 24	226.00 23	357.00 24	474.00 24	462.00 21	512.00 20	1370.00 23
1953	55.00 17	56.00 16	57.10 16	57.20 14	58.10 12	62.80 12	96.00 12	110.00 12	159.00 13	727.00 14
1954	14.00 4	14.00 4	14.00 4	14.00 4	14.50 4	18.70 4	25.40 4	26.50 4	29.80 3	302.00 3
1955	55.00 16	57.70 17	63.70 17	67.70 17	130.00 20	198.00 20	248.00 20	373.00 20	670.00 24	822.00 15
1956	4.40 2	4.40 2	4.54 2	4.68 2	4.86 1	5.56 1	8.05 1	12.00 2	22.80 1	154.00 2
1957	1.80 1	1.80 1	1.96 1	3.38 1	7.45 2	9.57 2	11.00 2	10.20 1	25.60 2	46.60 1
1958	51.00 14	51.70 14	53.60 14	56.70 13	63.30 13	86.40 15	102.00 13	122.00 13	149.00 12	370.00 5
1959	26.00 8	26.70 8	26.90 8	27.20 7	29.60 5	37.50 5	84.10 11	87.40 11	145.00 11	663.00 12
1960	94.00 21	97.70 21	106.00 21	103.00 21	151.00 21	199.00 21	207.00 19	276.00 19	339.00 19	915.00 16
1961	74.00 19	74.70 18	76.70 18	77.50 18	93.10 17	106.00 16	149.00 17	194.00 17	255.00 17	1480.00 24
1962	150.00 24	155.00 24	176.00 25	191.00 25	267.00 24	653.00 25	647.00 25	696.00 25	866.00 25	1210.00 21
1963	46.00 13	47.00 13	50.70 13	64.50 16	82.90 16	83.50 13	107.00 14	130.00 14	162.00 14	546.00 17
1964	25.00 7	25.00 7	26.00 7	26.50 6	30.90 6	49.80 8	60.70 8	66.40 8	85.80 8	390.00 6
1965	33.00 11	33.00 11	36.60 11	40.70 11	44.00 10	54.40 11	61.70 9	77.00 9	110.00 9	621.00 11
1966	87.00 19	92.70 20	101.00 20	104.00 20	127.00 19	183.00 19	326.00 21	571.00 24	572.00 22	1090.00 20
1967	22.00 5	22.70 5	25.70 6	28.60 8	31.70 7	46.60 7	50.60 6	52.20 6	69.20 6	722.00 13
1968	23.00 6	23.00 6	23.30 5	25.10 5	34.30 9	44.90 6	50.20 5	51.10 5	55.50 5	360.00 4
1969	52.00 15	52.70 15	56.30 15	60.50 15	66.90 15	86.20 14	117.00 15	130.00 15	163.00 15	479.00 8
1970	90.00 20	92.00 19	96.10 19	98.50 19	103.00 18	132.00 18	178.00 18	218.00 18	262.00 18	1220.00 22
1971	119.00 23	125.00 22	136.00 22	159.00 22	199.00 22	272.00 22	426.00 23	505.00 22	613.00 23	1040.00 19



STATION NUMBER 05471500

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

SOUTH SKUNK RIVER NEAR CASKALCOGA, IOWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1946	8500.0 10	7270.0 13	5970.0 11	4490.0 11	3250.0 10	2100.0 14	2070.0 10	1860.0 9	1820.0 7	1120.0 5
1947	13400.0 1	16400.0 1	13200.0 1	10900.0 1	9300.0 1	5880.0 1	4830.0 1	4060.0 1	2970.0 1	1730.0 1
1948	8930.0 7	8520.0 6	7470.0 7	5140.0 7	3410.0 8	2430.0 10	1970.0 11	1570.0 13	1120.0 14	643.0 13
1949	10600.0 5	8820.0 5	6370.0 9	4990.0 9	3320.0 9	2300.0 12	1650.0 14	1370.0 15	1070.0 15	582.0 17
1950	8910.0 8	8020.0 9	5680.0 12	3850.0 16	2580.0 17	1600.0 18	1380.0 19	1470.0 14	1130.0 13	602.0 15
1951	7640.0 14	7210.0 14	6250.0 10	4230.0 12	3170.0 13	2680.0 7	2560.0 6	2460.0 5	1890.0 5	1020.0 8
1952	6550.0 17	6290.0 16	5340.0 15	4180.0 13	3230.0 11	2270.0 13	1910.0 12	1710.0 11	1520.0 10	955.0 9
1953	7540.0 6	7730.0 10	5310.0 16	3220.0 19	2300.0 19	1640.0 17	1440.0 16	1310.0 17	1050.0 16	586.0 16
1954	5420.0 22	5210.0 20	4440.0 18	3940.0 15	2940.0 16	1710.0 16	1450.0 15	1320.0 16	955.0 18	455.0 20
1955	3500.0 25	3170.0 24	2610.0 24	2110.0 23	1400.0 24	935.0 24	940.0 23	810.0 23	666.0 21	522.0 19
1956	444.0 26	277.0 26	240.0 26	167.0 26	103.0 26	74.2 26	72.3 26	69.1 26	62.3 26	40.1 26
1957	4760.0 23	4370.0 23	2990.0 23	1800.0 24	1670.0 23	1140.0 23	914.0 24	719.0 24	510.0 24	276.0 24
1958	5540.0 20	5230.0 19	4260.0 20	2910.0 20	2080.0 21	1420.0 20	1060.0 22	869.0 22	714.0 20	448.0 21
1959	8300.0 12	7490.0 11	5000.0 17	4120.0 14	2990.0 15	2330.0 11	2310.0 8	2110.0 7	1640.0 8	864.0 10
1960	14500.0 2	13600.0 2	12100.0 2	8160.0 2	5280.0 3	4530.0 2	3570.0 2	3190.0 2	2320.0 3	1420.0 3
1961	5820.0 19	5160.0 21	4430.0 19	3630.0 18	3130.0 14	2560.0 8	2070.0 9	1770.0 10	1440.0 11	868.0 11
1962	3460.0 11	3380.0 8	3030.0 5	7310.0 4	5010.0 4	3460.0 4	3120.0 4	2620.0 4	2140.0 4	1510.0 2
1963	5450.0 21	4940.0 22	3490.0 22	2630.0 22	2110.0 20	1320.0 21	1410.0 17	1170.0 19	941.0 19	547.0 18
1964	5900.0 18	5570.0 18	4140.0 21	2650.0 21	1930.0 22	1280.0 22	1130.0 21	921.0 21	653.0 23	370.0 22
1965	11100.0 4	11100.0 4	10300.0 3	7480.0 3	5010.0 5	3400.0 6	2790.0 5	2370.0 6	1830.0 6	1040.0 6
1966	12100.0 3	11300.0 3	9280.0 4	6440.0 6	4890.0 6	3410.0 5	2460.0 7	2080.0 8	1580.0 9	1030.0 7
1967	7530.0 15	7360.0 12	6620.0 8	5080.0 8	3210.0 12	1760.0 15	1210.0 20	951.0 20	668.0 22	369.0 23
1968	3830.0 24	2750.0 25	2310.0 25	1480.0 25	961.0 25	617.0 25	477.0 25	424.0 25	314.0 25	185.0 25
1969	3850.0 9	3490.0 7	7710.0 6	6590.0 5	5350.0 2	4010.0 3	3130.0 3	2840.0 3	2440.0 2	1340.0 4
1970	7700.0 13	7200.0 15	5500.0 14	3690.0 17	2400.0 18	1530.0 19	1400.0 18	1250.0 18	986.0 17	631.0 14
1971	6600.0 16	6130.0 17	5530.0 13	4810.0 10	3760.0 7	2480.0 9	1840.0 13	1600.0 12	1250.0 12	848.0 12







STATION NUMBER 05471500

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

SOUTH SKUNK RIVER NEAR OSKALOOSA, IOWA

<i>cfs</i>					<i>cfs</i>					<i>cfs</i>					<i>cfs</i>				
CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	9496	100.0	9	.0078 16.00	54	9187	96.7	18	.122 200.0	624	5623	59.2	27	1.41 2300	267	752	7.9
1	1.90	7	9496	100.0	10	.0135 22.00	148	9053	95.8	19	.157 260.0	564	4999	52.6	28	1.90 3100	159	485	5.1
2	2.40	2	9489	99.9	11	.0171 28.00	284	8745	94.2	20	.205 340.0	572	4435	46.7	29	2.51 4100	136	326	3.4
3	.0017 3.10	3	9487	99.9	12	.0226 37.00	280	8661	91.2	21	.275 450.0	620	3863	40.7	30	3.24 5300	92	190	2.0
4	.0025 4.10	54	9484	99.9	13	.030 49.00	509	8381	88.3	22	.361 590.0	685	3243	34.2	31	4.28 7000	67	98	1.0
5	.0032 5.10	27	9430	99.3	14	.0315 65.00	490	7872	82.9	23	.477 780.0	545	2558	26.9	32	5.27 9300	20	31	.3
6	.0043 7.10	52	9403	99.0	15	.042 85.00	450	7382	77.7	24	.612 1000.0	483	2013	21.2	33	7.51 12000	9	11	.1
7	.0057 9.40	56	9351	98.5	16	.067 110.00	627	6892	72.6	25	.795 1300.0	503	1530	16.1	34	16000	2	2	.0
8	.0081 12.00	103	9255	97.9	17	.072 150.00	642	6265	66.0	26	1.10 1800.0	275	1027	10.8					



STATION NUMBER 05472500

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

NORTH SKUNK RIVER NEAR SIGCURNY, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1947	80.00 25	81.00 25	82.70 25	105.00 25	147.00 25	166.00 22	209.00 23	312.00 23	289.00 21	543.00 17
1948	4.00 5	4.33 5	6.25 5	8.64 7	21.10 14	40.90 16	49.20 14	53.70 13	57.40 12	865.00 25
1949	9.50 9	10.50 11	11.00 9	12.50 11	14.30 10	26.60 14	33.50 11	43.60 11	75.40 14	298.00 11
1950	7.00 7	7.13 6	7.41 6	8.07 5	11.40 5	15.20 5	22.00 7	23.20 6	35.30 7	265.00 10
1951	3.30 4	3.30 4	3.34 4	3.43 4	3.65 4	4.44 4	5.02 4	5.70 4	8.79 2	199.00 9
1952	47.00 23	48.00 23	52.60 23	71.70 24	91.10 24	171.00 23	206.00 22	300.00 22	304.00 22	754.00 24
1953	10.00 10	11.30 12	12.90 12	13.20 12	13.90 9	19.20 7	60.70 15	71.70 16	113.00 18	364.00 15
1954	1.20 3	1.40 3	1.44 3	1.50 3	2.00 2	2.83 3	4.01 3	3.61 2	4.80 1	125.00 3
1955	11.00 14	12.00 13	14.30 14	18.30 16	21.70 15	57.20 19	82.90 19	92.10 18	152.00 15	190.00 7
1956	0.60 2	0.63 2	0.93 2	1.10 2	2.23 3	2.39 2	3.09 2	3.79 3	13.10 3	94.70 2
1957	0.10 1	0.10 1	0.10 1	0.10 1	0.10 1	0.26 1	1.88 1	2.27 1	15.90 4	26.40 1
1958	6.70 6	7.37 7	7.93 7	8.39 6	12.80 7	25.00 12	32.10 10	36.20 10	36.10 8	136.00 5
1959	18.00 16	18.00 16	18.00 16	18.20 15	19.40 13	23.10 10	63.60 16	57.70 14	100.00 16	311.00 13
1960	18.00 17	19.00 17	21.00 17	31.00 18	51.20 20	115.00 20	145.00 20	199.00 20	284.00 20	660.00 20
1961	31.00 19	31.00 19	31.00 19	32.00 19	38.30 18	46.30 17	70.90 17	103.00 19	99.10 15	753.00 23
1962	55.00 24	57.00 24	64.30 24	68.60 23	84.10 23	145.00 21	181.00 21	277.00 21	415.00 23	725.00 22
1963	25.00 13	25.00 18	25.00 18	25.60 17	28.70 17	32.10 15	46.10 13	60.60 15	68.60 13	363.00 14
1964	10.00 11	10.00 9	10.10 9	10.20 8	11.70 6	21.50 9	25.50 9	27.00 8	37.00 9	136.00 6
1965	14.00 15	14.30 15	15.40 15	16.40 14	18.90 12	23.20 11	24.10 8	31.20 9	48.20 11	304.00 12
1966	40.00 22	44.30 22	45.10 22	47.30 21	55.60 21	274.00 25	386.00 25	372.00 24	433.00 24	644.00 19
1967	10.00 12	10.30 10	11.30 10	12.60 10	13.90 8	19.20 8	19.90 5	21.10 5	34.00 6	444.00 16
1968	11.00 13	12.30 14	13.70 13	15.90 13	23.40 16	25.70 12	36.50 12	43.80 12	44.50 10	129.00 4
1969	8.70 3	9.13 8	11.60 11	12.10 9	15.00 11	17.70 6	21.40 6	23.60 7	32.40 5	151.00 6
1970	35.00 20	36.30 20	37.00 20	37.70 20	38.40 19	48.20 18	71.30 18	81.90 17	107.00 17	606.00 18
1971	40.00 21	43.30 21	45.10 21	54.40 22	75.80 22	189.00 24	279.00 24	400.00 25	581.00 25	683.00 21



STATION NUMBER 05472500

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

NORTH SKUNK RIVER NEAR SICCOURNEY, IOWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1946	13500.0 2	10700.0 2	6870.0 2	3450.0 6	1860.0 10	1320.0 9	1280.0 8	1160.0 8	1140.0 3	683.0 4
1947	10500.0 5	7500.0 5	5850.0 4	5010.0 2	4310.0 1	2630.0 1	2420.0 1	2040.0 1	1480.0 1	861.0 1
1948	6730.0 9	5810.0 9	4520.0 8	2540.0 10	1990.0 8	1220.0 11	936.0 12	735.0 12	578.0 14	317.0 14
1949	6220.0 11	4430.0 14	2940.0 15	2270.0 14	1650.0 13	1140.0 12	825.0 13	701.0 13	559.0 15	307.0 15
1950	4910.0 15	4210.0 15	3550.0 11	2220.0 15	1370.0 15	866.0 17	633.0 18	626.0 16	501.0 17	265.0 17
1951	5700.0 13	4720.0 12	2690.0 16	2210.0 16	1780.0 11	1590.0 6	1330.0 7	1300.0 4	987.0 6	524.0 8
1952	6460.0 10	5110.0 11	3550.0 12	2540.0 11	1710.0 12	1140.0 13	1000.0 11	878.0 10	769.0 10	507.0 10
1953	3590.0 18	2800.0 21	1960.0 19	1190.0 20	960.0 19	893.0 16	756.0 15	664.0 15	514.0 16	295.0 16
1954	1550.0 23	1450.0 24	840.0 24	546.0 23	460.0 23	308.0 24	240.0 24	208.0 24	165.0 24	86.2 24
1955	4590.0 16	2690.0 19	1500.0 22	922.0 22	632.0 21	441.0 20	446.0 20	359.0 20	266.0 20	191.0 19
1956	534.0 26	367.0 26	270.0 26	169.0 26	95.5 26	63.9 26	58.3 26	47.1 26	46.3 26	27.7 26
1957	3000.0 21	2640.0 20	1850.0 20	949.0 21	601.0 22	420.0 21	347.0 22	273.0 22	195.0 23	106.0 23
1958	1560.0 24	1460.0 23	860.0 23	454.0 24	364.0 24	313.0 23	267.0 23	239.0 23	203.0 22	132.0 21
1959	6160.0 12	5280.0 10	3900.0 10	2860.0 8	1930.0 9	1460.0 7	1410.0 5	1290.0 6	970.0 8	523.0 9
1960	23200.0 1	16900.0 1	10000.0 1	5400.0 1	3140.0 2	2420.0 2	1940.0 2	1730.0 2	1390.0 2	860.0 2
1961	5590.0 14	4590.0 13	3390.0 13	2860.0 9	2110.0 6	1390.0 8	1050.0 5	833.0 11	689.0 12	456.0 11
1962	7650.0 6	7010.0 6	5790.0 5	4200.0 3	2690.0 5	1610.0 5	1370.0 6	1180.0 7	1060.0 5	737.0 3
1963	3990.0 19	2720.0 18	2370.0 18	2070.0 17	1340.0 16	804.0 18	662.0 17	541.0 18	452.0 18	261.0 18
1964	3000.0 20	2810.0 17	2470.0 17	1700.0 18	1060.0 18	603.0 19	543.0 19	438.0 19	309.0 19	173.0 20
1965	10700.0 4	8230.0 4	5710.0 6	3270.0 7	2010.0 7	1230.0 10	1010.0 10	917.0 9	860.0 9	582.0 7
1966	12400.0 3	10300.0 3	6700.0 3	3850.0 4	2870.0 4	2160.0 3	1570.0 3	1300.0 5	975.0 7	630.0 5
1967	2420.0 22	2250.0 22	1810.0 21	1200.0 19	695.0 20	383.0 22	349.0 21	300.0 21	226.0 21	127.0 22
1968	1100.0 25	653.0 25	660.0 25	457.0 25	315.0 25	208.0 25	171.0 25	151.0 25	119.0 25	82.7 25
1969	7510.0 7	6590.0 7	4290.0 9	3850.0 5	2970.0 3	2060.0 4	1570.0 4	1340.0 3	1090.0 4	615.0 6
1970	7450.0 8	6390.0 8	4990.0 7	2460.0 13	1320.0 17	1120.0 14	773.0 14	681.0 14	670.0 13	456.0 12
1971	4410.0 17	3810.0 16	3310.0 14	2510.0 12	1620.0 14	963.0 15	746.0 16	615.0 17	709.0 11	435.0 13



STATION NUMBER 05472500

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

NORTH SKUNK RIVER NEAR SIGOURNEY, IOWA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	CFS_DAYS						
YEAR	NUMBER OF DAYS IN CLASS																																			CFS_DAYS						
1946																	5	43	32	26	44	67	34	33	22	15	11	19	6	4	2	1	1			249317.0						
1947																		7	12	10	15	19	36	38	37	44	38	33	17	20	7	17	10	3	2			314086.0				
1948					4	5	6	19	36	19	39	70	35	35	20	15	14	12	11	7	7	3	3	4	2													116059.8				
1949						5	12	42	31	21	17	24	41	44	26	26	23	12	6	11	17	2	3	1	1													112229.0				
1950							13	51	44	23	21	26	12	50	39	14	19	10	8	6	9	10	4	5	1														96719.3			
1951								25	38	54	6	3	4	3		4	30	24	15	18	17	25	23	23	24	12	5	2											191303.0			
1952																	2	8	8	24	21	44	44	35	70	36	24	24	11	11	2	1	1						185524.0			
1953																																								107821.3		
1954																																								31470.5		
1955																																								65797.9		
1956																																								10142.7		
1957																																									38579.0	
1958																																									48047.4	
1959																																									191032.0	
1960																																									314796.0	
1961																																										166471.0
1962																																										268885.0
1963																																										95217.0
1964																																										63164.0
1965																																										212419.0
1966																																										229899.0
1967																																										46513.0
1968																																										30266.0
1969																																										224455.8
1970																																										166498.0
1971																																										158698.0



STATION NUMBER 05472500

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

NORTH SKUNK RIVER NEAR SICOURNEY, IOWA

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	9496	100.0	9	2.70	131	9291	97.8	18	75.0	814	5654	59.5	27	2100	155	362	3.8
1	0.10	40	9496	100.0	10	4.00	155	9160	96.5	19	110.0	750	4840	51.0	28	3000	109	207	2.1
2	0.20	3	9456	99.6	11	5.70	193	9005	94.8	20	160.0	746	4090	43.1	29	4300	70	98	1.0
3	0.30	3	9453	99.5	12	8.30	207	8812	92.8	21	230.0	744	3344	35.2	30	6200	18	28	.2
4	0.40	2	9450	99.5	13	12.00	387	8605	90.6	22	330.0	692	2600	27.4	31	9000	7	10	.1
5	0.50	15	9448	99.5	14	17.00	550	8218	86.5	23	470.0	575	1908	20.1	32	13000	2	3	.0
6	0.60	4	9433	99.3	15	25.00	590	7668	80.7	24	680.0	409	1333	14.0	33	19000	1	1	.0
7	1.30	34	9429	99.3	16	36.00	613	7078	74.5	25	990.0	302	924	9.7	34				
8	1.90	104	9395	98.9	17	52.00	811	6465	68.1	26	1400.0	260	622	6.6					



STATION\_NUMBER 5-4730.00

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

SKUNK RIVER AT COPPOCK, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1915	33.0 7	33.0 7	39.0 7	49.2 7	57.4 7	101.0 7	218.0 11	302.0 12	644.0 20	1170.0 11
1916	400.0 30	400.0 30	429.0 30	500.0 30	723.0 30	961.0 30	1160.0 30	1520.0 29	2410.0 30	2850.0 20
1917	52.0 11	55.0 11	67.4 11	79.9 11	117.0 13	148.0 10	154.0 8	169.0 7	175.0 7	920.0 6
1918	30.0 6	30.0 6	30.0 6	30.7 5	35.7 5	49.5 4	65.5 4	77.2 5	133.0 4	1270.0 17
1919	86.0 16	88.0 16	91.1 16	95.0 13	100.0 12	137.0 9	152.0 7	173.0 8	235.0 8	1260.0 15
1920	82.0 15	84.0 15	86.3 14	98.7 14	133.0 14	278.0 19	426.0 22	772.0 26	1170.0 27	2020.0 26
1921	178.0 25	185.0 25	193.0 24	203.0 23	261.0 23	349.0 23	375.0 19	382.0 17	406.0 14	1150.0 12
1922	169.0 23	187.0 26	203.0 26	236.0 26	369.0 28	554.0 28	665.0 27	742.0 25	1130.0 26	1390.0 22
1923	150.0 21	150.0 20	156.0 20	179.0 20	207.0 20	236.0 17	288.0 15	328.0 15	340.0 10	1000.0 9
1924	157.0 22	158.0 22	160.0 22	206.0 24	298.0 27	355.0 24	489.0 24	573.0 23	706.0 24	1220.0 13
1925	120.0 19	120.0 19	120.0 19	123.0 17	150.0 15	239.0 18	309.0 17	346.0 16	568.0 19	1380.0 21
1926	79.0 14	81.7 14	87.3 15	99.8 15	160.0 17	228.0 16	288.0 16	325.0 14	375.0 12	602.0 3
1927	146.0 20	157.0 21	173.0 21	208.0 25	273.0 25	391.0 26	1030.0 28	997.0 28	2000.0 29	2250.0 26
1928	76.0 13	77.7 13	83.0 13	88.0 12	99.1 11	183.0 12	226.0 12	445.0 20	399.0 13	1370.0 20
1929	311.0 29	311.0 29	327.0 29	334.0 29	417.0 29	613.0 29	1140.0 29	1650.0 30	1630.0 28	2250.0 29
1930	200.0 28	200.0 27	200.0 25	200.0 22	235.0 22	290.0 20	383.0 20	390.0 18	420.0 15	1270.0 16
1931	20.0 4	20.0 4	20.0 4	20.0 4	20.0 2	102.0 8	123.0 6	126.0 6	146.0 6	756.0 6
1932	65.0 12	66.3 12	82.7 12	122.0 16	150.0 16	196.0 13	265.0 14	269.0 11	453.0 16	1770.0 25
1933	157.0 27	206.0 28	219.0 27	248.0 27	272.0 24	358.0 25	432.0 23	531.0 22	690.0 23	1220.0 14
1934	20.0 5	20.0 5	22.1 5	36.1 6	37.5 6	54.0 5	66.0 5	76.6 4	112.0 3	807.0 7
1935	18.0 3	18.7 3	18.9 3	19.2 2	22.2 3	31.8 2	38.4 2	49.0 2	83.3 2	460.0 1
1936	50.0 10	50.0 9	50.0 8	50.0 8	80.0 9	217.0 15	320.0 18	524.0 21	485.0 18	1600.0 23
1937	49.0 9	50.3 10	51.9 9	53.9 9	64.0 8	86.5 6	194.0 9	241.0 9	235.0 9	1080.0 10
1938	14.0 2	14.7 2	15.7 2	19.6 3	26.9 4	37.9 3	44.7 3	54.5 3	143.0 5	667.0 5
1939	100.0 18	107.0 18	116.0 18	134.0 19	166.0 18	202.0 14	233.0 13	306.0 13	342.0 11	1310.0 18
1940	8.0 1	8.3 1	8.7 1	9.4 1	11.2 1	21.2 1	35.4 1	45.8 1	65.8 1	570.0 2
1941	40.0 8	46.7 8	64.7 10	74.8 10	88.9 10	152.0 11	198.0 10	247.0 10	459.0 17	638.0 4
1942	97.0 17	105.0 17	114.0 17	133.0 18	176.0 19	301.0 21	566.0 26	811.0 27	820.0 25	1660.0 24
1943	170.0 24	183.0 24	227.0 28	261.0 28	296.0 26	483.0 27	541.0 25	618.0 24	600.0 21	1370.0 19
1944	180.0 26	180.0 23	183.0 23	187.0 21	218.0 21	310.0 22	402.0 21	432.0 19	681.0 22	2040.0 27



STATION\_NUMBER 5-4730.00

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENLING SEPTEMBER 30

SKUNK RIVER AT COPPOCK, IOWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1914	6430.0 24	6320.0 23	5680.0 23	4130.0 24	2230.0 26	1150.0 27	839.0 28	783.0 27	644.0 28	452.0 28
1915	13700.0 12	12700.0 12	10900.0 11	9220.0 7	6430.0 8	4530.0 10	4390.0 6	4060.0 5	3660.0 2	2450.0 2
1916	15000.0 11	12800.0 11	8870.0 16	7230.0 14	4740.0 18	3120.0 20	2800.0 17	2750.0 12	2480.0 12	1890.0 6
1917	15400.0 10	14900.0 9	13000.0 8	11900.0 4	8040.0 3	5370.0 5	3990.0 8	3650.0 7	2570.0 8	1370.0 14
1918	26000.0 4	23100.0 4	17000.0 3	11500.0 5	7800.0 5	4670.0 7	3240.0 11	2540.0 16	1940.0 17	1040.0 22
1919	11500.0 16	10500.0 16	8850.0 18	6870.0 17	5440.0 12	4590.0 9	4170.0 7	3560.0 9	2530.0 10	1390.0 13
1920	12200.0 13	11400.0 14	9670.0 14	7120.0 15	5970.0 11	5100.0 6	4600.0 5	3700.0 6	2720.0 7	1970.0 7
1921	11000.0 18	10400.0 19	8610.0 19	6670.0 18	4120.0 21	2430.0 23	1770.0 25	1710.0 24	1660.0 23	1060.0 20
1922	5910.0 25	5760.0 25	5450.0 24	3890.0 25	2710.0 25	2360.0 24	2030.0 23	1860.0 23	1750.0 20	1260.0 16
1923	5250.0 27	5190.0 26	4900.0 25	4380.0 23	3120.0 24	2250.0 25	1890.0 24	1640.0 25	1250.0 25	831.0 25
1924	23700.0 5	15100.0 6	10800.0 12	7660.0 13	5090.0 14	3860.0 14	3170.0 12	2700.0 14	2730.0 6	1780.0 10
1925	4360.0 28	2870.0 30	1940.0 30	1670.0 29	1270.0 29	991.0 29	812.0 29	738.0 29	621.0 29	460.0 27
1926	23700.0 6	21500.0 5	16600.0 4	12400.0 2	9530.0 2	5580.0 3	3960.0 9	3570.0 8	2550.0 9	1690.0 11
1927	11600.0 15	11200.0 15	8860.0 17	6470.0 19	4720.0 19	3890.0 12	3370.0 10	3050.0 10	2320.0 13	1810.0 9
1928	10600.0 19	10100.0 19	7360.0 20	5310.0 22	3800.0 22	3250.0 18	2710.0 19	2160.0 19	2000.0 16	1430.0 12
1929	16000.0 8	15500.0 8	13700.0 7	10900.0 6	7840.0 4	6390.0 2	5040.0 2	4070.0 4	3410.0 3	2270.0 4
1930	33200.0 3	25000.0 3	15600.0 5	8560.0 9	5090.0 15	3150.0 19	2470.0 20	2100.0 20	1730.0 21	1040.0 21
1931	3360.0 29	3230.0 28	2350.0 28	1310.0 30	965.0 30	592.0 30	474.0 30	453.0 30	453.0 30	303.0 30
1932	12100.0 14	12000.0 13	11300.0 9	9020.0 8	6570.0 7	5570.0 4	4700.0 3	4110.0 3	3290.0 5	2390.0 3
1933	9960.0 20	9620.0 20	8950.0 15	6910.0 16	5220.0 13	3680.0 16	2820.0 16	2260.0 18	1860.0 18	1110.0 19
1934	1640.0 31	1070.0 31	784.0 31	460.0 31	312.0 31	226.0 31	200.0 31	170.0 31	164.0 31	111.0 31
1935	7740.0 22	7280.0 21	6720.0 21	6000.0 20	4860.0 16	3800.0 15	2920.0 15	2340.0 17	2220.0 14	1270.0 15
1936	11200.0 17	10800.0 17	9940.0 13	7820.0 12	6030.0 10	3960.0 13	3040.0 14	2550.0 15	1760.0 19	1120.0 16
1937	17700.0 7	15600.0 7	14000.0 6	8420.0 10	6230.0 9	4010.0 11	3130.0 13	2700.0 11	2000.0 15	1160.0 17
1938	9500.0 21	6230.0 24	4640.0 26	3520.0 26	3410.0 23	2750.0 22	2290.0 21	1990.0 22	1690.0 22	1010.0 23
1939	15500.0 9	12900.0 10	11200.0 10	7890.0 11	4820.0 17	3020.0 21	2260.0 22	2010.0 21	1660.0 24	571.0 24
1940	3230.0 30	3010.0 29	2270.0 29	1750.0 28	1540.0 28	1050.0 28	916.0 27	753.0 28	760.0 27	449.0 25
1941	5500.0 26	4830.0 27	3690.0 27	2410.0 27	2030.0 27	1480.0 26	1220.0 26	1140.0 26	1130.0 26	731.0 26
1942	7340.0 23	7180.0 22	6710.0 22	5750.0 21	4710.0 20	3450.0 17	2790.0 18	2710.0 13	2520.0 11	2020.0 6
1943	34800.0 2	26500.0 2	18400.0 2	12400.0 3	7410.0 6	4630.0 8	4640.0 4	4210.0 2	3320.0 4	2210.0 5
1944	38700.0 1	35000.0 1	26600.0 1	18300.0 1	14000.0 1	10100.0 1	8130.0 1	6740.0 1	4920.0 1	2760.0 1







STATION\_NUMBER 5-4730.00

DURATION TABLE OF DAILY DISCHARGE

SKUNK RIVER AT COPPOCK, IOWA

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	11323	100.0	9	62.00	260	10785	95.2	18	620.0	753	5570	49.2	27	6100	176	424	3.7
1	8.00	7	11323	100.0	10	80.00	272	10525	93.0	19	800.0	780	4817	42.5	28	7900	121	248	2.1
2	10.00	13	11316	99.9	11	100.00	470	10253	90.6	20	1000.0	769	4037	35.7	29	10000	73	127	1.1
3	13.00	18	11303	99.8	12	130.00	475	9783	86.4	21	1300.0	747	3268	28.9	30	13000	33	54	.4
4	17.00	22	11295	99.7	13	170.00	586	9308	82.2	22	1700.0	644	2521	22.3	31	17000	8	21	.1
5	22.00	25	11213	99.0	14	220.00	679	8722	77.0	23	2200.0	496	1877	16.6	32	22000	6	13	.1
6	29.00	34	11188	98.8	15	290.00	640	8043	71.0	24	2900.0	382	1381	12.2	33	29000	4	5	.0
7	37.00	41	11104	98.1	16	370.00	892	7353	64.9	25	3700.0	322	999	8.8	34	37000	1	1	.0
8	48.00	48	10988	97.0	17	480.00	891	6461	57.1	26	4800.0	253	677	6.0					



STATION\_NUMBER 5-4735.00

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

BIG CREEK NEAR MOUNT PLEASANT, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1957	0.0 1	0.0 1	0.0 1	0.0 1	0.0 1	0.0 1	0.0 1	0.0 1	0.4 1	3.1 1
1958	0.0 2	0.0 2	0.0 2	0.0 2	0.1 5	0.2 4	1.3 6	1.2 3	2.4 3	15.6 2
1959	0.8 11	0.8 11	1.3 11	1.5 11	1.8 11	3.1 9	5.1 8	7.6 8	8.0 8	62.3 7
1960	0.0 3	0.0 3	0.1 7	0.4 9	0.9 9	5.3 10	18.1 11	32.0 11	55.1 11	93.6 9
1961	0.1 9	0.1 8	0.1 8	0.1 7	0.2 6	0.4 5	1.1 5	2.8 6	2.4 4	79.7 8
1962	0.2 10	0.3 10	0.3 10	0.4 10	0.6 8	2.6 8	10.3 9	18.3 9	44.0 9	107.0 10
1963	0.0 4	0.0 4	0.0 3	0.0 3	0.3 7	0.9 7	3.1 7	5.9 7	5.3 7	45.9 4
1964	0.0 5	0.0 5	0.0 4	0.0 4	0.0 2	0.1 3	0.5 2	0.8 2	2.8 6	15.8 3
1965	0.0 6	0.0 6	0.0 5	0.0 5	0.0 3	0.7 6	1.0 4	1.3 4	2.4 5	48.4 5
1966	0.0 7	0.1 9	0.1 9	0.2 8	1.2 10	15.5 11	16.6 10	22.8 10	47.4 10	136.0 11
1967	0.0 8	0.0 7	0.0 6	0.0 6	0.0 4	0.0 2	0.6 3	1.3 5	1.6 2	50.0 6



STATION\_NUMBER 5-4735.00

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

IG CREEK NEAR MOUNT PLEASANT, IOWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
956	250.0 11	120.0 11	73.4 11	65.4 11	33.8 11	17.0 12	11.5 12	8.7 12	10.9 11	5.7 11
957	160.0 12	110.0 12	62.3 12	36.3 12	26.6 12	17.1 11	13.3 11	10.2 11	7.3 12	3.9 12
958	900.0 8	667.0 7	449.0 6	259.0 7	149.0 9	133.0 6	101.0 6	81.3 7	72.3 6	40.1 6
959	950.0 6	600.0 8	450.0 5	356.0 4	258.0 4	207.0 5	175.0 4	158.0 4	120.0 4	65.1 4
960	2850.0 2	2210.0 2	1250.0 2	663.0 3	507.0 2	327.0 2	327.0 2	257.0 2	206.0 2	128.0 2
961	1160.0 5	877.0 4	442.0 7	286.0 6	155.0 7	87.7 10	73.6 9	55.6 10	44.9 10	36.3 7
962	2010.0 3	1390.0 3	864.0 3	714.0 2	431.0 3	283.0 3	221.0 3	159.0 3	173.0 3	117.0 3
963	900.0 7	521.0 9	271.0 9	181.0 10	125.0 10	92.9 9	71.7 10	58.7 9	47.8 9	26.9 10
964	850.0 9	677.0 6	371.0 8	240.0 8	159.0 6	96.3 8	97.3 7	77.5 8	53.9 8	27.7 9
965	5460.0 1	3810.0 1	2100.0 1	1410.0 1	1040.0 1	532.0 1	363.0 1	277.0 1	227.0 1	136.0 1
966	1260.0 4	867.0 5	590.0 4	331.0 5	253.0 5	225.0 4	164.0 5	131.0 5	115.0 5	64.4 5
967	680.0 10	402.0 10	222.0 10	199.0 9	150.0 8	110.0 7	94.5 8	85.1 6	64.1 7	35.1 8



DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

BIG CREEK NEAR MOUNT PLEASANT, IOWA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34		
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS		
1956	215	31	12	7	4	10	13	11	8	4	5	3	7	3	3	6	4	4	2	4	3	3	2	1	1												2071.4
1957	195	31	7	8	6	5	10	5	10	6	9	9	10	13	10	7	12	6		3		2	1														1419.0
1958	14	8	10	3	6	12	15	9	15	12	23	17	33	31	22	16	22	22	14	18	12	7	6	2	5	4	3	3	1							14626.4	
1959	4	4	1	1	3	4	3	5	37	40	30	26	16	16	8	11	10	12	23	20	15	13	12	19	11	7	6	3	1							23764.2	
1960				6	9	7	3	3	7	5	4	7	4	8	10	16	40	51	26	34	21	27	18	14	17	6	6	6	4	4	1	2				46879.3	
1961		20	12	13	26	34	20	15	19	17	20	15	16	9	9	6	34	15	7	9	12	14	3	8	3	3	4		2							13258.0	
1962	23	2	2	1	2	2	4	6	6	4	3	6	8	4	3	10	8	65	51	33	25	23	14	17	10	11	9	3	6	2	2				42739.1		
1963			11	6	5	9	29	9	20	10	31	36	32	22	22	23	20	16	16	12	12	7	5	5	4	1	1		1							9832.8	
1964	81	27	7	5	9	3	6	2	7	4	9	29	25	33	16	17	9	22	12	9	9	8	6	4	1	2	1	3								10150.4	
1965	30	16	8	12	9	6	10	8	14	8	13	14	13	24	18	21	12	12	19	12	7	15	10	8	13	7	6	7	3	3	5		1	1		49544.0	
1966	43	8	3	6		1		1	3	6		2	6	7	36	53	51	17	30	20	14	12	11	9	9	5	7	3	1	1					23522.9		
1967	11	9	11	12	11	13	16	22	17	8	13	25	21	14	19	18	21	16	12	18	21	14	7	6	2	5	2	1								12814.5	

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	620	4383	100.0	9	1.90	124	2859	65.2	18	34.0	212	1130	25.8	27	640	29	70	1.5
1	0.10	156	3763	85.9	10	2.60	160	2735	62.4	19	48.0	192	918	20.9	28	880	19	41	.9
2	0.20	84	3607	82.3	11	3.50	189	2575	58.7	20	66.0	151	726	16.6	29	1200	10	22	.5
3	0.30	80	3523	80.4	12	4.90	191	2386	54.4	21	91.0	145	575	13.1	30	1700	8	12	.2
4	0.40	90	3443	78.6	13	6.80	184	2195	50.1	22	130.0	95	430	9.8	31	2300	2	4	.0
5	0.50	106	3353	76.5	14	9.40	176	2011	45.9	23	170.0	93	335	7.6	32	3200	1	2	.0
6	0.70	129	3247	74.1	15	13.00	204	1835	41.9	24	240.0	76	242	5.5	33	4500	1	1	.0
7	1.00	96	3118	71.1	16	18.00	243	1631	37.2	25	330.0	51	166	3.8	34				
8	1.30	163	3022	68.9	17	25.00	258	1388	31.7	26	460.0	45	115	2.6					



STATION NUMBER 05474000

LOWEST MEAN DISCHARGE, IN CFS, AND PANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

SKUNK RIVER AT AUGUSTA, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1916	800.00 56	800.00 56	800.00 56	800.00 56	1020.00 56	1490.00 56	1650.00 53	2550.00 55	3330.00 55	4400.00 54
1917	57.00 16	64.30 15	73.40 18	85.50 16	151.00 22	193.00 21	192.00 15	236.00 15	259.00 13	1410.00 16
1918	40.00 12	40.00 10	40.00 10	40.00 9	43.30 9	61.90 7	84.60 9	101.00 9	197.00 9	1880.00 27
1919	150.00 39	150.00 37	161.00 34	168.00 32	179.00 27	221.00 23	254.00 20	271.00 18	454.00 22	1830.00 24
1920	27.00 9	72.30 20	120.00 27	133.00 27	178.00 26	410.00 38	613.00 39	1150.00 47	1610.00 47	2830.00 41
1921	73.00 23	127.00 34	141.00 36	195.00 37	262.00 36	367.00 34	380.00 27	392.00 26	433.00 20	1670.00 19
1922	250.00 47	267.00 48	272.00 46	303.00 46	503.00 50	793.00 49	997.00 48	1060.00 46	1770.00 49	2090.00 32
1923	80.00 27	107.00 29	130.00 30	171.00 33	189.00 29	251.00 25	315.00 24	384.00 25	390.00 18	1290.00 12
1924	102.00 32	116.00 30	170.00 35	250.00 40	340.00 40	444.00 41	560.00 37	717.00 35	849.00 37	1540.00 17
1925	170.00 37	170.00 38	179.00 36	184.00 35	208.00 31	407.00 37	459.00 33	509.00 30	647.00 36	2230.00 35
1926	62.00 20	80.70 22	109.00 26	127.00 24	358.00 42	433.00 39	622.00 41	936.00 44	956.00 40	1260.00 11
1927	137.00 37	200.00 40	283.00 47	339.00 48	335.00 45	622.00 46	1860.00 55	1760.00 52	3580.00 56	3870.00 49
1928	75.00 25	89.00 25	95.30 21	131.00 26	173.00 25	238.00 28	408.00 30	801.00 40	717.00 32	2560.00 39
1929	316.00 50	325.00 50	334.00 49	370.00 51	670.00 54	838.00 50	1680.00 54	2560.00 56	2630.00 53	3770.00 47
1930	219.00 43	249.00 45	250.00 42	250.00 41	278.00 39	370.00 35	594.00 38	647.00 34	636.00 29	2160.00 33
1931	23.00 7	26.70 8	28.60 8	29.30 7	29.70 6	129.00 14	143.00 14	166.00 12	182.00 8	1140.00 10
1932	52.00 14	56.00 12	69.00 14	139.00 28	186.00 28	532.00 43	709.00 45	867.00 42	1130.00 44	2940.00 43
1933	270.00 49	270.00 49	270.00 45	281.00 42	480.00 49	512.00 42	642.00 43	726.00 36	1460.00 46	2230.00 34
1934	20.00 8	20.00 7	22.90 7	34.60 8	40.00 8	56.90 6	70.10 7	100.00 7	136.00 7	1390.00 15
1935	7.00 1	7.00 1	7.43 1	13.70 1	23.20 4	63.70 8	61.00 6	101.00 8	130.00 6	813.00 5
1936	100.00 30	100.00 26	100.00 24	100.00 20	152.00 23	291.00 29	428.00 32	733.00 38	692.00 31	2510.00 38
1937	52.00 15	55.30 11	63.60 12	70.90 12	82.80 12	110.00 10	249.00 19	487.00 29	566.00 26	1850.00 26
1938	16.00 5	17.70 5	18.40 5	24.60 6	34.70 7	48.90 5	57.50 5	70.90 5	212.00 11	1130.00 9
1939	126.00 35	137.00 36	143.00 32	176.00 34	211.00 32	247.00 24	275.00 22	434.00 27	460.00 23	2060.00 31
1940	13.00 3	14.30 3	14.60 3	15.20 3	18.00 2	29.80 4	49.80 4	62.60 4	87.70 3	981.00 8
1941	40.00 13	60.00 16	72.00 16	87.70 17	158.00 24	191.00 20	260.00 21	329.00 21	662.00 30	910.00 7
1942	102.00 31	120.00 31	140.00 31	167.00 31	197.00 30	354.00 33	638.00 42	1020.00 45	1060.00 42	2340.00 36
1943	236.00 45	244.00 44	263.00 43	295.00 44	376.00 44	627.00 47	662.00 44	759.00 39	518.00 38	1840.00 25
1944	205.00 41	210.00 41	221.00 39	227.00 38	264.00 37	385.00 36	502.00 34	535.00 31	808.00 34	2840.00 42
1945	340.00 52	340.00 51	344.00 51	351.00 49	357.00 41	437.00 40	559.00 36	726.00 37	583.00 41	4120.00 52
1946	238.00 46	262.00 46	336.00 50	352.00 50	418.00 46	561.00 44	615.00 40	869.00 43	942.00 39	3880.00 50
1947	339.00 51	397.00 54	407.00 53	428.00 54	503.00 52	731.00 48	876.00 47	1190.00 48	1110.00 43	2740.00 40
1948	80.00 28	87.00 23	98.60 22	113.00 23	148.00 21	263.00 27	332.00 26	380.00 24	440.00 21	4700.00 56
1949	64.00 21	68.70 19	87.00 20	95.60 19	124.00 19	210.00 22	223.00 17	260.00 16	426.00 19	1610.00 18
1950	38.00 11	66.30 17	72.70 17	82.60 15	103.00 14	116.00 11	117.00 10	168.00 13	288.00 14	1350.00 13
1951	34.00 10	36.00 9	36.60 9	43.10 10	45.10 10	64.00 9	73.00 8	80.60 6	108.00 4	1770.00 22
1952	403.00 55	422.00 55	447.00 55	508.00 55	681.00 55	1140.00 54	1620.00 52	1420.00 49	1910.00 50	4340.00 53
1953	60.00 19	33.00 24	107.00 25	109.00 22	112.00 16	141.00 16	325.00 25	352.00 22	541.00 25	1960.00 28



STATION NUMBER 05474000

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

SKUNK RIVER AT AUGUSTA, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1954	16.00 4	16.00 4	16.30 4	16.90 4	22.30 3	29.40 3	42.60 3	42.00 3	53.10 1	806.00 4
1955	74.00 24	102.00 28	264.00 44	301.00 45	368.00 43	610.00 45	760.00 46	859.00 41	1350.00 45	1750.00 21
1956	18.00 6	20.00 6	21.10 6	22.30 5	23.80 5	29.10 2	34.40 2	41.10 2	108.00 5	673.00 2
1957	12.00 2	12.00 2	13.60 2	14.20 2	15.10 1	17.50 1	18.80 1	19.20 1	80.90 2	164.00 1
1958	65.00 22	66.30 18	71.00 15	79.90 14	113.00 18	166.00 19	219.00 16	271.00 17	383.00 16	861.00 6
1959	100.00 29	100.00 27	100.00 23	104.00 21	112.00 17	133.00 15	389.00 28	361.00 23	583.00 28	2020.00 30
1960	206.00 42	210.00 42	227.00 40	288.00 43	461.00 47	889.00 51	1300.00 50	1500.00 50	1720.00 48	3290.00 45
1961	170.00 40	172.00 39	179.00 37	185.00 36	221.00 33	255.00 26	398.00 29	566.00 32	572.00 27	4480.00 55
1962	381.00 54	396.00 53	415.00 54	426.00 53	585.00 53	1030.00 53	1260.00 49	1510.00 51	2150.00 52	3840.00 48
1963	125.00 35	125.00 32	125.00 28	128.00 25	149.00 20	155.00 18	232.00 18	314.00 19	383.00 17	2500.00 37
1964	58.00 17	58.70 13	59.40 11	60.80 11	67.30 11	120.00 12	138.00 12	149.00 10	205.00 10	803.00 3
1965	76.00 26	78.00 21	84.00 19	94.80 18	106.00 15	144.00 17	143.00 13	175.00 14	331.00 15	1810.00 23
1966	256.00 48	267.00 47	304.00 48	316.00 47	474.00 48	1290.00 55	1960.00 56	1840.00 53	2110.00 51	4000.00 51
1967	60.00 13	62.00 14	69.00 13	77.40 13	83.40 13	128.00 13	130.00 11	159.00 11	227.00 12	2010.00 29
1968	124.00 33	125.00 33	129.00 29	144.00 29	237.00 34	341.00 31	422.00 31	434.00 28	818.00 35	1380.00 14
1969	125.00 34	129.00 35	141.00 32	161.00 30	251.00 35	294.00 30	299.00 23	326.00 20	460.00 24	1690.00 20
1970	231.00 44	236.00 43	243.00 41	250.00 39	267.00 38	345.00 32	502.00 35	640.00 33	748.00 33	3070.00 44
1971	350.00 53	360.00 52	376.00 52	416.00 52	516.00 51	979.00 52	1550.00 51	1840.00 54	3050.00 54	3770.00 46



STATION NUMBER 05474000

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

SKUNK RIVER AT AUGUSTA, IOWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1915	22000.0 23	19600.0 24	18100.0 20	15500.0 11	11500.0 10	7600.0 15	7030.0 12	6210.0 10	5230.0 10	3440.0 10
1916	30300.0 5	27400.0 9	18800.0 18	10300.0 35	6980.0 36	5490.0 33	5370.0 25	4970.0 22	4420.0 16	3030.0 14
1917	27000.0 12	25700.0 11	21700.0 7	18600.0 6	12100.0 8	8320.0 12	6110.0 15	5440.0 19	3790.0 23	2030.0 29
1918	25000.0 16	23300.0 17	18300.0 15	12900.0 21	9730.0 18	6100.0 29	4280.0 34	3490.0 36	2560.0 39	1430.0 44
1919	21400.0 24	19700.0 23	15500.0 27	10700.0 32	7970.0 32	6740.0 24	6030.0 20	5030.0 21	3610.0 26	1990.0 31
1920	24300.0 19	22500.0 18	18900.0 17	12500.0 24	9870.0 17	8460.0 10	7120.0 10	5660.0 17	4100.0 22	2870.0 18
1921	11500.0 46	10800.0 43	9560.0 42	8260.0 40	5430.0 41	3260.0 44	2640.0 47	2360.0 47	2450.0 42	1490.0 42
1922	10100.0 50	7850.0 51	5770.0 50	5050.0 48	4130.0 48	3990.0 42	3160.0 43	2850.0 42	2470.0 41	1750.0 35
1923	8320.0 53	7480.0 52	6500.0 49	5860.0 47	4180.0 47	2890.0 47	2400.0 48	2120.0 48	1590.0 49	1030.0 47
1924	25000.0 14	24800.0 14	21000.0 11	14100.0 17	8810.0 25	7020.0 19	5480.0 23	4330.0 26	4230.0 20	2640.0 23
1925	12000.0 44	9670.0 46	5630.0 51	4040.0 51	2860.0 50	2000.0 51	1670.0 52	1540.0 51	1470.0 51	1000.0 48
1926	30100.0 7	27600.0 7	21700.0 8	18700.0 5	15500.0 4	9020.0 7	6300.0 18	5850.0 15	4250.0 19	2890.0 16
1927	23400.0 21	22400.0 19	17700.0 22	12900.0 22	9190.0 19	7920.0 13	6990.0 13	6210.0 11	4670.0 15	3420.0 11
1928	19400.0 26	16900.0 31	13000.0 33	9250.0 37	6200.0 39	5370.0 35	4390.0 32	3480.0 37	3130.0 34	2270.0 24
1929	26000.0 15	23800.0 16	20600.0 13	16400.0 9	11900.0 9	11200.0 4	8720.0 4	6980.0 6	6240.0 4	3960.0 4
1930	43300.0 4	40300.0 3	29200.0 4	15300.0 12	8800.0 26	5130.0 36	3880.0 38	3230.0 39	2730.0 38	1610.0 38
1931	12700.0 43	8230.0 49	4670.0 54	3100.0 54	2330.0 55	1640.0 54	1490.0 53	1250.0 53	1160.0 52	694.0 53
1932	13700.0 29	17200.0 29	14500.0 28	13500.0 20	10300.0 14	8590.0 9	7140.0 9	6160.0 12	4970.0 12	3830.0 6
1933	19200.0 27	17000.0 30	13400.0 30	10900.0 30	9790.0 27	6000.0 30	4590.0 30	3820.0 32	3390.0 31	2080.0 28
1934	1460.0 57	1400.0 57	968.0 57	571.0 57	350.0 57	264.0 57	253.0 57	233.0 57	226.0 57	152.0 57
1935	16500.0 35	14600.0 35	11500.0 38	8940.0 38	7290.0 34	6130.0 28	5080.0 27	4070.0 29	3680.0 24	2170.0 27
1936	13000.0 42	12200.0 41	12000.0 36	10600.0 33	8690.0 28	5420.0 34	4160.0 35	3410.0 38	2420.0 43	1570.0 35
1937	13700.0 30	18000.0 27	16000.0 26	12700.0 23	11000.0 11	7020.0 20	5450.0 24	4640.0 23	3460.0 28	2010.0 30
1938	17600.0 33	14700.0 35	11300.0 39	6260.0 45	6160.0 40	4430.0 40	3780.0 41	3210.0 40	2940.0 35	1680.0 36
1939	27400.0 11	26300.0 10	21200.0 9	13900.0 18	8220.0 31	5600.0 32	4050.0 37	3520.0 35	2900.0 36	1650.0 37
1940	9450.0 51	7410.0 53	5300.0 53	3320.0 53	2450.0 54	1600.0 55	1350.0 54	1090.0 54	1160.0 53	654.0 54
1941	7920.0 54	6790.0 54	5400.0 52	3710.0 52	2610.0 52	2080.0 50	1760.0 50	1660.0 50	1540.0 50	974.0 49
1942	11000.0 47	10300.0 44	9130.0 44	7860.0 41	6320.0 38	4810.0 38	3870.0 35	3890.0 30	3650.0 25	2770.0 20
1943	29200.0 8	27400.0 8	21000.0 10	14900.0 13	8990.0 22	6450.0 26	6380.0 17	5940.0 13	4680.0 14	3100.0 13
1944	43600.0 3	37700.0 4	29800.0 3	20600.0 4	15700.0 3	12900.0 3	10800.0 3	9130.0 3	6620.0 3	3680.0 8
1945	19800.0 25	19500.0 25	17600.0 23	11900.0 26	9180.0 20	7380.0 17	7210.0 8	6680.0 8	5140.0 11	3020.0 15
1946	30500.0 6	28000.0 5	23700.0 6	16100.0 10	10300.0 15	6700.0 25	7100.0 11	5520.0 14	6110.0 6	3630.0 9
1947	28700.0 9	27900.0 6	25000.0 5	23200.0 2	21000.0 1	13500.0 1	12100.0 1	10400.0 1	7850.0 2	4400.0 3
1948	25000.0 17	23900.0 15	19400.0 16	14200.0 16	10600.0 12	7580.0 16	5740.0 21	4520.0 24	3360.0 32	1900.0 32
1949	14000.0 40	13700.0 38	12700.0 34	12000.0 25	8420.0 29	6300.0 27	4660.0 29	3870.0 31	3170.0 33	1770.0 34
1950	27900.0 10	24900.0 13	17900.0 21	11800.0 27	6810.0 37	4970.0 37	4390.0 31	4440.0 25	3400.0 29	1820.0 33
1951	22800.0 22	21200.0 22	14300.0 29	10300.0 34	8410.0 30	7770.0 14	7460.0 6	7400.0 4	5860.0 5	3300.0 12
1952	13700.0 31	17700.0 28	17000.0 24	14600.0 14	9950.0 16	6950.0 22	5590.0 22	5040.0 20	4330.0 18	2790.0 15



STATION NUMBER 05474000

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

SKUNK RIVER AT AUGUSTA, IOWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1953	15200.0 37	13400.0 40	9280.0 43	6380.0 44	5200.0 43	4740.0 39	4080.0 36	3550.0 34	2780.0 37	1540.0 40
1954	9370.0 52	8170.0 50	6470.0 49	4900.0 45	3960.0 49	2510.0 49	2130.0 49	2060.0 49	1690.0 48	882.0 51
1955	17700.0 32	15100.0 33	10000.0 40	7640.0 42	4690.0 45	3070.0 46	3410.0 42	2790.0 43	2130.0 44	1500.0 41
1956	3010.0 56	1880.0 56	1190.0 56	700.0 56	540.0 56	439.0 56	375.0 56	306.0 56	282.0 56	195.0 56
1957	5370.0 55	5330.0 55	4550.0 55	2690.0 55	2530.0 53	1910.0 52	1690.0 51	1400.0 52	1070.0 54	582.0 55
1958	11900.0 45	11100.0 42	7390.0 46	6180.0 46	5080.0 44	3680.0 43	3050.0 44	2490.0 45	2020.0 45	1250.0 45
1959	14600.0 39	13600.0 39	11800.0 37	10700.0 31	8900.0 23	6960.0 21	6610.0 16	6240.0 9	4870.0 13	2680.0 22
1960	50100.0 1	45700.0 1	37000.0 1	25500.0 1	17700.0 2	13500.0 2	11400.0 2	10100.0 2	7910.0 1	4990.0 1
1961	16300.0 36	14700.0 34	13300.0 31	11600.0 29	9020.0 21	6760.0 23	5310.0 26	4280.0 28	3520.0 27	2270.0 25
1962	24300.0 18	21900.0 21	20000.0 14	17700.0 7	14800.0 6	9510.0 6	8250.0 5	7300.0 5	6080.0 7	4520.0 2
1963	17000.0 34	15500.0 32	12400.0 35	10100.0 36	7030.0 35	4320.0 41	3870.0 40	3160.0 41	2490.0 40	1430.0 43
1964	13900.0 41	9570.0 47	8180.0 45	6730.0 43	4550.0 46	2830.0 48	2900.0 46	2420.0 46	1740.0 47	965.0 50
1965	44600.0 2	41900.0 2	35400.0 2	22000.0 3	15300.0 5	8420.0 11	6830.0 14	5820.0 16	5920.0 8	3920.0 5
1966	18900.0 28	18200.0 26	16900.0 25	14400.0 15	10600.0 13	8670.0 8	6720.0 15	5540.0 18	4390.0 17	2870.0 17
1967	11000.0 48	10200.0 45	9780.0 41	8470.0 35	5280.0 42	3250.0 45	3050.0 45	2600.0 44	2020.0 46	1140.0 46
1968	10800.0 49	9150.0 48	7370.0 47	4340.0 50	2770.0 51	1720.0 53	1270.0 55	1090.0 55	921.0 55	847.0 52
1969	26300.0 13	25200.0 12	20900.0 12	17600.0 8	14500.0 7	9580.0 5	7430.0 7	6690.0 7	6120.0 5	3720.0 7
1970	24100.0 20	22300.0 20	20300.0 15	13500.0 19	7520.0 33	7070.0 18	4930.0 28	4320.0 27	4140.0 21	2690.0 21
1971	15000.0 38	14300.0 37	13300.0 32	11700.0 28	8880.0 24	5730.0 31	4280.0 33	3640.0 33	3390.0 30	2220.0 26



DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

SKUNK RIVER AT AUGUSTA, IOWA

CLASS	NUMBER OF DAYS IN CLASS																																		CFS_DAYS											
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33		34										
1915													16		41	5		20	10	25	21	43	23	27	28	27	33	13	20	5	6	2				1254590.0										
1916													2	18	17	9	11	16	28	23	23	70	30	27	16	15	16	19	11	9	2	2	2			1108936.0										
1917								1	3	8	22	40	52	22	29	14	17	11	30	9	21	18	15	5	8	6	7	6	8	5	3	1				739678.0										
1918								20	10	17	16	22	33	17	18	22	36	32	9	23	13	15	10	10	11	7	5	6	5	4	2	2				522921.0										
1919							1	1				4	22	44	23	20	36	33	18	25	8	34	23	13	8	12	16	10	5	2	5	2				727808.0										
1920																	7	20	20	46	44	28	16	22	28	29	23	24	28	14	6	3	3	5			1048696.0									
1921								2			2	2	11	23	39	55	56	28	33	17	23	10	12	11	16	9	6	8									543333.0									
1922													5	34	27	23	41	50	25	36	27	37	20	15	17	1	2										639944.0									
1923										2	12	32	32	19	21	26	35	39	39	28	41	10	7	6	3	11	2										376657.0									
1924													9	1	8	62	47	34	29	40	31	27	22	12	11	14	7	5	3	4							967794.0									
1925								1	2	6	3	28	33	47	51	55	35	27	14	20	13	10	4	5	5	2	3	1									366778.0									
1926												1	1	9	26	14	27	61	44	26	39	26	20	20	10	6	5	4	10	6	8	2					1054641.0									
1927									1		5	4	16	14	12	13	30	11	17	15	41	34	41	17	29	11	18	15	7	10	4						1249904.0									
1928										4	3	7	7	11	24	34	31	18	44	23	30	24	32	17	23	10	9	5	7	3								832597.0								
1929													1	2	9	17	33	29	24	30	30	21	30	24	47	13	11	18	4	11	11						1446661.0									
1930								5	7	9	1	1	3	10	3	32	37	31	42	28	29	35	31	19	11	6	11	7		1		1	1	1	3			588526.0								
1931										1	31	15	11	18	10	10	36	21	41	39	35	20	14	9	12	10	6	10	1	7	3	3	1	1				253170.0								
1932																		8	28	18	23	26	33	41	51	28	29	24	18	16	19	4					1402987.0									
1933											3	3	11	8	15	20	23	28	49	33	17	30	14	30	11	7	11	8	11	12	7	4					760506.0									
1934				6	2					2	17	16	23	23	47	82	33	15	33	22	25	5	2	3	5	2	1	1										55661.0								
1935										1		8	8	11	19	5	8	5	13	12	17	8	21	18	21	26	32	23	33	15	16	26	6	6	6	1		791499.0								
1936											3	7	19	39	11	19	15	16	14	24	32	32	29	22	27	19	9	5	3	5	12	4						572992.0								
1937												5	8	7	29	10	22	33	32	22	14	23	25	27	20	24	11	14	8	2	5	9	7					733705.0								
1938										4	5	6	13	20	32	15	10	8	1	1	12	17	31	21	15	20	32	24	24	21	8	7	6	3	5	3		613689.0								
1939													1	9	20	33	54	28	32	31	16	23	15	23	16	21	13	9	6	3	4	3	1	3	1		601612.0									
1940										7	17	14	9	5	9	18	41	43	15	9	18	12	16	5	33	25	15	16	14	11	4	4		1	1			239391.0								
1941													1	8	27	29	26	24	37	41	36	30	27	37	13	12	8	2	6	1								355497.0								
1942																		4	4	10	11	26	47	57	52	52	31	28	22	12	5							1011517.0								
1943																			6	17	4	20	37	38	37	41	32	35	18	24	17	16	9	4	6	2	2	1122143.0								
1944																			3	18	14	15	47	44	24	22	27	19	27	25	7	13	18	17	10	6	4	4	2	1348508.0						
1945																				1	44	29	33	36	31	18	11	6	19	20	43	40	20	4	5	5			1102523.0							
1946																				3	29	27	23	21	17	31	32	36	38	14	24	16	21	11	9	2	9	2	1325422.0							
1947													1	3	6	14	11	33	25	22	30	21	24	25	32	15	23	12	10	14	13	14	13	4					1607678.0							
1948														6	17	26	21	25	17	46	51	18	22	14	22	12	20	12	6	3	6	9	6	4	3				694084.0							
1949															9	19	16	27	16	13	26	19	27	35	30	20	23	19	18	10	4	7	5	13	5				645979.0							
1950																1	2	8	38	34	32	16	19	16	12	13	20	22	24	24	22	11	10	7	10	6	11	1	2	3	1	663625.0				
1951																				1	15	26	19	47	12	7	4	2	1	1	8	11	21	14	17	6	16	24	23	27	19	30	5	3	2	1206249.0
1952																					1	6	3	8	17	22	31	29	26	49	42	31	39	25	10	5	8	7	7				1022965.0			



STATION NUMBER 05474000

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

SKUNK RIVER AT AUGUSTA, IOWA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34				
YEAR	NUMBER OF DAYS IN CLASS																																	CFS_DAYS					
1953								1	12	15	9	36	15	15	15	25	29	19	13	11	15	28	23	28	21	15	11	4	2	3							563579.0		
1954				16	6	14	58	26	24	12	9	12	6	17	14	29	21	17	9	10	13	6	7	9	25	3	1	1									322011.0		
1955							14	9	6	12	6	3	5	4	18	48	41	32	28	35	37	11	19	11	7	2	5	10	1	1							548756.0		
1956					3	28	19	42	33	44	32	29	45	23	11	10	12	11	6	7	5	4			2													71243.0	
1957					38	33	28	14		9	2	1	6	25	25	30	22	15	20	24	21	9	12	12	7	5	7											212532.0	
1958										5	10	5	16	25	30	37	25	52	35	23	14	19	15	13	15	8	11	3	4								457570.0		
1959												30	28	20	28	27	15	9	15	14	13	12	15	29	16	19	32	22	13	8							979741.0		
1960																9	8	17	30	46	36	23	19	22	25	21	22	26	19	21	10	5	4	1	2		1824978.0		
1961														18	31	20	40	28	38	27	22	18	16	32	16	11	14	14	12	7	1						828227.0		
1962																10	4	16	9	7	6	12	40	61	50	30	27	27	16	13	21	8	8				1649324.0		
1963																9	31	21	13	47	41	39	23	25	19	27	14	17	8	10	7	7	4	3	1		523773.0		
1964																																						353066.0	
1965																																							1430870.0
1966																																							1046126.0
1967																																							415804.0
1968																																							310077.0
1969																																							1357446.0
1970																																							981885.0
1971																																							808598.0

CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT
0	0.00	0	20819	100.0	9	59.00	345	20029	96.2	18	640.0	1407	12086	58.1	27	7100	506	1587	7.6
1	7.00	6	20819	100.0	10	77.00	451	19684	94.5	19	840.0	1438	10679	51.3	28	9200	453	1081	5.1
2	9.10	2	20813	100.0	11	100.00	551	19233	92.4	20	1100.0	1228	9241	44.4	29	12000	306	628	3.0
3	12.00	45	20811	100.0	12	130.00	765	18682	89.7	21	1400.0	1578	8013	38.5	30	16000	176	322	1.5
4	16.00	76	20766	99.7	13	170.00	817	17917	86.1	22	1900.0	1185	6425	30.9	31	20000	108	146	.7
5	20.00	99	20690	99.4	14	220.00	975	17100	82.1	23	2400.0	1262	5250	25.2	32	27000	27	38	.1
6	26.00	124	20541	98.9	15	290.00	1130	16125	77.5	24	3200.0	858	3988	19.2	33	35000	9	11	.0
7	35.00	223	20467	98.3	16	380.00	1282	14945	71.8	25	4100.0	640	3130	15.0	34	45000	2	2	
8	45.00	215	20244	97.2	17	490.00	1577	13663	65.6	26	5400.0	703	2290	11.0					



STATION NUMBER 05476500

LOWEST MEAN DISCHARGE, IN CFS, AND FLOODING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

DES MOINES RIVER AT ESTHERVILLE, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1953	1.50 5	1.93 6	4.39 7	8.55 8	10.00 8	11.30 7	11.50 6	11.60 5	15.00 5	424.00 14
1954	3.20 7	3.23 7	3.30 6	3.51 6	5.79 6	11.30 8	18.80 9	17.90 8	36.90 9	446.00 15
1955	12.00 11	12.00 11	12.90 11	13.90 10	14.50 10	20.30 10	32.50 14	45.00 15	56.80 12	176.00 9
1956	0.60 2	0.73 2	0.86 2	1.00 2	1.07 2	1.10 2	1.19 2	1.54 2	1.71 2	44.10 3
1957	0.60 3	0.87 3	1.00 3	1.11 3	1.58 3	3.17 4	5.20 4	7.05 3	6.67 3	37.10 1
1958	15.00 13	15.30 13	15.90 13	17.00 13	22.10 15	31.70 16	44.50 16	55.30 16	65.80 15	144.00 6
1959	0.20 1	0.27 1	0.43 1	0.50 1	0.62 1	0.77 1	0.94 1	1.16 1	1.04 1	40.20 2
1960	1.00 4	1.33 4	1.74 4	2.23 5	2.57 5	6.46 5	12.50 7	13.80 6	26.10 6	75.20 4
1961	18.00 16	18.00 16	18.00 15	18.40 15	22.70 16	34.80 17	50.60 17	67.30 17	144.00 18	502.00 16
1962	15.00 14	15.30 14	15.60 12	16.50 11	21.80 13	24.60 13	27.00 12	34.20 11	42.50 10	185.00 10
1963	5.40 8	5.40 8	5.40 8	5.92 7	8.73 7	9.90 6	11.00 5	15.50 7	30.60 7	627.00 17
1964	14.00 12	14.70 12	16.60 14	18.00 14	19.80 12	22.60 12	24.70 10	35.20 12	68.60 13	260.00 11
1965	17.00 15	17.00 15	18.40 16	21.60 17	26.70 17	30.70 15	34.50 15	37.30 13	65.00 14	165.00 7
1966	27.00 18	27.00 18	27.70 18	31.40 18	38.30 18	55.50 18	98.10 18	124.00 18	123.00 17	769.00 18
1967	11.00 10	11.30 10	12.60 10	16.90 12	18.20 11	21.50 11	26.80 11	33.40 9	36.10 8	134.00 5
1968	1.70 6	1.70 5	1.74 5	1.86 4	2.53 4	3.02 3	5.08 3	7.32 4	5.43 4	167.00 8
1969	6.30 9	7.07 9	8.20 9	11.10 9	13.00 9	19.10 9	20.20 9	33.50 10	73.20 16	310.00 12
1970	21.00 17	21.00 17	21.00 17	21.00 16	21.90 14	26.60 14	32.40 13	41.00 14	54.70 11	933.00 19
1971	29.00 19	30.30 19	35.30 19	39.40 19	40.50 19	78.80 19	115.00 19	142.00 19	188.00 19	363.00 13



STATION NUMBER 05476500

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

DES MOINES RIVER AT ESTHERVILLE, IOWA

YEAR	1		3		7		15		30		60		90		120		183		ANNUAL	
1952	4880.0	5	4750.0	5	4420.0	4	3980.0	4	3110.0	4	1920.0	4	1430.0	4	1220.0	4	858.0	4	472.0	4
1953	7560.0	3	6010.0	3	4120.0	5	3050.0	5	2470.0	5	1660.0	6	1310.0	6	1130.0	5	850.0	5	435.0	5
1954	1220.0	15	1090.0	15	1010.0	13	932.0	12	780.0	11	572.0	11	444.0	13	446.0	12	329.0	12	181.0	13
1955	709.0	17	664.0	17	508.0	17	383.0	17	350.0	16	302.0	16	231.0	16	183.0	16	132.0	16	86.1	16
1956	283.0	20	232.0	20	178.0	20	166.0	20	108.0	20	74.4	20	64.5	20	56.2	20	50.7	20	26.5	20
1957	1150.0	16	1040.0	16	886.0	14	854.0	14	481.0	15	364.0	15	314.0	15	275.0	15	238.0	15	125.0	15
1958	389.0	19	350.0	19	325.0	19	297.0	19	267.0	18	195.0	17	153.0	17	129.0	17	104.0	17	73.2	17
1959	2160.0	9	1560.0	10	871.0	15	489.0	16	268.0	17	153.0	18	106.0	19	85.7	19	59.4	19	31.4	19
1960	4040.0	6	3840.0	6	3450.0	6	3040.0	6	2450.0	6	1730.0	5	1400.0	5	1120.0	6	795.0	6	427.0	7
1961	4040.0	7	3390.0	7	2310.0	8	1520.0	8	1010.0	10	705.0	10	645.0	9	568.0	9	411.0	9	251.0	9
1962	5440.0	4	5310.0	4	5010.0	3	4350.0	3	3610.0	3	2340.0	3	1890.0	3	1780.0	3	1260.0	3	652.0	3
1963	1900.0	10	1870.0	9	1630.0	9	1510.0	9	1360.0	8	962.0	8	790.0	8	636.0	8	467.0	8	254.0	8
1964	1420.0	11	1190.0	13	1060.0	11	967.0	11	765.0	12	527.0	14	407.0	14	324.0	14	262.0	14	165.0	14
1965	9660.0	2	9150.0	2	8160.0	2	6320.0	2	4290.0	2	3060.0	2	2430.0	2	1910.0	2	1270.0	2	672.0	2
1966	1300.0	13	1230.0	12	857.0	16	635.0	15	572.0	14	564.0	12	513.0	11	442.0	13	320.0	13	216.0	10
1967	1290.0	14	1180.0	14	1060.0	12	930.0	13	736.0	13	543.0	13	453.0	12	480.0	11	385.0	10	210.0	12
1968	597.0	18	480.0	18	414.0	18	321.0	18	225.0	19	151.0	19	126.0	18	101.0	18	73.2	18	42.0	18
1969	15900.0	1	15300.0	1	13300.0	1	9840.0	1	6490.0	1	3790.0	1	2810.0	1	2640.0	1	1830.0	1	1180.0	1
1970	1400.0	12	1300.0	11	1280.0	10	1170.0	10	1080.0	9	773.0	9	601.0	10	507.0	10	383.0	11	214.0	11
1971	3540.0	8	3190.0	8	2630.0	7	2060.0	7	1650.0	7	1140.0	7	888.0	7	870.0	7	681.0	7	433.0	6



STATION NUMBER 0547650C

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

DES MOINES RIVER AT ESTHERVILLE, IOWA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	CFS_DAYS	
YEAR	NUMBER OF DAYS IN CLASS																																	CFS_DAYS			
1952																																				172595.0	
1953								2	1	1	3	5	38	87	19	4	9	5	6	8	7	11	18	44	31	23	15	9	15	1	1	2			158807.7		
1954										16	3	6	19	41	28	14	19	36	22	28	22	24	28	21	14	17	7									66185.6	
1955						2	8	10	18	14	7	10	6	13	40	18	7	25	47	37	30	12	24	26	7	4										31410.4	
1956						1	23	75	24	31	14	5	12	15	16	34	34	19	26	10	10	8	7	2												5681.2	
1957						1	4	14	16	20	17	13	24	29	20	11	3	8	8	26	31	36	33	12	22	9	6	2								45596.9	
1958																																					26714.9
1959																																					11443.0
1960																																					156232.9
1961																																					91589.0
1962																																					238147.0
1963																																					92728.0
1964																																					60552.0
1965																																					245159.0
1966																																					78965.0
1967																																					76791.0
1968																																					15362.2
1969																																					428991.0
1970																																					78210.0
1971																																					158205.0

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	7305	100.0	9	3.10	105	6787	92.9	18	66.0	448	3783	51.8	27	1400	121	325	4.4
1	0.20	4	7305	100.0	10	4.30	73	6682	91.5	19	93.0	565	3335	45.7	28	2000	85	204	2.7
2	0.30	1	7301	99.9	11	6.10	97	6609	90.5	20	130.0	440	2770	37.9	29	2800	61	119	1.6
3	0.40	15	7300	99.9	12	8.50	246	6512	89.1	21	180.0	476	2330	31.9	30	4000	33	58	.7
4	0.60	40	7285	99.7	13	12.00	393	6266	85.8	22	260.0	382	1854	25.4	31	5600	13	25	.3
5	0.80	105	7245	99.2	14	17.00	480	5873	80.4	23	360.0	412	1472	20.2	32	7900	7	12	.1
6	1.10	129	7140	97.7	15	24.00	457	5393	73.8	24	510.0	273	1060	14.5	33	11000	5	5	.0
7	1.50	119	7011	96.0	16	33.00	565	4936	67.6	25	720.0	279	787	10.8	34	16000			
8	2.20	106	6893	94.4	17	47.00	588	4371	59.8	26	1000.0	183	508	7.0					



STATION NUMBER 05476750

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

DES MOINES RIVER AT HUMBOLDT, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1966	94.00 6	98.00 6	102.00 6	111.00 6	145.00 6	220.00 6	286.00 6	364.00 6	425.00 6	1430.00 5
1967	40.00 2	42.30 2	44.10 2	45.60 2	49.10 2	50.40 2	57.10 2	68.70 2	74.70 2	310.00 1
1968	20.00 1	20.00 1	21.00 1	23.10 1	26.70 1	33.20 1	38.70 1	43.40 1	53.60 1	346.00 2
1969	45.00 3	48.70 3	56.70 3	61.70 3	68.10 3	84.80 3	99.00 3	117.00 3	159.00 3	534.00 3
1970	87.00 5	87.70 5	90.10 5	98.00 5	103.00 4	112.00 4	133.00 4	167.00 4	233.00 4	1710.00 6
1971	79.00 4	79.00 4	80.10 4	86.30 4	114.00 5	162.00 5	214.00 5	250.00 5	289.00 5	750.00 4



STATION NUMBER 0547675C

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

DES MOINES RIVER AT HUMBOLET, IOWA

YEAR	1	2	3	4	5	6	7	15	20	30	60	90	120	183	ANNUAL					
1965	14200.0	2	14000.0	2	13300.0	2	11300.0	2	7970.0	2	5460.0	2	4340.0	1	3400.0	2	2350.0	2	1340.0	2
1966	7540.0	6	7400.0	6	2000.0	6	1510.0	6	1180.0	6	999.0	6	901.0	6	826.0	6	650.0	6	496.0	4
1967	3550.0	5	3240.0	5	2830.0	4	2280.0	4	1850.0	4	1230.0	5	956.0	5	917.0	5	704.0	5	391.0	6
1968	761.0	7	655.0	7	568.0	7	387.0	7	305.0	7	236.0	7	217.0	7	198.0	7	159.0	7	107.0	7
1969	17800.0	1	17300.0	1	15600.0	1	11900.0	1	8620.0	1	5700.0	1	4320.0	2	4380.0	1	2290.0	1	2040.0	1
1970	3920.0	4	3500.0	4	2810.0	5	1950.0	5	1790.0	5	1580.0	4	1250.0	4	1060.0	4	798.0	4	486.0	5
1971	5300.0	3	4850.0	3	4670.0	3	4060.0	3	3790.0	3	2520.0	3	2060.0	3	1580.0	3	1570.0	3	929.0	3



STATION NUMBER 05476750

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

DES MOINES RIVER AT HUMBOLDT, IOWA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	CFS_DAYS
YEAR	NUMBER OF DAYS IN CLASS																																			
1965							7	25	32	25	42	22	18	33	20	17	12	8	11	10	6	6	16	24	7	5	2	4	3	2	6	2		488534.0		
1966				3	13	33	30	12	15	18	9	11	42	45	36	31	37	12	6	5	5	2												181211.0		
1967				10	44	29	31	30	45	12	4	18	11	12	16	19	17	13	14	13	10	4	5	5	2	1								142551.0		
1968	9	15	15	32	31	59	78	28	29	15	11	11	8	6	8	7	3	1																39216.0		
1969										4	19	31	19	19	22	14	18	23	18	18	17	13	19	22	22	15	13	18	8	4	2	2	5	745263.0		
1970								9	72	25	13	39	42	32	29	14	17	12	12	7	9	15	13	2	2	1								177244.0		
1971								9	22	20	15	21	12	9	43	19	15	26	24	29	15	19	15	12	6	13	8	12	1					339073.0		

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	2556	100.0	9	100.00	221	2049	80.2	18	660.0	116	736	28.8	27	4200	30	89	3.4
1	20.00	9	2556	100.0	10	130.00	115	1828	71.5	19	810.0	118	620	24.3	28	5100	21	59	2.3
2	25.00	15	2547	99.6	11	160.00	108	1713	67.0	20	990.0	76	502	19.6	29	6300	12	38	1.4
3	30.00	15	2532	99.1	12	190.00	171	1605	62.8	21	1200.0	71	426	16.7	30	7700	7	26	1.0
4	37.00	42	2517	98.5	13	240.00	120	1434	56.1	22	1500.0	58	355	13.9	31	9500	4	19	.7
5	45.00	75	2475	96.8	14	290.00	141	1314	51.4	23	1800.0	60	297	11.6	32	12000	8	15	.5
6	56.00	91	2400	93.9	15	350.00	169	1173	45.9	24	2300.0	53	237	9.3	33	14000	7	7	.2
7	69.00	131	2305	90.3	16	440.00	134	1004	39.3	25	2800.0	63	184	7.2	34	18000			
8	84.00	129	2178	85.2	17	540.00	134	870	34.0	26	3400.0	32	121	4.7					



STATION NUMBER 05478000

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

EAST FORK DES MOINES RIVER NEAR BURT, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1953	2.20 11	2.40 12	2.80 12	3.36 12	3.57 12	4.07 10	4.41 10	4.49 8	8.09 9	165.00 14
1954	0.40 4	0.40 4	0.40 4	0.40 4	0.63 4	1.86 4	3.45 5	3.69 4	4.12 4	111.00 8
1955	5.30 15	5.33 15	5.56 15	5.81 15	6.29 14	9.02 12	15.40 16	23.10 15	46.70 14	156.00 13
1956	0.10 2	0.13 2	0.20 2	0.24 2	0.47 2	0.67 2	0.73 2	0.74 2	0.76 2	45.30 4
1957	0.20 3	0.20 3	0.23 3	0.28 3	0.43 3	0.88 3	1.33 3	1.67 3	1.83 3	17.00 1
1958	0.90 5	0.90 5	0.93 5	1.11 5	1.63 5	2.63 5	3.64 6	5.50 10	5.04 6	31.90 3
1959	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.08 1	0.26 1	0.41 1	0.53 1	23.30 2
1960	1.10 6	1.27 6	1.64 8	2.29 9	3.31 11	11.90 16	14.30 15	16.00 12	24.30 13	55.00 5
1961	1.70 9	1.70 9	1.70 9	1.82 7	2.70 8	3.54 9	3.97 9	4.21 6	6.64 8	196.00 16
1962	5.60 16	5.33 17	5.91 17	6.21 16	8.31 17	10.40 15	11.30 12	14.20 11	23.30 12	116.00 9
1963	5.60 17	5.67 16	5.80 16	6.27 17	8.28 16	10.10 13	11.90 13	18.30 14	54.70 16	242.00 17
1964	2.20 12	2.27 11	2.30 11	2.36 10	2.71 9	3.19 7	3.73 8	4.60 9	9.19 10	126.00 10
1965	9.70 19	11.10 19	13.70 19	15.10 19	17.50 19	21.00 18	26.30 17	29.90 17	69.10 18	144.00 12
1966	3.60 13	3.93 14	4.80 14	5.49 14	6.05 13	12.10 17	33.80 18	44.00 18	51.60 15	325.00 18
1967	1.90 10	2.00 10	2.29 10	2.61 11	2.73 10	3.38 8	3.66 7	4.08 5	4.48 5	69.40 7
1968	1.50 8	1.53 8	1.57 6	1.61 6	1.96 6	2.79 6	3.23 4	4.39 7	6.43 7	67.40 6
1969	3.60 14	3.83 13	4.46 13	5.39 13	6.50 15	33.20 19	43.70 19	70.50 19	74.30 19	141.00 11
1970	6.80 18	6.87 18	7.17 18	7.96 18	8.60 18	10.30 14	12.40 14	16.40 13	21.50 11	377.00 19
1971	1.20 7	1.40 7	1.63 7	1.91 8	2.53 7	6.34 11	9.39 11	24.50 16	60.00 17	168.00 15



STATION NUMBER 05478000

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

EAST FORK DES MOINES RIVER NEAR RLRT, ICWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1952	1380.0 8	1550.0 8	1350.0 8	1150.0 8	1010.0 6	679.0 5	493.0 6	466.0 5	346.0 5	217.0 5
1953	1060.0 11	1030.0 11	964.0 11	810.0 11	550.0 11	407.0 10	350.0 10	365.0 8	265.0 9	135.0 9
1954	3590.0 2	3170.0 2	2610.0 3	1750.0 4	1110.0 5	613.0 6	447.0 8	354.0 9	256.0 10	133.0 10
1955	670.0 14	630.0 14	500.0 15	316.0 16	209.0 17	191.0 15	182.0 15	151.0 15	104.0 15	70.5 15
1956	220.0 20	193.0 20	176.0 20	128.0 19	73.3 20	50.8 20	40.6 20	39.5 20	35.2 20	18.1 20
1957	392.0 18	372.0 18	328.0 18	261.0 18	194.0 18	133.0 18	99.9 18	87.7 18	62.6 18	32.3 18
1958	350.0 19	290.0 19	200.0 19	115.0 20	92.4 19	72.9 19	66.1 19	61.4 19	42.9 19	23.7 19
1959	652.0 15	617.0 15	464.0 16	398.0 15	272.0 15	155.0 16	109.0 16	91.2 17	64.1 17	33.1 17
1960	2120.0 6	2070.0 6	1790.0 6	1410.0 5	969.0 7	602.0 7	555.0 5	449.0 6	300.0 6	167.0 6
1961	2690.0 4	2380.0 4	1920.0 5	1410.0 6	958.0 8	600.0 8	473.0 7	389.0 7	269.0 7	140.0 8
1962	2400.0 5	2300.0 5	2130.0 4	1760.0 3	1320.0 3	792.0 3	568.0 4	543.0 3	445.0 3	236.0 3
1963	1590.0 9	1420.0 9	1150.0 9	914.0 9	771.0 9	514.0 9	393.0 9	327.0 10	267.0 8	156.0 7
1964	1470.0 10	1340.0 10	1070.0 10	844.0 10	582.0 10	320.0 11	224.0 12	185.0 13	220.0 11	115.0 11
1965	4500.0 1	4000.0 1	3630.0 1	2870.0 1	2050.0 1	1450.0 1	1120.0 1	861.0 2	575.0 2	322.0 2
1966	843.0 12	805.0 12	658.0 12	467.0 13	344.0 12	251.0 13	200.0 13	187.0 12	146.0 12	95.3 12
1967	638.0 13	658.0 13	601.0 13	482.0 12	337.0 13	203.0 14	184.0 14	169.0 14	140.0 13	74.9 14
1968	570.0 17	542.0 17	421.0 17	272.0 17	217.0 16	147.0 17	108.0 17	96.4 16	74.3 16	40.4 16
1969	3930.0 3	3060.0 3	2780.0 2	2370.0 2	1710.0 2	1180.0 2	999.0 2	1040.0 1	748.0 1	464.0 1
1970	600.0 16	573.0 16	503.0 14	406.0 14	319.0 14	273.0 12	225.0 11	198.0 11	137.0 14	75.7 13
1971	1710.0 7	1600.0 7	1390.0 7	1280.0 7	1150.0 4	758.0 4	593.0 3	532.0 4	386.0 4	224.0 4



STATION NUMBER 05478000

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

EAST FORK DES MOINES RIVER NEAR BURT, IOWA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	
YEAR	NUMBER OF DAYS IN CLASS																																	CFS_DAYS		
1952																	5	2	32	31	21	45	44	50	40	31	16	9	13	18	7	2	79244.0			
1953								1	2	15	23	70	61	15	2	5	3	3	6	10	12	5	21	27	21	28	14	12	5	49316.7						
1954					14	6	3	10	6	21	32	22	19	13	9	7	9	8	34	35	30	17	17	16	7	6	4	7	3	3	2	2	3	48405.1		
1955	4	5	2	4	12	7	10	14	15	4	3	22	31	7	6	8	30	23	33	30	25	29	12	12	8	3	6	25736.1								
1956			7	4	1	29	95	33	8	4	11	14	10	17	12	24	23	16	16	15	7	3	8	7	2	6606.5										
1957			5	7	3	11	10	29	13	59	40	22	8	10	10	9	11	13	19	21	15	9	21	5	6	4	11806.3									
1958				2	1	13	4	31	8	30	38	20	17	41	30	29	13	11	18	15	12	13	11	5	2	1	8648.5									
1959	39	9	4	3	2	49	24	31	4	12	14	20	11	12	16	18	14	9	14	13	10	9	12	5	1	3	1	6	12075.3							
1960									7	6	7	4	12	33	24	19	49	49	20	10	14	16	16	23	17	10	9	10	5	5	1	61232.0				
1961								7	9	6	72	35	17	5	18	25	16	11	9	7	9	26	29	13	16	11	6	5	4	3	2	50989.4				
1962											10	9	32	46	18	15	32	27	14	13	31	22	19	8	23	12	16	8	6	4	86299.2					
1963											8	10	27	35	15	3	33	38	53	24	25	23	13	19	12	15	7	4	1	57074.4						
1964											12	23	40	22	19	12	36	28	21	28	14	16	11	18	8	14	5	14	17	5	3	41935.4				
1965											7	12	13	5	23	28	44	21	36	23	20	15	13	13	10	7	20	20	14	6	4	4	3	117496.2		
1966											7	17	4	15	12	21	15	20	24	50	48	41	27	25	21	7	5	4	2	34799.8						
1967											7	51	34	57	12	13	10	12	11	10	22	18	27	29	18	13	7	10	4	27342.3						
1968											14	11	32	21	32	65	40	15	12	24	20	14	14	6	14	14	8	1	4	1	14775.5					
1969																4	8	30	28	34	27	14	19	20	28	26	18	44	27	10	11	12	5	169206.0		
1970																																				27642.6
1971																																				81813.6

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	39	7305	100.0	9	1.80	218	6669	91.3	18	32.0	460	3652	50.0	27	570	188	474	6.4
1	0.10	13	7266	99.5	10	2.50	303	6451	88.3	19	44.0	446	3192	43.7	28	790	135	286	3.9
2	0.20	21	7253	99.3	11	3.40	387	6148	84.2	20	61.0	423	2746	37.6	29	1100	72	151	2.0
3	0.30	24	7232	99.0	12	4.70	341	5761	78.9	21	83.0	360	2323	31.8	30	1500	39	79	1.0
4	0.40	27	7208	98.7	13	6.40	339	5420	74.2	22	110.0	453	1963	26.9	31	2100	25	40	.5
5	0.50	123	7181	98.3	14	8.90	309	5081	69.6	23	160.0	361	1510	20.7	32	2800	12	15	.2
6	0.70	143	7058	96.6	15	12.00	357	4772	65.3	24	220.0	297	1149	15.7	33	3900	3	3	.0
7	0.90	153	6910	94.6	16	17.00	310	4375	59.9	25	300.0	212	852	11.7	34				
8	1.30	48	6757	92.5	17	23.00	413	4065	55.6	26	410.0	166	640	8.8					



## STATION\_NUMBER 5-4785.00

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## EAST FORK DES MOINES RIVER NEAR HARDY, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1942	36.0 11	37.7 11	40.3 11	44.6 11	59.6 11	171.0 13	403.0 13	568.0 13	678.0 13	804.0 11
1943	20.0 7	21.3 7	23.3 7	24.5 7	32.5 8	39.2 8	49.9 7	70.1 8	107.0 7	391.0 5
1944	45.0 12	48.3 12	49.3 12	51.1 12	51.3 12	96.2 11	125.0 11	151.0 10	197.0 10	489.0 8
1945	26.0 8	26.7 8	27.4 8	28.8 8	29.4 7	34.4 7	53.9 8	71.1 9	164.0 9	779.0 10
1946	31.0 9	32.0 9	32.6 9	33.4 9	41.9 9	48.8 9	55.0 9	58.5 7	159.0 8	843.0 12
1947	31.0 10	33.2 10	33.9 10	36.9 10	53.5 10	87.0 10	117.0 10	173.0 11	206.0 11	468.0 7
1948	15.0 4	15.0 4	15.0 4	15.5 4	16.5 3	25.1 6	32.7 6	34.5 6	34.3 4	735.0 9
1949	5.0 1	5.8 1	6.7 1	7.9 1	9.2 1	13.6 1	18.5 2	20.6 2	26.4 2	243.0 2
1950	6.3 2	6.4 2	7.0 2	8.4 2	12.1 2	14.5 2	16.8 1	18.4 1	18.3 1	204.0 1
1951	16.0 5	16.0 5	16.0 5	16.4 5	17.8 5	20.3 4	21.3 3	23.7 4	40.7 6	276.0 4
1952	71.0 13	71.7 13	72.9 13	74.7 13	80.1 13	111.0 12	153.0 12	206.0 12	323.0 12	1190.0 13
1953	17.0 6	18.3 6	19.0 6	19.2 6	20.3 6	22.0 5	23.5 4	26.1 5	34.8 5	445.0 6
1954	14.0 3	14.0 3	14.4 3	15.4 3	16.9 4	20.0 3	24.1 5	23.4 3	29.7 3	263.0 3



STATION\_NUMBER 5-4785.00

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

EAST FORK DES MOINES RIVER NEAR HARDY, IOWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1941	2290.0 12	2250.0 12	2150.0 12	1710.0 12	1470.0 11	1020.0 12	948.0 11	963.0 10	759.0 10	512.0 8
1942	3570.0 8	3390.0 8	3040.0 7	2590.0 6	2090.0 7	1580.0 7	1290.0 6	1080.0 8	937.0 6	706.0 4
1943	2350.0 11	2310.0 11	2250.0 11	1960.0 10	1470.0 12	1160.0 10	1120.0 8	975.0 9	839.0 9	527.0 7
1944	8420.0 4	7560.0 4	5940.0 4	4200.0 4	3120.0 4	2450.0 2	1960.0 2	1610.0 4	1210.0 4	703.0 5
1945	5530.0 5	5010.0 6	4040.0 6	2590.0 7	2420.0 5	1910.0 5	1830.0 4	1770.0 2	1520.0 2	828.0 2
1946	5280.0 7	3960.0 7	2970.0 9	1980.0 9	1540.0 10	1260.0 9	1050.0 9	1110.0 7	915.0 7	493.0 5
1947	10300.0 3	9040.0 3	6810.0 3	5490.0 3	3800.0 3	2350.0 3	1950.0 3	1770.0 3	1290.0 3	746.0 2
1948	3550.0 9	3350.0 9	2620.0 10	1950.0 11	1610.0 9	1080.0 11	840.0 12	677.0 13	487.0 13	255.0 12
1949	3210.0 10	3090.0 10	3000.0 8	2590.0 8	1960.0 8	1420.0 8	1010.0 10	806.0 11	569.0 12	300.0 12
1950	1900.0 14	1710.0 14	1260.0 14	820.0 14	629.0 14	544.0 14	518.0 14	478.0 14	409.0 14	218.0 14
1951	10400.0 2	9750.0 2	8500.0 2	6510.0 1	4920.0 1	3560.0 1	2700.0 1	2730.0 1	2050.0 1	1100.0 1
1952	5450.0 6	5030.0 5	4270.0 5	3070.0 5	2410.0 6	1620.0 6	1220.0 7	1220.0 6	941.0 5	583.0 6
1953	2000.0 13	1830.0 13	1430.0 13	1210.0 13	950.0 13	791.0 13	711.0 13	725.0 12	583.0 11	306.0 11
1954	17800.0 1	13900.0 1	10100.0 1	6360.0 2	3820.0 2	2200.0 4	1600.0 5	1270.0 5	905.0 8	473.0 10



STATION\_NUMBER 5-4785.00

DURATION TABLE OF DAILY DISCHARGE

EAST FORK DES MOINES RIVER NEAR HARDY, IOWA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	CFS_DAYS		
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS			
1941									8	28	14	6	6	9	15	36	32	29	20	22	26	19	41	20	15	15	4											187002.0
1942													9	10	6	11	9	27	44	39	57	45	31	30	18	17	6	4	2								257757.0	
1943								1	10	3	24	26	6	20	16	15	18	13	29	13	17	27	22	39	30	19	11	6									192365.0	
1944											17	20	12	6	39	14	21	29	50	24	21	18	24	19	22	4	6	5	6	5	1	3				257451.0		
1945								1	44	5	6	4	16	30	26	11	12	10	17	17	16	16	18	21	16	24	37	13	2	2	1					302211.0		
1946									16	34	23	50	23	22	16	8	13	10	10	23	21	16	9	18	24	21	5	1	1	1							179866.0	
1947						1	3	7	8	5	12	13	12	12	24	28	24	19	32	19	19	17	35	27	9	15	8	2	4	6	2	2	1			272300.0		
1948	3	6	4	7	24	21	30	23	20	41	10	21	22	20	14	9	12	17	17	13	6	5	3	2	3	6	5	2								94687.0		
1949	1	3	8	18	14	19	43	52	23	18	13	21	9	22	11	8	11	12	1	6	11	8	5	5	7	5	11									109322.5		
1950	1	2		6	68	41	28	11	14	6	6	13	5	25	16	9	23	21	19	13	14	10	6	5	3											79510.1		
1951						9	18	64	28	5	4	2	3	2	12	6	4	4	3	14	22	27	19	29	13	7	11	23	14	13	2	4	3			400627.0		
1952									6	5	3	35	16	13	16	39	33	37	41	25	27	12	7	17	23	4	1	2	3	1							213254.0	
1953						2	25	76	36	33	16	4	5	4	9	8	5	14	10	26	18	24	22	12	14	2											111870.0	
1954						22	42	33	13	15	22	13	11	12	32	22	11	18	21	13	18	9	11	4	4	4	3	2	2	1	2	1	2		2		172817.0	

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	5113	100.0	9	34.00	212	4210	82.3	18	300.0	307	2286	44.7	27	2600	67	160	3.1
1	5.00	5	5113	100.0	10	44.00	210	3999	78.2	19	380.0	291	1979	38.7	28	3300	35	93	1.8
2	6.40	11	5108	99.9	11	56.00	150	3788	74.1	20	480.0	302	1688	33.0	29	4200	31	58	1.1
3	8.10	12	5077	99.7	12	71.00	207	3639	71.2	21	620.0	271	1385	27.1	30	5400	9	27	.5
4	10.00	31	5085	99.5	13	90.00	175	3431	67.1	22	780.0	284	1115	21.8	31	6800	10	18	.3
5	13.00	140	5054	98.8	14	110.00	274	3256	63.7	23	1000.0	231	831	16.3	32	8700	6	8	.1
6	17.00	170	4914	96.1	15	150.00	219	2982	58.3	24	1300.0	183	600	11.7	33	11000	2	2	.0
7	21.00	232	4744	92.8	16	190.00	209	2763	54.0	25	1600.0	155	417	8.2	34	14000	2	2	.0
8	27.00	242	4452	87.1	17	240.00	268	2554	50.0	26	2100.0	101	261	5.1					

90% = 24.0  
50% = 24.0



STATION NUMBER 0547900C

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

EAST FORK DES MOINES RIVER AT DAKOTA CITY, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1941	18.00 16	18.30 15	19.40 16	21.40 16	28.20 16	55.80 20	65.30 20	68.80 18	81.30 16	217.00 7
1942	36.00 25	37.70 26	40.30 26	44.60 26	59.60 27	171.00 31	403.00 31	568.00 31	678.00 31	804.00 27
1943	29.00 17	21.30 17	23.30 17	24.50 17	32.50 19	39.20 18	49.90 16	70.10 19	107.00 17	351.00 14
1944	45.00 23	43.30 29	49.30 29	51.10 28	61.30 28	96.20 27	125.00 26	151.00 25	197.00 24	489.00 21
1945	26.00 21	26.70 20	27.40 19	28.80 18	29.40 17	34.40 16	53.90 18	71.10 20	164.00 22	775.00 25
1946	31.00 22	32.00 22	32.60 22	33.40 22	41.90 22	48.80 19	55.00 19	58.50 15	159.00 20	843.00 28
1947	41.00 23	33.30 23	33.90 23	36.90 23	53.50 26	87.00 23	117.00 25	173.00 27	206.00 25	468.00 18
1948	15.00 10	15.00 9	15.00 9	15.50 8	16.50 7	25.10 13	32.70 14	34.50 14	34.30 11	739.00 24
1949	5.00 1	5.80 1	6.74 1	7.87 1	9.22 2	13.60 3	18.50 5	20.60 5	28.40 7	243.00 8
1950	6.30 3	6.40 2	7.00 2	8.43 3	12.10 4	14.50 4	16.80 3	18.40 4	18.30 4	204.00 5
1951	16.00 11	16.00 10	16.00 10	16.40 10	17.80 9	20.30 9	21.30 7	23.70 8	40.70 14	278.00 11
1952	71.00 31	71.70 31	72.90 31	74.70 31	80.10 31	111.00 30	153.00 29	206.00 29	323.00 29	1150.00 31
1953	17.00 14	18.30 16	19.00 14	19.20 14	20.30 12	22.00 11	23.50 10	26.10 12	34.80 12	449.00 17
1954	14.00 9	14.00 8	14.40 7	15.40 7	16.90 8	20.00 8	24.10 11	23.40 6	29.70 8	263.00 9
1955	34.00 24	34.00 24	34.70 24	38.10 24	42.10 23	61.10 22	83.70 22	116.00 22	197.00 23	562.00 23
1956	9.30 5	10.70 5	11.40 5	12.40 5	14.10 5	15.00 5	15.20 2	15.30 2	15.60 2	181.00 4
1957	6.00 2	6.63 3	7.83 3	8.79 4	9.75 3	13.50 2	16.90 4	17.40 3	18.00 3	60.00 1
1958	12.00 6	12.70 6	13.10 6	14.00 6	15.50 6	18.20 6	20.80 6	24.20 9	24.40 5	88.80 2
1959	7.90 4	7.90 4	8.34 4	8.41 2	8.64 1	9.66 1	10.30 1	11.20 1	11.40 1	93.20 3
1960	25.00 18	26.70 21	29.10 20	31.80 20	36.60 20	87.80 24	127.00 27	128.00 24	154.00 19	326.00 12
1961	14.00 7	14.00 7	14.60 8	15.70 9	18.30 10	20.60 10	23.00 9	23.60 7	30.10 9	506.00 22
1962	52.00 30	53.70 30	57.90 30	60.20 30	76.80 30	90.70 25	97.10 23	116.00 23	162.00 21	388.00 13
1963	47.00 26	37.30 25	38.00 25	41.20 25	49.90 24	58.10 21	69.10 21	97.70 21	235.00 27	788.00 26
1964	18.00 15	18.00 14	19.40 15	20.90 15	23.40 15	26.20 14	28.50 13	33.80 13	40.40 13	397.00 15
1965	47.00 29	47.00 23	47.70 28	52.70 29	67.50 29	100.00 28	130.00 28	158.00 26	295.00 28	469.00 19
1966	40.00 27	41.30 27	42.90 27	45.10 27	53.10 25	106.00 29	233.00 30	320.00 30	488.00 30	1080.00 30
1967	14.00 3	16.70 12	17.10 12	17.70 11	18.90 11	19.50 7	22.00 8	24.30 10	26.10 6	278.00 10
1968	16.00 12	16.00 11	16.90 11	18.10 12	20.90 13	22.10 12	24.40 12	25.50 11	30.10 10	206.00 6
1969	25.00 19	26.30 19	30.00 21	33.40 21	39.50 21	91.90 26	111.00 24	181.00 28	227.00 26	413.00 16
1970	26.00 20	26.00 18	27.00 18	31.10 19	32.10 18	36.10 17	50.40 17	62.10 17	78.10 15	910.00 29
1971	17.00 13	17.30 13	17.90 13	18.50 13	22.90 14	29.10 15	39.10 15	60.90 16	115.00 18	479.00 20



STATION NUMBER 05479000

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

EAST FORK DES MOINES RIVER AT DAKOTA CITY, IOWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1941	2290.0 24	2250.0 24	2150.0 24	1710.0 23	1470.0 20	1020.0 20	948.0 18	903.0 17	759.0 16	512.0 12
1942	3570.0 17	3390.0 17	3040.0 15	2590.0 13	2090.0 13	1580.0 12	1290.0 12	1080.0 13	937.0 10	706.0 7
1943	2350.0 21	2310.0 23	2250.0 23	1960.0 20	1470.0 21	1160.0 17	1120.0 15	975.0 16	839.0 13	527.0 11
1944	6420.0 7	7500.0 7	5940.0 7	4200.0 8	3120.0 7	2450.0 4	1960.0 4	1610.0 6	1210.0 7	703.0 8
1945	5530.0 10	5010.0 10	4040.0 10	2590.0 14	2420.0 10	1910.0 9	1830.0 6	1770.0 4	1520.0 4	828.0 4
1946	5250.0 12	3960.0 13	2970.0 17	1980.0 19	1540.0 19	1260.0 16	1050.0 16	1110.0 12	915.0 11	493.0 14
1947	10300.0 5	9840.0 5	6810.0 5	5490.0 5	3800.0 6	2350.0 6	1950.0 5	1770.0 5	1290.0 6	746.0 6
1948	3550.0 10	3350.0 18	2620.0 19	1950.0 21	1610.0 18	1080.0 18	840.0 19	677.0 21	487.0 22	259.0 23
1949	3210.0 20	3090.0 19	3000.0 16	2590.0 15	1960.0 14	1420.0 14	1010.0 17	806.0 18	569.0 21	300.0 21
1950	1900.0 26	1710.0 26	1260.0 28	820.0 28	629.0 28	544.0 27	518.0 27	478.0 27	409.0 26	218.0 27
1951	10400.0 4	9750.0 4	8500.0 3	6510.0 2	4920.0 2	3500.0 2	2700.0 2	2730.0 1	2050.0 1	1100.0 2
1952	5450.0 11	5030.0 9	4270.0 9	3070.0 10	2410.0 11	1620.0 11	1220.0 14	1220.0 10	941.0 9	583.0 9
1953	2000.0 25	1850.0 25	1430.0 26	1210.0 25	950.0 25	791.0 25	711.0 23	725.0 19	583.0 20	306.0 20
1954	17800.0 1	13900.0 2	10100.0 2	6360.0 3	3820.0 5	2200.0 7	1600.0 8	1270.0 9	905.0 12	473.0 16
1955	1640.0 27	1620.0 27	1530.0 25	1060.0 26	681.0 27	603.0 26	561.0 26	512.0 26	378.0 27	276.0 22
1956	540.0 31	497.0 31	463.0 31	381.0 31	256.0 31	171.0 31	145.0 31	130.0 31	115.0 31	65.3 31
1957	873.0 30	867.0 30	797.0 29	572.0 29	458.0 29	319.0 29	237.0 29	213.0 30	154.0 30	86.4 30
1958	1240.0 29	940.0 29	715.0 30	447.0 30	284.0 30	277.0 30	231.0 30	215.0 29	163.0 29	92.8 29
1959	6420.0 3	4920.0 11	3760.0 12	2980.0 11	1890.0 16	1060.0 19	747.0 21	612.0 23	442.0 23	232.0 25
1960	4040.0 15	3860.0 15	3350.0 13	2630.0 12	1950.0 15	1280.0 15	1300.0 11	1060.0 14	737.0 17	440.0 17
1961	9170.0 6	7940.0 6	6200.0 6	4210.0 7	2710.0 9	1760.0 10	1330.0 10	1110.0 11	799.0 15	428.0 18
1962	10700.0 3	9550.0 3	7640.0 4	5880.0 4	4100.0 4	2380.0 5	1700.0 7	1510.0 7	1420.0 5	755.0 5
1963	4310.0 13	3930.0 14	3080.0 14	2330.0 17	2110.0 12	1450.0 13	1240.0 13	1030.0 15	831.0 14	510.0 13
1964	3700.0 16	3490.0 16	2920.0 18	2430.0 16	1700.0 17	941.0 21	685.0 24	572.0 24	650.0 18	345.0 19
1965	15400.0 2	15100.0 1	12600.0 1	9000.0 1	5920.0 1	3860.0 1	3020.0 1	2390.0 3	1680.0 3	985.0 3
1966	2040.0 22	2550.0 22	2410.0 22	1660.0 24	1140.0 24	842.0 23	606.0 20	724.0 20	597.0 19	477.0 15
1967	2990.0 21	2810.0 21	2450.0 20	2050.0 18	1410.0 22	813.0 24	611.0 25	557.0 25	426.0 25	230.0 26
1968	1550.0 28	1520.0 28	1400.0 27	986.0 27	743.0 26	504.0 28	366.0 28	311.0 28	227.0 28	129.0 28
1969	5850.0 9	5730.0 8	5400.0 8	4850.0 6	4250.0 3	2850.0 3	2250.0 3	2500.0 2	1890.0 2	1150.0 1
1970	3390.0 19	2990.0 20	2440.0 21	1750.0 22	1240.0 23	884.0 22	727.0 22	632.0 22	439.0 24	248.0 24
1971	4200.0 14	4080.0 12	3900.0 11	3390.0 9	3050.0 8	2060.0 8	1520.0 9	1380.0 8	1040.0 8	579.0 10



DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

FAST FORK DES MOINES RIVER AT DAKOTA CITY, IOWA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	CFS_DAYS				
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS					
1941									17	21	13	6	6	10	13	36	41	22	22	23	22	24	41	23	13	8	4										187002.0			
1942													11	8	6	11	11	31	45	45	52	46	34	25	14	15	7	4									257757.0			
1943							1	10	3	26	24	8	24	13	12	18	15	30	13	20	22	30	42	27	13	8	6										192369.0			
1944											17	20	14	12	31	14	24	32	48	23	23	23	20	24	12	5	6	5	6	3	3	1				257451.0				
1945							1	45	4	6	5	16	40	15	11	13	11	20	14	16	19	20	19	16	26	37	7	1	3								302211.0			
1946																																						179866.0		
1947						1	4	6	10	3	12	14	13	13	21	28	27	24	29	18	17	24	30	26	7	14	7	3	7	2	2	2	1				272300.0			
1948	3	6	4	7	24	29	22	25	22	38	10	21	27	14	14	13	12	14	21	8	7	4	5	1	3	8	4										94687.0			
1949	1	3	8	18	14	34	28	55	20	19	14	20	11	19	11	9	11	11	2	6	12	8	5	5	6	7	8										109322.5			
1950	1	2		6	68	53	16	13	13	5	8	12	7	22	16	12	22	28	15	10	15	10	3	5	3													79510.1		
1951						9	41	41	28	5	4	2	2	4	10	6	4	4	5	17	19	31	18	29	8	9	17	20	18	6	2	3	2					400627.0		
1952										6	5	7	36	15	9	16	48	36	33	40	19	30	13	7	15	21	3	2	3	2									213254.0	
1953						2	36	65	37	35	14	4	4	4	9	8	7	13	10	31	13	34	13	17	7	2													111870.0	
1954						22	50	25	13	18	21	11	13	21	21	22	14	16	24	14	14	13	7	4	4	4	2	3	2	1	1	2	1	1	1				172817.0	
1955						23	15	7	12	22	23	9	9	13	40	26	33	31	26	22	15	15	10	3	11															100634.0
1956	1	3	4	31	102	37	7	14	24	26	22	22	21	14	9	10	4	6	8	1																			23903.1	
1957		4	4	5	53	84	30	31	16	8	21	20	14	7	9	17	11	12	5	2	2	4																	31538.8	
1958		2	5	17	34	47	40	23	48	11	18	16	24	16	13	21	12	8	1	2	3	3	1																32864.4	
1959		2	50	47	57	6	1	14	17	18	22	11	16	18	14	15	9	10	8	5	5	1		1	7	6	2	2							1			84541.7		
1960						2	2	4	10	15	5	41	15	33	37	31	38	21	14	17	18	8	9	6	8	13	5	7	3										161076.0	
1961						10	27	60	28	11	7	9	17	24	14	9	7	20	25	15	15	23	15	7	5	5	2	3	2	1	2	2							156156.0	
1962																																								290227.0
1963																																								185974.0
1964						8	22	51	33	53	23	20	9	15	10	22	10	9	12	9	5	12	20	3	11	6	1	2											126305.0	
1965																																								359485.0
1966																																								174091.0
1967																																								83776.5
1968																																								47101.0
1969																																								420739.0
1970																																								90602.0
1971																																								211462.0



STATION NUMBER 05479000

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

EAST FORK DES MOINES RIVER AT DAKOTA CITY, IOWA

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	11322	100.0	9	35.00	550	8927	78.8	18	310.0	659	4054	35.8	27	2800	109	288	2.5
1	5.00	6	11322	100.0	10	45.00	493	8377	74.0	19	400.0	596	3395	30.0	28	3600	89	179	1.5
2	6.40	22	11316	99.9	11	57.00	509	7884	69.6	20	510.0	475	2799	24.7	29	4600	46	91	.8
3	8.10	75	11294	99.6	12	73.00	535	7375	65.1	21	650.0	505	2324	20.5	30	5800	18	45	.3
4	10.00	131	11219	99.1	13	93.00	574	6840	60.4	22	830.0	450	1819	16.1	31	7400	13	27	.2
5	13.00	430	11088	97.9	14	120.00	546	6266	55.3	23	1100.0	361	1369	12.1	32	9500	8	14	.1
6	17.00	602	10558	94.1	15	150.00	475	5720	50.5	24	1400.0	251	1008	8.9	33	12000	3	6	.0
7	27.00	431	10056	88.8	16	190.00	624	5245	46.3	25	1700.0	277	757	6.7	34	15000	3	3	.0
8	27.00	648	9575	84.6	17	250.00	567	4621	40.8	26	2200.0	192	480	4.2					



STATION NUMBER 05480000

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

LIZARD CREEK NEAR CLARE, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1942	1.00 17	1.07 18	1.26 17	1.46 17	1.99 14	3.95 15	18.60 27	37.50 27	45.40 26	104.00 22
1943	2.00 21	4.00 25	4.43 26	5.29 26	7.97 26	11.20 25	12.30 23	15.70 23	22.50 24	95.80 20
1944	0.00 1	0.10 3	0.13 5	0.25 5	0.29 4	1.18 9	1.78 7	2.08 7	2.29 5	42.70 7
1945	2.00 22	2.67 21	2.86 21	2.93 21	3.77 20	4.60 17	7.50 20	9.56 19	16.30 23	144.00 24
1946	1.00 13	1.00 17	1.00 13	1.21 13	2.51 17	6.44 23	7.22 18	7.16 17	14.80 19	150.00 26
1947	0.40 10	0.50 9	0.67 10	1.40 15	3.07 19	4.56 16	6.09 17	7.57 18	6.81 13	89.10 17
1948	0.90 15	0.97 15	1.24 15	1.49 18	2.12 15	2.70 12	4.63 14	6.38 15	6.45 12	146.00 25
1949	0.30 7	0.30 7	0.33 7	0.36 7	0.41 6	0.70 5	2.88 10	3.22 10	5.11 11	63.80 12
1950	0.20 6	0.27 6	0.30 6	0.30 6	0.30 5	0.42 4	0.92 4	1.28 4	2.53 6	30.50 4
1951	1.10 20	1.30 20	1.30 18	1.34 14	1.78 12	3.05 14	3.92 12	6.11 13	16.20 22	92.00 18
1952	23.00 30	23.00 30	23.30 30	24.80 30	35.40 30	41.80 30	51.20 30	57.70 30	89.00 29	261.00 30
1953	2.60 23	2.87 22	3.23 22	3.39 22	4.42 22	5.15 19	5.12 15	5.26 12	7.75 14	88.80 16
1954	1.00 16	1.00 16	1.00 14	1.01 12	1.19 11	1.70 11	3.16 11	3.41 11	4.26 9	71.40 14
1955	5.50 27	5.50 27	5.50 27	5.71 27	7.52 25	18.10 29	26.60 28	39.30 28	72.60 28	183.00 28
1956	0.10 4	0.10 4	0.10 3	0.12 3	0.18 3	0.30 3	0.44 2	0.73 2	1.10 2	25.50 3
1957	0.00 2	0.00 1	0.06 1	0.08 1	0.11 1	0.25 1	0.30 1	0.46 1	0.71 1	3.86 1
1958	0.50 11	0.50 10	0.67 11	0.93 11	2.23 16	5.75 20	5.58 16	6.93 16	11.80 15	16.40 2
1959	0.10 5	0.10 5	0.10 2	0.10 2	0.11 2	0.27 2	0.51 3	1.08 3	1.78 3	39.10 6
1960	3.60 25	3.60 24	3.86 23	5.19 25	10.00 27	13.30 27	16.80 26	18.50 25	26.40 25	73.50 15
1961	0.40 3	0.40 8	0.40 8	0.44 8	0.76 9	1.23 10	2.18 8	2.38 9	4.98 10	97.50 19
1962	7.20 29	7.67 29	8.67 29	9.07 29	11.70 29	12.80 26	14.70 24	16.10 24	16.10 21	70.90 13
1963	6.60 23	6.60 28	6.77 28	7.37 28	11.10 28	14.40 28	16.50 25	23.70 26	61.10 27	190.00 25
1964	0.60 13	0.60 12	0.60 9	0.62 9	0.71 8	1.10 7	2.25 9	2.82 8	3.70 8	50.80 9
1965	1.20 19	1.20 19	1.30 19	1.72 19	1.99 13	2.88 13	4.35 13	6.34 14	12.70 16	47.70 8
1966	2.70 24	3.43 23	4.04 24	4.44 23	5.66 24	9.45 24	27.50 29	55.00 29	94.60 30	164.00 27
1967	0.40 5	0.50 11	0.58 12	0.80 10	0.93 10	0.96 6	1.09 5	1.44 5	1.96 4	38.90 5
1968	0.00 3	0.04 2	0.12 4	0.24 4	0.57 7	1.17 8	1.68 6	1.98 6	2.82 7	55.50 10
1969	0.81 14	0.92 14	1.53 20	2.50 20	3.93 21	6.03 22	9.20 22	13.60 22	14.10 17	55.90 11
1970	4.00 26	4.03 26	4.21 25	4.46 24	5.19 23	6.00 21	7.48 19	10.30 20	15.20 20	127.00 23
1971	0.50 12	0.70 13	1.20 16	1.46 16	2.81 18	4.90 18	7.54 21	11.50 21	14.10 18	100.00 21



STATION NUMBER 05480000

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

LIZARD CREEK NEAR CLARE, IOWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1941	416.0 27	333.0 27	343.0 27	247.0 27	174.0 27	134.0 27	106.0 27	97.1 27	86.4 25	55.5 23
1942	1040.0 20	896.0 20	699.0 19	446.0 18	337.0 17	241.0 16	196.0 17	184.0 15	167.0 12	139.0 7
1943	1380.0 14	1120.0 16	765.0 16	454.0 17	298.0 20	225.0 20	187.0 20	171.0 16	147.0 15	80.4 18
1944	3320.0 5	2790.0 5	1960.0 4	1090.0 6	860.0 2	515.0 4	393.0 7	314.0 8	219.0 8	113.0 10
1945	1290.0 17	1160.0 14	873.0 14	805.0 11	572.0 9	488.0 5	409.0 5	358.0 5	273.0 6	144.0 6
1946	2420.0 10	1820.0 10	1250.0 10	714.0 12	442.0 14	282.0 14	212.0 13	232.0 12	186.0 11	97.4 12
1947	5000.0 1	3290.0 3	1880.0 5	1280.0 4	859.0 3	525.0 3	410.0 4	377.0 3	284.0 5	145.0 5
1948	1200.0 13	1010.0 18	669.0 21	414.0 21	347.0 16	241.0 17	209.0 15	165.0 18	122.0 17	64.5 19
1949	830.0 23	823.0 22	739.0 18	589.0 14	413.0 15	246.0 15	193.0 18	151.0 20	108.0 20	57.0 21
1950	850.0 22	743.0 23	645.0 22	388.0 23	250.0 23	193.0 22	171.0 21	133.0 22	103.0 21	54.9 24
1951	2950.0 7	2650.0 6	1820.0 6	1220.0 5	819.0 4	692.0 1	654.0 1	577.0 1	456.0 1	244.0 1
1952	1310.0 16	1140.0 15	852.0 15	636.0 13	475.0 12	319.0 11	266.0 10	260.0 9	219.0 9	134.0 8
1953	1070.0 19	917.0 19	693.0 20	402.0 22	321.0 19	232.0 19	189.0 19	191.0 14	153.0 14	81.9 17
1954	4700.0 3	4280.0 1	2650.0 1	1850.0 1	1160.0 1	648.0 2	480.0 2	392.0 2	290.0 3	149.0 4
1955	520.0 26	519.0 26	334.0 26	283.0 25	215.0 24	147.0 24	115.0 25	98.6 25	81.4 26	63.3 20
1956	49.0 31	55.7 31	37.9 31	25.8 31	21.1 31	12.4 31	11.5 31	10.0 31	6.8 31	3.9 31
1957	176.0 29	122.0 29	69.0 29	55.7 30	36.4 30	27.2 29	22.4 29	21.3 29	16.1 29	9.2 29
1958	930.0 21	830.0 21	508.0 24	313.0 24	189.0 26	144.0 25	107.0 26	97.8 26	73.5 27	42.9 27
1959	1350.0 15	1100.0 17	747.0 17	438.0 15	268.0 22	182.0 23	139.0 24	119.0 24	86.6 24	45.0 26
1960	3140.0 6	2260.0 7	1400.0 8	808.0 10	451.0 13	284.0 13	246.0 12	206.0 13	141.0 16	82.6 14
1961	2550.0 7	2200.0 8	1620.0 7	973.0 8	592.0 8	373.0 9	281.0 9	233.0 11	162.0 13	83.6 13
1962	5030.0 2	3710.0 2	2410.0 2	1420.0 2	782.0 5	462.0 8	433.0 3	352.0 6	363.0 2	192.0 2
1963	820.0 24	712.0 24	559.0 23	415.0 20	284.0 21	235.0 18	200.0 16	167.0 17	119.0 18	82.0 16
1964	360.0 28	291.0 28	249.0 28	214.0 28	170.0 28	119.0 26	98.5 28	82.0 28	63.7 28	34.2 28
1965	3640.0 4	2880.0 4	2070.0 3	1280.0 3	745.0 7	476.0 6	403.0 6	330.0 7	236.0 7	134.0 9
1966	711.0 25	547.0 25	410.0 25	265.0 26	212.0 25	144.0 26	148.0 23	123.0 23	97.2 23	82.1 15
1967	2660.0 5	2080.0 5	1380.0 9	937.0 9	559.0 10	304.0 12	211.0 14	160.0 19	109.0 19	56.0 22
1968	103.0 30	90.3 30	63.9 30	60.1 29	36.9 29	25.1 30	19.2 30	16.8 30	14.1 30	8.8 30
1969	1400.0 13	1330.0 12	1220.0 11	1010.0 7	778.0 6	464.0 7	358.0 8	372.0 4	289.0 4	163.0 3
1970	2230.0 11	1630.0 11	994.0 12	566.0 15	334.0 18	211.0 21	165.0 22	143.0 21	99.7 22	54.9 25
1971	1690.0 12	1320.0 13	877.0 13	544.0 16	506.0 11	363.0 10	262.0 11	246.0 10	192.0 10	103.0 11



DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

LIZARD CREEK NEAR CLARE, ICWA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	CFS_DAYS		
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS			
1941								8	14	20	30	6	3	7	18	24	20	45	39	38	32	35	7	5	9	5											20270.0	
1942														15	13	5	6	13	24	40	35	76	44	48	22	8	7	2	1								50833.5	
1943	1	1	1	1	1		7	4	2	4	2	18	13	12	27	51	31	8	31	29	32	30	22	16	10	4	3	2	2							29339.2		
1944		3	16	7	9	9	10	7	16	11	21	12	20			9	24	33	34	16	19	20	29	11	7	4	2	3	2	1	4	2			41301.7			
1945										1	17	36	24	5	21	53	10	4	9	24	22	23	28	22	20	13	11	9	8							52384.0		
1946								11		16	36	15	20	20	54	10	9	20	15	13	24	19	29	20	14	12	3	1	1	2	1					35541.4		
1947					1	3	14	10	8	20	16	11	20	46	27	12	4	4	12	5	26	27	17	20	20	20	11	5	3	1		1		1		53044.3		
1948				4	6	8	3	5	8	17	37	15	17	19	37	27	20	17	11	23	25	21	25	4	7	3	2	1	4							23620.5		
1949		1	6	13	6	10	13	6	5	40	36	21	18	20	32	11	25	31	16	15	9	6	2	4	6	9	4									20811.3		
1950			31	14	8	5	12	22	48	17	2	6	18	18	13	12	14	22	21	21	16	12	20	6	1	2	4									20046.6		
1951								10	9	8	9	19	36	13	7	10	12	11	9	8	9	30	28	24	35	23	19	23	5	4	2	2				88896.3		
1952													3	5	5	9	20	28	33	57	52	51	35	25	15	7	8	3	5							48997.2		
1953										4	21	56	80	13	6	5	5	10	14	19	26	38	25	15	15	3	6	2	2								25881.5	
1954								22	21	21	24	21	17	10	15	19	16	22	30	19	23	22	13	10	9	9	3	6	7	1	1	2	2				54551.2	
1955		14	11	3	3	3	7	9	8	4	9	2	27	7	12	11	13	42	39	38	32	25	17	15	7	5	2										23111.3	
1956	3	35	15	59	14	14	21	56	17	19	20	10	8	20	15	7	10	4	4	1		1															1444.3	
1957		10	2	19	10	32	21	27	19	25	15	21	33	26	35	26	16	12	8	4	1	1	2														3340.8	
1958										11	19	15	26	44	27	34	41	56	23	24	11	13	8	4	4	2	1	1	1								15675.8	
1959		27	10	7	5	6	26	8	5	35	27	10	6	18	19	18	14	19	27	16	16	20	14	2	4	2	1	1	2							16418.0		
1960													13	35	54	25	51	46	35	27	21	19	10	9	6	5	4	3	1		1	1				30241.2		
1961					8	10	6	3	26	15	17	24	21	31	23	23	16	14	11	25	19	27	11	13	9	4	2	2	1	1	3						30531.7	
1962														1	45	77	40	18	16	21	22	24	20	20	18	12	8	8	4	6	1	3		1		70209.0		
1963										1	1	4	24	27	14	48	38	21	35	30	32	20	20	24	16	4	3	3									29927.4	
1964					11	26	14	4	16	13	40	29	22	21	22	20	25	28	21	13	17	8	6	4	1												12515.4	
1965						5	8	30	21	17	20	22	50	19	23	15	12	10	18	15	14	18	12	9	11	8	3	2	2			1				48985.5		
1966					1	1	3	6	11	8		5	8	7	20	16	17	30	43	57	41	38	17	14	10	7	4	1									25569.5	
1967						6	37	36	44	17	24	15	33	28	31	23	11	5	12	6	5	4	5	7	3	1	3	5	1	2			1			20424.3		
1968																																						3232.7
1969	2	3	3	4	2	15	13	19	21	40	37	44	43	41	19	17	13	12	9	4	4	1															59638.1	
1970											1	2	13	64	22	15	21	35	34	25	33	23	17	12	14	11	11	11	1								20022.1	
1971						1	5	3	3	6	7	23	51	34	33	38	26	9	18	35	30	18	11	4	1	2	1	1	1	1	1						37733.4	



STATION NUMBER 05480000

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

LIZARD CREEK NEAR CLARE, IOWA

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	6	11322	100.0	9	1.90	413	9989	88.2	18	37.0	697	4606	40.7	27	700	116	243	2.1
1	0.10	101	11316	99.9	10	2.70	486	9576	84.6	19	51.0	706	3909	34.5	28	970	71	127	1.1
2	0.20	59	11215	99.1	11	3.70	511	9090	80.3	20	71.0	681	3203	28.3	29	1400	23	56	.4
3	0.30	151	11156	98.5	12	5.10	651	8579	75.8	21	98.0	712	2522	22.3	30	1900	16	33	.2
4	0.40	67	11005	97.2	13	7.10	584	7928	70.0	22	140.0	511	1810	16.0	31	2600	12	17	.1
5	0.50	132	10918	96.4	14	9.90	766	7344	64.9	23	190.0	411	1299	11.5	32	3600	3	5	.0
6	0.70	219	10735	95.3	15	14.00	733	6578	58.1	24	260.0	313	888	7.8	33	5000	2	2	.0
7	1.00	297	10566	93.3	16	19.00	595	5845	51.6	25	360.0	190	575	5.1	34				
8	1.40	280	10269	90.7	17	26.00	644	5250	46.4	26	510.0	142	385	3.4					



STATION NUMBER 05480500

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

DES MOINES RIVER AT FORT DOGGE, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1913	54.00 13	61.30 11	73.00 13	82.60 13	95.10 11	105.00 10	113.00 8	117.00 7	115.00 7	564.00 5
1948	50.00 11	50.00 7	53.40 6	57.70 6	71.60 7	119.00 14	156.00 14	168.00 14	162.00 5	2100.00 21
1949	77.00 19	77.00 14	77.00 14	78.40 11	81.30 9	97.50 9	122.00 12	122.00 8	156.00 8	920.00 11
1950	30.00 7	31.30 5	31.90 3	33.10 3	34.80 3	40.70 2	49.20 4	62.20 4	79.10 4	803.00 9
1951	67.00 17	67.00 13	67.60 12	68.90 8	76.30 8	85.10 6	102.00 7	139.00 11	263.00 15	961.00 12
1952	250.00 25	240.00 25	341.00 25	357.00 25	523.00 25	590.00 25	674.00 24	803.00 24	1290.00 25	3730.00 25
1953	42.00 9	32.30 16	93.70 16	97.60 16	107.00 14	110.00 12	116.00 9	123.00 9	165.00 10	1500.00 18
1954	23.00 5	57.30 10	57.70 8	60.10 7	70.90 6	89.30 8	120.00 10	129.00 10	171.00 11	1200.00 15
1955	115.00 21	147.00 23	154.00 23	178.00 23	191.00 22	234.00 22	306.00 21	416.00 21	643.00 22	1710.00 20
1956	14.00 1	16.70 1	39.00 5	40.40 5	41.80 4	42.50 3	43.70 2	48.00 2	53.20 2	447.00 4
1957	20.00 3	23.30 2	28.40 1	29.40 1	32.90 1	42.50 4	47.90 3	51.90 3	53.90 3	160.00 1
1958	58.00 14	62.70 12	65.90 9	80.30 12	108.00 15	145.00 15	164.00 15	159.00 15	200.00 13	353.00 2
1959	28.00 6	28.70 3	30.70 2	32.60 2	32.90 2	34.20 1	36.40 1	41.00 1	43.90 1	371.00 3
1960	63.00 16	104.00 19	116.00 15	124.00 15	151.00 19	224.00 21	255.00 20	255.00 17	331.00 17	767.00 8
1961	33.00 8	56.70 9	67.40 10	74.40 9	98.00 13	116.00 13	141.00 13	164.00 13	245.00 14	1680.00 19
1962	62.00 15	86.70 17	103.00 17	116.00 17	148.00 18	189.00 19	212.00 17	254.00 16	315.00 16	1010.00 13
1963	54.00 12	56.00 8	67.40 11	87.10 15	135.00 16	175.00 16	202.00 16	277.00 19	617.00 21	2400.00 22
1964	45.00 10	77.30 15	84.30 15	86.60 14	95.40 12	109.00 11	121.00 11	144.00 12	190.00 12	919.00 10
1965	116.00 22	123.00 21	137.00 21	168.00 22	210.00 23	306.00 23	369.00 23	433.00 22	733.00 23	1240.00 16
1966	161.00 24	200.00 24	209.00 24	213.00 24	237.00 24	413.00 24	719.00 25	804.00 25	1240.00 24	3010.00 24
1967	16.00 2	29.30 4	53.70 7	77.30 10	83.40 10	87.70 7	92.70 6	108.00 6	113.00 6	681.00 6
1968	27.00 4	35.00 6	35.90 4	40.30 4	52.30 5	65.80 5	74.30 5	79.00 5	94.90 5	691.00 7
1969	77.00 18	101.00 18	111.00 18	117.00 18	172.00 20	222.00 20	341.00 22	439.00 23	417.00 19	1100.00 14
1970	130.00 23	139.00 22	141.00 22	153.00 21	172.00 21	177.00 17	215.00 18	266.00 18	360.00 18	2900.00 23
1971	90.00 20	112.00 20	119.00 20	133.00 20	140.00 17	188.00 18	250.00 19	313.00 20	435.00 20	1430.00 17



STATION NUMBER 05480500

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

DES MOINES RIVER AT FORT DODGE, IOWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1912	11300.0 11	10400.0 11	8290.0 12	5310.0 18	3120.0 20	2140.0 21	1710.0 21	1350.0 23	935.0 23	542.0 22
1913	10000.0 13	7630.0 19	6350.0 19	6050.0 13	4540.0 14	3510.0 13	3210.0 12	2600.0 13	1730.0 14	963.0 16
1947	28800.0 3	24300.0 3	17100.0 5	13600.0 6	9730.0 5	6200.0 5	5470.0 4	4880.0 5	3610.0 5	2080.0 5
1948	9360.0 15	8400.0 15	6890.0 16	5580.0 16	4440.0 15	3350.0 14	2870.0 14	2320.0 14	1700.0 16	932.0 17
1949	9000.0 16	8510.0 14	7330.0 14	6710.0 12	5610.0 11	4740.0 10	3590.0 11	2910.0 12	2060.0 12	1110.0 14
1950	6100.0 22	5420.0 22	4190.0 23	2720.0 23	1900.0 23	1760.0 23	1720.0 20	1560.0 20	1370.0 20	757.0 20
1951	22300.0 5	21200.0 5	19100.0 4	16300.0 3	13500.0 3	10400.0 2	8400.0 2	8070.0 1	6180.0 1	3330.0 2
1952	12600.0 7	12300.0 9	11500.0 8	10000.0 8	8150.0 7	5720.0 6	4590.0 6	4100.0 6	3350.0 6	2050.0 6
1953	8500.0 17	8350.0 16	7440.0 13	5300.0 15	4760.0 12	3590.0 12	3080.0 13	2590.0 11	2400.0 10	1290.0 10
1954	34000.0 2	30800.0 2	23200.0 2	15000.0 4	9350.0 6	5580.0 7	4290.0 8	3550.0 8	2750.0 8	1470.0 8
1955	6560.0 21	5980.0 21	4830.0 21	3260.0 22	2100.0 22	1780.0 22	1550.0 23	1380.0 22	1010.0 21	771.0 19
1956	1030.0 27	989.0 27	897.0 27	775.0 27	566.0 27	417.0 27	373.0 27	322.0 27	267.0 27	161.0 27
1957	2330.0 25	2290.0 25	1810.0 25	1260.0 25	1040.0 25	883.0 25	719.0 25	637.0 25	520.0 25	294.0 25
1958	6000.0 23	4600.0 24	3190.0 24	2110.0 24	1340.0 24	1190.0 24	960.0 24	885.0 24	672.0 24	419.0 24
1959	3220.0 19	7780.0 18	6430.0 18	5870.0 14	3750.0 17	2270.0 19	1640.0 22	1390.0 21	995.0 22	531.0 23
1960	14000.0 8	13200.0 8	11100.0 9	8630.0 9	6220.0 10	4570.0 11	4300.0 7	3520.0 9	2420.0 9	1390.0 9
1961	20000.0 7	18600.0 7	15300.0 7	11000.0 7	7000.0 9	4840.0 9	3760.0 10	3170.0 10	2270.0 11	1250.0 11
1962	21200.0 6	19400.0 6	17000.0 6	14700.0 5	11500.0 4	7160.0 4	5440.0 5	5060.0 4	4420.0 4	2390.0 4
1963	5540.0 24	5160.0 23	4210.0 22	3650.0 20	3510.0 18	2630.0 17	2400.0 15	2170.0 15	1840.0 13	1170.0 12
1964	5330.0 18	7840.0 17	6670.0 17	5440.0 17	3820.0 16	2490.0 18	1840.0 19	1570.0 19	1770.0 15	979.0 15
1965	35100.0 1	33300.0 1	29000.0 1	22800.0 1	15900.0 1	10800.0 1	8630.0 1	6790.0 3	4810.0 3	2770.0 3
1966	6590.0 20	6150.0 20	5150.0 20	3650.0 21	2740.0 21	2180.0 20	2030.0 18	1810.0 18	1430.0 17	1170.0 13
1967	11900.0 10	10500.0 10	8660.0 11	6780.0 11	4680.0 13	2800.0 16	2060.0 17	1860.0 17	1350.0 19	755.0 21
1968	1740.0 26	1720.0 26	1640.0 26	1250.0 26	518.0 26	753.0 26	583.0 26	521.0 26	417.0 26	257.0 26
1969	22700.0 4	22300.0 4	20600.0 3	17100.0 2	13700.0 2	9600.0 3	7360.0 3	7630.0 2	5840.0 2	3580.0 1
1970	10500.0 12	9410.0 13	7000.0 15	4710.0 19	3310.0 19	2820.0 15	2270.0 16	1960.0 16	1420.0 18	841.0 18
1971	9950.0 14	9520.0 12	9440.0 10	8370.0 10	7670.0 8	5350.0 8	4050.0 9	3730.0 7	3020.0 7	1730.0 7



STATION NUMBER 05480500

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

DES MOINES RIVER AT FORT DODGE, IOWA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	CFS_DAYS		
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS			
1912							1	4	20	67	43	59	37	29	15	10	10	13	14	11	10	5	4	3	3	1	2	2	1	2						198521.0		
1913							2	14	53	99	11	20	25	23	13	2	3	2	2	6	5	13	50	5	7	5	4									351337.0		
1947									10		20	11		19	34	20	36	52	12	17	11	28	28	14	18	15	7	3	4	3	1	1	1			758771.0		
1943							5	21	35	10	10	37	25	26	20	20	29	28	11	13	8	23	11	9	7	5	4	6	3							340983.0		
1949									35	42	25	54	42		10	10	33		16	13	15	11	7	6	11	12	9	12	2							405087.0		
1950						20	27	25	7	33	32	25	3	6	8	3	10	11	32	15	24	29	19	15	8	6	4	3								276276.0		
1951									15	33	23	15	6	9	13	14	12	7	8	6	4	15	16	23	24	15	14	21	19	17	12	14	5	1			1214338.0	
1952										2	6	10	24	17	26	30	44	30	41	20	35	19	15	13	6	11	10	7								748705.0		
1953					1			2	7	47	53	28	15	16	13	8	8	9	8	9	17	25	30	29	19	6	8	5	2								469556.0	
1954					2			2	20	8	27	27	41	14	11	9	14	26	17	22	22	31	15	13	14	4	6	5	5	1	2	2	2	1	1	1		538222.0
1955					1			8	8	14	17	14	3	12	31	20	14	27	26	42	36	27	23	12	16	7	2	2	2	1							281565.0	
1956	2	1			5	84	41	31	34	20	19	34	26	12	21	11	10	8	5	2																	58505.0	
1957		2	6	47	30	17	23	24	12	12	24	31	26	25	10	20	17	19	7	9	1	3															107475.0	
1958					4	10	21	13	23	29	30	50	46	28	22	24	28	12	6	4	7	1	2	1	3	1											152906.0	
1959					77	39	22	16	10	11	13	24	11	24	13	26	12	17	12	9	6		4	3	3	4	4	4	1								153821.0	
1960										11	35	27	38	57	39	24	10	13	9	12	22	10	10	9	15	7	9	5	2	2							509565.0	
1961					1			2	6	12	10	18	25	37	28	32	32	23	8	10	23	25	13	18	13	8	5	3	4	2	2	3	2				457268.0	
1962									1		5	11	11	34	24	26	26	27	11	6	9	29	21	21	12	18	13	11	10	5	12	9	2	1			873631.0	
1963								3	2	3	5	4	18	26	25	21	8	30	37	30	18	37	23	21	30	17	4	2									427235.0	
1964					2				2	15	28	37	13	36	38	30	24	16	20	17	14	12	5	4	10	23	9	6	4	1							358175.0	
1965										2	4	10	29	25	21	25	26	40	28	17	15	16	13	8	7	17	19	15	5	4	3	4	4	2	2		1010580.0	
1966	1	1								3	13	8	11	14	20	14	19	12	22	40	55	58	26	19	9	7	7	5	1								427987.0	
1967										2	4	60	15	19	43	18	7	17	24	21	13	20	16	21	7	7	4	4	2	3	5	1	2				275444.0	
1968					1	4	8	8	32	36	70	35	44	27	14	15	16	18	12	14	3	4	5														94143.0	
1969														12	28	32	33	15	20	16	21	19	23	17	23	18	20	13	15	23	6	4	3				1305366.0	
1970										5	18	52	34	24	46	46	18	12	15	12	23	13	26	12	2	2	1	2	1	1							307068.0	
1971										3	8	17	21	17	30	13	21	27	24	14	20	34	23	15	20	13	9	13	9	14							631378.0	



DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

DES MOINES RIVER AT FORT DODGE, IOWA

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	9862	100.0	9	93.00	582	8704	88.3	18	780.0	501	3526	35.8	27	6500	148	399	4.0
1	14.00	3	9862	100.0	10	120.00	555	8122	82.4	19	980.0	403	3025	30.7	28	8200	97	251	2.5
2	18.00	4	9859	100.0	11	150.00	668	7567	76.7	20	1200.0	522	2622	26.6	29	10000	74	154	1.5
3	22.00	7	9855	99.9	12	190.00	633	6899	70.0	21	1600.0	363	2100	21.3	30	13000	42	80	.8
4	28.00	157	9848	99.9	13	240.00	562	6266	63.5	22	2000.0	380	1737	17.6	31	17000	20	38	.3
5	36.00	203	9691	98.3	14	300.00	571	5704	57.8	23	2500.0	347	1357	13.8	32	21000	11	18	.1
6	46.00	146	9488	96.2	15	380.00	556	5133	52.0	24	3200.0	240	1010	10.2	33	27000	4	7	.0
7	58.00	223	9342	94.7	16	480.00	539	4577	46.4	25	4100.0	196	770	7.8	34	34000	3	3	.0
8	73.00	415	9119	92.5	17	610.00	512	4038	40.9	26	5100.0	175	574	5.8					



STATION NUMBER 05481000

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

BOONE RIVER NEAR WEBSTER CITY, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1942	5.00 6	5.23 6	5.50 5	6.04 5	8.60 9	23.90 16	87.90 27	169.00 29	233.00 28	365.00 20
1943	14.00 21	18.00 23	19.00 23	21.10 23	25.70 22	32.90 20	41.90 20	58.30 20	80.70 18	364.00 19
1944	17.00 23	17.70 22	17.90 22	20.00 22	28.50 24	47.10 24	59.50 22	67.60 23	82.40 19	206.00 5
1945	12.00 17	12.70 17	13.10 17	13.90 16	15.10 15	17.30 14	22.80 14	24.80 14	47.30 15	639.00 27
1946	21.00 26	21.70 26	22.00 25	23.60 25	30.40 25	34.70 21	37.80 17	46.20 16	196.00 26	699.00 28
1947	12.00 18	12.70 18	13.00 16	15.10 18	21.80 19	41.50 23	60.40 23	84.70 24	83.40 20	284.00 13
1948	6.00 10	6.00 9	6.00 7	6.79 8	7.97 7	14.60 11	20.90 13	23.50 13	22.00 9	548.00 25
1949	4.50 4	4.90 4	5.70 6	6.53 7	7.46 6	9.00 5	13.90 9	15.60 9	23.60 11	189.00 6
1950	2.70 2	2.73 2	2.77 2	2.91 2	3.56 2	4.33 1	6.55 1	7.82 1	7.65 1	141.00 4
1951	8.00 13	8.00 13	8.06 12	8.36 12	10.10 12	11.80 9	13.60 7	21.20 12	46.10 14	328.00 18
1952	50.00 20	57.30 30	70.30 30	74.10 30	114.00 30	118.00 30	134.00 29	159.00 28	252.00 29	870.00 29
1953	11.00 14	12.00 16	13.70 18	14.00 17	14.80 14	15.60 13	16.70 12	18.70 11	23.30 10	326.00 17
1954	5.20 7	5.50 7	6.03 8	7.09 9	8.95 10	11.30 7	14.30 10	14.00 7	16.70 7	195.00 8
1955	20.00 24	20.30 24	21.40 24	23.10 24	25.50 21	50.80 25	67.90 26	97.40 25	187.00 25	513.00 23
1956	5.60 8	5.80 8	6.14 9	6.48 6	6.87 5	7.04 3	7.53 3	9.58 3	15.20 5	109.00 3
1957	1.60 1	1.67 1	2.00 1	2.14 1	3.09 1	7.38 4	9.20 4	10.10 4	10.90 2	34.30 1
1958	5.90 9	6.53 10	7.26 10	8.14 11	11.80 13	15.10 12	15.80 11	18.50 10	26.50 12	71.60 2
1959	5.00 5	5.00 5	5.06 4	5.13 4	5.23 3	6.30 2	7.33 2	9.48 2	12.70 3	172.00 5
1960	13.00 19	14.70 19	15.00 19	18.00 21	28.20 23	52.80 26	60.40 24	62.80 22	93.10 21	247.00 11
1961	7.40 12	7.40 11	7.51 11	7.79 10	8.59 8	9.44 6	12.20 5	13.10 5	18.00 8	291.00 14
1962	40.00 29	43.70 29	48.40 29	56.20 29	63.60 29	82.90 28	91.90 28	113.00 27	154.00 24	311.00 16
1963	16.00 22	16.00 21	15.70 21	17.50 19	21.90 20	28.70 18	37.30 16	52.70 18	141.00 23	533.00 24
1964	11.00 15	11.70 15	12.40 15	13.00 14	16.60 16	22.20 15	25.80 15	29.30 15	32.00 13	248.00 12
1965	15.00 20	15.00 20	15.40 20	17.90 20	18.70 18	31.10 19	39.80 18	48.80 17	116.00 22	298.00 15
1966	23.00 28	28.70 28	29.70 28	29.90 28	38.10 27	103.00 29	208.00 30	251.00 30	490.00 30	993.00 30
1967	7.10 11	7.63 12	8.97 13	9.40 13	9.71 11	12.00 10	13.00 6	13.60 6	14.40 4	191.00 7
1968	3.50 3	3.50 3	3.53 3	3.79 3	5.72 4	11.70 8	13.80 8	14.60 8	15.80 6	224.00 10
1969	21.00 25	21.30 25	23.60 26	27.30 26	40.80 28	59.00 27	67.20 25	106.00 26	201.00 27	374.00 21
1970	25.00 27	25.00 27	25.10 27	28.50 27	30.50 26	35.00 22	42.40 21	61.00 21	72.90 16	568.00 26
1971	11.00 16	11.00 14	12.10 14	12.20 15	16.30 17	25.10 17	40.00 19	54.50 19	79.10 17	380.00 22



STATION NUMBER 05481000

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

BOONE RIVLR NEAR WEBSTER CITY, IOWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1941	1450.0 30	1330.0 30	1260.0 28	902.0 28	641.0 28	535.0 27	422.0 26	445.0 25	364.0 25	242.0 18
1942	2750.0 25	2270.0 24	1720.0 24	1430.0 21	1000.0 19	792.0 17	785.0 15	759.0 12	632.0 12	476.0 8
1943	2230.0 28	2190.0 26	1890.0 22	1160.0 24	877.0 24	706.0 22	583.0 22	550.0 20	471.0 15	281.0 15
1944	7960.0 8	6770.0 8	5040.0 8	3170.0 8	2950.0 7	2100.0 3	1650.0 4	1320.0 6	933.0 7	504.0 7
1945	6120.0 11	5210.0 10	3480.0 10	2870.0 5	2150.0 9	1940.0 6	1800.0 3	1660.0 4	1290.0 4	702.0 4
1946	6130.0 10	4500.0 12	2990.0 14	1830.0 15	1270.0 16	937.0 15	788.0 14	799.0 11	689.0 11	374.0 13
1947	8930.0 6	7350.0 6	5740.0 5	4630.0 5	3410.0 4	2090.0 4	1640.0 5	1400.0 5	999.0 6	540.0 6
1948	4030.0 17	3420.0 17	2390.0 18	1330.0 22	997.0 20	640.0 25	505.0 25	401.0 26	288.0 26	155.0 27
1949	3600.0 19	3410.0 18	2460.0 17	1820.0 16	1590.0 11	1010.0 13	726.0 17	599.0 17	414.0 22	216.0 24
1950	4000.0 18	2730.0 21	2230.0 19	1660.0 19	979.0 22	724.0 21	547.0 24	583.0 19	417.0 21	217.0 23
1951	9740.0 3	7800.0 4	6130.0 4	5540.0 3	3650.0 2	2590.0 2	2080.0 2	2140.0 1	1620.0 1	871.0 1
1952	3730.0 20	3500.0 16	2710.0 16	1970.0 14	1470.0 13	1060.0 11	888.0 10	936.0 9	788.0 9	457.0 9
1953	1690.0 29	1590.0 29	1270.0 27	1100.0 25	800.0 25	666.0 23	578.0 23	532.0 23	427.0 20	224.0 21
1954	19500.0 1	17800.0 1	11600.0 1	6200.0 2	3510.0 3	1960.0 5	1450.0 7	1160.0 8	830.0 8	428.0 10
1955	2730.0 26	1920.0 27	1250.0 29	742.0 29	574.0 29	392.0 29	323.0 29	289.0 28	227.0 28	194.0 26
1956	655.0 31	467.0 31	253.0 31	171.0 31	117.0 31	86.9 31	88.1 31	76.6 31	57.6 31	36.1 31
1957	2430.0 27	1730.0 28	1090.0 30	636.0 30	402.0 30	256.0 30	187.0 30	161.0 30	115.0 30	64.2 30
1958	4340.0 15	3300.0 19	2010.0 21	1180.0 23	757.0 26	554.0 26	396.0 27	332.0 27	243.0 27	135.0 28
1959	3120.0 22	2870.0 20	2210.0 20	1730.0 17	993.0 21	651.0 24	598.0 20	533.0 22	374.0 24	196.0 25
1960	8030.0 7	6810.0 7	4180.0 9	2360.0 10	1410.0 14	1010.0 12	797.0 13	627.0 16	446.0 17	260.0 16
1961	5390.0 13	4280.0 14	3150.0 13	2040.0 12	1480.0 12	1000.0 14	746.0 16	648.0 14	490.0 14	259.0 17
1962	9700.0 4	8450.0 3	6770.0 3	4740.0 4	3080.0 5	1760.0 8	1350.0 8	1220.0 7	1090.0 5	634.0 5
1963	2870.0 23	2420.0 22	1900.0 23	1450.0 20	1110.0 18	879.0 16	825.0 12	705.0 13	532.0 13	320.0 14
1964	3520.0 21	2200.0 25	1290.0 26	1020.0 26	907.0 23	751.0 20	587.0 21	489.0 24	435.0 19	235.0 19
1965	1440.0 2	13900.0 2	11200.0 2	7320.0 1	4310.0 1	2680.0 1	2180.0 1	1790.0 2	1520.0 2	843.0 2
1966	5390.0 14	4540.0 11	3190.0 12	1980.0 13	1270.0 15	785.0 18	692.0 18	595.0 18	468.0 16	408.0 12
1967	9050.0 5	7630.0 5	5700.0 6	3780.0 7	2300.0 8	1210.0 10	836.0 11	644.0 15	441.0 18	229.0 20
1968	2800.0 24	2380.0 23	1490.0 25	969.0 27	743.0 27	483.0 28	346.0 28	276.0 29	201.0 29	110.0 29
1969	7900.0 9	6760.0 9	5520.0 7	4280.0 6	3010.0 6	1930.0 7	1480.0 6	1790.0 3	1330.0 3	786.0 3
1970	5430.0 12	4410.0 13	2850.0 15	1680.0 18	1170.0 17	730.0 19	607.0 19	536.0 21	383.0 23	218.0 22
1971	4200.0 16	4110.0 15	3390.0 11	2270.0 11	1960.0 10	1400.0 9	1010.0 9	905.0 10	737.0 10	409.0 11



DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

BOONE RIVER NEAR WEBSTER CITY, IOWA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	CFS_DAYS	
YEAR	NUMBER OF DAYS IN CLASS																																		88382.9		
1941						10	9	14	23	9	4	15	11	16	34	18	36	18	24	30	37	27	12	8	10											173664.0	
1942												1	9	15	20	26	28	43	51	45	45	27	21	14	15	4	1									102599.0	
1943									7	7	23	27	21	33	22	25	43	35	36	30	23	10	8	7	3	5										184593.0	
1944									15	6	23	44	36	17	14	33	27	25	24	10	13	20	16	17	9	3	3	4	4	3						256390.0	
1945									16	37	11	43	20	21	5	13	14	8	12	8	19	16	22	24	16	16	20	11	9	3	1					136646.0	
1946									8	9	23	24	64	29	11	17	14	15	17	25	21	20	20	17	12	7	6	3	1							197146.0	
1947									4	4	15	13	24	12	25	40	28	21	15	25	20	24	27	11	11	14	7	5	9	6	2	2	1			56683.9	
1948																																				78675.2	
1949									4	13	6	4	26	29	9	56	33	22	13	18	12	10	21	16	10	13	11	9	8	2	5	3	7	4	1		79054.4
1950																																					
1951																																				317865.7	
1952																																				167332.0	
1953																																				81662.8	
1954																																				156386.8	
1955																																				70704.8	
1956																																				13205.1	
1957																																				23425.9	
1958																																				45371.8	
1959																																				71691.5	
1960																																				95034.0	
1961																																				94363.4	
1962																																				231278.0	
1963																																				116765.0	
1964																																				86163.0	
1965																																				307694.0	
1966																																				143816.3	
1967																																				83403.0	
1968																																				40094.5	
1969																																				286876.0	
1970																																				79650.0	
1971																																				149418.0	



STATION NUMBER 05481000

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

BOONE RIVER NEAR WEBSTER CITY, IOWA

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	11322	100.0	9	16.00	634	9763	86.2	18	200.0	681	3932	34.7	27	2600	96	249	2.1
1	1.00	4	11322	100.0	10	21.00	479	9079	80.2	19	270.0	635	3251	28.7	28	3500	67	153	1.3
2	2.10	17	11318	100.0	11	27.00	685	8600	76.0	20	360.0	539	2616	23.1	29	4600	41	86	.7
3	2.20	55	11301	99.8	12	37.00	707	7915	69.9	21	470.0	528	2077	18.3	30	6100	27	45	.3
4	3.00	55	11246	99.3	13	49.00	700	7208	63.7	22	630.0	390	1549	13.7	31	8100	11	18	.1
5	5.00	110	11171	98.8	14	65.00	694	6508	57.5	23	840.0	322	1159	10.2	32	11000	3	7	.0
6	6.00	287	11081	97.9	15	86.00	569	5814	51.4	24	1100.0	251	837	7.4	33	14000	2	4	.0
7	8.00	371	10794	95.3	16	110.00	694	5245	46.3	25	1500.0	205	586	5.2	34	19000	2	2	.0
8	12.00	600	10423	92.1	17	150.00	619	4551	40.2	26	2000.0	132	381	3.4					



## STATION NUMBER 05481300

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

DES MOINES RIVER NEAR STRATFORD, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1921	580.00 51	622.00 51	655.00 51	752.00 51	859.00 51	1240.00 51	1490.00 51	1570.00 51	1760.00 49	3030.00 45
1922	169.00 43	170.00 42	173.00 40	178.00 39	181.00 35	187.00 29	277.00 32	368.00 32	875.00 42	1720.00 35
1923	65.00 20	71.00 20	83.10 22	95.60 25	101.00 21	103.00 13	117.00 10	160.00 14	149.00 6	543.00 12
1924	62.00 19	71.30 21	82.10 21	104.00 27	109.00 25	172.00 27	260.00 27	371.00 33	555.00 33	897.00 11
1925	100.00 31	100.00 29	100.00 28	100.00 26	102.00 22	134.00 22	179.00 21	263.00 25	470.00 29	1090.00 18
1926	43.00 9	44.70 8	58.30 12	64.60 11	94.70 16	162.00 26	288.00 34	408.00 36	458.00 27	808.00 8
1927	45.00 12	59.00 16	59.60 13	68.80 13	94.20 15	143.00 23	180.00 22	209.00 23	558.00 34	977.00 13
1928	35.00 29	56.00 28	86.00 25	91.60 23	95.50 18	107.00 14	146.00 19	173.00 17	219.00 17	1710.00 32
1929	135.00 35	141.00 33	187.00 42	268.00 46	430.00 49	514.00 46	524.00 44	732.00 45	517.00 43	1560.00 28
1930	110.00 32	110.00 31	110.00 30	117.00 30	136.00 28	187.00 30	271.00 30	299.00 27	298.00 23	1350.00 22
1931	59.00 17	60.30 17	63.70 16	71.60 15	95.70 19	133.00 21	143.00 16	157.00 13	178.00 10	584.00 4
1932	49.00 14	57.00 14	61.90 15	73.60 16	81.00 10	128.00 20	192.00 24	188.00 21	256.00 19	1710.00 33
1933	33.00 27	155.00 39	155.00 35	155.00 34	227.00 39	293.00 38	283.00 33	308.00 29	431.00 26	1490.00 24
1934	40.00 6	40.00 4	43.30 5	60.50 8	74.40 9	94.10 8	101.00 8	120.00 8	141.00 7	875.00 10
1935	51.00 15	55.00 12	58.10 11	64.50 9	82.80 11	90.50 7	98.60 7	112.00 7	191.00 13	765.00 7
1936	70.00 22	70.70 19	71.30 19	75.60 18	114.00 26	153.00 25	193.00 25	214.00 24	198.00 15	1450.00 25
1937	40.00 7	43.30 7	46.90 6	50.30 5	55.60 6	97.50 11	145.00 17	183.00 20	423.00 25	1010.00 16
1938	40.00 8	55.00 13	65.30 18	81.80 19	91.00 14	94.90 9	126.00 11	173.00 18	277.00 20	1550.00 27
1939	235.00 50	292.00 49	302.00 48	355.00 49	373.00 47	580.00 48	642.00 47	865.00 47	1840.00 50	2920.00 44
1940	17.00 1	19.00 1	19.10 1	20.40 1	22.70 1	35.00 1	50.40 2	61.50 2	71.20 2	511.00 2
1941	32.00 3	43.00 6	57.60 10	75.40 17	133.00 27	237.00 34	381.00 38	419.00 38	553.00 32	844.00 9
1942	110.00 33	112.00 32	114.00 31	133.00 32	173.00 32	406.00 44	831.00 48	1230.00 49	1650.00 48	2280.00 40
1943	145.00 36	147.00 35	150.00 36	185.00 40	224.00 38	283.00 37	390.00 39	534.00 39	1140.00 46	2280.00 41
1944	250.00 47	273.00 47	316.00 49	333.00 48	373.00 48	515.00 47	605.00 46	625.00 43	808.00 40	1960.00 36
1945	145.00 47	148.00 36	158.00 37	172.00 36	179.00 34	207.00 31	264.00 29	314.00 30	582.00 35	3240.00 47
1946	80.00 24	80.00 24	81.40 20	89.30 22	139.00 25	184.00 28	227.00 26	305.00 28	629.00 36	3190.00 46
1947	170.00 44	187.00 43	203.00 44	223.00 43	292.00 44	378.00 42	530.00 45	666.00 44	682.00 37	1710.00 34
1948	44.00 10	51.00 11	53.30 9	64.50 10	71.60 8	126.00 19	184.00 23	198.00 22	188.00 11	2860.00 43
1949	72.00 23	78.00 23	83.70 24	93.40 24	99.90 20	113.00 16	151.00 20	150.00 11	196.00 14	1230.00 20
1950	37.00 5	40.00 5	40.30 4	40.90 4	45.80 4	52.20 3	64.70 5	80.90 5	103.00 5	1000.00 15
1951	57.00 16	59.70 15	60.40 14	67.90 12	86.30 13	94.90 10	112.00 9	163.00 15	329.00 24	1420.00 23
1952	260.00 45	324.00 50	424.00 50	444.00 50	669.00 50	774.00 50	859.00 49	1010.00 48	1620.00 47	4850.00 51
1953	37.00 30	103.00 30	117.00 32	126.00 31	141.00 30	145.00 24	145.00 18	151.00 12	199.00 16	2000.00 38
1954	65.00 21	65.00 18	66.70 17	70.30 14	82.80 12	99.90 12	136.00 13	136.00 9	189.00 12	1500.00 26
1955	149.00 43	137.00 44	219.00 45	234.00 44	246.00 41	317.00 39	426.00 40	585.00 42	993.00 44	2480.00 42
1956	45.00 11	46.70 10	50.10 8	50.50 6	52.80 5	54.10 4	56.00 3	62.60 3	72.70 3	617.00 5
1957	25.00 2	29.00 2	29.10 2	33.60 2	44.50 3	54.10 5	64.50 4	66.30 4	72.70 4	203.00 1
1958	33.00 28	35.30 27	41.00 27	105.00 28	157.00 31	216.00 32	262.00 28	285.00 26	278.00 21	537.00 3



STATION NUMBER 05481300

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

DES MOINES RIVER NEAR STRATFORD, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1959	33.00 4	33.00 3	33.40 3	34.40 3	36.20 2	41.50 2	45.60 1	55.00 1	66.40 1	637.00 6
1960	123.00 34	149.00 37	153.00 34	160.00 35	214.00 37	327.00 41	363.00 37	365.00 31	468.00 28	1120.00 19
1961	82.00 25	82.00 25	83.40 23	86.00 20	95.30 17	107.00 15	142.00 15	180.00 19	280.00 22	2190.00 39
1962	242.00 46	250.00 46	251.00 46	260.00 45	323.00 45	406.00 45	446.00 41	539.00 40	701.00 39	1650.00 29
1963	145.00 33	145.00 34	146.00 33	152.00 33	178.00 33	225.00 33	272.00 31	382.00 34	861.00 41	2340.00 48
1964	81.00 25	83.70 26	87.30 26	88.60 21	104.00 23	124.00 19	139.00 14	172.00 16	227.00 18	1350.00 21
1965	155.00 42	163.00 41	181.00 41	209.00 42	267.00 43	387.00 43	474.00 42	545.00 41	1020.00 45	1680.00 31
1966	265.00 49	279.00 48	279.00 47	289.00 47	334.00 46	590.00 49	1170.00 50	1260.00 50	2040.00 51	4390.00 50
1967	61.00 18	74.30 22	101.00 29	106.00 29	108.00 24	119.00 17	127.00 12	144.00 10	152.00 9	997.00 14
1968	46.00 13	46.00 9	47.00 7	52.60 7	65.00 7	89.80 6	97.80 6	105.00 6	131.00 6	1050.00 17
1969	154.00 41	153.00 40	162.00 38	175.00 37	247.00 42	326.00 40	494.00 43	755.00 46	687.00 38	1650.00 30
1970	194.00 45	194.00 45	197.00 43	206.00 41	238.00 40	245.00 35	300.00 35	395.00 35	511.00 30	3970.00 49
1971	143.00 39	153.00 38	162.00 39	176.00 38	198.00 36	254.00 36	339.00 36	418.00 37	543.00 31	1980.00 37



STATION NUMBER 05481300

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

DES MOINES RIVER NEAR STRATFORD, IOWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1921	10400.0 29	10200.0 29	9260.0 30	7170.0 28	5750.0 24	4120.0 26	3460.0 26	3150.0 24	2710.0 24	2090.0 15
1922	11200.0 28	11000.0 28	10200.0 25	7710.0 24	4570.0 31	4010.0 28	3270.0 29	2660.0 31	2050.0 32	1260.0 31
1923	6520.0 41	5990.0 40	5070.0 39	3850.0 39	2530.0 40	1670.0 43	1390.0 43	1210.0 44	872.0 44	550.0 45
1924	7350.0 37	6390.0 39	6180.0 36	5380.0 35	4140.0 36	3030.0 36	2410.0 38	2110.0 38	2000.0 34	1360.0 29
1925	4150.0 47	3780.0 47	3380.0 45	2790.0 44	2300.0 42	1650.0 44	1230.0 44	1220.0 43	1070.0 42	680.0 43
1926	6080.0 42	5010.0 43	4120.0 42	3000.0 41	2020.0 45	1310.0 47	1030.0 47	834.0 47	837.0 45	657.0 42
1927	10100.0 30	9900.0 30	9530.0 28	8170.0 22	6650.0 20	5850.0 16	4970.0 13	4420.0 15	3420.0 15	2020.0 17
1928	4960.0 44	4360.0 44	3230.0 46	2770.0 45	2460.0 41	2190.0 40	2040.0 39	1820.0 39	1380.0 39	936.0 39
1929	23600.0 12	22800.0 12	19400.0 11	12700.0 11	8410.0 14	7050.0 11	5710.0 11	4620.0 13	3340.0 16	2100.0 14
1930	3910.0 48	3910.0 46	3790.0 43	2960.0 42	2160.0 43	2130.0 41	1750.0 41	1530.0 41	1240.0 41	747.0 41
1931	2760.0 50	1970.0 50	1430.0 50	1010.0 50	579.0 51	330.0 51	303.0 51	294.0 51	266.0 51	233.0 50
1932	10400.0 17	10400.0 13	14200.0 15	10900.0 17	7190.0 19	5930.0 15	4810.0 16	4700.0 11	4310.0 9	2770.0 9
1933	29300.0 5	26700.0 6	20400.0 8	12900.0 10	7430.0 17	4620.0 20	3300.0 28	2600.0 32	1900.0 37	1100.0 36
1934	4300.0 45	3930.0 45	3120.0 47	2090.0 45	1230.0 49	690.0 49	667.0 45	605.0 49	459.0 49	285.0 49
1935	16300.0 18	14900.0 19	11300.0 19	9330.0 18	6180.0 21	3570.0 32	2770.0 33	2590.0 33	2520.0 25	1390.0 27
1936	12200.0 27	11900.0 25	10400.0 23	9320.0 19	7290.0 18	4670.0 18	3690.0 23	3030.0 25	2050.0 33	1220.0 32
1937	17700.0 13	15300.0 17	11000.0 20	7350.0 27	5790.0 23	4540.0 21	3950.0 20	4070.0 18	2980.0 21	1610.0 24
1938	24300.0 11	23600.0 10	20400.0 9	14900.0 8	9190.0 11	5690.0 17	4930.0 14	4450.0 14	4000.0 11	2400.0 11
1939	12700.0 25	11500.0 27	9270.0 29	7720.0 23	5370.0 29	3960.0 29	2970.0 32	2380.0 34	1920.0 36	1360.0 28
1940	4270.0 46	3750.0 48	3110.0 48	2130.0 48	1670.0 48	1060.0 48	831.0 48	717.0 48	689.0 47	383.0 48
1941	6990.0 39	6680.0 37	5970.0 37	4820.0 38	3860.0 37	2850.0 38	2740.0 34	2700.0 30	2140.0 28	1430.0 26
1942	9020.0 32	8830.0 31	8060.0 31	6820.0 31	5410.0 28	4040.0 27	3940.0 21	3760.0 21	3250.0 17	2900.0 7
1943	8350.0 36	7630.0 35	7100.0 34	6650.0 32	5710.0 25	4530.0 22	4020.0 15	3650.0 22	3490.0 13	2260.0 13
1944	29300.0 6	27400.0 5	23400.0 5	16400.0 7	13900.0 6	10500.0 4	8290.0 4	6880.0 6	5080.0 6	2920.0 6
1945	16200.0 19	15400.0 16	12700.0 17	11600.0 15	10100.0 10	8070.0 8	7670.0 7	7370.0 4	5830.0 5	3190.0 5
1946	16500.0 15	15100.0 18	11300.0 18	7490.0 25	6080.0 22	4500.0 23	4290.0 18	4250.0 16	3450.0 14	1900.0 18
1947	34000.0 3	31000.0 3	23000.0 6	18500.0 6	14100.0 5	9210.0 6	7780.0 5	6830.0 7	4990.0 7	2820.0 8
1948	12700.0 26	11700.0 26	9960.0 27	7380.0 26	5660.0 26	4210.0 25	3590.0 24	2900.0 26	2120.0 29	1150.0 34
1949	14000.0 23	13300.0 23	11000.0 21	9210.0 20	7730.0 16	6350.0 13	4760.0 17	3860.0 19	2730.0 23	1470.0 25
1950	9220.0 31	8710.0 32	7270.0 33	5160.0 36	3310.0 38	2940.0 37	2620.0 36	2360.0 35	1980.0 35	1070.0 38
1951	27200.0 3	26400.0 7	24100.0 4	21900.0 2	17800.0 2	13600.0 2	11200.0 2	10800.0 1	8210.0 2	4440.0 2
1952	16400.0 16	16300.0 14	14900.0 14	12400.0 12	10200.0 9	7330.0 10	5900.0 9	5430.0 8	4460.0 8	2690.0 10
1953	8770.0 33	8710.0 33	8040.0 32	6320.0 33	5530.0 27	4340.0 24	3890.0 22	3780.0 20	3060.0 20	1630.0 23
1954	55900.0 1	51700.0 1	36500.0 2	21600.0 3	13600.0 7	8080.0 7	6120.0 8	5130.0 9	3920.0 12	2080.0 16
1955	6030.0 43	5680.0 41	4750.0 40	3540.0 40	2580.0 39	2190.0 39	1950.0 40	1790.0 40	1380.0 40	1100.0 37
1956	1200.0 51	1130.0 51	1040.0 51	938.0 51	704.0 50	519.0 50	475.0 50	410.0 50	349.0 50	213.0 51
1957	6950.0 40	5260.0 42	3920.0 44	2410.0 46	1960.0 46	1530.0 45	1180.0 45	1010.0 45	789.0 46	441.0 46
1958	4900.0 34	6480.0 30	4420.0 41	2960.0 43	2060.0 44	1920.0 42	1480.0 42	1380.0 42	1050.0 43	645.0 44



STATION NUMBER 05481300

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

DES MOINES RIVER NEAR STRATFORD, IOWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1959	12800.0 24	12300.0 24	10000.0 26	8350.0 21	5240.0 30	3320.0 34	2600.0 37	2290.0 37	1640.0 28	866.0 40
1950	27900.0 7	24400.0 8	18200.0 12	12400.0 13	8490.0 13	6420.0 12	5750.0 10	4700.0 12	3230.0 18	1870.0 19
1951	25500.0 9	23500.0 11	19500.0 10	13300.0 9	8850.0 12	6240.0 14	4870.0 15	4220.0 17	3130.0 19	1720.0 22
1962	29800.0 4	28300.0 4	24600.0 3	20500.0 4	15900.0 4	10000.0 5	7720.0 6	7140.0 5	6210.0 4	3490.0 4
1963	7160.0 38	7000.0 36	5940.0 38	4900.0 37	4450.0 35	3600.0 31	3590.0 25	3300.0 23	2770.0 22	1730.0 21
1964	3570.0 35	3090.0 34	7040.0 35	5830.0 34	4570.0 34	3390.0 33	2660.0 35	2300.0 36	2360.0 26	1290.0 30
1965	50800.0 2	49300.0 2	43600.0 1	32900.0 1	21900.0 1	14400.0 1	11500.0 1	9220.0 3	6810.0 3	3920.0 3
1966	15200.0 21	13400.0 22	10300.0 24	6850.0 30	4720.0 33	3160.0 35	3020.0 31	2710.0 29	2140.0 27	1840.0 20
1967	17000.0 14	16000.0 15	15000.0 13	11900.0 14	8040.0 15	4630.0 19	3310.0 27	2840.0 28	2090.0 30	1130.0 35
1968	3650.0 49	3410.0 49	3030.0 49	2170.0 47	1790.0 47	1370.0 46	1030.0 46	877.0 46	687.0 48	409.0 47
1969	24500.0 10	24200.0 9	23000.0 7	19800.0 5	17500.0 3	12600.0 3	9830.0 3	10500.0 2	8250.0 1	4960.0 1
1970	15300.0 20	14200.0 20	10600.0 22	7010.0 29	4900.0 32	3930.0 30	3250.0 30	2850.0 27	2050.0 31	1220.0 33
1971	14100.0 22	13700.0 21	13000.0 16	11100.0 16	10500.0 8	7380.0 9	5530.0 12	5010.0 10	4090.0 10	2320.0 12



STATION NUMBER 05481300

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

DES MOINES RIVER NEAR STRATFORD, IOWA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	CFS_DAYS					
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS						
1921													1	18	21	22	11	54	20	51	59	41	16	25	13	5	4	4								763195.0					
1922							2	9	4	5	55	22	13	22	32	36	25	16	25	25	24	12	10	13	2	6	2	5									459207.0				
1923							6	17	86	26	16	22	24	30	23	41	16	15	17	6	3	7	4	2	3	1											200784.0				
1924								6	17	10	7	11	2	12	25	40	48	40	33	26	27	13	21	13	12	3												497509.0			
1925						2	5	2	7	50	14	33	17	22	34	18	34	41	16	19	16	19	7	7	2													248056.0			
1926							3	7	8	21	20	54	37	29	25	18	28	25	27	18	8	17	4	6	8	2												254465.0			
1927												23	18	16	32	42	26	24	9	15	12	26	41	18	13	22	15	11	2									736114.0			
1928								8	40	15	18	25	34	16	19	29	16	20	30	30	23	29	11	2	1													342724.0			
1929												22	13	19	60	11	24	39	34	20	33	19	18	15	18	5	3	5	2	1	4							767386.0			
1930						10	4	20	25	43	12	29	54	23	15	35	15	29	10	18			15	8														272700.0			
1931							2	16	14	7	23	14	100	24	11	8	2	3	2	3	1	2	1																85203.0		
1932												7	10	10	23	20	25	13	4	10	49	52	22	39	24	9	25	5	15			4						1012988.0			
1933												1	9	11	37	49	45	44	24	52	10	15	17	5	6	15	7	1	2	2	2	1	1	2	2	1			403106.0		
1934						5	10	32	56	72	39	55	15	14	16	14	9	6	5	2	3	4	5	1	2														103992.0		
1935												17	27	17	29	28	17	17	29	15	25	29	27	18	12	13	9	9	9	6	7	2	2	1					505767.0		
1936							1	23	14	19	19	15	47	35	23	13	12	11	12	18	20	17	8	18	7	11	4	5	10	4									447723.0		
1937								1	21	7	6	20	27	32	36	38	14	9	11	8	3	8	20	37	24	13	12	9	2	3	3	1							587525.0		
1938							1	1	8	21	23	16	18	19	13	14	9	10	6	6	8	23	29	21	42	30	22	12	2	3	2	3	3						874704.0		
1939								1	3	5	8	1	11	25	23	17	24	41	45	22	35	24	24	20	8	9	7	7	2	3									456530.0		
1940		10	16	14			2	26	24	36	45	13	10	7	21	22	33	20	21	11	8	13	4	2	3	1												141912.0			
1941									10	18	22	7	10	22	24	20	44	22	22	21	27	49	30	8	6	3													523334.0		
1942																10	6	19	20	32	65	85	43	31	37	10	7												1059237.0		
1943									2	6	12	25	17	7	9	22	20	21	35	35	57	31	23	22	19	2													825057.0		
1944												8	26	18	41	34	42	29	19	34	18	17	13	22	20	5	5	4	5	4	2								1068361.0		
1945												1	36	10	17	23	41	17	19	3	4	24	23	12	17	21	25	18	27	17	9	1							1163713.0		
1946								10	4	6	10	35	45	29	26	13	10	10	19	18	26	16	22	19	25	13	5	1	2	1									655074.0		
1947									4	6	11	13	4	21	31	31	22	33	35	17	5	25	24	19	21	13	9	8	4	5	1	2	1						1030412.0		
1948							1	6	12	27	20	17	26	22	39	21	18	25	16	17	15	11	11	29	7	6	9	3	4	4									421069.0		
1949									2	30	49	52	28	29	7	20	15	5	9	20	21	14	8	6	7	14	5	12	7	1									535893.0		
1950							15	25	32	12	31	22	34	3	8	5	6	4	16	19	28	26	28	17	17	6	3	3	5										392023.0		
1951								1	9	8	36	25	10	6	13	11	12	10	4	10	8	10	16	23	15	23	18	21	19	20	15	12	7	3					1621825.0		
1952												1	9	9	5	26	16	29	29	43	40	37	15	33	17	16	11	10	13	4	3									983787.0	
1953												1	11	43	74	17	16	12	14	6	4	9	8	13	20	34	36	18	15	6	8									595246.0	
1954												11	15	25	47	21	18	10	8	8	16	15	27	27	29	17	19	11	13	6	3	4	5	2	1	1	2		1	2	758390.0
1955												9	11	15	16	6	11	9	32	13	16	22	34	32	33	32	27	17	18	7	5									403110.0	
1956																																								77926.0	
1957																																								160587.0	
1958																																								235398.0	



STATION NUMBER 05481300

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

DES MOINES RIVER NEAR STRATFORD, IOWA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	CFS_DAYS	
YEAR	NUMBER OF DAYS IN CLASS																																	CFS_DAYS			
1959	7	41	35	43	13	11	14	22	11	9	13	19	29	19	21	10	7	7	3	8	8	4	3	4	4	4	4	1	1	2	1	315597.0					
1960										1	29	34	32	72	42	25	10	12	8	15	14	17	16	15	6	5	6	1	1	2	1	683768.0					
1961								16	23	18	14	5	30	28	16	23	31	18	10	25	19	25	19	14	12	4	1	2	2	3	2	628113.0					
1962												1	19	7	44	29	26	36	21	29	19	16	15	20	17	21	13	8	8	9	4	3	1275310.0				
1963											5	16	19	23	27	22	12	25	37	25	25	24	22	33	26	15	9						632676.0				
1964								10	18	35	28	14	39	46	17	17	15	15	18	11	14	3	11	23	18	6	3							473017.0			
1965										5	9	23	30	25	42	30	21	18	21	16	18	12	6	22	13	16	12	8	4	2	3	3	4	1429244.0			
1966											8	17	4	17	17	15	20	18	11	33	57	57	40	19	8	10	9	2	1	2				671665.0			
1967								1	2	48	40	53	23	20	14	17	23	19	27	22	19	7	3	3	4	6	2	2	3	4	3				411552.0		
1968								10	10	26	32	49	52	43	35	19	14	12	21	16	7	4	6	3	7										149607.0		
1969															14	41	30	21	19	16	16	21	18	25	22	24	20	14	15	13	29	7			1811079.0		
1970															23	41	42	21	43	44	26	7	18	18	21	14	34	5	1	2	2	1	2			444061.0	
1971																																					847239.0

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	18627	100.0	9	120.00	747	16554	88.9	18	1100.0	963	7006	37.6	27	9900	190	445	2.3
1	17.00	10	14627	100.0	10	150.00	1281	15807	84.9	19	1400.0	1019	6043	32.4	28	13000	99	255	1.3
2	22.00	17	14617	99.9	11	200.00	1009	14526	78.0	20	1800.0	1054	5024	27.0	29	16000	89	156	.8
3	28.00	29	13600	99.9	12	250.00	1092	13517	72.6	21	2300.0	962	3970	21.3	30	21000	39	67	.3
4	35.00	30	13471	99.7	13	320.00	1091	12425	66.7	22	2900.0	816	3008	16.1	31	26000	17	28	.1
5	45.00	256	13481	99.2	14	410.00	1160	11334	60.8	23	3700.0	603	2192	11.8	32	34000	4	11	.0
6	55.00	356	16215	97.8	15	520.00	1136	10174	54.6	24	4800.0	542	1587	8.5	33	43000	5	7	.0
7	74.00	469	17559	95.9	16	670.00	1049	9038	48.5	25	6100.0	360	1047	5.6	34	55000	2	2	.0
8	94.00	836	17390	93.4	17	860.00	983	7989	42.9	26	7800.0	242	687	3.7					



LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## DES MOINES RIVER NEAR BOONE, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1921	580.0 47	522.0 47	653.0 47	752.0 47	859.0 47	1240.0 47	1490.0 47	1570.0 47	1760.0 45	3030.0 42
1922	169.0 40	170.0 39	173.0 37	178.0 36	181.0 34	187.0 28	277.0 31	368.0 31	875.0 38	1720.0 33
1923	65.0 19	71.0 19	83.1 21	95.6 24	101.0 20	103.0 12	117.0 9	160.0 13	140.0 7	943.0 12
1924	62.0 19	71.3 20	82.1 20	104.0 26	109.0 24	172.0 26	250.0 26	371.0 32	555.0 20	897.0 11
1925	100.0 30	100.0 29	100.0 27	100.0 25	102.0 21	134.0 21	179.0 20	263.0 24	470.0 28	1090.0 17
1926	43.0 9	44.7 9	58.3 11	64.6 10	94.7 15	162.0 25	288.0 33	408.0 34	458.0 26	808.0 8
1927	45.0 12	59.0 15	59.6 12	68.8 12	94.2 14	143.0 22	180.0 21	209.0 22	558.0 31	977.0 13
1928	85.0 28	86.0 27	86.0 24	91.6 22	95.5 17	107.0 13	146.0 18	173.0 16	219.0 16	1710.0 30
1929	125.0 34	141.0 32	187.0 29	268.0 42	430.0 45	514.0 42	524.0 40	732.0 42	917.0 39	1560.0 27
1930	110.0 31	110.0 30	110.0 29	117.0 29	135.0 27	187.0 29	271.0 29	299.0 26	299.0 22	1350.0 21
1931	59.0 15	60.3 15	63.7 15	71.6 14	95.7 18	133.0 20	143.0 15	157.0 12	178.0 9	584.0 4
1932	49.0 13	57.0 13	61.9 14	73.6 15	81.0 9	128.0 19	192.0 23	188.0 20	264.0 18	1710.0 31
1933	83.0 26	155.0 37	155.0 34	155.0 33	227.0 37	293.0 35	283.0 32	308.0 28	431.0 25	1490.0 23
1934	40.0 6	40.0 4	43.3 5	60.9 7	74.4 8	94.1 7	101.0 7	120.0 7	141.0 6	875.0 10
1935	51.0 14	55.0 11	58.1 10	64.5 8	82.8 10	90.5 6	98.5 6	112.0 6	191.0 12	765.0 7
1936	70.0 21	70.7 18	71.3 18	79.6 17	114.0 25	153.0 24	193.0 24	214.0 23	109.0 14	1490.0 24
1937	40.0 7	43.3 7	46.9 6	50.3 5	55.6 6	97.5 10	145.0 16	183.0 19	423.0 24	1010.0 16
1938	40.0 8	55.0 12	69.3 17	81.8 18	91.0 13	94.9 8	126.0 10	173.0 17	277.0 19	1550.0 26
1939	295.0 45	292.0 45	302.0 44	355.0 45	373.0 43	580.0 44	642.0 43	865.0 43	1840.0 46	2920.0 41
1940	17.0 1	18.0 1	19.1 1	20.4 1	22.7 1	35.0 1	50.4 2	61.5 2	71.2 2	511.0 2
1941	32.0 3	43.0 5	57.6 9	75.4 15	133.0 26	237.0 33	381.0 35	419.0 35	553.0 29	844.0 9
1942	110.0 32	112.0 31	114.0 30	133.0 31	173.0 31	406.0 40	821.0 44	1230.0 45	1590.0 44	2280.0 37
1943	145.0 35	147.0 34	156.0 35	185.0 37	224.0 36	283.0 34	390.0 36	534.0 36	1140.0 42	2280.0 38
1944	250.0 43	273.0 43	316.0 45	333.0 44	373.0 44	515.0 42	605.0 42	625.0 40	808.0 36	1960.0 34
1945	145.0 35	148.0 35	158.0 36	172.0 35	179.0 33	207.0 30	264.0 28	314.0 29	582.0 22	3240.0 44
1946	80.0 23	80.0 23	81.4 19	89.3 21	139.0 28	184.0 27	227.0 25	305.0 27	620.0 23	3190.0 43
1947	170.0 41	187.0 40	203.0 40	223.0 39	292.0 40	378.0 38	530.0 41	545.0 41	682.0 24	1710.0 32
1948	44.0 10	51.0 10	53.3 8	64.5 9	71.6 7	126.0 18	184.0 22	198.0 21	188.0 10	2860.0 40
1949	74.0 22	78.0 22	83.7 23	93.4 23	99.9 19	113.0 15	151.0 19	150.0 10	196.0 13	1230.0 19
1950	37.0 5	40.0 5	40.3 4	40.9 4	45.8 4	52.2 3	64.7 5	80.9 5	103.0 5	1000.0 15
1951	57.0 15	58.7 14	60.4 13	67.9 11	86.3 12	94.9 9	112.0 8	163.0 14	329.0 23	1420.0 22
1952	260.0 44	324.0 45	424.0 46	444.0 46	569.0 46	774.0 46	859.0 45	1010.0 44	1520.0 43	4850.0 47
1953	87.0 22	103.0 29	117.0 31	126.0 30	141.0 29	145.0 23	145.0 17	151.0 11	199.0 15	2000.0 25
1954	66.0 20	66.0 17	66.7 16	70.3 13	82.8 11	99.9 11	135.0 12	136.0 8	189.0 11	1520.0 25
1955	149.0 38	187.0 41	219.0 41	234.0 40	246.0 38	317.0 36	426.0 37	545.0 39	993.0 40	2480.0 39
1956	45.0 11	46.7 9	50.1 7	50.5 6	52.8 5	54.1 4	55.0 3	62.6 3	73.7 3	617.0 5
1957	25.0 2	29.0 2	29.1 2	33.6 2	44.5 3	54.1 5	54.5 4	56.8 4	72.7 4	208.0 1
1958	33.0 27	85.3 25	91.0 26	105.0 27	157.0 30	216.0 31	262.0 27	295.0 25	278.0 20	537.0 3



STATION\_NUMBER 5-4815.00

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

DES MOINES RIVER NEAR POONE, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1959	33.0 4	33.0 3	33.4 3	34.4 3	36.2 2	41.5 2	45.6 1	55.0 1	66.4 1	637.0 6
1960	129.0 33	149.0 36	153.0 33	160.0 34	214.0 35	327.0 37	353.0 34	355.0 30	468.0 27	1120.0 18
1961	82.0 25	82.0 24	83.4 22	86.0 19	95.3 16	107.0 14	142.0 14	180.0 18	290.0 21	2190.0 36
1962	242.0 42	250.0 42	251.0 42	260.0 41	323.0 41	406.0 41	446.0 38	530.0 37	701.0 35	1650.0 28
1963	145.0 37	145.0 33	145.0 32	152.0 32	178.0 32	225.0 32	272.0 30	392.0 33	961.0 37	2340.0 45
1964	81.0 24	83.7 25	87.3 25	88.6 20	104.0 22	124.0 17	139.0 13	172.0 15	227.0 17	1350.0 20
1965	156.0 39	163.0 38	181.0 38	209.0 38	267.0 39	387.0 39	474.0 39	545.0 38	1020.0 41	1680.0 29
1966	265.0 45	279.0 44	279.0 43	289.0 43	334.0 42	590.0 45	1170.0 45	1260.0 46	2040.0 47	4390.0 46
1967	61.0 17	74.3 21	101.0 28	106.0 28	108.0 23	119.0 16	127.0 11	144.0 9	152.0 8	997.0 14



STATION\_NUMBER 5-4815.00

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

DES MOINES RIVER NEAR BOONE, IOWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1921	10400.0 26	10200.0 25	9260.0 27	7170.0 26	5750.0 22	4120.0 24	3460.0 24	3150.0 22	2710.0 22	2090.0 13
1922	11200.0 25	11000.0 25	10200.0 22	7710.0 22	4970.0 29	4010.0 26	3270.0 27	2660.0 28	2050.0 29	1240.0 29
1923	6520.0 39	5990.0 37	5070.0 36	3850.0 35	2530.0 37	1570.0 40	1390.0 40	1210.0 41	872.0 41	550.0 42
1924	7350.0 34	6330.0 35	6180.0 33	5380.0 32	4140.0 33	3030.0 33	2410.0 35	2110.0 35	2000.0 21	1360.0 27
1925	4150.0 44	3780.0 44	3390.0 42	2790.0 41	2300.0 39	1650.0 41	1230.0 41	1220.0 40	1070.0 39	680.0 40
1926	6090.0 39	5010.0 40	4120.0 39	3000.0 38	2020.0 42	1310.0 43	1030.0 43	834.0 43	827.0 42	697.0 39
1927	10170.0 27	9900.0 27	9530.0 25	8170.0 23	6650.0 18	5850.0 14	4970.0 11	4420.0 13	3420.0 13	2020.0 15
1928	4960.0 41	4350.0 41	3230.0 43	2770.0 42	2460.0 38	2190.0 37	2040.0 36	1920.0 36	1380.0 36	936.0 36
1929	23600.0 11	22800.0 11	19400.0 10	12700.0 10	8410.0 12	7050.0 9	5710.0 10	4620.0 11	3340.0 14	2100.0 12
1930	3910.0 45	3910.0 43	3790.0 40	2960.0 39	2160.0 40	2130.0 38	1750.0 38	1530.0 39	1240.0 38	747.0 38
1931	2760.0 46	1970.0 45	1430.0 46	1010.0 46	579.0 47	330.0 47	303.0 47	294.0 47	266.0 47	223.0 46
1932	15490.0 16	16400.0 12	14200.0 14	10900.0 15	7190.0 17	5930.0 13	4810.0 14	4700.0 10	4310.0 8	2770.0 8
1933	29300.0 5	26700.0 5	20400.0 7	12900.0 9	7430.0 15	4620.0 18	3300.0 26	2600.0 29	1900.0 34	1100.0 33
1934	4300.0 42	3930.0 42	3120.0 44	2090.0 45	1230.0 45	690.0 45	667.0 45	605.0 45	450.0 45	285.0 45
1935	15300.0 17	14900.0 13	11300.0 17	9330.0 16	6180.0 19	3570.0 29	2770.0 30	2590.0 30	2520.0 23	1390.0 25
1936	12200.0 24	11900.0 22	10400.0 20	9320.0 17	7290.0 16	4670.0 16	2690.0 21	3030.0 23	2050.0 20	1220.0 30
1937	17700.0 12	15300.0 15	11000.0 18	7350.0 25	5790.0 21	4540.0 19	3950.0 18	4070.0 16	2980.0 19	1610.0 22
1938	24300.0 10	23600.0 9	20400.0 9	14900.0 7	9190.0 9	5590.0 15	4930.0 12	4450.0 12	4000.0 9	2400.0 10
1939	12700.0 22	11500.0 24	9270.0 26	7720.0 21	5370.0 27	3960.0 27	2970.0 29	2380.0 31	1920.0 33	1360.0 26
1940	4270.0 43	3750.0 45	3110.0 45	2130.0 44	1670.0 44	1060.0 44	831.0 44	717.0 44	689.0 44	388.0 44
1941	6990.0 36	6680.0 34	5970.0 34	4820.0 35	3860.0 34	2850.0 35	2740.0 31	2720.0 27	2140.0 26	1430.0 24
1942	9020.0 29	8830.0 28	8050.0 28	6820.0 28	5410.0 26	4040.0 25	3940.0 19	3750.0 19	2250.0 15	2900.0 6
1943	8350.0 33	7830.0 32	7100.0 31	6650.0 29	5710.0 23	4530.0 20	4020.0 17	3650.0 20	3490.0 11	2260.0 11
1944	29310.0 6	27400.0 5	23400.0 5	15400.0 5	13900.0 5	10500.0 3	8290.0 3	6980.0 5	5080.0 5	2920.0 5
1945	15200.0 18	15400.0 15	12700.0 15	11600.0 14	10100.0 8	8070.0 7	7670.0 6	7370.0 3	5820.0 4	3190.0 4
1946	15500.0 14	15100.0 17	11300.0 16	7490.0 23	6080.0 20	4500.0 21	4290.0 16	4250.0 14	2450.0 12	1900.0 16
1947	34000.0 3	31000.0 3	23000.0 6	18600.0 5	14100.0 4	9210.0 5	7780.0 4	6830.0 6	4900.0 6	2820.0 7
1948	12700.0 23	11700.0 23	9960.0 24	7380.0 24	5660.0 24	4210.0 23	3590.0 22	2900.0 24	2120.0 27	1150.0 31
1949	14000.0 20	13300.0 20	11000.0 19	9210.0 18	7720.0 14	6350.0 11	4760.0 15	3860.0 17	2730.0 21	1470.0 23
1950	9220.0 28	8710.0 29	7270.0 30	5160.0 33	3310.0 35	2940.0 34	2620.0 33	2360.0 32	1980.0 32	1070.0 35
1951	27200.0 8	26400.0 7	24100.0 4	21900.0 2	17800.0 2	13600.0 2	11200.0 2	10900.0 1	8210.0 1	4440.0 1
1952	15400.0 15	16300.0 13	14500.0 13	12400.0 11	10200.0 7	7330.0 8	5900.0 8	5430.0 7	4460.0 7	2690.0 9
1953	3740.0 30	8710.0 30	8040.0 29	6320.0 30	5530.0 25	4340.0 22	3890.0 20	3780.0 18	3060.0 18	1630.0 21
1954	55900.0 1	51700.0 1	36500.0 2	21600.0 3	13600.0 6	8080.0 6	6130.0 7	5120.0 8	3920.0 10	2080.0 14
1955	6030.0 40	5680.0 38	4750.0 37	3540.0 37	2580.0 36	2190.0 36	1950.0 37	1780.0 37	1380.0 37	1100.0 34
1956	1200.0 47	1130.0 47	1040.0 47	938.0 47	704.0 46	519.0 46	475.0 46	416.0 46	340.0 46	213.0 47
1957	6950.0 37	5250.0 39	3520.0 41	2410.0 43	1960.0 43	1530.0 42	1180.0 42	1010.0 42	783.0 43	441.0 43
1958	8900.0 31	6480.0 35	4420.0 38	2960.0 40	2060.0 41	1920.0 39	1480.0 39	1380.0 39	1050.0 40	645.0 41



STATION\_NUMBER 5-4815.00

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

DES MOINES RIVER NEAR BOONE, IOWA

YEAR	1	3	7	15	30	60	90	120	182	ANNUAL
1959	12900.0 21	12300.0 21	10000.0 23	9350.0 19	5240.0 28	3320.0 31	2600.0 34	2290.0 34	1640.0 35	866.0 37
1960	27900.0 7	24400.0 9	18200.0 11	12400.0 12	8490.0 11	6420.0 10	5750.0 9	4700.0 9	3220.0 16	1970.0 17
1961	25500.0 9	23500.0 10	19500.0 9	13300.0 8	8850.0 10	6240.0 12	4870.0 13	4220.0 15	3130.0 17	1720.0 20
1962	29900.0 4	28300.0 4	24600.0 3	20500.0 4	15900.0 3	10000.0 4	7720.0 5	7140.0 4	6210.0 3	3490.0 3
1963	7160.0 35	7000.0 33	5940.0 35	4900.0 34	4450.0 32	3600.0 28	3590.0 23	3300.0 21	2770.0 20	1730.0 19
1964	3570.0 32	8090.0 31	7040.0 32	5830.0 31	4570.0 31	3370.0 30	2660.0 32	2300.0 33	2260.0 24	1290.0 28
1965	50800.0 2	49300.0 2	43600.0 1	32900.0 1	21900.0 1	14400.0 1	11500.0 1	9220.0 2	6810.0 2	3920.0 2
1966	15200.0 19	13400.0 19	10300.0 21	6950.0 27	4720.0 30	3160.0 32	3020.0 28	2710.0 26	2140.0 25	1840.0 18
1967	17000.0 13	16000.0 14	15000.0 12	11900.0 13	8040.0 13	4630.0 17	3310.0 25	2840.0 25	2090.0 28	1130.0 32







DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

DES MOINES RIVER NEAR BOONE, IOWA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	CFS DAYS
YEAR																																				
1959						25	44	31	37	9	18	19	14	10	13	27	27	21	21	6	7	5	8	9	3	4	4	4	3							315997.0
1960											1	29	37	35	85	36	15	18			7	14	17	17	17	16	7	7	3	2	2	1			683768.0	
1961									9	18	35	10	9	32	28	21	31	26	15	19	22	31	19	16	10	4	2	1	3	3	1				628113.0	
1962											1	19	12	51	31	28	35	28	25	17	15	22	18	21	14	7	10	8	3						1275310.0	
1963											5	13	22	27	29	19	16	36	37	28	23	27	33	28	13	9									632676.0	
1964									7	10	46	23	19	49	39	24	15	14	19	17	14	9	11	24	20	4	2								473017.0	
1965											4	10	29	30	29	37	37	21	24	16	21	12	6	27	13	16	13	6	4	3	2	5			1429244.0	
1966											8	15	6	18	19	20	17	19	28	54	63	47	19	8	14	6	1	2	1						671665.0	
1967									1	1	25	64	40	36	20	15	25	24	18	31	23	10	4	3	5	6	3	1	3	6					411552.0	

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	17166	100.0	9	66.00	454	16595	96.6	18	740.0	999	7954	46.3	27	8400	208	502	2.9
1	7.70	0	17166	100.0	10	87.00	610	16131	94.0	19	970.0	1165	6955	40.5	28	11000	127	294	1.7
2	10.00	0	17166	100.0	11	110.00	1038	15521	90.4	20	1300.0	984	5790	33.7	29	14000	90	167	.9
3	13.00	0	17166	100.0	12	150.00	953	14483	84.4	21	1700.0	1033	4806	28.0	30	19000	41	77	.4
4	17.00	19	17166	100.0	13	190.00	1133	13530	78.8	22	2200.0	1075	3773	22.0	31	25000	25	36	.2
5	23.00	18	17148	99.9	14	250.00	1139	12307	72.2	23	2900.0	733	2698	15.7	32	32000	3	11	.0
6	30.00	47	17130	99.8	15	330.00	1089	11259	65.6	24	3700.0	594	1965	11.4	33	42000	6	8	.0
7	39.00	167	17083	99.5	16	430.00	1195	10169	59.2	25	4900.0	540	1371	8.0	34	55000	2	2	.0
8	51.00	331	16916	98.5	17	570.00	1020	8974	52.3	26	6400.0	329	831	4.8					



## STATION NUMBER 05481650

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

DES MOINES RIVER NEAR SAYLORVILLE, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1963	170.00 6	170.00 4	170.00 4	175.00 4	206.00 4	250.00 4	294.00 4	402.00 4	891.00 7	2580.00 7
1964	95.00 3	98.70 3	103.00 3	105.00 3	117.00 3	149.00 3	167.00 3	195.00 3	255.00 3	1420.00 3
1965	210.00 7	210.00 7	214.00 7	236.00 7	292.00 8	401.00 8	489.00 7	580.00 7	1190.00 8	1840.00 5
1966	318.00 9	333.00 9	347.00 9	357.00 9	410.00 9	749.00 9	1220.00 9	1320.00 9	2280.00 9	4830.00 9
1967	60.00 2	76.70 2	98.90 2	103.00 2	109.00 2	118.00 2	121.00 2	137.00 2	147.00 2	1180.00 1
1968	44.00 1	44.70 1	46.00 1	51.00 1	68.10 1	95.80 1	104.00 1	115.00 1	145.00 1	1230.00 2
1969	164.00 4	183.00 6	185.00 6	205.00 6	276.00 6	395.00 7	559.00 8	862.00 8	786.00 6	1750.00 4
1970	220.00 8	220.00 8	229.00 8	243.00 8	234.00 7	298.00 5	360.00 5	457.00 5	595.00 4	4200.00 8
1971	168.00 5	173.00 5	176.00 5	190.00 5	261.00 5	338.00 6	423.00 6	500.00 6	610.00 5	2100.00 6

## STATION NUMBER 05481650

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

DES MOINES RIVER NEAR SAYLORVILLE, IOWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1962	31000.0 2	29200.0 2	26000.0 2	21900.0 2	17300.0 3	11100.0 3	8610.0 3	7750.0 3	6640.0 3	3820.0 3
1963	7900.0 9	7380.0 9	6070.0 9	5120.0 9	4450.0 9	3690.0 8	3690.0 6	3440.0 5	2880.0 5	1800.0 6
1964	3100.0 8	7760.0 8	6710.0 8	5710.0 8	4720.0 8	3480.0 9	2900.0 5	2510.0 9	2490.0 7	1370.0 7
1965	47100.0 1	46300.0 1	42700.0 1	33800.0 1	23500.0 1	15700.0 1	12700.0 1	10300.0 2	7420.0 2	4310.0 2
1966	17000.0 5	16300.0 5	13200.0 5	8650.0 6	5840.0 6	3830.0 7	2660.0 7	3260.0 7	2510.0 6	2150.0 5
1967	20500.0 4	19400.0 4	17900.0 4	14300.0 4	9740.0 5	5610.0 5	3970.0 5	3330.0 6	2430.0 8	1300.0 9
1968	4950.0 10	4180.0 10	3550.0 10	2690.0 10	2110.0 10	1600.0 10	1200.0 10	1030.0 10	786.0 10	466.0 10
1969	23100.0 3	23500.0 3	22100.0 3	19200.0 3	17400.0 2	12900.0 2	10200.0 2	10900.0 1	8560.0 1	5170.0 1
1970	13700.0 7	13100.0 7	10900.0 7	7640.0 7	5330.0 7	4130.0 6	3460.0 8	3120.0 8	2280.0 9	1360.0 8
1971	13800.0 6	13500.0 6	12900.0 6	11500.0 5	10900.0 4	7890.0 4	6160.0 4	5570.0 4	4490.0 4	2550.0 4



STATION NUMBER 05481650

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

DES MOINES RIVER NEAR SAYLORVILLE, IOWA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	CFS_DAYS
YEAR	NUMBER OF DAYS IN CLASS																																	CFS_DAYS		
1962										9	9	40	32	21	9	30	31	20	19	21	15	17	18	18	14	8	8	5	11	5	4	1		1392546.0		
1963								13	12	21	25	16	20	10	28	21	30	25	22	18	20	29	21	21	8	5									656497.0	
1964				1	21	15	17	41	13	44	35	12	10	8	16	18	18	17	12	7	10	15	20	12	4										502515.0	
1965							7	10	18	29	21	41	14	22	24	11	18	15	18	15	8	9	23	8	12	9	15	4	2	3	4	3	2		1572494.0	
1966						7	10	9	9	10	18	15	14	13	11	23	28	47	40	47	25	7	9	8	4	3	4	2	2						785606.0	
1967				2	13	58	32	29	29	17	13	6	19	18	15	15	29	18	15	4	3	2	2	6	5	3	1	1	4	5	1				473823.0	
1968	9	9	4	22	28	37	47	33	43	28	20	8	7	11	13	19	8	4	6	4	3	2	1												170480.0	
1969										7	26	33	31	7	24	9	24	15	15	23	13	27	15	24	9	13	14	25	11						1888699.0	
1970								8	12	24	45	25	32	49	32	10	6	10	22	20	26	25	7	4	1	1	3	1	2						497074.0	
1971																																			929406.0	

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	3652	100.0	9	240.00	157	3093	84.7	18	1600.0	207	1365	37.4	27	11000	45	178	4.8
1	44.00	9	3652	100.0	10	290.00	206	2936	80.4	19	2000.0	165	1158	31.7	28	13000	50	133	3.6
2	74.00	9	3643	99.5	11	360.00	191	2730	74.8	20	2400.0	189	993	27.2	29	16000	47	83	2.2
3	67.00	6	3634	99.5	12	450.00	205	2539	69.5	21	3000.0	171	804	22.0	30	20000	19	36	.9
4	83.00	36	3628	99.3	13	550.00	229	2334	63.9	22	3700.0	164	633	17.3	31	24000	7	17	.4
5	100.00	107	3592	98.4	14	680.00	214	2105	57.6	23	4500.0	130	529	14.5	32	30000	5	10	.2
6	130.00	92	3485	95.4	15	840.00	138	1891	51.8	24	5600.0	100	399	10.9	33	37000	3	5	.1
7	150.00	136	3393	92.9	16	1000.00	213	1753	48.0	25	6900.0	76	299	8.2	34	46000	2	2	.0
8	190.00	164	3257	89.2	17	1300.00	175	1540	42.2	26	8500.0	45	223	6.1					



STATION NUMBER 05481950

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

BEAVER CREEK NEAR GRIMES, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1952	7.40 10	8.67 10	10.10 9	12.40 9	35.30 10	139.00 10	144.00 10	188.00 10	236.00 10	322.00 10
1953	0.50 4	0.57 4	0.64 4	0.69 4	0.75 2	0.88 2	3.07 3	5.05 4	6.05 3	149.00 5
1954	1.00 6	1.13 6	2.00 6	2.07 6	2.45 4	3.83 4	4.14 4	4.55 3	7.42 4	77.00 1
1955	2.90 8	2.93 8	3.06 7	3.64 7	6.36 8	8.44 6	9.91 5	11.50 5	14.60 5	206.00 9
1966	0.70 5	0.70 5	0.74 5	0.83 5	3.01 6	20.90 9	34.70 9	62.30 9	68.90 9	200.00 8
1967	0.10 2	0.10 2	0.10 2	0.10 1	0.15 1	0.28 1	0.42 1	0.50 1	0.65 1	147.00 4
1968	0.20 3	0.28 3	0.34 3	0.48 3	0.99 3	1.40 3	1.94 2	2.27 2	2.27 2	105.00 2
1969	2.30 7	2.90 7	3.54 8	5.05 8	6.22 7	8.66 7	15.70 7	42.40 8	44.70 8	127.00 3
1970	6.60 9	7.57 9	12.40 10	13.70 10	15.40 9	19.00 8	26.80 8	37.10 7	35.90 7	178.00 7
1971	0.00 1	0.00 1	0.08 1	0.20 2	2.50 5	5.95 5	11.00 6	20.70 6	32.10 6	160.00 6



STATION NUMBER 05481950

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

BEAVER CREEK NEAR GRIMES, ICHA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1961	1520.0 10	1300.0 10	1020.0 8	802.0 8	695.0 6	620.0 5	497.0 5	456.0 5	362.0 4	209.0 4
1962	2560.0 6	2480.0 6	2250.0 4	1660.0 4	1080.0 4	692.0 3	651.0 2	560.0 2	423.0 2	322.0 1
1963	2020.0 7	1460.0 9	818.0 11	630.0 10	487.0 10	295.0 10	287.0 10	242.0 10	197.0 8	103.0 9
1964	1790.0 9	1480.0 8	1010.0 9	684.0 9	504.0 9	424.0 8	357.0 7	290.0 8	197.0 9	103.0 10
1965	5900.0 2	3360.0 2	3150.0 1	2230.0 1	1730.0 1	1210.0 1	870.0 1	713.0 1	483.0 1	254.0 2
1966	5080.0 1	4320.0 1	2880.0 2	1760.0 2	1220.0 2	781.0 2	548.0 3	466.0 4	328.0 5	198.0 5
1967	3360.0 5	2940.0 4	2260.0 3	1660.0 3	1150.0 3	616.0 6	414.0 6	313.0 6	209.0 7	105.0 8
1968	1450.0 11	1220.0 11	953.0 10	547.0 11	357.0 11	193.0 11	145.0 11	115.0 11	78.4 11	40.6 11
1969	3770.0 3	3220.0 3	2150.0 5	1410.0 5	886.0 5	637.0 4	498.0 4	521.0 3	415.0 3	234.0 3
1970	3610.0 4	2910.0 5	1830.0 6	1080.0 6	633.0 8	386.0 9	323.0 9	274.0 9	193.0 10	110.0 7
1971	1300.0 8	1530.0 7	1100.0 7	860.0 7	680.0 7	434.0 7	327.0 8	305.0 7	212.0 6	121.0 6



STATION NUMBER 05481950

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

BEAVER CREEK NEAR GRIMES, IOWA

CLASS	NUMBER OF DAYS IN CLASS																																		CFS_DAYS
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	
YEAR																																			
1961																																			76248.8
1962																																			117620.9
1963																																			37747.0
1964																																			37636.1
1965																																			92797.7
1966																																			72195.5
1967																																			38360.5
1968																																			14853.7
1969																																			85541.0
1970																																			40318.4
1971																																			44340.2

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	6	4017	100.0	9	1.00	68	3695	92.0	18	23.0	213	2370	59.0	27	570	92	262	6.5
1	0.04	1	4011	99.9	10	1.40	46	3627	90.3	19	33.0	215	2157	53.7	28	810	64	170	4.2
2	0.05	3	4010	99.3	11	2.00	69	3581	89.1	20	47.0	284	1942	48.3	29	1100	51	106	2.6
3	0.08	0	4007	99.8	12	2.80	128	3512	87.4	21	68.0	298	1658	41.3	30	1600	29	55	1.3
4	0.10	23	4007	99.8	13	4.00	132	3384	84.2	22	96.0	278	1360	33.9	31	2300	17	26	.6
5	0.20	20	3975	99.1	14	5.70	142	3251	80.9	23	140.0	243	1082	26.9	32	3300	7	9	.2
6	0.30	61	3959	98.6	15	8.10	220	3109	77.4	24	200.0	207	839	20.9	33	4700	2	2	.0
7	0.50	80	3898	97.0	16	12.00	247	2889	71.9	25	280.0	219	632	15.7	34				
8	0.70	123	3818	95.0	17	16.00	272	2642	65.8	26	400.0	151	413	10.3					



STATION\_NUMBER 5-4820.00

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

DES MOINES RIVER AT DES MOINES, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1916	580.0 45	580.0 45	580.0 45	698.0 45	985.0 45	1820.0 46	2180.0 46	2720.0 46	3440.0 46	5300.0 45
1917	100.0 26	100.0 25	100.0 23	100.0 19	100.0 15	111.0 11	135.0 12	201.0 16	246.0 12	2130.0 31
1918	70.0 15	70.0 14	70.0 12	75.7 12	83.3 9	106.0 9	130.0 11	155.0 10	217.0 10	2150.0 32
1919	260.0 38	288.0 40	324.0 39	340.0 38	401.0 39	647.0 42	845.0 41	888.0 39	1220.0 38	2110.0 30
1920	350.0 43	355.0 43	367.0 42	375.0 41	435.0 41	470.0 36	584.0 36	837.0 38	905.0 33	3340.0 41
1921	890.0 46	935.0 46	1000.0 46	1000.0 46	1150.0 46	1290.0 45	1620.0 45	1780.0 45	1990.0 44	3240.0 40
1922	200.0 34	200.0 34	201.0 34	203.0 33	208.0 31	238.0 28	365.0 32	516.0 33	1180.0 37	1520.0 25
1923	40.0 4	53.3 9	81.4 15	111.0 22	158.0 25	176.0 20	214.0 19	256.0 19	259.0 14	1270.0 14
1924	35.0 3	50.7 7	86.9 19	120.0 25	124.0 16	233.0 26	323.0 27	471.0 32	733.0 29	1170.0 12
1925	105.0 28	110.0 29	113.0 27	120.0 26	125.0 19	180.0 21	256.0 22	349.0 23	566.0 27	1310.0 15
1926	102.0 27	105.0 27	106.0 24	124.0 27	134.0 22	195.0 22	297.0 25	430.0 30	497.0 26	515.0 7
1927	70.0 16	73.3 17	77.1 14	91.2 14	136.0 24	253.0 31	358.0 31	371.0 27	1050.0 30	1430.0 17
1928	93.0 23	93.0 22	93.0 21	95.5 15	97.9 14	114.0 13	178.0 16	247.0 18	300.0 17	2010.0 27
1929	325.0 41	325.0 41	445.0 43	505.0 43	553.0 43	672.0 43	955.0 43	1230.0 42	1420.0 40	2090.0 29
1930	123.0 30	129.0 30	142.0 30	145.0 29	168.0 28	236.0 27	340.0 30	391.0 28	436.0 23	1740.0 23
1931	41.0 5	41.0 3	41.0 3	45.6 3	52.6 3	74.9 6	86.4 5	91.8 4	91.4 3	595.0 3
1932	41.0 6	41.0 4	43.6 4	50.4 5	59.8 7	67.7 5	110.0 7	134.0 7	209.0 8	2000.0 26
1933	172.0 32	179.0 32	185.0 32	188.0 31	250.0 33	341.0 33	331.0 29	363.0 25	488.0 25	1700.0 22
1934	60.0 12	60.0 12	61.4 8	78.8 13	89.9 11	118.0 14	127.0 10	149.0 9	183.0 7	1090.0 10
1935	55.0 10	58.7 11	61.7 9	70.4 9	95.3 13	112.0 12	123.0 8	142.0 8	216.0 11	883.0 6
1936	80.0 16	80.0 19	82.1 16	97.0 17	134.0 23	195.0 23	304.0 26	366.0 26	322.0 20	1890.0 24
1937	65.0 13	67.3 13	67.9 11	68.4 8	72.1 8	133.0 16	185.0 19	209.0 17	426.0 22	1200.0 13
1938	80.0 19	80.0 19	93.1 17	96.7 16	124.0 17	129.0 15	150.0 13	194.0 15	297.0 10	1650.0 20
1939	330.0 42	332.0 42	345.0 40	393.0 42	404.0 40	617.0 41	675.0 39	911.0 40	1960.0 43	3060.0 39
1940	24.0 1	24.0 1	24.4 1	26.3 1	29.9 1	44.4 1	50.6 1	70.9 2	79.7 2	564.0 2
1941	68.0 14	72.0 15	84.1 18	98.3 18	171.0 29	294.0 32	440.0 33	541.0 34	649.0 32	1080.0 9
1942	139.0 31	154.0 31	172.0 31	207.0 34	263.0 34	483.0 37	931.0 42	1430.0 44	2040.0 45	2810.0 36
1943	225.0 36	228.0 36	241.0 36	266.0 36	320.0 36	403.0 34	522.0 35	721.0 36	1420.0 41	2780.0 35
1944	250.0 37	287.0 39	351.0 41	361.0 39	398.0 38	555.0 39	669.0 38	710.0 35	926.0 35	2360.0 33
1945	180.0 33	183.0 33	189.0 33	199.0 32	219.0 32	250.0 30	330.0 28	397.0 29	700.0 30	3590.0 44
1946	90.0 22	90.0 20	91.4 20	101.0 20	162.0 26	205.0 25	255.0 21	353.0 24	772.0 31	3670.0 43
1947	270.0 39	280.0 37	287.0 38	372.0 40	472.0 42	592.0 40	760.0 40	963.0 41	914.0 34	2080.0 28
1948	97.0 24	99.7 23	106.0 25	110.0 21	130.0 20	200.0 24	268.0 23	290.0 20	271.0 15	3650.0 42
1949	97.0 25	102.0 26	106.0 26	112.0 23	125.0 19	136.0 17	173.0 15	179.0 13	257.0 13	1390.0 16
1950	32.0 2	32.0 2	36.6 2	42.3 2	55.1 4	83.7 7	103.0 6	117.0 6	150.0 6	1160.0 11
1951	55.0 11	58.3 10	62.1 10	70.9 10	93.9 12	104.0 8	123.0 9	173.0 12	324.0 21	1530.0 19
1952	369.0 44	490.0 44	509.0 44	531.0 44	612.0 44	951.0 44	1060.0 44	1250.0 43	1910.0 42	5580.0 46
1953	80.0 20	100.0 24	129.0 25	155.0 30	166.0 27	175.0 19	180.0 17	162.0 14	303.0 18	2410.0 34



STATION\_NUMBER 5-4820.00

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

DES MOINES RIVER AT DES MOINES, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1954	72.0 17	72.0 16	72.0 13	73.6 11	85.6 10	111.0 10	153.0 14	161.0 11	213.0 9	1690.0 21
1955	280.0 40	280.0 38	263.0 37	293.0 37	328.0 37	499.0 38	663.0 37	833.0 37	1380.0 39	2580.0 38
1956	50.0 8	50.0 6	50.7 6	53.9 6	57.1 5	58.9 2	60.6 2	65.4 1	77.3 1	734.0 5
1957	53.0 9	53.7 9	54.0 7	55.9 7	58.5 6	67.5 4	82.4 4	84.0 3	94.5 4	220.0 1
1958	90.0 21	92.0 21	97.6 22	118.0 24	181.0 30	249.0 29	270.0 24	312.0 22	312.0 19	692.0 4
1959	45.0 7	45.3 5	46.3 5	47.6 4	48.3 2	59.2 3	71.4 3	94.1 5	145.0 5	1000.0 8
1960	202.0 35	213.0 35	222.0 35	247.0 35	319.0 35	414.0 35	450.0 34	467.0 31	579.0 28	1470.0 18
1961	120.0 29	120.0 29	121.0 28	126.0 28	134.0 21	151.0 18	230.0 20	303.0 21	455.0 24	2570.0 37



## STATION\_NUMBER 5-4820.00

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## DES MOINES RIVER AT DES MOINES, IOWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1916	16900.0 17	16200.0 16	14600.0 16	12100.0 18	10500.0 9	8050.0 10	7490.0 8	6810.0 6	5200.0 6	3690.0 3
1917	26400.0 9	25700.0 8	22500.0 6	16100.0 6	10300.0 10	7140.0 13	7740.0 6	6650.0 7	4670.0 10	2460.0 15
1918	27000.0 7	26400.0 7	21300.0 9	14400.0 9	8640.0 15	4980.0 24	3620.0 27	3070.0 30	2440.0 30	1430.0 30
1919	14200.0 23	13500.0 23	12800.0 20	12400.0 16	11100.0 8	8850.0 5	8360.0 5	7730.0 5	5760.0 5	3450.0 7
1920	18200.0 14	17700.0 13	16200.0 12	12100.0 17	8130.0 20	5860.0 16	5740.0 14	5440.0 13	5010.0 9	3100.0 10
1921	9740.0 31	9230.0 31	8330.0 32	6470.0 31	5300.0 31	4070.0 31	3520.0 29	3290.0 26	2650.0 24	2310.0 18
1922	11500.0 28	11300.0 27	10500.0 26	7950.0 25	5340.0 30	4190.0 30	3500.0 30	3090.0 29	2500.0 25	1610.0 26
1923	7400.0 38	5970.0 37	5560.0 37	4600.0 36	3180.0 38	2270.0 40	1950.0 39	1670.0 39	1230.0 40	790.0 41
1924	7570.0 37	7000.0 36	6760.0 35	5940.0 35	4520.0 33	3490.0 33	2760.0 34	2510.0 34	2360.0 32	1610.0 27
1925	4360.0 44	4310.0 44	3810.0 43	3230.0 43	2640.0 42	1860.0 43	1400.0 42	1400.0 40	1260.0 39	815.0 40
1926	12000.0 27	9670.0 30	8490.0 31	6160.0 34	4190.0 34	2300.0 39	1550.0 40	1340.0 41	1050.0 41	569.0 37
1927	12500.0 26	12300.0 26	10800.0 25	9440.0 23	7520.0 21	6590.0 15	5740.0 15	5080.0 15	3960.0 18	2430.0 16
1928	4730.0 43	4390.0 43	3930.0 42	3370.0 40	3080.0 39	2790.0 36	2520.0 35	2290.0 35	1890.0 35	1300.0 35
1929	15600.0 20	14500.0 21	13600.0 18	13600.0 13	9840.0 12	8610.0 8	7010.0 10	5670.0 12	4110.0 15	2650.0 12
1930	6140.0 41	5520.0 41	4520.0 41	3340.0 41	2490.0 43	2390.0 38	1980.0 38	1770.0 38	1420.0 38	665.0 39
1931	1920.0 45	1610.0 45	1370.0 45	819.0 46	447.0 46	256.0 46	225.0 46	221.0 46	209.0 46	156.0 46
1932	18400.0 12	18400.0 11	18400.0 11	14500.0 8	9450.0 13	7440.0 11	5830.0 12	5830.0 11	5170.0 8	3290.0 8
1933	29400.0 6	27300.0 5	22100.0 7	14300.0 10	8330.0 18	5300.0 19	3820.0 26	3060.0 31	2220.0 33	1300.0 36
1934	5140.0 42	4440.0 42	3530.0 44	2320.0 44	1370.0 44	782.0 44	717.0 44	647.0 44	508.0 44	324.0 44
1935	17200.0 16	15800.0 17	14700.0 14	12500.0 15	8310.0 19	4760.0 27	3600.0 28	3290.0 27	3130.0 22	1710.0 23
1936	13100.0 25	12700.0 24	11600.0 22	10700.0 19	8630.0 16	5490.0 18	4390.0 22	3670.0 23	2490.0 28	1500.0 28
1937	15300.0 21	14300.0 22	11600.0 23	7710.0 27	6120.0 27	4930.0 25	4250.0 23	4480.0 19	3270.0 21	1780.0 22
1938	24400.0 10	23100.0 10	19400.0 10	14300.0 11	8720.0 14	5620.0 17	4950.0 17	4540.0 18	4160.0 13	2450.0 14
1939	13400.0 24	12600.0 25	10300.0 27	8360.0 24	5800.0 29	4210.0 29	3150.0 32	2500.0 33	2030.0 34	1460.0 29
1940	6320.0 40	5580.0 40	4680.0 40	3340.0 42	2940.0 40	1880.0 42	1340.0 43	1140.0 43	1020.0 42	560.0 42
1941	7930.0 35	7810.0 35	7280.0 33	6340.0 32	5050.0 32	3290.0 34	3260.0 31	3170.0 28	2500.0 26	1670.0 24
1942	9260.0 32	9200.0 32	8650.0 29	7450.0 29	6210.0 26	4930.0 26	4840.0 18	4570.0 17	4050.0 16	3640.0 4
1943	8150.0 34	7860.0 34	7230.0 34	6760.0 30	5990.0 28	5180.0 21	4770.0 19	4380.0 20	4150.0 14	2720.0 11
1944	33100.0 4	32400.0 4	29300.0 2	21100.0 4	17000.0 3	12900.0 2	10000.0 3	8340.0 4	6240.0 4	3550.0 6
1945	18500.0 11	17300.0 15	14600.0 15	13600.0 12	11700.0 5	9510.0 4	9110.0 4	8630.0 3	6790.0 2	3760.0 2
1946	16200.0 18	15000.0 19	11600.0 24	7740.0 26	6800.0 24	5290.0 20	4770.0 20	4930.0 16	4010.0 17	2260.0 19
1947	39200.0 2	35100.0 2	28500.0 3	22900.0 2	18100.0 2	12300.0 3	10200.0 2	6780.0 2	6360.0 3	3610.0 5
1948	18200.0 13	17800.0 12	14100.0 17	9820.0 21	6970.0 22	5000.0 23	4150.0 24	3320.0 25	2420.0 31	1340.0 32
1949	15300.0 22	14900.0 20	12600.0 21	9700.0 22	8440.0 17	6830.0 14	5140.0 16	4150.0 22	2960.0 23	1620.0 25
1950	10500.0 30	9700.0 29	8580.0 30	6240.0 33	4070.0 35	3600.0 32	3110.0 33	2970.0 32	2450.0 29	1330.0 33
1951	31400.0 5	31000.0 5	28200.0 4	25500.0 1	20100.0 1	15500.0 1	12800.0 1	12200.0 1	9260.0 1	5010.0 1
1952	17800.0 15	17500.0 14	16000.0 13	13500.0 14	11300.0 6	8240.0 9	6610.0 11	6340.0 9	5180.0 7	3160.0 5
1953	11100.0 29	10300.0 28	9790.0 28	7500.0 28	6430.0 25	5060.0 22	4530.0 21	4310.0 21	3460.0 20	1870.0 21



STATION\_NUMBER 5-4820.00

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

DES MOINES RIVER AT DES MOINES, IOWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1954	59100.0 1	52900.0 1	38100.0 1	22600.0 3	14600.0 4	8790.0 7	7020.0 9	5930.0 10	4520.0 11	2400.0 17
1955	6840.0 39	6460.0 39	5550.0 39	4430.0 38	3630.0 37	2600.0 37	2280.0 36	2090.0 36	1700.0 36	1420.0 31
1956	1150.0 46	1110.0 46	1030.0 46	955.0 45	700.0 45	544.0 45	512.0 45	436.0 45	356.0 45	219.0 45
1957	9200.0 33	8410.0 33	6080.0 36	3990.0 39	2800.0 41	2030.0 41	1560.0 41	1300.0 42	950.0 43	552.0 43
1958	8060.0 35	5830.0 39	5860.0 38	4510.0 37	3830.0 36	2950.0 35	2210.0 37	1950.0 37	1530.0 37	919.0 38
1959	16100.0 19	15300.0 18	13300.0 19	10600.0 20	6880.0 23	4550.0 28	3870.0 25	3470.0 24	2490.0 27	1320.0 34
1960	35400.0 3	32700.0 3	24400.0 5	16300.0 5	11200.0 7	8820.0 6	7650.0 7	6390.0 8	4450.0 12	2580.0 13
1961	26700.0 9	25200.0 9	21300.0 8	14600.0 7	10200.0 11	7390.0 12	5750.0 13	5130.0 14	3860.0 19	2190.0 20



STATION\_NUMBER 5-4820.00

DURATION TABLE OF DAILY DISCHARGE

DES MOINES RIVER AT DES MOINES, IOWA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	CFS_DAYS				
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS					
1916												22	12	3	36	19	9	14	8	31	14	32	20	29	50	25	24	13	3	2							1350615.0			
1917								44	7	25	15	52	35	20	19	3	4	5	6	3	16	14	24	24	18	8	2	5	4	5	6	1					898505.0			
1918				10	31					31	46	15			10	51	34	46	31	8	14	12	10	1	1	2	5		2		3	2					522985.0			
1919												5	23	17	15	18	30	34	29	18	20	31	17	22	15	16	21	27	7								1259545.0			
1920													17	26	16	28	37	6	7	34	29	27	36	28	36	17	5	10	3	4							1134207.0			
1921												1	2	16	11	13	10	54	34	42	74	39	23	24	7	6	9											843975.0		
1922										2	52	20	15	8	17	26	36	30	34	31	30	18	10	12	2	5	3	5										588103.0		
1923			1	2			1	6	12	55	45	23	32	31	17	24	26	16	31	18	5	7	6	1	2	4												288408.0		
1924		2					3	3	21	4	2	6	10	22	19	34	36	34	34	41	26	22	14	15	12	6												589725.0		
1925								18	37	17	29	7	18	48	39	28	22	25	19	23	18	10	4	3															297615.0	
1926					3	7	12	19	30	23	30	33	35	34	28	20	22	15	11	14	7	3	7	3	5	3	1											353655.0		
1927									3	25	23	11	36	26	19	20	26	9	9	11	41	33	19	22	13	11	8												886006.0	
1928								11	35	5	15	1	3	30	24	20	23	20	29	26	19	45	37	15	8															476156.0
1929													10	18	63	24	12	45	26	30	20	32	18	15	15	12	4	2	19										981841.0	
1930			9	19	3	4	4	22	28	21	5	22	53	25	23	29	27	16	14	18	6	5	7	5															315642.0	
1931			9	55	17	60	38	77	67	19	3	7	1	1	1	3	1	5	1																				57584.0	
1932									2	8	6	2	12	19	35	-15	7	15	23	31	35	35	29	29	14	9	12	18		10								1202891.0		
1933									5	9	47	50	43	41	41	23	19	32	10	7	7	4	4	7	3	2	2	2	1	2	2	2							475804.0	
1934				8	13	53	35	40	59	55	24	17	19	9	7	7	4	2	3	3	3	2	1	1															118322.0	
1935									13	28	14	34	34	21	11	26	13	13	53	19	18	7	13	8	5	11	4	5	9	3	3								624793.0	
1936					26	17	8	23	19	27	25	17	18	16	21	21	15	20	12	22	16	10	6	5	4	7	9	2											548502.0	
1937									22	18	18	37	46	34	18	12	7	8	7	6	7	21	34	27	12	12	8	2	2	7									649760.0	
1938									15	13	24	14	41	8	8	13	8	14	3	6	7	21	24	35	38	25	23	12	2	4	2	2	3						909655.0	
1939									12	7	3	10	10	17	15	27	15	49	39	37	20	28	17	17	11	9	7	5	2	3	1								532654.0	
1940			15	15	8	7	23	51	49	11	8	8	11	16	15	33	24	18	18	9	4	4	7	5	3	4													205117.0	
1941									1	9	18	20	11	12	8	18	33	35	30	31	20	23	47	26	6	9	8													608261.0
1942																3	6	6	18	29	35	82	71	37	45	24	9												1327200.0	
1943												5	11	12	27	12	8	17	21	14	31	31	44	46	29	33	22	2											993868.0	
1944													4	21	14	15	34	27	58	12	12	36	32	14	19	11	18	14	6	5	3	4	5	2				1300096.0		
1945													2	31	21	15	8	48	13	14	11	6	18	21	11	14	22	27	18	24	25	13	3					1372152.0		
1946						7	7	4	2	17	41	24	22	16	24	9	14	19	18	29	17	30	11	17	21	7	6	2	1										825973.0	
1947										2	5	6	12	19	20	26	30	20	21	37	26	7	8	20	28	22	14	10	8	6	10	4	2	2					1317695.0	
1948																																								490104.0
1949																																								589846.0
1950																																								483935.0
1951																																								1829436.0
1952																																								1158039.0
1953																																								683776.0



STATION\_NUMBER 5-4820.00

DURATION TABLE OF DAILY DISCHARGE

DES MOINES RIVER AT DES MOINES, IOWA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34		
YEAR	NUMBER OF DAYS IN CLASS																																	CFS_DAYS			
1954					15	9	7	25	30	44	14	8	11	4	15	14	36	22	18	18	13	10	15	10	7	1	7	4	2	1	1	1	2	1	874404.0		
1955			2	13	22	6	4	4	9	14	20	11	12	22	35	35	37	29	22	31	19	8	7	3												516817.0	
1956					50	78	26	19	25	22	38	36	21	11	13	11	8	8																		80282.0	
1957					37	43	16	18	23	21	26	25	30	19	17	25	10	17	9	9	11	3	1		2	1	2									201367.0	
1958						4	5	2	19	28	40	47	35	44	28	24	24	15	13	6	8	7	7	5	3	1											335585.0
1959			12	33	15	15	8	31	18	29	17	15	11	8	13	16	20	19	20	15	7	9	10	7	6	5	2	3	1							486428.0	
1960											1	17	45	53	68	21	27	11	9	7	14	20	19	19	8	9	7	5	1	2	1	2				943061.0	
1961								24	36	10	4			9	52	20	34	27	11	9	31	15	24	18	23	6	3	2		3	3	1				797851.0	

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	16802	100.0	9	150.00	779	14725	87.6	18	1300.0	806	6632	39.5	27	10000	234	493	2.5
1	24.00	15	16802	100.0	10	150.00	950	13946	83.0	19	1600.0	823	5826	34.7	28	13000	120	259	1.5
2	30.00	20	16787	99.9	11	250.00	797	12996	77.3	20	2000.0	895	5003	29.8	29	16000	68	139	.8
3	38.00	43	16767	99.8	12	310.00	824	12109	72.6	21	2500.0	978	4108	24.4	30	20000	39	71	.4
4	48.00	227	16724	99.5	13	390.00	851	11375	67.7	22	3200.0	796	3130	18.6	31	26000	22	32	.1
5	61.00	286	16437	98.2	14	490.00	997	10524	62.6	23	4000.0	626	2334	13.9	32	32000	7	10	.0
6	77.00	373	16211	96.5	15	620.00	956	9527	56.7	24	5000.0	589	1708	10.2	33	41000	2	3	.0
7	97.00	451	15838	94.3	16	790.00	861	8571	51.0	25	6400.0	368	1119	6.7	34	52000	1	1	.0
8	120.00	662	15387	91.6	17	990.00	1078	7710	45.9	26	8000.0	258	751	4.5					



STATION NUMBER 0548217C

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

CEDAR CREEK NEAR VARINA, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1961	0.10 4	0.10 4	0.10 4	0.10 4	0.15 4	0.30 4	0.67 4	1.01 4	2.02 5	40.30 8
1962	0.60 7	0.70 7	0.80 7	0.83 7	0.89 6	0.92 5	1.08 5	1.24 5	1.43 4	21.40 6
1963	3.40 11	3.43 11	3.53 11	3.83 11	4.98 11	5.63 11	6.47 10	8.32 10	22.50 10	73.80 11
1964	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.12 3	0.43 3	0.62 3	0.88 3	11.70 2
1965	0.90 8	0.90 8	0.93 8	1.09 8	1.45 9	1.96 9	2.37 9	3.34 9	7.77 9	17.00 4
1966	1.20 9	1.23 10	1.37 10	1.50 10	1.76 10	2.73 10	7.63 11	12.60 11	27.00 11	55.10 10
1967	0.00 2	0.00 2	0.00 2	0.00 2	0.00 2	0.00 1	0.01 1	0.10 1	0.31 1	9.74 1
1968	0.00 3	0.00 3	0.00 3	0.00 3	0.02 3	0.08 2	0.16 2	0.25 2	0.39 2	15.00 3
1969	0.29 5	0.34 5	0.40 6	0.73 6	1.02 7	1.34 7	2.23 8	3.03 8	3.04 7	20.70 5
1970	1.20 10	1.20 9	1.21 9	1.29 9	1.43 8	1.59 8	1.96 7	2.90 7	4.20 8	52.60 9
1971	0.29 6	0.34 6	0.38 5	0.50 5	0.68 5	0.96 6	1.69 6	2.50 6	2.68 6	34.40 7



STATION NUMBER 05482170

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

CEDAR CREEK NEAR VARINA, ICWA

YEAR	1	2	3	7	15	30	60	90	120	183	ANNUAL
1960	826.0 4	617.0 5	417.0 6	243.0 6	133.0 7	90.6 6	83.4 6	69.0 6	47.4 6	26.7 6	
1961	1160.0 2	1060.0 2	801.0 2	492.0 2	286.0 3	169.0 4	125.0 4	99.8 4	67.8 5	34.7 5	
1962	1900.0 1	1330.0 1	890.0 1	553.0 1	313.0 2	195.0 1	184.0 1	149.0 2	140.0 1	71.8 1	
1963	270.0 9	157.0 9	153.0 9	95.6 9	60.4 10	52.7 9	49.2 9	41.2 9	25.4 9	22.4 7	
1964	223.0 10	156.0 11	115.0 11	78.3 11	54.0 11	36.1 11	29.6 11	25.3 11	21.8 11	11.5 11	
1965	940.0 3	903.0 3	710.0 3	463.0 3	271.0 4	186.0 3	150.0 2	121.0 3	84.5 3	48.4 3	
1966	203.0 11	175.0 10	131.0 10	83.5 10	64.2 9	43.5 10	39.5 10	32.0 10	26.4 10	22.0 8	
1967	572.0 7	546.0 7	384.0 7	273.0 5	162.0 6	85.1 7	58.4 7	44.0 7	29.9 8	15.1 10	
1968	37.0 12	24.3 12	14.2 12	10.1 12	6.4 12	4.9 12	4.2 12	3.7 12	3.0 12	1.9 12	
1969	748.0 6	594.0 6	504.0 4	460.0 4	331.0 1	194.0 2	147.0 3	158.0 1	124.0 2	68.7 2	
1970	464.0 8	371.0 8	233.0 8	136.0 8	89.4 8	64.2 8	52.2 8	44.0 8	30.5 7	16.6 9	
1971	798.0 5	636.0 4	417.0 5	238.0 7	153.0 5	134.0 5	56.3 5	93.7 5	72.9 4	37.9 4	



STATION NUMBER 05482170

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

CEDAR CREEK NEAR VARINA, ICWA

YEAR	CLASS																																		CFS_DAYS				
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33		34			
1960	NUMBER OF DAYS IN CLASS																																		9779.7				
1961	1 73 57 75 26 19 34 14 20 10 7 10 5 4 5 4 1 1																																		12663.3				
1962	18 15 11 18 5 19 45 50 25 19 10 6 10 25 30 14 15 11 5 2 3 3 1 2 3																																		26194.3				
1963	1 35 54 65 12 2 1 2 35 24 18 17 18 18 9 18 10 9 6 5 1 1																																		8159.0				
1964	42	1 14 15 14 26 50 42 15 47 36 34 22 21 15 5 3 1																																		4195.5			
1965	1 8 3 6 9 76 15 7 30 22 22 18 41 21 16 11 9 6 2 1																																		17682.9				
1966	5 28 34 43 23 42 18 20 17 11 24 20 20 16 11 15 7 5 2 2 2																																		8043.7				
1967	6 6 5 4 9 10 10 26 21 38 37 43 46 48 23 13 13 1 6																																		5513.2				
1968	69	2	17	1	1	1	34	28	49	14	17	19	16	22	19	13	5	4	4	3	3	8	2	4	3	2	2	3											692.0
1969	26	6	10	1	4	2	6	39	27	62	39	42	21	19	22	12	11	7	7	2	1											25059.1							
1970	12 71 33 15 14 35 26 22 36 24 18 14 11 10 9 11 4																																		6058.6				
1971	3 6 19 6 31 51 33 34 32 20 7 27 28 23 26 6 7 2 1 1 1 1																																		13843.0				

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	137	4383	100.0	9	0.50	169	3979	90.8	18	12.0	323	1602	36.6	27	310	36	50	2.0
1	0.01	8	4246	96.9	10	0.70	163	3810	86.9	19	18.0	264	1279	29.2	28	440	28	52	1.1
2	0.02	27	4238	96.7	11	1.00	309	3647	83.2	20	25.0	260	1015	23.2	29	630	17	24	.5
3	0.04	2	4211	96.1	12	1.50	293	3338	76.2	21	36.0	204	755	17.2	30	900	6	7	.1
4	0.05	5	4209	96.0	13	2.10	318	3045	69.5	22	52.0	156	551	12.6	31	1300	1	1	.0
5	0.05	2	4204	95.9	14	3.00	371	2727	62.2	23	74.0	125	395	9.0	32				
6	0.10	26	4202	95.9	15	4.30	345	2356	53.8	24	110.0	64	270	6.2	33				
7	0.20	110	4176	95.3	16	6.10	242	2011	45.9	25	150.0	71	206	4.7	34				
8	0.40	67	4066	92.6	17	8.70	167	1769	40.4	26	220.0	45	135	3.1					



STATION NUMBER 05482300

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

NORTH RACCOON RIVER NEAR SAC CITY, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1960	13.00 9	13.30 9	15.00 9	17.80 10	22.50 10	29.50 9	32.10 8	38.80 7	60.20 9	214.00 6
1961	8.40 5	8.40 4	8.54 4	8.91 4	10.40 4	11.40 4	14.70 5	17.20 4	27.90 4	336.00 9
1962	15.00 10	15.00 10	15.10 10	15.90 9	16.50 7	20.10 7	30.60 7	34.40 6	35.50 6	215.00 7
1963	38.00 12	38.00 12	38.10 12	39.40 12	43.80 12	50.80 12	58.40 11	75.50 11	177.00 11	522.00 12
1964	5.00 3	5.00 3	5.14 3	5.20 3	6.54 3	9.47 3	12.60 3	14.10 3	16.60 3	125.00 3
1965	7.00 4	9.00 5	9.80 5	10.60 5	11.90 5	12.60 5	14.40 4	19.10 5	30.70 5	93.30 2
1966	12.00 5	12.30 8	12.70 7	14.30 7	16.90 8	24.10 8	67.20 12	101.00 12	204.00 12	382.00 10
1967	4.90 2	4.90 2	4.97 2	5.13 2	5.69 2	7.23 1	7.79 1	8.91 1	9.62 1	87.90 1
1968	2.50 1	2.50 1	2.61 1	2.92 1	4.11 1	7.76 2	9.77 2	10.60 2	11.70 2	166.00 4
1969	10.00 7	11.00 7	13.00 8	15.40 8	22.50 9	35.30 11	47.30 10	44.90 9	51.20 7	191.00 5
1970	28.00 11	28.00 11	28.00 11	28.60 11	30.10 11	33.60 10	38.70 9	53.90 10	68.70 10	497.00 11
1971	9.50 6	9.80 6	10.60 6	12.80 6	13.60 6	17.10 6	25.10 6	42.00 8	59.20 8	287.00 8



STATION NUMBER 05482300

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

NORTH RACCOON RIVER NEAR SAC CITY, IOWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1959	4600.0 6	4180.0 6	2890.0 7	1590.0 8	964.0 8	605.0 8	434.0 10	347.0 10	245.0 10	126.0 11
1960	8000.0 2	6600.0 2	4740.0 3	2870.0 5	1590.0 5	1030.0 5	937.0 4	771.0 4	525.0 5	299.0 5
1961	4050.0 7	3810.0 7	3320.0 6	2270.0 6	1480.0 6	971.0 6	736.0 5	634.0 6	445.0 6	235.0 6
1962	10600.0 1	8610.0 1	6250.0 1	3890.0 1	2220.0 2	1320.0 2	1120.0 2	971.0 2	1030.0 2	546.0 2
1963	1860.0 10	1710.0 10	1470.0 10	977.0 10	715.0 9	541.0 9	483.0 8	411.0 8	291.0 8	206.0 7
1964	990.0 12	712.0 12	516.0 12	387.0 12	295.0 12	213.0 12	177.0 12	148.0 12	116.0 12	67.2 12
1965	6630.0 3	6140.0 3	5000.0 2	3500.0 2	2010.0 3	1270.0 3	990.0 3	796.0 3	566.0 3	319.0 3
1966	1700.0 11	1310.0 11	954.0 11	633.0 11	500.0 11	342.0 11	318.0 11	263.0 11	202.0 11	179.0 8
1967	5480.0 4	5720.0 4	4070.0 4	2890.0 4	1720.0 4	917.0 7	626.0 7	476.0 7	322.0 7	167.0 9
1968	254.0 13	243.0 13	197.0 13	131.0 13	92.9 13	63.3 13	57.9 13	57.2 13	51.2 13	32.5 13
1969	5230.0 5	4670.0 5	3840.0 5	3200.0 3	2480.0 1	1510.0 1	1260.0 1	1320.0 1	1040.0 1	609.0 1
1970	3330.0 9	2560.0 9	1670.0 9	1020.0 9	645.0 10	518.0 10	451.0 9	397.0 9	279.0 9	163.0 10
1971	3840.0 3	3510.0 8	2600.0 8	1610.0 7	1370.0 7	1030.0 4	731.0 6	744.0 5	551.0 4	306.0 4



STATION NUMBER 05482300

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

NORTH RACCOON RIVER NEAR SAC CITY, IOWA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34		
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS		
1959	42	10	5	2	16	15	21	19	20	8	16	25	21	15	21	15	14	18	14	11	9	6	7	5	2	1	1	2	1	1	2					46134.3	
1960											2	52	52	31	64	12	29	23	22	18	16	9	5	5	5	5	2	8	4	2	2	1	2			109301.0	
1961									6	23	29	15	46	37	28	26	14	3	14	20	18	20	14	13	9	8	7	5	3	1	3	3					85618.8
1962												33	18	18	29	39	28	16	8	17	22	15	19	20	13	14	17	10	10	3	4	3	3	5	1	199300.0	
1963												15	16	15	24	58	27	20	37	30	24	24	21	24	10	10	4	3	3							75087.0	
1964								4	16	13	14	23	49	46	35	32	20	16	25	22	19	11	11	5	3	1	1									24610.4	
1965									2	18	57	31	16	43	27	19	3	5	18	9	11	14	22	20	11	10	9	5	4	1	4	2	2	2		116546.6	
1966								4	4	12	5	8	6	23	26	18	29	33	33	56	31	29	16	9	7	6	6	3	1							65177.0	
1967								6	26	41	62	49	33	24	27	24	11	9	3	8	5	6	3	2	3	6	3	2	1	1	3	3	1	2	1	60832.3	
1968					8	8	7	13	18	28	48	57	45	45	39	10	9	6	9	6	4	6															11891.2
1969															21	14	41	30	26	21	22	28	21	32	19	19	16	16	11	9	12	6	1			222353.0	
1970										10	13	17	9	48	47	34	19	22	25	16	21	22	28	21	4	2	3	1	1	1	1					59649.8	
1971																																					111661.6

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	4748	100.0	9	8.00	200	4442	93.6	18	100.0	282	1823	38.4	27	1200	53	208	4.3
1	1.00	42	4748	100.0	10	12.00	241	4242	89.3	19	140.0	268	1541	32.5	28	1600	53	155	3.2
2	1.30	10	4706	99.1	11	15.00	313	4001	84.3	20	180.0	222	1273	26.8	29	2100	26	102	2.1
3	1.70	5	4696	98.9	12	20.00	296	3638	77.7	21	230.0	222	1051	22.1	30	2700	35	76	1.6
4	2.30	10	4691	98.8	13	26.00	371	3402	71.7	22	310.0	179	829	17.5	31	3600	21	41	.8
5	3.00	24	4681	98.6	14	35.00	372	3031	63.8	23	400.0	175	650	13.7	32	4700	9	20	.4
6	3.90	32	4657	98.1	15	45.00	316	2659	56.0	24	530.0	100	475	10.0	33	6100	10	11	.2
7	5.10	20	4625	97.4	16	60.00	293	2343	49.3	25	690.0	91	375	7.9	34	8100	1	1	.0
8	6.70	103	4545	95.7	17	78.00	227	2050	43.2	26	910.0	76	284	6.0					



STATION NUMBER 05482500

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

NORTH RACCOON RIVER NEAR JEFFERSON, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1941	27.00 15	27.70 15	28.10 15	32.30 16	50.70 18	89.50 21	183.00 27	215.00 27	290.00 27	364.00 10
1942	27.00 15	28.00 16	29.10 16	29.80 14	34.20 13	48.30 13	67.80 17	88.60 17	216.00 24	420.00 11
1943	35.00 20	36.00 19	38.40 19	44.70 20	61.90 21	79.50 20	99.10 19	123.00 21	183.00 20	555.00 18
1944	70.00 27	73.30 28	75.00 28	77.90 28	92.80 28	125.00 28	148.00 25	170.00 25	205.00 22	626.00 20
1945	60.00 25	63.30 25	67.10 25	68.60 25	75.30 23	91.30 22	105.00 21	118.00 19	208.00 23	1120.00 29
1946	40.00 22	40.00 21	40.70 20	47.50 21	75.30 24	96.20 25	103.00 20	114.00 18	253.00 26	1240.00 30
1947	30.00 17	30.00 17	32.10 17	42.90 18	67.80 22	92.20 23	117.00 23	136.00 22	128.00 16	601.00 19
1948	25.00 13	25.00 13	25.00 13	26.40 12	37.50 14	50.10 15	67.60 15	83.60 16	80.00 13	1020.00 26
1949	12.00 3	12.70 5	17.60 7	19.90 8	23.70 7	32.50 9	43.60 11	45.80 11	62.50 11	451.00 12
1950	12.00 4	12.00 3	12.00 3	12.60 3	14.70 3	22.00 4	28.90 5	34.00 6	56.90 10	236.00 4
1951	13.00 3	18.00 8	18.00 8	18.60 7	21.30 6	23.60 5	25.60 4	34.10 7	56.10 9	465.00 14
1952	230.00 31	230.00 31	230.00 31	240.00 31	298.00 31	371.00 31	462.00 31	586.00 31	810.00 31	1850.00 31
1953	35.00 13	36.30 20	41.10 21	52.10 23	61.00 20	62.20 17	64.60 14	67.70 13	86.60 14	631.00 21
1954	16.00 7	16.00 7	16.00 6	16.60 5	19.40 5	24.90 6	31.30 7	30.90 4	37.00 5	361.00 9
1955	90.00 29	90.30 29	91.30 25	92.30 25	106.00 29	164.00 30	210.00 30	286.00 29	530.00 29	974.00 25
1956	12.00 5	12.70 4	13.60 4	13.80 4	14.70 4	15.20 3	15.80 2	17.00 2	17.30 1	201.00 2
1957	0.60 1	0.77 1	0.91 1	1.14 1	3.17 1	9.28 1	11.10 1	12.60 1	18.20 2	35.50 1
1958	25.00 14	26.00 14	27.40 14	30.70 15	39.50 15	49.60 14	56.40 13	78.00 14	134.00 17	236.00 3
1959	12.00 2	12.00 2	12.00 2	12.10 2	12.80 2	14.10 2	16.90 3	22.40 3	31.50 3	274.00 6
1960	38.00 21	42.30 22	47.10 23	48.80 22	58.50 19	62.90 18	67.70 16	83.00 15	122.00 15	461.00 13
1961	24.00 12	24.00 12	24.60 12	25.40 11	29.80 12	34.40 11	44.20 12	51.50 12	75.20 12	729.00 23
1962	90.00 30	103.00 30	105.00 30	111.00 30	122.00 30	152.00 29	206.00 29	232.00 28	229.00 25	594.00 17
1963	71.00 23	71.00 27	71.40 27	73.90 27	83.60 26	102.00 26	118.00 24	150.00 24	312.00 28	1040.00 27
1964	21.00 9	23.30 11	23.70 10	24.10 10	27.20 10	33.00 10	39.50 9	42.10 8	48.90 7	318.00 8
1965	22.00 11	22.30 10	24.10 11	27.30 13	28.80 11	30.90 8	36.30 8	43.40 9	54.80 8	240.00 5
1966	42.00 23	42.70 23	42.70 22	43.10 19	47.20 17	75.00 19	200.00 28	304.00 30	575.00 30	908.00 24
1967	21.00 10	21.30 9	22.00 9	22.70 9	24.20 8	26.60 7	29.10 6	32.10 5	34.10 4	315.00 7
1968	15.00 5	15.30 6	15.90 5	17.60 6	24.40 9	35.90 12	40.00 10	43.40 10	48.30 6	471.00 15
1969	47.00 24	49.30 24	54.30 24	63.30 24	84.00 27	106.00 27	151.00 26	215.00 26	197.00 21	586.00 16
1970	68.00 26	68.70 26	69.90 26	73.20 26	80.70 25	93.00 24	111.00 22	138.00 23	171.00 19	1050.00 28
1971	35.00 19	36.00 18	38.00 18	40.60 17	45.90 16	59.00 16	80.00 18	120.00 20	150.00 18	635.00 22



STATION NUMBER 05482500

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

NORTH RACCON RIVER NEAR JEFFERSON, IOWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1941	2420.0 29	2210.0 28	1790.0 28	1150.0 28	840.0 28	650.0 28	547.0 27	534.0 27	493.0 27	318.0 27
1942	3170.0 27	3080.0 25	2630.0 25	1890.0 24	1640.0 21	1460.0 19	1270.0 18	1070.0 16	963.0 14	655.0 11
1943	8770.0 12	7650.0 13	4690.0 18	2640.0 18	1900.0 18	1730.0 14	1560.0 14	1340.0 13	1100.0 12	687.0 12
1944	11400.0 6	10500.0 6	8460.0 7	5700.0 10	4850.0 4	3350.0 5	2770.0 5	2340.0 5	1740.0 6	976.0 6
1945	8770.0 13	7930.0 12	6420.0 11	5860.0 9	4800.0 5	3780.0 2	3110.0 2	2870.0 3	2230.0 3	1200.0 3
1946	7170.0 15	6880.0 15	5420.0 14	3490.0 15	2580.0 14	1910.0 13	1700.0 12	1690.0 10	1350.0 9	752.0 8
1947	23200.0 1	17900.0 1	11900.0 1	8020.0 2	5900.0 2	3770.0 3	2840.0 4	2420.0 4	1790.0 5	558.0 7
1948	8420.0 14	7410.0 14	5260.0 16	3260.0 17	2200.0 17	1540.0 17	1280.0 16	1020.0 19	754.0 18	419.0 21
1949	9070.0 11	8240.0 11	5930.0 12	3500.0 14	2620.0 13	1700.0 16	1280.0 17	1060.0 17	730.0 19	401.0 22
1950	5670.0 21	4370.0 22	3800.0 20	2340.0 20	1430.0 23	1220.0 21	943.0 24	858.0 23	652.0 23	352.0 25
1951	14500.0 4	13400.0 5	10300.0 5	7420.0 4	4750.0 6	4190.0 1	3990.0 1	3410.0 1	3050.0 1	1600.0 1
1952	8450.0 20	6190.0 18	4950.0 17	3430.0 16	2760.0 12	2020.0 12	1790.0 10	1690.0 11	1520.0 7	985.0 5
1953	3310.0 26	3060.0 26	2510.0 26	1600.0 27	1390.0 24	1090.0 23	1050.0 21	1030.0 18	806.0 17	441.0 20
1954	17100.0 2	15600.0 2	11500.0 2	6770.0 6	4610.0 8	2630.0 7	2220.0 7	1890.0 7	1370.0 8	714.0 10
1955	3430.0 25	2930.0 27	2250.0 27	1760.0 26	1460.0 22	999.0 25	821.0 25	693.0 25	584.0 25	476.0 17
1956	435.0 31	272.0 31	168.0 31	117.0 31	107.0 31	74.7 31	73.4 31	65.6 31	49.4 31	32.8 31
1957	6970.0 18	5260.0 20	3370.0 21	1870.0 25	1190.0 27	699.0 27	497.0 28	386.0 29	275.0 29	152.0 29
1958	4500.0 24	3520.0 24	3220.0 22	2140.0 21	1360.0 25	979.0 26	708.0 26	618.0 26	504.0 26	322.0 26
1959	9500.0 9	8730.0 10	6530.0 10	3730.0 12	2220.0 16	1470.0 18	1130.0 20	976.0 21	690.0 21	362.0 24
1960	17500.0 3	14400.0 3	10500.0 4	6240.0 7	3530.0 10	2430.0 10	2090.0 9	1700.0 9	1170.0 11	653.0 13
1961	6740.0 19	6360.0 17	5440.0 13	3850.0 11	2570.0 15	1720.0 15	1330.0 15	1220.0 15	909.0 15	496.0 16
1962	14300.0 5	13600.0 4	11300.0 3	8120.0 1	5030.0 3	2960.0 6	2530.0 6	2250.0 6	2080.0 4	1180.0 4
1963	5270.0 22	4510.0 21	3050.0 23	2020.0 22	1700.0 20	1330.0 20	1150.0 19	979.0 20	712.0 20	465.0 18
1964	1550.0 30	1430.0 30	1150.0 30	980.0 29	763.0 29	575.0 29	482.0 29	402.0 28	292.0 28	172.0 28
1965	9320.0 10	9030.0 9	8460.0 8	6010.0 8	3630.0 9	2610.0 8	2180.0 8	1790.0 8	1270.0 10	729.0 9
1966	7030.0 16	5470.0 19	3970.0 19	2500.0 19	1760.0 19	1210.0 22	1030.0 22	911.0 22	633.0 22	568.0 15
1967	10100.0 8	9170.0 8	8140.0 9	6920.0 5	4620.0 7	2540.0 9	1750.0 11	1330.0 14	854.0 16	467.0 19
1968	2470.0 28	2180.0 29	1610.0 29	965.0 30	568.0 30	338.0 30	282.0 30	239.0 30	197.0 30	124.0 30
1969	10400.0 7	10100.0 7	9080.0 6	7460.0 3	5910.0 1	3680.0 4	2970.0 3	3010.0 2	2330.0 2	1420.0 2
1970	4540.0 23	3930.0 23	2910.0 24	1920.0 23	1270.0 26	1050.0 24	943.0 23	839.0 24	604.0 24	365.0 23
1971	7030.0 17	6640.0 16	5350.0 15	3530.0 13	3190.0 11	2310.0 11	1640.0 13	1460.0 12	1050.0 13	600.0 14







STATION NUMBER 05482500

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

NORTH RACCOON RIVER NEAR JEFFERSON, IOWA

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	11322	100.0	9	7.40	17	11278	99.6	18	130.0	737	6762	59.7	27	2100	273	735	6.4
1	0.60	3	11322	100.0	10	10.00	81	11261	99.5	19	170.0	752	6025	53.2	28	2900	171	462	4.0
2	0.80	4	11319	100.0	11	14.00	250	11180	98.7	20	230.0	859	5273	46.6	29	4000	110	291	2.5
3	1.10	4	11315	99.9	12	19.00	311	10930	96.5	21	320.0	764	4414	39.0	30	5400	99	181	1.5
4	1.50	5	11311	99.9	13	26.00	536	10619	93.8	22	440.0	749	3650	32.2	31	7400	55	82	.7
5	2.10	5	11306	99.9	14	36.00	701	10083	89.1	23	600.0	763	2901	25.6	32	10000	18	27	.2
6	2.90	5	11301	99.8	15	49.00	929	9282	82.9	24	830.0	517	2136	18.9	33	14000	7	9	.0
7	4.00	6	11296	99.8	16	67.00	750	8453	74.7	25	1100.0	518	1621	14.3	34	19000	2	2	.0
8	5.40	12	11290	99.7	17	91.00	941	7703	68.0	26	1500.0	368	1103	9.7					



STATION NUMBER 05483000

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

EAST FORK HARDIN CREEK NEAR CHURDAN, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1954	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	4.09 2
1955	0.00 2	0.00 2	0.01 14	0.07 14	0.25 15	1.48 17	3.76 18	4.83 18	13.00 18	13.30 18
1956	0.00 3	0.00 3	0.00 2	0.00 2	0.00 2	0.00 2	0.00 2	0.00 2	0.00 2	4.47 3
1957	0.00 4	0.00 4	0.00 3	0.00 3	0.00 3	0.00 3	0.02 6	0.02 3	0.02 3	0.69 1
1958	0.00 5	0.00 5	0.00 4	0.03 13	0.14 13	0.23 13	0.33 13	0.55 13	1.78 14	5.86 5
1959	0.00 6	0.00 6	0.00 5	0.00 4	0.00 4	0.00 4	0.00 3	0.03 6	0.16 9	7.26 9
1960	0.00 7	0.00 7	0.00 6	0.00 5	0.02 11	0.05 10	0.07 9	0.07 9	0.08 6	7.92 10
1961	0.00 8	0.00 8	0.00 7	0.00 6	0.00 5	0.03 7	0.12 11	0.20 11	0.37 11	13.20 17
1962	0.40 18	0.43 18	0.50 18	0.58 18	1.06 18	1.48 18	1.62 17	3.09 17	5.39 16	10.30 12
1963	0.00 9	0.00 9	0.00 8	0.00 7	0.02 12	0.06 11	0.08 10	0.16 10	0.36 10	10.80 13
1964	0.00 10	0.00 10	0.00 9	0.00 8	0.00 6	0.03 8	0.03 7	0.04 7	0.10 8	5.11 4
1965	0.00 11	0.00 11	0.00 10	0.00 9	0.00 7	0.01 6	0.01 5	0.02 4	0.08 7	6.64 7
1966	0.10 16	0.10 16	0.13 15	0.14 15	0.17 14	0.29 14	0.38 15	2.74 16	7.17 17	11.20 14
1967	0.00 12	0.00 12	0.00 11	0.00 10	0.00 8	0.00 5	0.00 4	0.03 5	0.03 4	6.79 8
1968	0.00 13	0.00 13	0.00 12	0.00 11	0.01 9	0.04 9	0.04 8	0.04 8	0.06 5	9.20 11
1969	0.07 15	0.07 15	0.13 16	0.17 16	0.38 16	0.61 16	1.09 16	2.54 15	2.59 15	11.40 15
1970	0.36 17	0.36 17	0.38 17	0.39 17	0.44 17	0.54 15	0.63 14	0.68 14	0.77 12	12.60 16
1971	0.01 14	0.01 14	0.01 13	0.02 12	0.02 10	0.06 12	0.18 12	0.38 12	1.35 13	6.26 6



STATION NUMBER 05483000

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

EAST FORK HARDIN CREEK NEAR CHURGAN, IOWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1953	90.0 16	53.3 16	36.6 15	24.1 16	19.2 16	16.5 16	15.6 16	14.6 13	11.2 13	5.7 13
1954	257.0 4	230.0 1	161.0 5	95.9 5	50.9 7	26.1 11	20.3 11	19.2 8	13.1 10	6.6 10
1955	211.0 7	141.0 10	75.7 12	65.3 9	48.6 8	30.7 7	22.2 8	17.3 9	13.4 8	11.2 4
1956	63.0 17	29.3 19	14.1 19	6.9 19	6.1 19	3.2 19	2.2 19	1.7 19	1.1 19	0.6 15
1957	270.0 2	190.0 6	140.0 6	77.2 8	43.4 10	23.2 14	15.9 14	12.0 16	8.1 15	4.1 15
1958	147.0 13	127.0 11	77.0 11	47.4 12	40.7 11	30.1 8	20.8 10	16.7 11	13.3 9	7.7 8
1959	207.0 8	157.0 8	106.0 9	61.3 10	40.0 12	27.3 10	24.1 7	20.6 7	14.0 7	7.0 9
1960	240.0 5	212.0 2	166.0 3	91.5 6	62.4 5	58.0 1	45.6 1	36.5 3	24.5 3	12.3 3
1961	94.0 15	72.7 14	51.7 14	39.9 14	28.9 14	23.6 12	18.5 12	16.6 12	11.8 11	6.1 11
1962	259.0 3	205.0 3	166.0 4	114.0 3	63.9 3	40.9 5	37.2 3	37.5 2	28.7 2	17.3 2
1963	154.0 11	117.0 13	78.9 10	61.0 11	44.9 9	27.5 9	21.1 9	17.1 10	11.7 12	6.0 12
1964	126.0 14	69.0 15	35.9 16	28.2 15	23.6 15	19.6 15	15.9 15	12.3 15	8.1 16	4.1 16
1965	179.0 10	157.0 9	136.0 7	106.0 4	65.3 4	42.9 4	31.3 5	25.0 5	17.0 5	10.4 5
1966	272.0 1	202.0 4	133.0 8	77.8 7	53.9 6	34.6 6	24.8 6	21.4 6	15.0 6	10.1 6
1967	196.0 9	184.0 7	174.0 2	130.0 1	104.0 1	54.5 3	36.5 4	27.9 4	18.5 4	9.3 7
1968	57.0 18	35.3 18	24.3 18	14.1 18	7.8 18	4.7 18	4.5 18	3.6 18	2.6 18	1.4 18
1969	226.0 6	190.0 5	180.0 1	127.0 2	79.8 2	56.8 2	41.7 2	43.5 1	33.1 1	21.3 1
1970	43.0 19	37.3 17	26.0 17	13.2 17	13.3 17	11.8 17	10.1 17	8.8 17	6.2 17	3.4 17
1971	150.0 12	120.0 12	73.0 13	41.9 13	36.7 13	23.4 13	16.7 13	13.3 14	9.3 14	5.1 14



STATION NUMBER 05483000

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

EAST FORK HARDIN CREEK NEAR CHURCAN, IOWA

CLASS	NUMBER OF DAYS IN CLASS																																		CFS_DAYS	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33		34
YEAR																																			2072.5	
1953	39	1	1		2		2	79	43	12	8	7	5	4	7	7	10	11	13	30	14	30	20	13	3	3		1								
1954	163							34	21	8	5	17	7	8	9	7	15	13	18	6	5	3	4	4	3	3	2	3	3	1	3					
1955	40							4	3	3	4	3	1	4	30	24	20	46	56	33	13	25	13	12	13	6	4	3	3	1	1					
1956	245	3	3		5	5	5	37	19	6	15	7	2	2	2	2	2	1		1	1				1	1	1									
1957	91	9	6	6	11	8	7	43	37	25	16	8	7	14	14	12	12	5	9	4	4	4	2	1	2	2		1	2	2			1			
1958	7								2	9	22	11	5	26	36	30	35	37	39	31	14	10	15	5	6	2	2	5	2							
1959	122							30	28	15	11	7	5	5	5	6	4	13	14	16	11	26	21	11	5	3	3	2		1	1					
1960	71							59	22	16	16	10	4	18	11	9	5	5	11	18	23	18	8	10	8	4	4	3	3	6	4					
1961	42							26	5	4	70	16	10	23	15	11	10	7	11	29	21	29	12	11	6	3	3	1								
1962									2	12	5	11	6	26	25	25	34	48	40	41	25	18	10	7	5	5	4	7	1							
1963	53							34	29	21	41	34	5	10	12	18	14	11	12	13	6	19	8	10	3	5	1	3	2	1						
1964	110							72	27	11	22	7	5	10	6	8	6	4	11	15	14	16	10	4	2	3		1	2							
1965	100							40	22	8	26	8	1	7	5	8	14	9	19	23	12	14	10	7	4	7	7	5	5	4						
1966	17							20	4	6	6	1	5	4	22	24	29	35	48	44	29	23	19	11	6	5	1	1	3	1			1			
1967	107	4	35		20	11	12	29	15	14	21	10	11	5	7	4	3	5	9	7	3	3	2	3	1	2	4	5	5	8						
1968	26	16	29	23	22	14	12	24	27	18	22	18	9	32	27	17	6	4	5	3	2	3	4	1	1	1										
1969									14	8	7	5	20	24	32	26	23	29	24	47	29	17	13	14	9	7	5	9	3							
1970		8	9	19	4		6	3	2	14	53	61	19	27	7	8	6	21	35	33	10	10	5	2	1	2										
1971	39	4	6	6	3	5	6	11	15	11	29	31	5	7	17	25	53	20	19	11	11	11	7	3		3	2	3	1	1						

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	1272	6939	100.0	9	0.30	201	4453	64.2	18	4.8	386	2084	30.0	27	78	49	146	2.1
1	0.01	45	5667	81.7	10	0.40	403	4252	61.3	19	6.6	394	1658	24.5	28	110	40	97	1.3
2	0.02	89	5622	81.0	11	0.60	276	3849	55.5	20	9.0	257	1304	18.8	29	150	42	57	.8
3	0.03	54	5533	79.7	12	0.90	122	3573	51.5	21	12.0	332	1047	15.1	30	200	13	15	.2
4	0.04	67	5479	79.0	13	1.00	232	3451	49.7	22	17.0	214	715	10.3	31	270	2	2	.0
5	0.05	43	5412	78.0	14	1.40	258	3219	46.4	23	23.0	143	501	7.2	32				
6	0.08	50	5369	77.4	15	1.90	270	2961	42.7	24	31.0	88	358	5.2	33				
7	0.10	545	5319	76.7	16	2.60	305	2691	38.8	25	42.0	76	270	3.9	34				
8	0.20	321	4774	58.8	17	3.60	302	2386	34.4	26	58.0	48	194	2.8					



STATION NUMBER 05483600

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

MIDDLE RACCOON RIVER AT PANORA, ICWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1960	12.00 4	17.00 3	18.30 3	21.00 4	24.10 4	25.70 4	27.80 4	29.70 4	32.90 4	142.00 4
1961	19.00 9	20.00 7	20.60 6	21.20 5	26.40 6	27.20 5	31.40 5	34.90 6	42.70 7	211.00 8
1962	35.00 12	43.30 12	58.30 12	61.70 12	84.10 12	96.00 12	120.00 12	134.00 12	138.00 11	268.00 12
1963	16.00 8	18.00 4	21.60 8	26.50 9	29.00 9	30.30 6	34.20 7	38.80 8	49.60 9	197.00 7
1964	15.00 6	21.00 8	21.10 7	21.90 6	24.50 5	31.10 8	34.30 8	36.30 7	39.50 5	123.00 2
1965	16.00 7	19.30 5	19.70 5	22.90 7	27.20 7	30.90 7	31.70 6	33.30 5	40.30 6	228.00 10
1966	22.00 11	23.00 10	23.60 9	24.30 8	30.30 10	41.70 11	67.00 11	109.00 11	163.00 12	233.00 11
1967	13.00 5	19.00 6	19.40 4	20.30 3	20.90 3	24.00 3	25.30 3	25.80 3	26.70 3	118.00 1
1968	10.00 3	10.00 2	10.00 2	11.10 2	14.30 2	20.00 2	21.60 2	23.00 2	26.20 2	136.00 3
1969	20.00 10	21.70 9	24.60 10	27.40 10	34.30 11	40.30 10	56.40 10	70.70 10	69.50 10	216.00 5
1970	1.00 1	26.00 11	26.70 11	27.80 11	28.10 8	33.00 9	38.10 9	41.40 9	48.70 8	191.00 6
1971	4.30 2	4.87 1	5.76 1	6.32 1	6.81 1	6.89 1	7.36 1	9.60 1	13.60 1	168.00 5



STATION NUMBER 05483600

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

MIDDLE RACCCON RIVER AT PANDRA, IOWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1959	2000.0 12	1570.0 11	1160.0 10	712.0 10	537.0 9	424.0 8	398.0 8	350.0 7	261.0 8	144.0 9
1960	4410.0 3	3960.0 4	2800.0 4	1620.0 4	996.0 6	756.0 4	586.0 4	487.0 4	345.0 4	190.0 4
1961	2200.0 10	1480.0 9	1220.0 9	767.0 8	548.0 8	402.0 10	362.0 9	348.0 8	282.0 6	168.0 6
1962	4200.0 4	4160.0 3	3540.0 2	2320.0 2	1360.0 2	784.0 3	755.0 2	635.0 2	479.0 2	302.0 2
1963	3810.0 5	2520.0 7	1390.0 8	752.0 9	487.0 11	375.0 11	362.0 10	304.0 11	276.0 7	161.0 7
1964	2000.0 11	1450.0 12	930.0 12	668.0 11	523.0 10	422.0 9	401.0 7	333.0 9	238.0 11	139.0 10
1965	3800.0 6	3200.0 5	2480.0 5	1570.0 6	1180.0 5	939.0 2	710.0 3	624.0 3	439.0 3	263.0 3
1966	3270.0 7	2170.0 8	1430.0 7	837.0 7	760.0 7	469.0 7	350.0 11	318.0 10	241.0 10	183.0 5
1967	3260.0 8	2730.0 6	2260.0 6	1620.0 5	1230.0 4	678.0 6	466.0 6	359.0 6	247.0 9	138.0 11
1968	979.0 13	589.0 13	494.0 13	282.0 13	172.0 13	106.0 13	95.3 13	81.2 13	69.5 13	47.9 13
1969	5730.0 2	4850.0 2	4380.0 1	2890.0 1	1740.0 1	1050.0 1	773.0 1	737.0 1	564.0 1	340.0 1
1970	2360.0 9	1840.0 10	1070.0 11	626.0 12	374.0 12	249.0 12	211.0 12	183.0 12	134.0 12	84.4 12
1971	6500.0 1	5030.0 1	2990.0 3	1680.0 3	1240.0 3	698.0 5	507.0 5	432.0 5	297.0 5	156.0 8



STATION NUMBER 05483600

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

MIDDLE RACCCCN FIVER AT PANORA, ICWA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	CFS_DAYS		
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS			
1959											49	37	41	59	26	12	14	13	12	10	18	22	17	12	13	4	2	3		1					52614.0			
1960											1	21	42	72	61	17	19	7	20	17	27	17	16	6	7	5	2	1	2	1	3	1	1		65615.0			
1961												14	32	32	51	25	35	29	36	29	22	15	12	12	7	3	4	4	2	1					61490.0			
1962													1	2	27	31	35	81	55	39	30	19	14	8	5	4	2	1	4	2	5				110371.0			
1963												1	3	26	40	48	80	47	22	16	14	18	14	7	7	6	4	3	3	4	1		1		58780.0			
1964												1	11	16	53	18	36	7	16	20	16	20	16	12	8	3	7	1		4	1				50767.0			
1965												1	11	46	64	47	15	19	16	32	19	11	20	14	9	5	8	8	6	6	2	3	3		95834.0			
1966													1	24	15	15	26	34	43	81	47	30	16	13	5	4	1	4	1	2	2	1			66751.0			
1967												2	3	39	110	100	34	19	6	6	3	8	2	2	2	3	2	6	3	3	4	2			50234.0			
1968											7	6	20	25	108	92	43	24	17	4	7	3	3	2	1	2		1	1					17546.0				
1969	1												1	1	28	44	35	33	47	25	35	26	16	11	17	11	7	3	4		4	3	2	1	124048.0			
1970								1		1	1		39	48	65	54	37	30	33	26	10	7	2	4	1	1	2		1	1	1				30813.9			
1971									1	12	61	14	13	22	72	51	15	14	4	11	6	12	7	8	6	9	5	8	3	2		2	3		2	1	1	56838.8

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	4748	100.0	9	8.10	22	4672	58.4	18	86.0	263	1881	39.6	27	910	44	159	3.3
1	1.00	1	4748	100.0	10	11.00	23	4650	97.9	19	110.0	396	1618	34.1	28	1200	27	115	2.4
2	1.30	0	4747	100.0	11	14.00	97	4627	57.5	20	150.0	255	1222	25.7	29	1500	31	88	1.8
3	1.70	0	4747	100.0	12	18.00	273	4530	95.4	21	190.0	246	967	20.4	30	2000	21	57	1.2
4	2.20	0	4747	100.0	13	23.00	545	4257	89.7	22	250.0	188	721	15.2	31	2600	15	36	.7
5	2.90	0	4747	100.0	14	30.00	609	3712	78.2	23	320.0	142	533	11.2	32	3400	15	21	.4
6	3.70	1	4747	100.0	15	39.00	551	3103	65.4	24	420.0	94	391	8.2	33	4400	4	6	.1
7	4.80	13	4746	100.0	16	51.00	366	2552	53.7	25	540.0	82	297	6.3	34	5700	2	2	.0
8	6.30	61	4733	99.7	17	66.00	305	2186	46.0	26	700.0	56	215	4.5					



STATION NUMBER 05484000

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

SOUTH RACCOON RIVER AT REDFIELD, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1942	27.00 8	31.00 11	33.40 8	48.30 16	54.30 15	91.60 25	100.00 25	140.00 26	175.00 22	266.00 7
1943	25.00 5	25.70 6	27.10 6	33.00 6	48.90 13	64.40 12	72.20 11	83.90 14	178.00 23	347.00 13
1944	30.00 11	31.70 12	36.40 12	37.50 11	46.00 10	65.70 13	83.60 16	81.70 11	117.00 14	302.00 11
1945	50.00 24	55.00 25	62.90 25	70.70 26	76.30 26	91.30 24	94.90 22	58.00 18	138.00 19	633.00 27
1946	40.00 18	40.00 16	40.90 15	46.00 15	50.10 18	78.10 19	84.60 17	103.00 20	192.00 25	692.00 28
1947	95.00 29	102.00 28	106.00 28	121.00 28	129.00 28	165.00 28	208.00 28	266.00 28	348.00 29	455.00 19
1948	30.00 12	30.00 9	30.70 7	36.80 9	47.50 11	70.80 15	93.80 20	109.00 21	100.00 11	835.00 29
1949	23.00 9	29.30 8	34.40 9	36.50 8	41.30 6	45.40 5	55.50 7	65.20 8	91.30 10	280.00 10
1950	25.00 6	25.00 4	25.00 4	25.60 3	28.50 2	36.00 2	42.50 2	51.60 4	76.70 6	202.00 3
1951	35.00 15	36.00 14	36.60 13	38.20 12	42.60 8	43.50 4	45.90 3	48.70 2	57.80 3	432.00 18
1952	140.00 30	140.00 30	144.00 30	154.00 30	185.00 30	203.00 29	241.00 29	275.00 29	375.00 30	898.00 30
1953	60.00 27	67.00 27	79.10 27	87.00 27	90.50 27	99.80 26	107.00 26	109.00 22	183.00 24	527.00 23
1954	20.00 2	20.00 1	20.00 1	21.10 1	30.70 3	40.40 3	49.70 4	50.30 3	52.80 2	275.00 9
1955	34.00 13	34.70 13	35.90 10	37.30 10	42.20 7	80.70 22	95.20 24	133.00 25	202.00 26	254.00 5
1956	19.00 1	20.70 2	22.70 2	23.50 2	27.30 1	32.60 1	32.70 1	33.10 1	33.50 1	154.00 2
1957	30.00 10	31.00 10	36.30 11	36.40 7	43.60 9	53.70 9	63.20 9	75.30 9	79.40 8	134.00 1
1958	43.00 19	43.70 18	45.60 17	51.40 20	68.30 22	83.60 23	92.70 19	111.00 24	156.00 21	326.00 12
1959	45.00 20	45.00 19	45.00 16	45.00 14	48.20 12	51.20 8	53.70 6	64.80 7	139.00 20	456.00 20
1960	48.00 23	48.70 23	50.00 22	57.40 22	74.10 25	74.90 17	85.60 18	89.20 16	102.00 12	374.00 14
1961	46.00 21	46.30 20	47.30 19	50.10 19	62.80 19	63.20 11	74.40 12	83.00 12	119.00 15	540.00 24
1962	92.00 28	104.00 29	117.00 29	125.00 29	180.00 29	231.00 30	262.00 30	320.00 30	329.00 27	605.00 26
1963	30.00 16	38.70 15	47.60 20	60.10 23	67.50 21	70.70 14	80.00 14	91.60 17	114.00 13	470.00 21
1964	36.00 17	47.00 21	47.00 21	48.40 17	57.10 17	71.10 16	76.00 13	80.40 10	86.80 9	262.00 6
1965	47.00 22	48.30 22	53.30 23	63.60 24	69.10 23	79.80 21	81.70 15	86.90 15	136.00 18	575.00 25
1966	52.00 25	53.00 24	53.70 24	57.00 21	70.00 24	102.00 27	186.00 27	250.00 27	337.00 28	480.00 22
1967	34.00 14	42.30 17	45.70 18	49.60 18	50.60 14	57.10 10	57.70 8	59.40 6	60.30 5	246.00 4
1968	23.00 4	23.00 3	23.60 3	26.10 4	34.20 5	46.80 7	51.50 5	54.30 5	60.20 4	270.00 8
1969	22.00 3	25.70 5	37.10 14	40.60 13	50.20 16	78.90 20	95.10 23	110.00 23	120.00 16	393.00 15
1970	60.00 26	62.00 26	63.10 26	64.60 25	65.70 20	77.30 18	94.10 21	101.00 19	120.00 17	421.00 17
1971	20.00 7	26.00 7	26.60 5	27.90 5	30.90 4	46.20 6	66.70 10	83.40 13	78.80 7	398.00 16



STATION NUMBER 05484000

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

SOUTH RABBITON RIVER AT REDFIELD, ICWA

YEAR	1	2	7	15	30	60	90	120	183	ANNUAL
1941	2640.0 29	1540.0 30	1090.0 29	694.0 29	641.0 29	375.0 29	293.0 29	282.0 29	256.0 29	172.0 28
1942	3340.0 26	2230.0 28	1360.0 28	945.0 28	721.0 27	629.0 25	643.0 24	575.0 24	538.0 19	417.0 12
1943	3810.0 27	3130.0 26	1980.0 26	1260.0 26	964.0 24	633.0 24	595.0 25	587.0 22	461.0 23	317.0 21
1944	11000.0 10	7790.0 11	5440.0 7	3210.0 11	2730.0 5	1970.0 5	1540.0 6	1310.0 7	997.0 7	557.0 8
1945	8840.0 14	6220.0 16	4100.0 15	3380.0 8	2750.0 4	1980.0 4	1670.0 3	1490.0 3	1140.0 4	631.0 6
1946	11800.0 8	5310.0 17	2840.0 20	1660.0 23	1500.0 17	965.0 21	818.0 15	655.0 18	633.0 16	496.0 9
1947	14900.0 3	11200.0 3	6830.0 3	6420.0 1	5030.0 1	3010.0 1	2390.0 1	1940.0 1	1410.0 2	834.0 1
1948	15400.0 2	9670.0 5	5200.0 10	2830.0 13	1620.0 14	992.0 18	742.0 21	582.0 23	438.0 24	264.0 24
1949	6170.0 22	4620.0 20	3000.0 18	2640.0 14	1600.0 15	1090.0 15	813.0 20	655.0 20	506.0 20	299.0 22
1950	9250.0 13	7860.0 9	5230.0 9	3180.0 12	1940.0 12	1470.0 10	1040.0 12	956.0 11	700.0 11	383.0 15
1951	13100.0 6	9730.0 4	5340.0 8	3240.0 10	2150.0 11	2070.0 3	2060.0 2	1810.0 2	1440.0 1	778.0 2
1952	7440.0 19	5100.0 18	3020.0 17	2620.0 15	1900.0 13	1340.0 12	1120.0 10	1240.0 8	1030.0 6	669.0 5
1953	14100.0 5	8900.0 7	4430.0 13	2410.0 17	1510.0 16	1010.0 17	852.0 18	793.0 16	646.0 15	372.0 17
1954	5300.0 23	3450.0 23	2260.0 25	1360.0 25	739.0 26	410.0 28	359.0 28	328.0 28	262.0 28	162.0 29
1955	4610.0 24	2890.0 27	1640.0 27	982.0 27	645.0 28	520.0 27	476.0 27	438.0 27	362.0 26	255.0 25
1956	2370.0 30	1990.0 29	1040.0 30	529.0 30	436.0 30	324.0 30	247.0 30	236.0 30	178.0 30	109.0 30
1957	10400.0 11	7830.0 10	4460.0 14	2580.0 16	1470.0 18	928.0 23	674.0 23	561.0 25	405.0 25	242.0 26
1958	18600.0 1	14600.0 1	7310.0 1	3720.0 4	2450.0 8	1380.0 11	1170.0 9	923.0 12	689.0 13	466.0 11
1959	3840.0 25	3420.0 24	2720.0 21	1720.0 22	1380.0 21	1060.0 16	1000.0 13	883.0 13	662.0 14	371.0 18
1960	8260.0 16	7900.0 8	6050.0 6	3650.0 5	2300.0 10	1830.0 7	1430.0 8	1190.0 9	868.0 9	490.0 10
1961	3800.0 28	3300.0 25	2300.0 24	1760.0 20	1370.0 22	1120.0 14	887.0 17	878.0 14	692.0 12	415.0 13
1962	7720.0 17	7420.0 12	6530.0 4	4530.0 3	2690.0 6	1600.0 8	1640.0 4	1390.0 5	1080.0 5	687.0 3
1963	6500.0 20	3960.0 22	2620.0 23	1740.0 21	1280.0 23	966.0 20	915.0 15	756.0 17	625.0 17	368.0 19
1964	11200.0 9	6340.0 15	3630.0 16	2210.0 18	1420.0 19	983.0 19	925.0 14	813.0 15	615.0 18	351.0 20
1965	12500.0 7	6820.0 13	5150.0 11	3420.0 7	2820.0 3	2150.0 2	1580.0 5	1360.0 6	977.0 8	579.0 7
1966	6340.0 21	4610.0 21	2910.0 19	1850.0 19	1400.0 20	938.0 22	706.0 22	646.0 21	501.0 21	380.0 16
1967	8320.0 15	6390.0 14	4930.0 12	3330.0 9	2330.0 9	1290.0 13	893.0 16	690.0 19	483.0 22	273.0 23
1968	971.0 31	688.0 31	633.0 31	371.0 31	235.0 31	155.0 31	148.0 31	132.0 31	121.0 31	91.4 31
1969	9900.0 12	5080.0 6	7300.0 2	5050.0 2	2990.0 2	1890.0 6	1460.0 7	1400.0 4	1150.0 3	672.0 4
1970	7430.0 18	4740.0 19	2680.0 22	1580.0 24	921.0 25	593.0 26	515.0 26	448.0 26	336.0 27	216.0 27
1971	14800.0 4	11500.0 2	6400.0 5	3520.0 6	2580.0 7	1470.0 9	1100.0 11	1030.0 10	720.0 10	400.0 14



STATION NUMBER 05484000

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

SOUTH RACCON RIVER AT REDFIELD, ICWA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	CFS_DAYS		
YEAR	NUMBER OF DAYS IN CLASS																																			CFS_DAYS		
1941			24	25	29	26	22	40	34	36	17	24	17	12	16	5	10	6	8	4	3	2	4													1	62775.0	
1942						2	14	14	19	14	28	41	38	42	28	28	30	18	16	12	8	3	3	3	3	1	1	1									152214.0	
1943			6	2	7	15	13	17	42	54	30	39	22	22	13	9	15	16	10	5	3	7	6	3	4	3	1	1								115565.0		
1944				4	17	19	12	35	12	26	24	27	13	12	16	19	17	15	19	26	11	8	8	5	5	5	2	5	1	1	1				1	203705.0		
1945					1	4	11	46	69	19	13	12	11	15	15	17	21	18	17	19	11	15	5	4	8	6	4	3							1	230479.0		
1946				6	5	8	6	25	50	2	20	31	21	52	31	20	13	14	13	11	10	12	4	3	3			2						1	1	1	181181.0	
1947						2	18	7	24	10	29	24	29	28	24	24	29	31	18	18	7	4	7	5	8	6	1	2	2	2	3	1	2			304552.0		
1948			1	12	8	34	11	35	42	48	35	46	16	17	19	9	7	6	4	6	1	3		1	1		1			1	1					1	56660.0	
1949				1	22	46	47	36	24	17	14	27	17	27	12	9	11	11	10	13	4	3	4	1	1	2	4		1	1						109234.0		
1950			17	11	15	33	68	11	23	28	17	22	12	19	8	8	10	12	9	10	8	2	7	1		2	6	2	1	1	1	1				139860.0		
1951					37	36	52	10	10	7	1	5	4	5	16	15	14	21	22	18	18	19	22	5	7	7	1	3	2	1	2	3	1	1		283854.0		
1952										1	4	33	28	43	38	34	36	27	20	26	18	10	14	10	6	4	4	1	2	1	1					244794.0		
1953					18	17	11	37	77	24	7	12	9	18	29	26	27	18	17	8	2		3		2										1	1	135770.0	
1954	11	4	8	34	44	61	50	47	23	12	14	12	7	6	5	3	7	1	5	2	4	1	1	1		1		1								59207.0		
1955		7	15	13	10	8	32	12	23	37	23	34	27	20	28	21	12	11	10	6	5		8	1	1				1								92048.0	
1956		3	18	74	76	45	37	20	23	19	4	10	3	4	10	1	2	5	3	2	2	1	2		2												40037.0	
1957				34	22	41	47	37	33	18	28	21	11	15	11	9	9	5	3	1	3	1	1	1	1	1				1	1				1	88321.0		
1958					5			18	36	33	61	48	32	39	30	13	13	13	5	3	2	4	3			2		1							2	1	1	170190.0
1959					36	61	25	29	44	10	14	6	14	18	11	9	14	14	14	13	8	14	3	2	2	3	1										135334.0	
1960						11	29	36	61	44	31	12	11	12	13	17	20	13	11	13	5	7	6	2	3	1	1	1	1	3	3						179326.0	
1961						9	29	22	26	44	12	30	21	21	21	23	23	18	18	7	4	10	10	3	6	1	6	1									151336.0	
1962							1	13	12	18	40	24	35	55	39	27	25	23	17	6	8	3	4	1		3	3	4	4									250936.0
1963				3	1	16	31	25	59	46	49	26	15	13	12	12	10	6	9	6		7	3	5	5	4		1	1								134162.0	
1964				1	13	10	25	81	49	20	25	17	17	13	12	13	18	12	13	6	3	9	1	3	1	1	1	1	1							1	128565.0	
1965					4	30	31	39	52	17	19	15	15	14	18	20	14	16	11	6	8	7	4	6	4	6	4	6	2	2			3	1	1		211367.0	
1966						2	17	16	8	10	21	39	30	45	55	35	24	14	15	13	6	3	4	1	2	1	2	1								1	138602.0	
1967				2	7	33	102	74	46	15	16	15	10	5	2	5	3	2	1	3	3	1	3	4	4	2	2	2	1	1	1						99700.0	
1968	1	11	8	23	39	76	110	35	20	9	11	3	6	2	2	3	2	2	1	2																	33436.0	
1969						2	15	20	30	20	36	29	29	23	22	15	22	16	18	11	12	14	6	6		2	3	4	1	2	3						245375.0	
1970					3	21	30	50	42	41	21	33	25	44	16	11	5	9	3	3	1	2	2			1		1								1	78905.0	
1971			9	16	10	39	21	42	40	16	32	26	16	13	9	8	11	14	13	2	2	6	3	3	3		2	2						2	1	2	145926.0	



STATION NUMBER 05484000

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

SOUTH RACCOON RIVER AT REDFIELD, IOWA

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	11322	100.0	9	96.00	1058	7544	66.6	18	600.0	387	1787	15.8	27	3700	38	145	1.2
1	19.00	22	11322	100.0	10	120.00	581	6435	57.3	19	730.0	338	1400	12.4	28	4600	28	107	.9
2	23.00	105	11300	99.8	11	140.00	813	5905	52.2	20	900.0	238	1062	9.4	29	5600	23	79	.6
3	27.00	176	11195	98.9	12	180.00	613	5092	45.0	21	1100.0	166	824	7.3	30	6800	24	56	.4
4	35.00	342	11019	97.3	13	220.00	603	4479	39.6	22	1300.0	203	658	5.8	31	8400	13	32	.2
5	43.00	554	10677	94.3	14	270.00	624	3876	34.2	23	1700.0	91	455	4.0	32	10000	10	19	.1
6	52.00	834	10113	89.3	15	330.00	530	3252	28.7	24	2000.0	87	364	3.2	33	13000	7	9	.0
7	60.00	843	9279	82.0	16	400.00	472	2722	24.0	25	2500.0	68	277	2.4	34	15000	2	2	.0
8	79.00	392	8435	74.5	17	490.00	463	2250	19.9	26	3000.0	64	209	1.8					



STATION NUMBER 05484500

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

RACCOON RIVER AT VAN METERS, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1917	53.00 17	53.00 17	53.00 10	53.00 13	53.00 8	59.50 7	75.10 5	108.00 14	125.00 11	770.00 13
1918	42.00 12	42.00 11	42.00 9	43.70 8	46.00 6	57.10 6	87.50 9	107.00 12	191.00 19	1190.00 32
1919	28.00 5	38.70 8	40.90 5	42.60 7	58.40 11	76.70 12	136.00 19	164.00 20	208.00 21	882.00 19
1920	67.00 22	82.30 25	89.70 27	94.90 26	130.00 32	272.00 47	581.00 51	786.00 52	860.00 48	1880.00 49
1921	279.00 54	285.00 53	290.00 53	303.00 53	350.00 53	528.00 53	665.00 52	627.00 48	721.00 42	1450.00 41
1922	150.00 46	150.00 46	150.00 43	150.00 43	157.00 35	173.00 31	267.00 37	402.00 44	789.00 45	1100.00 26
1923	153.00 47	150.00 47	160.00 47	160.00 46	164.00 36	191.00 35	204.00 30	294.00 34	290.00 27	966.00 23
1924	94.00 33	94.00 32	94.00 29	94.00 25	94.00 22	265.00 46	413.00 46	564.00 47	1270.00 54	1580.00 44
1925	100.00 35	100.00 37	100.00 31	100.00 28	100.00 23	139.00 24	182.00 24	245.00 30	392.00 35	1300.00 35
1926	50.00 18	50.00 18	50.00 15	63.10 17	76.90 18	110.00 20	144.00 21	186.00 21	228.00 23	502.00 8
1927	75.00 27	75.70 29	83.90 25	100.00 31	109.00 27	192.00 36	553.00 50	461.00 45	1060.00 51	1260.00 33
1928	40.00 14	40.00 9	40.00 7	45.70 10	61.30 13	70.50 9	87.70 10	132.00 17	207.00 20	935.00 21
1929	80.00 31	107.00 39	127.00 40	138.00 40	287.00 52	480.00 52	728.00 53	864.00 53	868.00 49	1390.00 39
1930	42.00 32	42.00 31	100.00 32	101.00 29	130.00 33	152.00 26	184.00 25	195.00 23	186.00 17	813.00 15
1931	70.00 28	70.00 22	70.00 21	70.00 19	70.00 17	80.50 13	89.40 11	90.80 5	93.00 4	453.00 6
1932	95.00 34	95.00 33	95.30 33	112.00 33	127.00 30	166.00 30	248.00 34	340.00 39	350.00 32	1460.00 42
1933	115.00 42	115.00 42	125.00 42	135.00 38	209.00 45	238.00 41	268.00 38	276.00 32	350.00 33	856.00 18
1934	35.00 9	45.00 12	47.50 12	55.40 15	64.10 14	84.50 14	90.70 12	103.00 10	142.00 13	439.00 4
1935	21.00 3	22.70 4	23.30 4	27.00 4	32.50 4	51.50 4	83.10 6	95.00 6	120.00 8	409.00 3
1936	50.00 15	50.00 15	50.00 14	50.00 12	59.80 12	118.00 21	155.00 22	206.00 26	189.00 18	960.00 22
1937	16.00 2	17.30 2	18.00 2	19.00 2	21.10 2	40.40 3	69.10 4	70.50 4	112.00 5	533.00 9
1938	22.00 4	22.70 3	24.30 3	24.70 3	30.30 3	33.80 2	39.60 2	44.10 2	81.50 3	443.00 5
1939	100.00 39	100.00 38	111.00 38	133.00 36	220.00 49	261.00 44	299.00 42	368.00 41	799.00 46	1140.00 29
1940	10.00 1	10.00 1	10.00 1	10.50 1	13.90 1	24.10 1	34.60 1	39.60 1	41.60 1	321.00 2
1941	20.00 6	33.30 7	40.40 13	63.10 18	104.00 25	176.00 32	317.00 43	394.00 43	549.00 39	720.00 11
1942	74.00 25	76.70 26	85.70 25	126.00 35	187.00 41	208.00 38	258.00 35	393.00 42	724.00 43	1110.00 27
1943	115.00 43	115.00 43	127.00 41	138.00 39	204.00 44	236.00 40	263.00 36	331.00 37	601.00 40	1560.00 37
1944	130.00 44	140.00 45	157.00 46	170.00 47	197.00 42	283.00 48	337.00 44	342.00 40	464.00 38	1320.00 36
1945	150.00 45	177.00 50	190.00 51	196.00 50	222.00 50	263.00 45	281.00 40	297.00 35	449.00 37	2350.00 52
1946	80.00 24	80.00 27	82.90 24	84.60 24	130.00 31	193.00 37	220.00 33	265.00 31	655.00 41	2510.00 54
1947	150.00 42	163.00 43	160.00 49	252.00 52	286.00 51	368.00 51	479.00 48	645.00 49	799.00 47	1390.00 40
1948	68.00 21	83.30 20	85.70 20	75.50 23	102.00 24	151.00 25	207.00 31	227.00 29	213.00 22	2490.00 53
1949	58.70 19	67.00 19	63.30 19	70.20 20	77.50 20	93.50 17	120.00 18	138.00 18	185.00 16	888.00 20
1950	35.00 7	35.00 5	35.70 5	37.40 5	44.90 5	64.50 8	81.20 7	102.00 9	153.00 14	619.00 10
1951	52.00 16	57.00 16	53.40 17	56.00 16	68.10 15	71.10 10	80.30 6	97.30 7	136.00 12	1180.00 30
1952	90.00 35	93.00 35	93.00 35	92.00 35	99.00 35	706.00 54	909.00 55	1110.00 55	1540.00 55	3600.00 55
1953	110.00 41	117.00 41	134.00 43	159.00 45	178.00 40	190.00 34	198.00 28	198.00 25	330.00 30	1520.00 43
1954	45.00 13	45.00 14	45.00 11	46.60 11	55.50 9	76.00 11	98.10 13	97.60 8	114.00 7	855.00 17



## STATION NUMBER 05484500

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## WACCOON RIVER AT VAN METERS, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1955	190.00 52	190.00 52	190.00 50	192.00 49	217.00 48	340.00 50	450.00 47	666.00 50	1110.00 52	1610.00 45
1956	37.00 10	41.70 10	44.30 10	45.50 9	49.20 7	52.40 5	53.60 3	57.00 3	61.40 2	493.00 7
1957	35.00 8	35.00 6	35.90 6	37.70 6	57.80 10	85.10 15	102.00 16	112.00 15	123.00 9	201.00 1
1958	45.00 35	49.00 34	103.00 35	116.00 34	152.00 34	165.00 28	184.00 26	226.00 28	333.00 31	758.00 12
1959	70.00 25	70.00 21	70.00 22	73.10 21	79.10 19	92.20 16	102.00 17	125.00 16	283.00 26	1130.00 28
1960	105.00 40	111.00 40	117.00 39	134.00 37	165.00 37	166.00 29	200.00 29	221.00 27	279.00 25	1080.00 25
1961	100.00 35	100.00 35	101.00 33	106.00 30	126.00 29	132.00 23	166.00 23	195.00 24	299.00 28	1860.00 48
1962	270.00 53	320.00 54	343.00 54	360.00 54	479.00 54	706.00 55	728.00 54	934.00 54	917.00 50	1790.00 46
1963	170.00 59	170.00 49	170.00 48	174.00 48	203.00 43	226.00 39	268.00 39	319.00 36	766.00 44	2070.00 51
1964	60.00 20	61.00 30	63.30 28	68.30 27	107.00 26	125.00 22	140.00 20	150.00 19	171.00 15	613.00 16
1965	90.00 30	90.70 29	107.00 30	152.00 44	166.00 39	189.00 33	184.00 27	190.00 22	259.00 24	1190.00 31
1966	135.00 45	137.00 44	143.00 44	145.00 42	165.00 38	244.00 43	505.00 49	726.00 51	1160.00 53	1640.00 47
1967	70.00 25	71.30 23	72.00 23	75.90 22	82.50 21	94.20 19	99.10 14	108.00 13	113.00 6	785.00 14
1968	50.00 14	50.00 14	51.30 15	55.40 14	69.60 16	94.00 18	102.00 15	107.00 11	125.00 10	495.00 24
1969	67.00 23	70.30 25	109.00 37	142.00 41	212.00 46	286.00 49	353.00 45	475.00 46	441.00 36	1280.00 34
1970	104.00 51	104.00 51	193.00 52	202.00 51	212.00 47	242.00 42	285.00 41	335.00 38	385.00 34	2050.00 50
1971	100.00 37	100.00 37	104.00 34	109.00 32	123.00 28	162.00 27	216.00 32	281.00 33	311.00 29	1370.00 38



STATION NUMBER 05484500

HIGHEST MEAN DISCHARGES IN CFS AND RANKING FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

RALLIUS RIVER AT VAN METERS, IOWA

YEAR	1	1	7	15	30	60	90	120	183	ANNUAL
1915	14800.0 21	12000.0 23	9200.0 27	6220.0 30	4730.0 27	3450.0 23	2610.0 28	2320.0 27	2350.0 17	1630.0 13
1917	31800.0 2	20000.0 6	17700.0 3	12000.0 8	7010.0 11	4550.0 13	4150.0 9	3570.0 10	2530.0 13	1340.0 19
1918	14000.0 22	14000.0 19	12400.0 15	8560.0 14	5510.0 18	2990.0 31	2080.0 37	1660.0 40	1290.0 41	709.0 45
1919	12000.0 31	8970.0 37	7070.0 34	7360.0 22	5270.0 15	4280.0 14	3930.0 11	3410.0 12	2570.0 12	1450.0 17
1920	9000.0 41	5030.0 38	7790.0 36	5590.0 32	4410.0 29	3730.0 18	3590.0 16	3020.0 16	2520.0 14	1730.0 11
1921	9510.0 40	7020.0 41	6020.0 38	4730.0 40	2890.0 43	1820.0 48	1540.0 46	1720.0 39	1400.0 36	1180.0 25
1922	11200.0 34	9370.0 35	6900.0 32	5770.0 31	3630.0 35	2950.0 33	2370.0 34	2040.0 34	1640.0 31	1050.0 32
1923	9780.0 39	9430.0 34	7340.0 37	4720.0 41	3030.0 40	2230.0 41	2030.0 38	1870.0 35	1600.0 32	1020.0 33
1924	10300.0 16	13000.0 22	8350.0 29	6340.0 28	4940.0 25	3720.0 19	2890.0 23	3130.0 15	2800.0 11	1970.0 8
1925	5840.0 50	4530.0 50	3590.0 50	2640.0 50	2160.0 50	1280.0 52	1080.0 51	900.0 52	803.0 52	534.0 51
1926	2740.0 5	22000.0 4	15400.0 11	9370.0 12	6690.0 12	3540.0 22	2420.0 33	2140.0 31	1430.0 35	905.0 35
1927	6750.0 47	5730.0 45	4020.0 45	3900.0 44	3150.0 38	2970.0 32	2590.0 29	2270.0 28	1790.0 28	1230.0 23
1928	7290.0 45	3830.0 52	2020.0 53	2020.0 52	1580.0 52	1360.0 51	1260.0 49	1080.0 50	1040.0 47	693.0 46
1929	15500.0 15	17200.0 12	10200.0 7	10700.0 10	6690.0 13	4950.0 10	4040.0 10	3300.0 13	2430.0 16	1580.0 15
1930	5870.0 49	5070.0 47	3430.0 44	3080.0 45	2490.0 47	1930.0 45	1480.0 47	1230.0 48	965.0 49	564.0 49
1931	4240.0 53	2950.0 54	1940.0 54	1130.0 54	715.0 54	519.0 54	417.0 54	426.0 54	350.0 54	230.0 54
1932	14000.0 23	13200.0 20	11700.0 18	8670.0 13	5720.0 16	3950.0 16	3740.0 13	3450.0 11	2860.0 9	1930.0 9
1933	7420.0 44	6000.0 43	3370.0 45	3510.0 45	2490.0 48	1840.0 47	1410.0 48	1190.0 49	921.0 50	578.0 48
1934	2070.0 55	1740.0 56	1270.0 55	853.0 55	542.0 55	369.0 56	323.0 55	294.0 56	268.0 55	182.0 55
1935	6320.0 42	7050.0 42	6130.0 40	5320.0 34	3560.0 37	2130.0 43	1570.0 45	1430.0 44	1360.0 37	751.0 39
1936	11200.0 35	10000.0 30	9050.0 24	7910.0 19	5050.0 23	2860.0 34	2190.0 35	1860.0 36	1260.0 43	731.0 43
1937	10800.0 36	10300.0 32	8510.0 31	4950.0 37	2990.0 41	1910.0 46	1770.0 40	1640.0 41	1200.0 44	670.0 47
1938	7530.0 43	5740.0 46	5440.0 43	4370.0 42	2760.0 45	2200.0 42	1710.0 44	1610.0 42	1300.0 40	734.0 42
1939	10000.0 32	10700.0 31	9820.0 25	6490.0 25	3910.0 32	2380.0 38	1750.0 42	1420.0 45	1130.0 45	736.0 41
1940	5200.0 51	4730.0 49	3070.0 51	2340.0 51	2050.0 51	1450.0 49	1050.0 52	914.0 51	825.0 51	452.0 52
1941	5740.0 52	4720.0 51	4470.0 49	3110.0 49	2450.0 49	1450.0 50	1210.0 50	1250.0 47	1100.0 46	715.0 44
1942	7150.0 46	5150.0 44	4570.0 47	3500.0 47	2990.0 42	2790.0 36	2710.0 26	2360.0 26	2210.0 20	1720.0 12
1943	12000.0 30	11000.0 28	7990.0 33	5330.0 33	3800.0 35	3090.0 29	2910.0 22	2710.0 23	2120.0 21	1400.0 18
1944	10100.0 32	17100.0 13	15100.0 8	11200.0 9	10200.0 4	7620.0 3	5970.0 4	4990.0 5	3750.0 6	2100.0 7
1945	12500.0 28	12000.0 26	11000.0 20	10300.0 11	9010.0 6	7390.0 4	6320.0 3	5810.0 4	4420.0 3	2420.0 5
1946	11500.0 33	8400.0 39	5920.0 42	4910.0 38	4240.0 31	3180.0 27	2770.0 24	2840.0 19	2440.0 15	1580.0 16
1947	3300.0 1	25900.0 2	16200.0 4	16300.0 1	14000.0 1	9060.0 1	7080.0 2	5900.0 2	4270.0 4	2430.0 4
1948	24000.0 7	17900.0 8	13700.0 12	8320.0 16	5210.0 22	3350.0 25	2700.0 27	2110.0 33	1570.0 33	842.0 36
1949	15700.0 24	12900.0 23	10500.0 22	6310.0 29	4910.0 26	3370.0 24	2580.0 30	2140.0 32	1550.0 34	877.0 37
1950	4700.0 50	14900.0 15	12100.0 17	8070.0 17	5220.0 20	4090.0 15	3010.0 19	2730.0 22	2030.0 23	1090.0 28
1951	25100.0 6	24300.0 7	19100.0 2	13400.0 4	8910.0 7	8270.0 2	7890.0 1	6970.0 1	5850.0 1	3070.0 1
1952	12400.0 29	11900.0 27	9020.0 26	6910.0 23	5880.0 14	4630.0 12	3600.0 12	3910.0 9	3410.0 7	2190.0 6
1953	32400.0 8	15400.0 17	9390.0 28	5230.0 35	3900.0 33	2840.0 35	2550.0 31	2370.0 25	1930.0 26	1070.0 30



STATION NUMBER 05484500

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

RACCOON RIVER AT VAN METER, IOWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1954	19400.0 11	16400.0 16	12200.0 16	7970.0 18	5580.0 17	3310.0 26	3160.0 18	2760.0 20	2020.0 24	1080.0 29
1955	6500.0 48	6020.0 45	4750.0 46	3330.0 48	2770.0 44	1930.0 44	1770.0 41	1560.0 43	1280.0 42	1060.0 31
1956	2400.0 55	2180.0 55	1230.0 56	537.0 56	526.0 56	393.0 55	305.0 56	325.0 55	265.0 56	166.0 56
1957	19200.0 14	16500.0 15	10500.0 21	6490.0 26	3890.0 34	2350.0 39	1720.0 43	1390.0 46	959.0 48	559.0 50
1958	27700.0 4	21700.0 5	13300.0 13	7600.0 21	5330.0 19	3650.0 21	2710.0 25	2270.0 29	1730.0 29	1120.0 27
1959	13300.0 26	12800.0 24	11500.0 19	7700.0 20	5210.0 21	3690.0 20	3210.0 17	2850.0 18	2090.0 22	1130.0 26
1960	30500.0 3	26900.0 1	19500.0 1	12400.0 7	7670.0 9	5870.0 8	4900.0 8	4060.0 8	2860.0 10	1590.0 14
1961	9400.0 37	9400.0 35	6580.0 30	6520.0 24	4990.0 24	3740.0 17	2990.0 20	2870.0 17	2220.0 19	1260.0 22
1962	14700.0 13	14900.0 9	17700.0 5	15300.0 2	10300.0 3	6280.0 6	5720.0 5	4930.0 6	4050.0 5	2620.0 3
1963	4400.0 58	8070.0 40	6450.0 39	4900.0 39	4250.0 30	3050.0 30	2950.0 21	2630.0 24	2010.0 25	1200.0 24
1964	15700.0 19	9610.0 33	5980.0 41	4100.0 43	2660.0 46	2380.0 37	2130.0 36	1810.0 37	1330.0 38	751.0 40
1965	19600.0 12	17700.0 10	15000.0 7	13200.0 6	8720.0 8	6160.0 7	4910.0 7	4330.0 7	3120.0 8	1800.0 10
1966	13700.0 25	13100.0 21	10100.0 23	6470.0 27	4660.0 28	3150.0 28	2420.0 32	2200.0 30	1670.0 30	1290.0 21
1967	18100.0 17	17300.0 11	15400.0 10	13300.0 5	9480.0 5	5250.0 9	3610.0 14	2750.0 21	1870.0 27	996.0 34
1968	4230.0 54	3700.0 53	3100.0 52	1920.0 53	1160.0 53	730.0 53	605.0 53	532.0 53	441.0 53	285.0 53
1969	28100.0 9	20400.0 7	17300.0 6	14400.0 3	10900.0 2	7240.0 5	5610.0 6	5810.0 3	4700.0 2	2830.0 2
1970	12000.0 27	10600.0 29	7340.0 35	4960.0 36	3130.0 39	2260.0 40	2010.0 39	1800.0 38	1310.0 39	802.0 38
1971	22600.0 10	18700.0 14	12600.0 14	8430.0 15	7300.0 10	4910.0 11	3590.0 15	3270.0 14	2330.0 18	1320.0 20



DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

RACCOON RIVER AT VAN METERS, IOWA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	CFS_DAYS		
1916											15	14	13	6	7	9	19	9	41	16	10	23	46	30	35	18	35	6	5	1	1	2				596670.0		
1917										39	10	35	12	10	36	27	24	18	6	6	9	16	19	25	23	12	12	5	2	5	4	3	3	2		2	488587.0	
1918										12	41	5	37	33	32	56	32	16	13	11	10	12	14	2	3	12	4	5	4		1	3	3	4		250761.0		
1919										2	3	5	3	13	10	9	6	27	39	19	16	35	12	43	19	18	13	5	9	27	10	10	7	2	1		530843.0	
1920																7	8	29	38	28	46	30	20	38	19	21	27	25	15	8	7				634297.0			
1921																3	24	45	20	49	37	47	44	41	16	13	4	8	5	7	1	1			432318.0			
1922																54	16	24	17	32	44	34	19	22	49	22	12	5	4	4	1	5	1			385107.0		
1923																57	49	11	16	17	21	28	34	28	41	32	16	6	2	2	1	2	2			371401.0		
1924																31			1	11		3	24	58	33	38	36	23	33	18	16	17	8	13	1	1	1	719465.0
1925																35	21	48	39	31	31	39	51	20	18	7	4	5	5	6	2	3				195034.0		
1926																																				330233.0		
1927																																				447285.0		
1928																																				253670.0		
1929																																				575575.0		
1930																																				205816.0		
1931																																				84104.0		
1932																																				707648.0		
1933																																				216937.0		
1934																																				65288.0		
1935																																				274283.0		
1936																																				267587.0		
1937																																				244563.0		
1938																																				260000.0		
1939																																				260733.0		
1940																																				165371.0		
1941																																				261015.0		
1942																																				628664.0		
1943																																				509598.0		
1944																																				767626.0		
1945																																				882453.0		
1946																																				577904.0		
1947																																				886304.0		
1948																																				322659.0		
1949																																				320265.0		
1950																																				390020.0		
1951																																				1122057.0		
1952																																				801570.0		
1953																																				391686.0		







STATION NUMBER 05485500

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

DES MOINES RIVER BELOW RACCOON RIVER AT DES MOINES, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1941	80.00 4	85.30 5	103.00 5	144.00 8	275.00 12	516.00 17	826.00 22	953.00 22	1450.00 21	1810.00 4
1942	209.00 14	227.00 15	260.00 15	354.00 19	496.00 20	720.00 24	1290.00 27	1910.00 28	2830.00 29	4000.00 19
1943	390.00 24	393.00 23	410.00 24	463.00 24	550.00 24	675.00 23	851.00 23	1260.00 24	2220.00 26	4240.00 22
1944	460.00 28	480.00 27	542.00 28	562.00 28	614.00 28	872.00 26	1030.00 24	1080.00 23	1430.00 20	3730.00 18
1945	355.00 23	400.00 24	407.00 23	425.00 22	452.00 19	528.00 18	609.00 17	705.00 16	1240.00 18	6540.00 29
1946	268.00 18	272.00 18	283.00 18	308.00 15	369.00 16	492.00 16	569.00 16	713.00 17	1600.00 22	6500.00 28
1947	450.00 26	483.00 28	557.00 29	757.00 29	887.00 29	1010.00 29	1430.00 28	1720.00 27	1990.00 25	3660.00 17
1948	144.00 10	149.00 10	157.00 10	163.00 10	218.00 10	346.00 12	483.00 14	532.00 13	501.00 11	6460.00 27
1949	150.00 11	152.00 11	156.00 9	162.00 9	173.00 8	210.00 8	282.00 9	310.00 9	461.00 9	2380.00 10
1950	80.00 5	80.00 4	83.70 4	90.50 4	108.00 3	134.00 3	172.00 4	215.00 4	306.00 5	1850.00 5
1951	120.00 8	120.00 8	120.00 8	126.00 7	155.00 7	174.00 5	197.00 6	270.00 8	468.00 10	2620.00 12
1952	660.00 31	920.00 31	977.00 31	1090.00 31	1480.00 31	1730.00 31	2020.00 31	2420.00 31	3550.00 31	9390.00 31
1953	187.00 12	215.00 13	261.00 16	320.00 18	366.00 15	378.00 13	395.00 11	392.00 11	685.00 13	4050.00 20
1954	110.00 7	110.00 7	110.00 6	113.00 6	132.00 6	175.00 6	239.00 8	246.00 7	318.00 6	2530.00 11
1955	500.00 29	500.00 29	506.00 27	519.00 27	582.00 27	894.00 27	1190.00 26	1620.00 26	2540.00 28	4570.00 23
1956	72.00 3	77.30 3	80.00 3	82.70 2	87.80 2	95.40 1	101.00 1	108.00 1	127.00 1	1290.00 2
1957	55.00 1	55.70 1	60.40 1	64.10 1	85.20 1	125.00 2	140.00 2	143.00 2	170.00 2	375.00 1
1958	210.00 15	217.00 14	239.00 13	288.00 14	354.00 14	436.00 14	451.00 13	535.00 14	672.00 12	1470.00 3
1959	108.00 6	109.00 6	110.00 7	110.00 5	115.00 4	138.00 4	164.00 3	215.00 5	455.00 8	2250.00 7
1960	276.00 19	287.00 19	333.00 20	373.00 20	556.00 26	562.00 20	647.00 19	700.00 15	896.00 15	2650.00 13
1961	245.00 17	245.00 16	249.00 14	260.00 13	305.00 13	317.00 11	431.00 12	526.00 12	754.00 14	4910.00 24
1962	580.00 30	707.00 30	898.00 30	977.00 30	1240.00 30	1470.00 30	1870.00 29	2130.00 30	2310.00 27	4110.00 21
1963	300.00 20	300.00 20	304.00 19	316.00 16	371.00 17	459.00 15	563.00 15	814.00 19	1670.00 24	5870.00 25
1964	190.00 13	190.00 12	190.00 12	194.00 12	221.00 11	269.00 10	310.00 10	356.00 10	439.00 7	2320.00 9
1965	320.00 21	320.00 21	340.00 21	459.00 23	555.00 25	639.00 22	683.00 21	865.00 21	1600.00 23	3150.00 15
1966	452.00 27	456.00 26	466.00 26	483.00 26	541.00 23	959.00 28	1890.00 30	2060.00 29	3470.00 30	6610.00 30
1967	140.00 9	145.00 9	160.00 11	168.00 11	184.00 9	214.00 9	221.00 7	245.00 6	259.00 3	2030.00 6
1968	69.00 2	70.00 2	73.90 2	83.40 3	115.00 5	176.00 7	192.00 5	210.00 3	269.00 4	2300.00 8
1969	243.00 16	252.00 17	279.00 17	320.00 17	519.00 21	746.00 25	1040.00 25	1450.00 25	1280.00 19	2990.00 14
1970	413.00 25	421.00 25	444.00 25	481.00 25	523.00 22	576.00 21	641.00 18	818.00 20	1040.00 17	6430.00 26
1971	344.00 22	346.00 22	366.00 22	376.00 21	444.00 18	534.00 19	656.00 20	809.00 18	955.00 16	3570.00 16



## STATION NUMBER 05485500

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

DPS MOINES RIVER BELOW RACCOON RIVER AT DES MOINES, IOWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1941	13000.0 28	12300.0 28	11600.0 27	9390.0 27	7530.0 26	4800.0 27	4510.0 27	4450.0 26	3650.0 26	2440.0 23
1942	16400.0 25	14800.0 25	12100.0 26	9790.0 26	8130.0 25	7590.0 21	7220.0 18	7010.0 15	6370.0 13	5460.0 8
1943	14900.0 27	14300.0 26	12400.0 25	9860.0 25	8880.0 24	8180.0 18	7530.0 16	7060.0 14	6290.0 14	4190.0 11
1944	51500.0 6	49400.0 5	46000.0 5	33200.0 5	28300.0 4	21200.0 3	16600.0 4	13800.0 6	10300.0 7	5940.0 7
1945	28400.0 16	27900.0 14	25900.0 12	24800.0 10	21500.0 7	17400.0 7	15900.0 6	15000.0 4	11600.0 3	6410.0 5
1946	22600.0 22	21200.0 23	17500.0 22	13400.0 19	11600.0 17	8450.0 15	7890.0 13	8060.0 13	6650.0 11	4080.0 12
1947	74000.0 1	61100.0 3	47900.0 3	38800.0 2	32400.0 1	22400.0 2	19300.0 2	15500.0 3	11300.0 4	6420.0 4
1948	42200.0 8	36000.0 10	27500.0 11	18100.0 14	12000.0 16	8420.0 16	6930.0 20	5520.0 23	4090.0 23	2270.0 25
1949	27000.0 18	26200.0 17	23000.0 15	14900.0 16	13200.0 14	10300.0 14	7870.0 14	6410.0 18	4620.0 19	2550.0 21
1950	23900.0 21	22100.0 22	19800.0 19	14200.0 17	9300.0 21	7600.0 20	6110.0 23	5740.0 20	4620.0 20	2500.0 22
1951	52400.0 5	49200.0 6	40500.0 7	37400.0 3	29000.0 3	23800.0 1	20900.0 1	19400.0 1	15300.0 1	8170.0 1
1952	28500.0 14	28000.0 13	25200.0 13	19800.0 12	16500.0 11	12700.0 10	10300.0 9	10100.0 9	8570.0 8	5400.0 9
1953	30400.0 13	24000.0 18	17700.0 21	12300.0 22	10000.0 19	7710.0 19	6990.0 19	6640.0 17	5380.0 16	2970.0 18
1954	65800.0 2	62000.0 2	48400.0 2	29300.0 7	19200.0 10	11700.0 11	9940.0 10	8460.0 11	6420.0 12	3420.0 16
1955	11600.0 29	10800.0 29	9850.0 29	7510.0 29	6240.0 29	4600.0 28	4150.0 28	3810.0 28	3150.0 28	2560.0 20
1956	2840.0 31	2480.0 31	1420.0 31	1070.0 31	827.0 31	679.0 31	683.0 31	584.0 31	577.0 31	355.0 31
1957	24500.0 20	22800.0 20	15900.0 23	9910.0 24	6370.0 28	4400.0 29	3300.0 29	2710.0 29	1980.0 29	1090.0 29
1958	36500.0 12	29800.0 12	20100.0 18	12800.0 21	10100.0 18	7020.0 23	5120.0 26	4230.0 27	3390.0 27	2130.0 28
1959	27700.0 17	26700.0 15	24300.0 14	18300.0 13	12200.0 15	8410.0 17	7420.0 17	6670.0 16	4800.0 18	2570.0 19
1960	65600.0 3	60400.0 4	46700.0 4	30700.0 6	20000.0 8	15200.0 8	12900.0 8	10700.0 8	7490.0 9	4280.0 10
1961	37000.0 11	35000.0 11	29300.0 10	21100.0 11	15500.0 13	11400.0 12	8970.0 12	8100.0 12	6150.0 15	3490.0 15
1962	48600.0 7	47400.0 7	43100.0 6	35500.0 4	27200.0 6	17800.0 6	15000.0 7	13200.0 7	11100.0 5	6870.0 3
1963	16000.0 26	15800.0 24	12900.0 24	10400.0 23	9010.0 22	6970.0 24	6140.0 22	5560.0 22	4940.0 17	3070.0 17
1964	17400.0 24	13700.0 27	9880.0 28	8780.0 28	7470.0 27	6150.0 26	5320.0 25	4540.0 25	3980.0 24	2210.0 27
1965	65000.0 4	64300.0 1	59600.0 1	45600.0 1	31300.0 2	20500.0 4	17200.0 3	14500.0 5	10300.0 6	6080.0 6
1966	28400.0 15	26700.0 16	20600.0 17	13600.0 18	9640.0 20	7230.0 22	6300.0 21	5740.0 21	4380.0 22	3530.0 14
1967	38100.0 10	36800.0 9	33000.0 9	28100.0 8	19700.0 9	11200.0 13	7780.0 15	6190.0 19	4430.0 21	2360.0 24
1968	7850.0 30	7640.0 30	6740.0 30	4720.0 30	3310.0 30	2290.0 30	1850.0 30	1620.0 30	1280.0 30	776.0 30
1969	40800.0 9	39600.0 8	35200.0 8	27800.0 9	27300.0 5	20300.0 5	16000.0 5	16800.0 2	13500.0 2	8090.0 2
1970	22500.0 23	22300.0 21	19600.0 20	13300.0 20	8890.0 23	6620.0 25	5640.0 24	5130.0 24	3710.0 25	2250.0 26
1971	26900.0 19	23700.0 19	21500.0 16	17500.0 15	15700.0 12	13000.0 9	9920.0 11	8970.0 10	6930.0 10	3930.0 13



STATION NUMBER 05485500

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

DES MOINES RIVER BELOW RACCOON RIVER AT DES MOINES, IOWA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	CFS_DAYS	
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS		
1941									3	11	18	21	16	8	9	22	48	23	31	24	25	39	28	20	8	3	5	3								888876.0	
1942																1	2	5	12	31	31	28	76	63	35	48	29	3	1							1992226.0	
1943											7	9	27	20	4	14	16	17	22	36	23	49	38	22	34	23	4										1528751.0
1944											1	17	21	18	29	17	28	43	12	9	26	38	15	23	6	15	15	10	3	6	5	2	7			2137924.0	
1945											1	21	29	13	34	29	17	10	11	6	8	16	20	18	18	19	22	17	18	17	18	3				2338296.0	
1946									8	17	4	7	41	22	12	27	18	11	16	29	22	23	25	19	22	16	12	8	5	1						1490472.0	
1947									9	8	14	13	16	26	28	14	24	27	33	11	12	18	34	10	16	11	8	4	13	7	3	3	2	1			2344033.0
1948					7	13	19	24	29	18	17	40	26	25	21	17	12	18	12	14	18	8	3	11	4	3	1	1	2	1	2					832064.0	
1949					7	22	19	22	29	29	30	21	13	16	24	6	15	23	17	5	10	12	14	8	4	9	3	2	5							932355.0	
1950		5	7	11	27	11	31	41	18	3	17	5	6	4	17	14	15	16	17	19	29	19	10	4	4	5	5	3	2							912512.0	
1951					10	7	36	20	14	2	14	15	6	6	8	15	10		1	1	8	19	17	19	16	28	23	12	18	15	12	10	3			2981982.0	
1952									7	6	3	19	14	12	31	37	39	33	40	29	16	19	22	14	12	8	3	2								1978799.0	
1953					1	2	7	66	54	14	6	9	6	7	13	10	19	13	18	39	34	19	14	7	4	1		1	1							1085552.0	
1954					18	6	10	33	45	14	16	9	10	6	15	23	22	28	17	17	5	10	10	15	7	4	8	3	3	5	1		1	4		1246491.0	
1955					12	14	11	6	10	2	7	17	15	9	15	18	29	27	33	39	21	33	19	12	7	9										934907.0	
1956			15	33	80	41	17	14	23	24	39	20	17	11	13	10	3	3	1	2																129382.0	
1957		8	9	19	35	31	13	14	9	33	34	33	19	14	9	8	13	13	16	11	12	2	2	2	1		2		1	2					397630.0		
1958					5	10	13	12	29	34	47	25	52	34	29	10	11	7	10	10	11	5	3	3			3		1	1						775992.0	
1959					33	18	14	19	29	23	18	18	15	14	10	14	15	12	12	13	15	15	9	11	14	11	4	2	2	5					938603.0		
1960									13	4	38	52	48	39	21	13	12	10	9	16	18	24	11	11	7	1	6	6	2	1	1	3				1565038.0	
1961								3	22	33	11	1	4	46	28	20	22	18	14	15	36	11	15	20	15	17	5	2	1	3	2	1				1274023.0	
1962									2				1	27	25	34	25	44	39	28	17	21	23	22	20	7	9	10	4	3	4					2506490.0	
1963									4	14	14	28	26	12	10	12	36	30	29	23	31	22	26	20	9	9	7	3								1121369.0	
1964									10	19	17	25	36	33	34	17	14	9	8	21	19	16	13	16	20	25	8	2	2	2						808093.0	
1965										9	11	28	37	30	22	21	12	14	18	17	17	17	9	13	21	8	18	19	6	5	3	1	4	5		2217410.0	
1966						1	2		13	4	7	6	14	24	12	19	13	24	38	41	39	46	16	17	11	5	2	3	3	4	1					1305914.0	
1967						4	30	48	44	33	14	19	14	25	14	32	21	17	5	5	5	5	2	2	1	3	5	4	1	2	7	3				861955.0	
1968																																				283900.0	
1969			8	5	8	15	21	17	54	46	17	38	30	22	14	20	16	14	6	4	3	2	2	2	2											2952849.0	
1970														10	33	43	18	18	15	24	18	26	15	21	17	22	14	12	20	21	15	3				820359.0	
1971																																				1435121.0	



STATION NUMBER 05485500

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

DES MOINES RIVER BELOW RACCOON RIVER AT DES MOINES, IOWA

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	11322	100.0	9	310.00	485	9914	87.6	18	2100.0	553	4956	43.8	27	15000	148	546	4.8
1	55.00	8	11322	100.0	10	380.00	469	9429	83.3	19	2600.0	601	4403	38.9	28	18000	123	398	3.5
2	68.00	38	11314	99.9	11	470.00	543	8960	79.1	20	3300.0	582	3872	33.6	29	22000	140	275	2.4
3	85.00	64	11276	99.6	12	580.00	580	8417	74.3	21	4000.0	715	3220	28.4	30	28000	67	135	1.1
4	100.00	207	11212	99.0	13	720.00	567	7837	69.2	22	5000.0	540	2595	22.1	31	35000	30	68	.6
5	130.00	178	11005	97.2	14	900.00	547	7270	64.2	23	6200.0	474	1965	17.4	32	43000	23	38	.3
6	160.00	211	10827	95.6	15	1100.00	676	6723	59.4	24	7700.0	378	1491	13.2	33	53000	14	15	.1
7	200.00	283	10616	93.8	16	1400.00	526	6047	53.4	25	9500.0	338	1113	9.8	34	66000	1	1	
8	250.00	419	10333	91.3	17	1700.00	565	5521	48.8	26	12000.0	229	775	6.8					



## STATION NUMBER 05486000

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## NORTH RIVER NEAR NORWALK, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1942	0.20 11	0.20 8	0.27 10	0.54 11	1.45 13	12.00 18	36.80 24	72.80 28	92.00 26	234.00 22
1943	17.00 30	17.30 30	17.70 30	17.90 29	24.40 30	40.50 29	57.60 28	59.40 27	92.00 27	244.00 24
1944	2.00 17	2.00 17	2.14 16	2.93 17	3.83 14	7.72 15	13.20 16	13.40 13	25.50 12	142.00 14
1945	9.30 27	9.70 27	10.30 26	12.90 27	19.90 27	27.10 26	29.50 22	30.80 22	49.80 20	331.00 29
1946	1.00 14	1.00 14	1.00 14	1.14 14	4.01 15	11.40 17	11.20 13	13.00 12	26.10 13	239.00 23
1947	9.80 29	9.93 29	11.00 28	13.80 28	20.50 28	44.60 30	90.90 29	99.20 29	205.00 30	230.00 21
1948	2.00 18	2.00 18	2.14 17	2.57 15	4.23 17	12.20 19	16.50 17	24.40 18	26.80 14	484.00 30
1949	0.50 13	0.57 13	0.81 13	0.91 13	1.10 11	2.05 10	5.92 11	18.00 16	30.60 15	110.00 12
1950	0.10 7	0.10 6	0.10 6	0.10 5	0.21 6	0.56 6	1.00 7	1.22 7	5.34 9	72.00 10
1951	0.20 8	0.27 11	0.33 11	0.36 10	0.66 10	1.26 8	1.45 8	1.44 8	2.33 5	71.60 9
1952	9.60 28	9.87 28	12.70 29	20.20 30	24.40 29	32.30 27	40.30 25	41.30 23	55.20 22	266.00 26
1953	2.00 19	2.20 19	2.46 19	2.89 16	4.17 16	7.37 14	17.90 18	20.20 17	47.30 19	181.00 18
1954	0.20 9	0.20 9	0.20 8	0.20 8	0.23 7	0.29 4	0.52 4	0.54 3	0.71 1	62.50 8
1955	0.00 1	0.00 1	0.00 1	0.00 1	0.12 3	6.07 12	11.80 14	17.20 15	44.30 18	84.40 11
1956	0.00 2	0.00 2	0.00 2	0.02 4	0.10 2	0.28 3	0.30 1	0.35 1	2.73 6	24.60 2
1957	0.00 3	0.00 3	0.00 3	0.00 2	0.19 5	2.70 11	3.77 10	5.21 10	8.12 10	14.20 1
1958	0.00 4	0.00 4	0.00 4	0.00 3	0.00 1	0.26 1	0.30 2	0.77 4	3.58 7	43.50 5
1959	1.20 15	1.50 15	2.30 18	3.34 19	6.93 19	8.09 16	12.20 15	14.90 14	43.70 17	122.00 13
1960	3.40 22	3.63 22	4.33 22	7.16 23	19.10 26	21.80 24	29.90 23	45.80 24	62.80 25	272.00 27
1961	4.80 24	4.83 24	5.14 24	8.51 25	13.40 24	14.90 20	20.40 20	29.70 21	53.90 21	246.00 25
1962	2.90 20	3.17 20	4.11 20	4.77 20	9.61 22	38.50 28	94.20 30	137.00 30	187.00 29	315.00 28
1963	1.70 16	1.80 16	2.00 15	3.12 18	6.62 18	7.11 13	10.60 12	12.60 11	11.50 11	152.00 15
1964	0.40 12	0.47 12	0.67 12	0.77 12	1.15 12	1.39 9	2.69 9	2.97 9	5.05 8	41.90 3
1965	9.00 26	9.33 26	10.60 27	12.70 26	16.10 25	17.30 22	19.80 19	25.50 19	55.30 23	201.00 20
1966	4.30 23	4.50 23	4.60 23	5.33 21	9.01 21	19.30 23	45.90 26	46.20 25	58.70 24	166.00 17
1967	0.20 10	0.20 10	0.21 9	0.23 9	0.38 9	0.61 7	0.93 6	1.08 6	1.89 4	58.40 7
1968	0.06 6	0.10 7	0.10 7	0.14 7	0.31 8	0.46 5	0.85 5	1.02 5	1.59 2	45.30 4
1969	0.04 5	0.04 5	0.06 5	0.13 6	0.18 4	0.28 2	0.37 3	0.37 2	1.64 3	50.20 6
1970	7.20 25	7.27 25	7.54 25	8.09 24	10.50 23	16.90 21	28.30 21	27.90 20	34.40 16	156.00 16
1971	3.20 21	3.47 21	4.17 21	5.51 22	7.43 20	22.00 25	51.90 27	52.60 26	102.00 28	189.00 19



STATION NUMBER 05486000

HIGHEST MEAN DISCHARGE, IN CFS, AND BANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

NORTH RIVER NEAR NORWALK, IOWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1941	1460.0 25	1080.0 26	604.0 28	366.0 29	228.0 29	149.0 29	115.0 29	136.0 26	105.0 25	71.7 25
1942	4100.0 10	3030.0 9	1740.0 11	1250.0 8	771.0 11	582.0 10	592.0 8	484.0 11	423.0 7	380.0 2
1943	3340.0 14	2380.0 14	1420.0 15	1050.0 13	613.0 17	429.0 14	360.0 13	315.0 13	254.0 15	166.0 14
1944	3480.0 13	3020.0 10	2300.0 8	1720.0 4	1430.0 3	1110.0 2	835.0 2	679.0 2	485.0 3	256.0 6
1945	2430.0 17	2020.0 16	1370.0 17	1160.0 10	833.0 9	766.0 5	713.0 3	675.0 3	502.0 2	265.0 4
1946	7990.0 2	4860.0 3	2610.0 5	1330.0 6	850.0 8	477.0 13	352.0 14	298.0 14	266.0 13	191.0 12
1947	21600.0 1	10700.0 1	5410.0 1	4850.0 1	3490.0 1	1950.0 1	1580.0 1	1300.0 1	898.0 1	528.0 1
1948	5520.0 6	3570.0 7	2310.0 7	1200.0 9	674.0 14	384.0 17	286.0 21	219.0 23	182.0 19	103.0 19
1949	1740.0 24	1590.0 22	1070.0 23	938.0 15	594.0 18	427.0 15	311.0 17	253.0 17	199.0 16	109.0 17
1950	2680.0 16	1970.0 17	1510.0 13	762.0 22	419.0 24	256.0 24	194.0 24	240.0 19	168.0 22	86.8 24
1951	3560.0 11	2600.0 13	1440.0 14	1070.0 12	875.0 6	743.0 6	647.0 7	556.0 6	392.0 8	203.0 10
1952	4930.0 7	2880.0 11	1770.0 9	1150.0 11	763.0 12	535.0 11	465.0 11	496.0 10	385.0 9	222.0 8
1953	1870.0 21	1500.0 23	769.0 25	419.0 28	320.0 25	262.0 23	240.0 22	227.0 22	197.0 17	107.0 18
1954	1290.0 29	973.0 27	860.0 24	437.0 25	262.0 27	185.0 27	156.0 26	137.0 25	101.0 26	51.3 27
1955	1300.0 27	887.0 28	507.0 29	423.0 26	270.0 26	167.0 28	130.0 28	104.0 29	90.7 27	57.1 26
1956	886.0 30	398.0 30	200.0 30	119.0 30	69.5 30	48.6 30	34.3 30	27.6 30	19.1 30	10.7 30
1957	1290.0 28	747.0 29	609.0 27	421.0 27	260.0 28	187.0 26	145.0 27	112.0 28	75.9 29	41.1 29
1958	3070.0 15	2800.0 12	1740.0 10	858.0 19	663.0 15	361.0 20	299.0 20	229.0 21	156.0 24	90.3 22
1959	7520.0 3	4710.0 5	2480.0 6	1250.0 7	751.0 13	697.0 9	555.0 10	505.0 9	375.0 11	198.0 11
1960	5750.0 5	4840.0 4	3530.0 2	1940.0 2	1140.0 4	896.0 3	660.0 4	549.0 7	454.0 4	262.0 5
1961	2180.0 18	1940.0 18	1320.0 18	922.0 17	794.0 10	735.0 7	578.0 9	529.0 8	380.0 10	221.0 9
1962	4500.0 9	4180.0 6	3020.0 4	1820.0 3	1090.0 5	734.0 8	649.0 6	568.0 5	442.0 6	296.0 3
1963	1840.0 22	1470.0 24	1090.0 22	925.0 16	540.0 20	362.0 19	306.0 18	244.0 18	172.0 20	91.8 21
1964	1910.0 20	1740.0 20	1180.0 20	830.0 20	656.0 16	375.0 18	300.0 19	239.0 20	172.0 21	89.6 23
1965	6600.0 4	5330.0 2	3110.0 3	1680.0 5	1470.0 2	880.0 4	653.0 5	579.0 4	450.0 5	241.0 7
1966	1430.0 26	1150.0 25	747.0 26	530.0 24	430.0 23	292.0 21	222.0 23	186.0 24	157.0 23	94.7 20
1967	1800.0 23	1660.0 21	1380.0 16	889.0 18	491.0 21	254.0 25	172.0 25	133.0 27	89.6 28	45.6 28
1968	441.0 31	295.0 31	165.0 31	88.6 31	48.3 31	28.9 31	24.5 31	20.9 31	15.2 31	8.1 31
1969	3520.0 12	2210.0 15	1140.0 21	727.0 23	576.0 19	393.0 16	335.0 15	296.0 15	280.0 12	149.0 15
1970	4750.0 8	3140.0 8	1540.0 12	765.0 21	430.0 22	277.0 22	322.0 16	259.0 16	190.0 18	114.0 16
1971	2100.0 19	1770.0 19	1270.0 19	1010.0 14	853.0 7	495.0 12	391.0 12	367.0 12	259.0 14	175.0 13







STATION NUMBER 05486000

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

NORTH RIVER NEAR NORWALK, IOWA

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	101	11322	100.0	9	0.90	343	10413	92.0	18	32.0	928	5763	50.9	27	1100	190	345	3.0
1	0.04	6	11221	99.1	10	1.40	288	10070	88.9	19	47.0	851	4835	42.7	28	1700	88	155	1.3
2	0.05	4	11215	99.1	11	2.00	333	9782	86.4	20	70.0	728	3984	35.2	29	2500	42	67	.5
3	0.08	3	11211	99.0	12	3.00	390	9449	83.5	21	100.0	928	3256	28.8	30	3600	15	25	.2
4	0.10	132	11211	99.0	13	4.40	440	9059	80.0	22	160.0	596	2328	20.6	31	5400	7	10	.0
5	0.20	127	11079	97.9	14	6.60	602	8619	76.1	23	230.0	527	1732	15.3	32	8000	1	3	.0
6	0.30	139	10952	96.7	15	9.80	640	8017	70.8	24	340.0	422	1205	10.6	33	12000	1	2	.0
7	0.40	196	10813	95.5	16	15.00	760	7377	65.2	25	510.0	236	783	6.9	34	18000	1	1	
8	0.60	204	10617	93.8	17	22.00	854	6617	58.4	26	750.0	202	547	4.8					



## STATION NUMBER 05486490

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## MIDDLE RIVER NEAR INDIANOLA, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1942	11.00 29	11.00 17	11.90 18	13.20 19	17.10 19	31.90 20	94.20 27	178.00 30	222.00 28	389.00 25
1943	26.00 29	27.30 29	32.30 30	39.00 30	43.60 30	58.40 28	73.90 25	74.20 25	110.00 23	284.00 19
1944	3.00 10	3.67 12	6.29 14	8.86 15	14.00 17	17.70 18	25.70 16	27.20 14	38.70 13	175.00 13
1945	11.00 21	12.70 21	16.70 23	24.20 25	35.10 27	44.90 23	51.30 21	55.00 20	117.00 24	482.00 29
1946	2.00 9	2.00 8	2.11 8	2.46 8	6.32 10	16.30 15	14.40 12	19.80 12	46.60 15	344.00 24
1947	29.00 30	29.70 30	31.30 29	33.60 29	37.90 28	70.70 30	111.00 29	137.00 27	224.00 29	290.00 20
1948	4.40 13	4.70 14	5.00 13	5.50 13	6.87 12	16.60 16	26.80 18	32.80 17	38.00 12	659.00 30
1949	1.60 6	2.97 9	3.04 9	4.25 11	7.26 13	15.30 14	20.10 14	32.50 16	43.10 14	158.00 12
1950	4.60 14	4.60 13	4.73 12	5.12 12	6.49 11	8.42 10	8.81 10	9.77 10	18.90 10	115.00 9
1951	3.40 12	3.40 11	3.40 10	3.43 9	3.70 6	3.82 4	4.81 4	5.44 4	9.16 7	130.00 10
1952	13.00 23	15.30 23	19.40 26	28.60 26	41.60 29	52.00 27	60.00 23	60.60 22	73.50 18	395.00 27
1953	15.00 24	15.70 24	16.30 22	16.90 22	18.50 21	20.10 19	40.00 19	41.50 19	82.50 20	293.00 21
1954	1.50 7	1.67 6	1.73 6	1.84 5	2.14 3	3.01 3	4.24 3	4.45 2	5.42 1	113.00 7
1955	7.70 15	8.00 15	9.00 16	9.21 16	9.97 15	13.70 12	17.20 13	26.80 13	50.50 16	139.00 11
1956	1.00 3	1.17 4	1.29 4	1.37 3	1.52 1	1.78 1	1.89 1	2.20 1	6.82 3	35.80 1
1957	1.00 4	1.00 3	1.06 3	1.12 2	2.30 4	5.81 8	6.89 8	7.86 8	9.01 6	36.00 2
1958	1.30 5	1.53 5	1.73 5	2.21 7	4.37 8	7.56 9	8.14 9	9.27 9	13.90 9	92.80 6
1959	9.80 17	11.30 19	12.00 19	12.50 17	13.50 16	14.80 13	24.10 15	28.90 15	101.00 22	218.00 15
1960	16.00 25	16.70 25	18.40 24	20.40 24	33.80 25	48.00 24	56.00 22	56.40 21	83.30 21	394.00 26
1961	11.00 18	11.00 18	11.30 17	12.60 18	16.30 18	17.40 17	26.20 17	35.90 18	71.70 17	296.00 22
1962	23.00 27	23.00 27	24.60 27	29.10 27	32.90 24	51.60 26	124.00 30	148.00 29	225.00 30	418.00 28
1963	8.00 16	8.00 16	8.03 15	8.28 14	9.27 14	10.20 11	13.90 11	17.40 11	20.20 11	193.00 14
1964	1.80 8	1.90 7	1.84 7	2.06 6	2.68 5	3.90 5	5.88 6	6.12 6	9.25 8	62.90 3
1965	23.00 28	26.30 28	28.30 28	30.70 28	33.90 26	37.00 21	43.60 20	61.60 23	155.00 27	320.00 23
1966	16.00 26	17.00 26	18.40 25	20.10 23	27.10 23	50.70 25	100.00 28	121.00 26	135.00 26	269.00 18
1967	3.30 11	3.37 10	3.54 11	3.75 10	3.80 7	5.11 7	6.02 7	6.13 7	7.50 4	114.00 8
1968	0.80 2	0.80 2	0.88 2	1.70 4	4.46 9	5.08 6	5.84 5	5.90 5	8.62 5	75.50 4
1969	0.66 1	0.74 1	0.85 1	1.08 1	1.64 2	2.99 2	3.73 2	4.63 3	6.65 2	87.60 5
1970	12.00 22	12.70 22	13.40 21	13.60 20	20.30 22	39.40 22	67.40 24	69.00 24	80.10 19	241.00 16
1971	11.00 19	11.70 20	13.10 20	14.60 21	18.20 20	60.00 29	93.40 26	142.00 28	134.00 25	257.00 17



## STATION NUMBER 05486490

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## MIDDLE RIVER NEAR INDIANOLA, IOWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1941	6720.0 8	3700.0 16	1790.0 19	1020.0 23	570.0 24	362.0 26	272.0 26	279.0 25	222.0 25	145.0 23
1942	5780.0 12	4040.0 10	2130.0 13	1600.0 11	1140.0 11	721.0 11	712.0 9	644.0 10	557.0 10	499.0 2
1943	3340.0 26	2180.0 26	1390.0 27	1180.0 19	701.0 23	555.0 18	431.0 19	389.0 18	311.0 17	205.0 15
1944	7970.0 5	5560.0 5	3570.0 5	2310.0 4	1780.0 3	1490.0 2	1120.0 2	898.0 3	691.0 3	367.0 5
1945	5190.0 15	3910.0 12	2370.0 10	1640.0 10	1270.0 7	1110.0 5	1080.0 3	986.0 2	734.0 2	394.0 4
1946	4710.0 19	3730.0 14	2160.0 11	1180.0 20	774.0 19	464.0 21	449.0 16	392.0 17	370.0 13	264.0 11
1947	21400.0 1	12400.0 1	6470.0 1	5940.0 1	4450.0 1	2480.0 1	2130.0 1	1740.0 1	1200.0 1	682.0 1
1948	5240.0 14	4740.0 8	3290.0 6	1770.0 8	989.0 13	572.0 15	434.0 18	334.0 22	269.0 21	153.0 22
1949	4200.0 24	2760.0 21	1630.0 22	1360.0 14	847.0 18	600.0 14	439.0 17	361.0 19	300.0 18	170.0 19
1950	4230.0 22	2740.0 22	1510.0 23	853.0 25	500.0 26	383.0 24	276.0 25	323.0 23	238.0 23	129.0 25
1951	6440.0 9	5060.0 7	2840.0 8	1850.0 7	1350.0 6	1190.0 3	1060.0 4	873.0 4	610.0 4	320.0 9
1952	11000.0 2	7900.0 2	4040.0 3	2220.0 5	1260.0 8	844.0 10	679.0 10	742.0 7	578.0 8	340.0 8
1953	5180.0 16	2610.0 24	1400.0 25	799.0 26	536.0 25	461.0 22	415.0 22	406.0 15	347.0 16	191.0 16
1954	4240.0 21	2380.0 25	1780.0 20	967.0 24	759.0 20	459.0 23	331.0 23	280.0 24	202.0 26	104.0 26
1955	1420.0 29	864.0 30	589.0 29	373.0 29	267.0 29	170.0 29	137.0 29	120.0 29	109.0 29	70.4 29
1956	1360.0 30	867.0 29	506.0 30	366.0 30	249.0 30	169.0 30	115.0 30	91.2 30	61.7 30	34.0 30
1957	2040.0 28	1140.0 28	889.0 28	605.0 28	413.0 27	311.0 27	256.0 28	200.0 28	136.0 28	72.3 28
1958	6960.0 7	3710.0 15	2130.0 12	1060.0 22	858.0 17	517.0 19	520.0 15	397.0 16	276.0 20	164.0 20
1959	7540.0 6	5240.0 6	2530.0 9	1700.0 9	1260.0 9	992.0 8	786.0 8	743.0 6	570.0 9	306.0 10
1960	9300.0 3	7820.0 3	5220.0 2	2800.0 2	1610.0 4	1190.0 4	881.0 5	716.0 9	590.0 7	342.0 7
1961	4890.0 18	2720.0 23	1750.0 21	1190.0 17	963.0 14	862.0 9	674.0 11	587.0 11	424.0 12	259.0 12
1962	6220.0 10	4540.0 9	3650.0 4	2440.0 3	1530.0 5	1060.0 7	826.0 7	745.0 5	592.0 6	402.0 3
1963	2560.0 27	1940.0 27	1460.0 24	1240.0 15	733.0 21	492.0 20	421.0 20	337.0 21	240.0 22	130.0 24
1964	4910.0 17	3050.0 18	1930.0 16	1150.0 21	957.0 15	563.0 16	526.0 14	450.0 14	351.0 15	181.0 17
1965	8500.0 4	6160.0 4	3260.0 7	2010.0 6	1830.0 2	1100.0 6	867.0 6	741.0 8	593.0 5	346.0 6
1966	3530.0 25	2910.0 19	1800.0 18	1180.0 18	873.0 16	557.0 17	417.0 21	346.0 20	287.0 19	174.0 18
1967	4210.0 23	2780.0 20	1880.0 17	1210.0 16	706.0 22	380.0 25	264.0 27	211.0 27	146.0 27	76.8 27
1968	793.0 31	515.0 31	274.0 31	151.0 31	86.0 31	58.7 31	43.7 31	37.9 31	29.5 31	17.8 31
1969	5480.0 13	3810.0 13	2090.0 14	1440.0 13	1020.0 12	669.0 13	559.0 12	487.0 13	453.0 11	252.0 13
1970	6100.0 11	3060.0 17	1390.0 26	692.0 27	360.0 28	306.0 28	285.0 24	250.0 26	223.0 24	154.0 21
1971	4500.0 20	4000.0 11	2070.0 15	1490.0 12	1220.0 10	701.0 12	542.0 13	516.0 12	362.0 14	238.0 14



STATION NUMBER 05486490

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

MIDDLE RIVER NEAR INDIANOLA, IOWA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	CFS_DAYS				
YEAR	NUMBER OF DAYS IN CLASS																																			CFS_DAYS				
1941				3	3	8	9	8	17	24	28	33	39	36	43	26	17	22	14	10	7	5	1	2	2	3	2	1	1	1								52895.0		
1942														1	8	11	35	59	60	50	33	29	24	17	10	11	7	5	3	2								182241.0		
1943											1	9	42	89	69	37	29	25	13	10	13	6	7	8	4	1	2										74876.0			
1944					1	2		6	11	15	19	41	17	28	22	35	25	24	15	18	10	13	17	12	13	5	9	3	4			1					134478.0			
1945							3	6	10	18	10	15	44	44	31	20	14	10	19	19	25	24	20	15	9		3	4	2									143669.0		
1946				7	5	6		15	15	1	29	5	17	27	20	24	37	37	35	21	13	13	15	7	4	2	3	4	3									96346.5		
1947								6	2	7	10	17	15	20	36	18	48	33	37	29	17	13	13	12	6	6	5	5	3	3	2							249082.5		
1948			1			1	12	25	29	16	31	31	26	46	28	26	23	21	14	8	5	8	4	1	2	1	3	1	2	1								56047.9		
1949					2	8	3	9	13	19	25	45	34	22	31	35	20	23	16	12	14	11	7	4	5	2	3											62102.6		
1950							11	26	75	28	25	22	19	31	20	18	18	19	13	11	5	9	3	2	4	1	2	2	1										47180.4	
1951						47	22	32	24	7	3	2	12	23	24	14	10	18	15	19	16	30	13	13	3	6	5	1	3	3									116876.1	
1952									1	4	13	21	31	44	37	19	37	44	35	25	20	7	8	6	3	3	4	2			1	1							124292.0	
1953							2	18	14	7	28	46	30	25	17	12	20	27	29	41	18	8	8	5	4	2	2	1											69650.7	
1954				1	20	12	19	53	47	27	45	32	25	12	8	12	6	6	6	6	5	4	3	3	2	6	2			1	2								37943.8	
1955							18	6		10	6	35	19	21	59	21	35	37	37	15	15	12	7	5		2	3	2												25697.4
1956				2	29	66	52	53	37	15	23	11	13	14	9	9	8	3	6	3	1	3		3	2	1	3												12449.4	
1957				6	7	2	6	20	43	32	45	33	26	32	11	7	8	20	13	15	11	9	5	2	7	2	2												26393.6	
1958					3	6	1		5	13	23	9	32	69	30	29	25	24	17	24	15	11	6	8	4	1	1	1	3	3	1								59922.2	
1959												21	41	28	20	30	22	29	20	31	26	20	18	16	11	10	9	2	5	1	2	2	1							111713.0
1960													13	35	28	39	33	42	44	29	32	23	13	11	5	5	3	1	4	2	1	2	1							125339.0
1961												9	22	46	29	36	34	16	27	31	22	20	17	22	9	7	7	3	4	1	3									94438.0
1962												4	11	16	16	9	12	18	29	40	58	57	21	20	11	14	9	3	7	5	4	1								146800.0
1963											40	33	38	67	35	20	26	27	15	14	15	5	5	4	5	5	4	3	4											47523.6
1964					10	11	19	21	44	20	17	13	13	15	11	27	16	23	22	19	21	13	9	5	4	4	3	3	1	2										66066.3
1965												3	16	33	45	45	23	23	36	40	22	17	15	12	10	9	5	2	4	2	1	2								126346.0
1966								8	8	14	13	15	10	23	40	61	57	39	23	16	10	7	10	1	3	3	2	2												63507.9
1967									31	38	67	44	20	19	27	38	21	10	14	5	6	4	6	1	3	2	3	3	1	1										28041.9
1968				6	4	6	15	21	35	54	55	34	39	35	23	10	13	5	4	1	2		1		2		1													6525.8
1969				4	1	8	11	13	11	10	23	13	4	3	6	11	14	27	26	23	45	25	23	17	11	9	9	5	4	5	3								91925.0	
1970												14	31	30	24	31	72	42	30	38	12	11	4	11	4	5	2	1	1											56249.0
1971								8	9	8	16	5	6	37	32	26	39	38	32	27	26	14	10	11	7	3	3	3	2	3										86710.2



STATION NUMBER 05486490

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

MIDDLE RIVER NEAR INDIANOLA, IOWA

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	11322	100.0	9	7.70	530	9894	87.4	18	120.0	821	3777	33.4	27	2000	88	237	2.0
1	0.60	10	11322	100.0	10	11.00	438	9364	82.7	19	170.0	668	2956	26.1	28	2700	59	149	1.3
2	0.90	13	11312	99.9	11	14.00	575	8926	78.8	20	230.0	589	2288	20.2	29	3700	53	90	.7
3	1.20	55	11299	99.8	12	19.00	764	8351	73.8	21	310.0	384	1699	15.0	30	5000	20	37	.3
4	1.70	158	11244	99.3	13	27.00	652	7587	67.0	22	420.0	360	1315	11.6	31	6800	11	17	.1
5	2.30	133	11086	97.9	14	36.00	772	6935	61.3	23	580.0	260	955	8.4	32	9200	4	6	.0
6	3.10	260	10953	96.7	15	49.00	885	6163	54.4	24	790.0	201	695	6.1	33	13000	2	2	.0
7	4.20	338	10693	94.4	16	67.00	812	5278	46.6	25	1100.0	165	494	4.4	34	17000	2	2	.0
8	5.70	461	10355	91.5	17	91.00	689	4466	39.4	26	1500.0	92	329	2.9					



STATION NUMBER 05487980

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

WHITE BREAST CREEK NEAR DALLAS, IOWA

YEAR	1	2	3	4	7	8	14	15	30	31	60	61	90	91	120	121	183	184	ANNUAL	
1964	0.47	2	0.50	3	0.61	4	0.71	3	0.79	2	1.07	1	1.10	1	1.20	1	1.78	1	37.87	1
1965	2.10	7	2.10	7	2.19	6	2.22	6	2.64	6	13.90	6	13.80	5	23.80	5	53.00	5	158.00	5
1966	1.40	5	1.40	5	1.54	5	1.87	5	2.39	5	7.87	5	28.80	6	72.30	7	107.00	7	204.00	6
1967	0.50	4	0.50	4	0.50	2	0.58	2	1.16	3	1.51	3	1.46	3	2.24	3	4.63	3	102.00	3
1968	0.47	3	0.40	2	0.53	3	1.32	4	1.82	4	2.79	4	6.34	4	7.74	4	10.30	4	136.00	4
1969	0.77	1	0.79	1	0.21	1	0.38	1	0.58	1	1.26	2	1.38	2	2.00	2	3.95	2	80.80	2
1970	8.60	8	9.00	8	9.66	8	9.89	8	13.70	8	22.60	8	52.50	7	51.80	6	80.90	6	219.00	7
1971	1.80	6	2.03	6	2.49	7	2.89	7	4.86	7	16.30	7	67.80	8	98.60	8	147.00	8	240.00	8



STATION NUMBER 05487980

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

WHITE BREAST CREEK NEAR DALLAS, IOWA

YEAR	1		3		7		15		30		60		90		120		183		ANNUAL	
1963	3860.0	6	2230.0	9	1390.0	9	1190.0	6	875.0	4	552.0	4	435.0	4	346.0	4	240.0	6	138.0	6
1964	3180.0	9	2880.0	7	1740.0	6	1110.0	7	587.0	7	349.0	8	265.0	8	215.0	8	175.0	8	88.6	8
1965	5540.0	3	3010.0	6	2140.0	2	1400.0	2	1100.0	2	737.0	1	558.0	1	466.0	1	336.0	2	215.0	1
1966	3550.0	8	2820.0	8	1760.0	5	1250.0	4	685.0	6	509.0	5	385.0	5	319.0	5	275.0	3	154.0	4
1967	3810.0	7	3300.0	4	2590.0	1	2040.0	1	1180.0	1	636.0	2	498.0	3	388.0	3	266.0	4	136.0	7
1968	5640.0	2	3700.0	2	1830.0	4	925.0	8	485.0	9	261.0	9	182.0	9	140.0	9	100.0	9	53.6	9
1969	4770.0	4	3820.0	1	1970.0	3	1220.0	5	903.0	3	584.0	3	516.0	2	459.0	2	356.0	1	208.0	2
1970	5710.0	1	3670.0	3	1610.0	8	846.0	9	533.0	8	378.0	7	313.0	7	263.0	7	226.0	7	156.0	3
1971	4640.0	5	3200.0	5	1720.0	7	1300.0	3	837.0	5	453.0	6	319.0	6	271.0	6	258.0	5	140.0	5







## STATION NUMBER 05487470

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## SOUTH RIVER NEAR ACKWORTH, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1942	1.00 7	1.33 8	1.76 10	2.79 16	3.39 15	13.40 20	47.00 24	132.00 27	160.00 26	313.00 23
1943	9.00 28	9.33 28	10.10 28	12.90 28	15.30 24	34.20 26	31.10 21	43.90 20	58.40 18	155.00 12
1944	2.00 14	2.00 13	2.00 12	2.43 14	2.67 11	4.71 13	7.15 14	6.82 12	16.30 13	157.00 10
1945	6.00 26	7.00 26	7.64 26	8.68 25	19.30 27	22.70 24	32.50 22	43.90 21	68.30 20	409.00 27
1946	4.00 19	4.00 19	4.00 18	4.57 18	5.63 19	9.57 17	13.00 18	15.90 16	24.00 16	312.00 22
1947	5.00 25	5.33 25	7.00 25	10.10 27	19.20 26	44.70 28	59.00 26	85.10 25	104.00 23	250.00 18
1948	2.00 15	2.00 14	2.00 13	2.36 13	3.33 14	5.99 15	7.71 15	15.20 15	23.70 15	603.00 30
1949	1.20 9	1.40 9	1.76 11	1.98 10	2.42 9	7.98 16	6.29 13	10.90 14	16.50 14	90.90 6
1950	1.50 11	1.50 10	1.70 9	1.89 9	2.35 8	3.37 10	3.33 7	4.24 10	11.00 11	140.00 9
1951	1.60 12	1.60 11	1.60 8	1.61 8	1.71 6	1.91 4	2.19 4	2.20 4	2.85 3	167.00 16
1952	4.80 23	4.90 22	5.16 22	5.25 21	7.97 23	17.10 22	23.80 20	37.40 19	64.50 19	420.00 28
1953	4.20 20	4.50 20	4.80 21	5.21 20	5.50 18	5.86 14	10.70 16	72.20 23	99.00 22	299.00 20
1954	1.30 10	1.30 7	1.34 7	1.42 5	1.56 5	2.16 5	2.87 5	3.06 5	3.55 5	157.00 13
1955	2.00 16	2.00 15	2.09 15	2.27 12	2.93 13	3.05 8	3.07 6	3.16 6	13.40 12	95.30 7
1956	0.60 4	0.60 4	0.64 2	0.71 2	0.81 2	0.94 2	1.08 2	1.32 2	2.88 4	24.90 2
1957	0.00 1	0.00 1	0.00 1	0.00 1	0.02 1	0.41 1	0.60 1	0.73 1	2.00 2	18.00 1
1958	0.50 2	0.53 2	0.69 3	0.75 3	0.96 3	1.37 3	1.43 3	1.56 3	1.74 1	50.20 3
1959	0.60 5	0.87 6	0.93 5	1.10 4	1.31 4	2.18 6	3.89 10	8.93 13	8.35 9	124.00 8
1960	7.80 27	8.20 27	8.56 27	9.56 26	21.10 29	70.60 30	94.80 30	136.00 28	179.00 29	570.00 29
1961	12.00 29	12.30 29	12.90 29	15.10 30	23.00 30	24.70 25	42.90 23	67.50 22	162.00 27	398.00 25
1962	4.80 24	4.97 23	5.87 24	7.48 24	17.40 25	35.60 27	64.00 28	95.70 26	165.00 28	403.00 26
1963	4.50 21	4.50 21	4.50 19	4.82 19	7.46 22	10.30 18	12.80 17	17.40 17	25.10 17	166.00 15
1964	1.00 8	1.80 12	2.06 14	2.24 11	2.63 10	3.06 9	3.37 8	3.43 7	3.94 6	62.20 4
1965	2.20 17	2.60 17	3.11 17	3.59 17	4.52 17	15.90 21	17.90 19	24.10 18	72.50 21	178.00 17
1966	4.50 22	5.07 24	5.41 23	5.99 23	6.30 20	12.60 19	63.60 27	142.00 30	155.00 25	292.00 19
1967	1.00 13	2.10 16	2.34 16	2.50 15	2.91 12	3.62 11	3.95 11	3.97 8	10.20 10	160.00 14
1968	0.84 6	0.84 5	0.85 4	1.48 6	4.27 16	4.49 12	5.10 12	5.07 11	7.76 8	152.00 11
1969	0.50 3	0.60 3	0.97 6	1.56 7	1.91 7	2.42 7	3.42 9	4.24 9	6.07 7	72.60 5
1970	12.00 30	12.70 30	13.60 30	13.90 29	19.70 28	45.50 29	68.80 29	72.40 24	114.00 24	316.00 24
1971	4.00 18	4.00 18	4.51 20	5.93 22	6.68 21	18.10 23	57.80 25	138.00 29	223.00 30	304.00 21



## STATION NUMBER 05487470

HIGHEST MEAN DISCHARGE, IN CFS, AND PANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## SOUTH RIVER NEAR ACKWORTH, IOWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1941	7150.0 18	3680.0 20	1680.0 22	890.0 24	471.0 26	271.0 27	199.0 26	215.0 24	161.0 25	105.0 24
1942	8340.0 14	4480.0 17	2320.0 18	1940.0 10	1260.0 11	737.0 12	600.0 12	583.0 13	467.0 13	339.0 5
1943	3860.0 25	2920.0 23	1850.0 21	1180.0 20	942.0 17	575.0 18	435.0 18	348.0 20	280.0 19	171.0 19
1944	6540.0 21	4510.0 14	2580.0 14	2090.0 8	1550.0 5	1350.0 3	1030.0 5	822.0 6	577.0 7	299.0 11
1945	8590.0 13	4800.0 13	2740.0 11	1820.0 14	1150.0 13	998.0 9	983.0 6	852.0 5	628.0 5	333.0 7
1946	8910.0 11	7000.0 6	3950.0 4	1940.0 11	1040.0 15	631.0 16	582.0 15	569.0 14	465.0 14	283.0 13
1947	26800.0 1	13200.0 2	6530.0 2	5510.0 1	4530.0 1	2440.0 1	2040.0 1	1660.0 1	1130.0 1	599.0 1
1948	5040.0 23	3350.0 21	2690.0 12	1410.0 17	887.0 19	498.0 21	386.0 21	294.0 21	206.0 23	115.0 23
1949	8330.0 15	4270.0 19	2080.0 19	1080.0 22	588.0 22	381.0 23	269.0 23	234.0 23	254.0 21	135.0 22
1950	9140.0 10	4490.0 15	2380.0 16	1270.0 19	760.0 21	629.0 17	430.0 19	457.0 16	349.0 17	178.0 17
1951	11100.0 6	5230.0 10	2590.0 13	2250.0 7	1350.0 9	1250.0 5	1110.0 2	953.0 2	669.0 4	339.0 6
1952	13500.0 4	7880.0 4	3910.0 6	1970.0 9	1090.0 14	714.0 14	595.0 13	699.0 8	518.0 9	307.0 8
1953	13500.0 5	6290.0 7	3210.0 9	1630.0 16	917.0 18	691.0 15	657.0 11	621.0 12	511.0 10	285.0 12
1954	4800.0 24	2600.0 24	1410.0 26	781.0 26	566.0 23	419.0 22	284.0 22	214.0 25	149.0 26	76.6 26
1955	2530.0 29	1320.0 29	782.0 29	380.0 29	207.0 29	127.0 30	95.2 29	72.5 30	80.5 29	44.1 28
1956	1410.0 31	808.0 31	372.0 31	264.0 31	147.0 31	80.6 31	63.0 31	50.4 31	33.8 31	18.2 31
1957	1740.0 30	1320.0 30	650.0 30	330.0 30	197.0 30	185.0 28	172.0 28	130.0 28	86.7 28	44.0 29
1958	3280.0 26	1910.0 27	990.0 27	553.0 27	487.0 24	282.0 26	191.0 27	150.0 27	114.0 27	58.3 27
1959	11000.0 7	7780.0 5	3950.0 5	3410.0 3	2080.0 2	1280.0 4	1110.0 3	942.0 3	715.0 3	390.0 3
1960	16000.0 2	13400.0 1	7380.0 1	3740.0 2	2010.0 3	1470.0 2	1100.0 4	897.0 4	759.0 2	465.0 2
1961	8020.0 17	4330.0 18	2460.0 15	1860.0 12	1470.0 6	1100.0 6	831.0 8	671.0 10	470.0 11	282.0 14
1962	8600.0 12	5600.0 8	3500.0 7	2360.0 5	1330.0 10	1080.0 7	821.0 9	675.0 9	618.0 6	333.0 4
1963	5510.0 22	2450.0 25	1520.0 24	1150.0 21	807.0 20	567.0 19	483.0 17	394.0 18	272.0 20	150.0 21
1964	3260.0 27	2220.0 26	1460.0 25	821.0 25	471.0 27	309.0 25	248.0 25	214.0 26	184.0 24	94.4 25
1965	10000.0 9	4900.0 12	2350.0 17	1710.0 15	1450.0 7	956.0 10	836.0 7	663.0 11	470.0 12	301.0 10
1966	6850.0 20	5420.0 9	3190.0 10	1840.0 13	1180.0 12	806.0 11	590.0 14	471.0 15	402.0 15	223.0 15
1967	8270.0 16	5060.0 11	3460.0 8	2360.0 6	1370.0 8	728.0 13	559.0 16	443.0 17	310.0 18	159.0 20
1968	3180.0 28	1740.0 28	882.0 28	455.0 28	241.0 28	133.0 29	94.3 30	78.8 29	57.0 30	31.5 30
1969	14400.0 3	9340.0 3	4450.0 3	2690.0 4	1630.0 4	1040.0 8	812.0 10	700.0 7	532.0 8	307.0 9
1970	10900.0 8	4480.0 16	1960.0 20	941.0 23	480.0 25	373.0 24	264.0 24	258.0 22	232.0 22	173.0 18
1971	7040.0 19	3250.0 22	1580.0 23	1280.0 18	951.0 16	533.0 20	395.0 20	349.0 19	377.0 16	218.0 16



STATION NUMBER 05487470

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

SOUTH RIVER NEAR ACKWORTH, IOWA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	CFS_DAYS				
YEAR	NUMBER OF DAYS IN CLASS																																	CFS_DAYS						
1941						33	19	32	18	11	30	18	22	47	29	38	18	16	6	7	6	3	2	1	3	1	2	2					1			38168.5				
1942													12	13	15	18	25	29	56	53	44	28	17	14	9	13	6	8	4					1			123606.0			
1943										18	6	22	26	31	39	66	49	34	24	15	7	8	7	7	2	3	1									62409.6				
1944								17	23	32	51	34	23	12	14	15	12	19	17	15	20	15	13	6	9	2	9	4	3	1							109417.3			
1945										16	24	10	23	31	29	42	21	15	33	31	22	16	17	6	12	5	4	2	4	2								121613.0		
1946										28	49	7	14	15	23	27	46	33	34	25	18	11	5	6	9	6	2	1	3	3								103461.0		
1947								2	19	23	20	11	19	34	33	25	24	33	20	29	15	14	10	6	6	4	6	3	5	2					2		2	218679.8		
1948										3	32	19	38	37	31	36	25	28	26	18	18	12	12	15	2	3	3	1	2	2	2	1							42109.1	
1949								2	17	34	35	42	27	17	14	31	34	19	10	12	12	15	11	13	8	6		2	2						1	1		49148.5		
1950										3	26	62	44	28	16	25	24	27	25	19	19	10	4	6	3	3	7	4	1	3	3	2	1						65140.3	
1951										42	60	31	14	6	12	11	17	23	6	3	6	19	27	23	18	8	12	7	3	6	6	3	1	1					123607.8	
1952											6	20	17	12	31	35	33	23	50	36	31	17	14	10	9	6	6	2	4	2	1					1		1	112493.9	
1953											14	47	35	17	5	8	12	25	28	28	36	22	31	20	8	7	9	5	2	2	3							1	103967.3	
1954											27	40	111	68	30	17	9	10	10	3	12	4	3	5	1	2	3	2	2	2	1	2	1						27950.1	
1955										5	17	14	14	15	3	18	17	16	14	16	17	19	11	9	8	5	3		4	2	2								16105.2	
1956	12	6				5	40	98	62	25	42	14	12	5	9	6	6	5	6	1	5		2	1	2	1	1											6654.0		
1957	13					38	46	69	40	33	18	9	11	12	11	14	11	5	4	3	5	5	6	3	3	1	3	2										16056.7		
1958							6	13	65	50	12	39	29	40	19	21	16	18	6	7	6	3	3	3	2	1	2	2	1	1									21264.2	
1959							5	18	14	9	9	64	9	13	13	11	21	21	15	20	23	22	13	15	13	7	6	5	5	8	1	4	1						142436.7	
1960															15	20	19	40	47	49	53	38	24	13	9	10	6	6	4	7						3	1	2		170316.0
1961											3	11	8	13	44	47	55	35	28	18	24	16	15	16	9	8	5	5	3									2		103035.6
1962											12	20	21	16	16	7	18	10	25	51	70	29	15	12	8	10	8	9	4	2	2									139922.8
1963																																								54601.6
1964																																								34534.7
1965																																								109848.8
1966																																								81488.4
1967																																								57919.9
1968																																								11535.8
1969																																								111969.1
1970																																								63289.3
1971																																								79705.7



STATION NUMBER 05487470

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

SOUTH RIVER NEAR ACKWORTH, IOWA

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	25	11322	100.0	9	2.70	778	10028	88.6	18	76.0	730	3733	33.0	27	2100	97	259	2.2
1	0.10	6	11297	99.8	10	4.00	814	9250	81.7	19	110.0	715	3003	26.5	28	3000	78	162	1.4
2	0.20	0	11291	99.7	11	5.70	668	8436	74.5	20	160.0	590	2288	20.2	29	4400	37	84	.7
3	0.30	0	11291	99.7	12	8.30	526	7768	68.6	21	230.0	437	1698	15.0	30	6400	32	47	.4
4	0.40	44	11291	99.7	13	12.00	594	7242	64.0	22	330.0	309	1261	11.1	31	9200	8	15	.1
5	0.60	117	11247	99.3	14	17.00	692	6648	58.7	23	480.0	227	952	8.4	32	13000	5	7	.0
6	0.90	261	11137	98.4	15	25.00	685	5956	52.6	24	700.0	184	725	6.4	33	19000	2	2	.0
7	1.30	360	10876	96.1	16	36.00	760	5271	46.6	25	1000.0	170	541	4.8	34				
8	1.90	488	10516	92.9	17	52.00	778	4511	39.8	26	1500.0	112	371	3.3					



STATION\_NUMBER 5-488C.00

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

WHITEBREAST CREEK NEAR KNOXVILLE, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1947	3.0 13	3.0 13	3.6 13	6.4 13	13.9 14	31.1 15	40.8 14	56.8 14	65.3 12	183.0 9
1948	2.0 11	2.0 11	2.0 11	2.0 9	2.6 9	4.1 9	4.8 7	8.1 8	14.1 8	426.0 15
1949	1.0 7	1.2 8	1.4 8	1.8 8	1.9 7	6.2 10	6.7 10	8.3 9	13.3 7	89.4 5
1950	1.0 8	1.1 7	1.1 6	1.2 5	1.7 6	2.9 7	3.2 6	4.2 6	6.3 6	112.0 7
1951	1.3 10	1.3 9	1.3 7	1.4 7	1.5 5	1.7 4	2.0 4	2.0 4	4.1 5	150.0 8
1952	5.8 14	6.1 14	6.9 14	7.9 14	8.6 13	12.7 12	17.6 12	34.2 12	46.6 11	286.0 12
1953	2.4 12	2.4 12	2.7 12	2.8 11	3.1 10	3.3 8	5.4 9	26.9 10	81.7 13	216.0 11
1954	0.6 5	0.7 5	0.8 4	0.9 3	1.0 3	1.2 3	1.7 3	1.9 3	1.9 2	106.0 6
1955	1.1 9	1.1 6	1.1 5	1.2 6	1.3 4	2.0 5	5.2 8	5.1 7	22.4 9	52.7 3
1956	0.5 2	0.5 2	0.5 2	0.6 2	0.7 1	0.8 2	0.9 2	1.0 2	1.0 1	20.1 2
1957	0.2 1	0.4 1	0.4 1	0.4 1	0.7 2	0.7 1	0.7 1	0.8 1	2.0 3	16.4 1
1958	0.6 3	0.7 3	0.8 3	1.0 4	2.0 8	2.9 6	2.9 5	3.0 5	3.9 4	61.5 4
1959	0.6 4	0.7 4	1.7 9	3.0 12	3.8 11	6.7 11	13.0 11	33.6 11	28.6 10	192.0 10
1960	7.0 16	7.0 16	7.3 15	8.6 15	20.0 16	73.2 16	128.0 16	144.0 16	174.0 16	474.0 16
1961	6.6 15	6.8 15	7.6 16	9.4 16	19.8 15	21.1 13	39.0 13	61.5 15	82.8 14	352.0 13
1962	1.0 6	1.6 10	1.8 10	2.4 10	6.5 12	21.4 14	42.1 15	54.0 13	167.0 15	378.0 14



STATION\_NUMBER 5-4880.00

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

WHITEBREAST CREEK NEAR KNOXVILLE, IOWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1946	7260.0 7	5370.0 6	3240.0 3	1620.0 5	839.0 6	521.0 9	530.0 7	496.0 7	461.0 5	269.0 5
1947	10200.0 3	8030.0 2	4280.0 2	3090.0 1	2940.0 1	1580.0 1	1460.0 1	1180.0 1	805.0 1	423.0 1
1948	2600.0 13	1870.0 13	1560.0 12	839.0 13	598.0 12	351.0 13	279.0 13	213.0 13	146.0 13	61.9 13
1949	4070.0 12	3000.0 11	1720.0 11	1010.0 12	589.0 13	407.0 12	285.0 12	233.0 12	242.0 11	128.0 11
1950	8560.0 4	5400.0 5	2450.0 7	1310.0 7	696.0 11	566.0 7	394.0 10	384.0 10	298.0 10	155.0 10
1951	4300.0 11	280.0 12	1360.0 13	1080.0 11	758.0 9	666.0 6	658.0 6	598.0 5	438.0 6	222.0 7
1952	8540.0 5	5440.0 4	2560.0 6	1300.0 8	775.0 8	490.0 10	423.0 9	484.0 8	382.0 7	216.0 8
1953	4830.0 10	3830.0 9	2010.0 9	1090.0 10	733.0 10	556.0 8	483.0 8	457.0 9	359.0 9	213.0 9
1954	2020.0 14	1080.0 16	490.0 16	307.0 16	160.0 16	127.0 16	85.9 16	65.9 16	52.5 16	27.3 16
1955	1770.0 15	1530.0 14	875.0 14	442.0 14	225.0 14	141.0 15	113.0 15	89.9 15	94.7 15	55.6 14
1956	1340.0 17	716.0 17	342.0 17	257.0 17	146.0 17	77.5 17	58.3 17	44.6 17	30.5 17	16.0 17
1957	1640.0 16	1370.0 15	706.0 15	360.0 15	213.0 15	195.0 14	188.0 14	143.0 14	96.2 14	49.3 15
1958	6480.0 8	4520.0 8	2250.0 8	1110.0 9	805.0 7	470.0 11	320.0 11	249.0 11	153.0 12	59.9 12
1959	7600.0 6	5960.0 3	3230.0 4	2560.0 2	1880.0 2	1200.0 3	1130.0 2	936.0 2	662.0 2	383.0 4
1960	10500.0 1	8730.0 1	5810.0 1	2890.0 3	1720.0 3	1370.0 2	1020.0 3	796.0 3	667.0 3	390.0 2
1961	5090.0 9	3490.0 10	1940.0 10	1590.0 6	1240.0 4	928.0 5	673.0 5	533.0 6	367.0 8	243.0 6
1962	10200.0 2	5350.0 7	2710.0 5	1900.0 4	1080.0 5	972.0 4	726.0 4	631.0 4	589.0 4	389.0 3



STATION\_NUMBER 5-4880.00

DURATION TABLE OF DAILY DISCHARGE

WHITEBREAST CREEK NEAR KNOXVILLE, IOWA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	CFS_DAYS	
YEAR	NUMBER OF DAYS IN CLASS																																	CFS_DAYS			
1946											2	12	17	23	37	28	25	28	32	31	28	16	21	16	10	7	8	7	7	3	3	2	2	98101.4			
1947									1	28	29	10	4	6	18	24	29	31	34	34	20	12	13	6	14	8	7	8	6	6	4	9	2	1	1	154449.4	
1948						5	12	34	33	40	32	31	29	20	18	20	14	22	12	11	9	4	4	1	5	1	3	4	2							25976.6	
1949						7	21	55	23	18	33	16	17	19	19	22	22	14	12	7	13	12	9	6	5	4	2	5	1	1	2					46607.6	
1950						2	10	19	58	30	15	19	14	11	33	37	23	16	20	15	4	7	5	4	6	4	3	5	2		2			1		56702.2	
1951						8	47	68	11		9	23	12	17	16	10	3	4	8	20	18	20	11	15	12	8	8	10	5	1	1					81018.3	
1952									11	12	15	14	24	30	25	25	20	32	25	35	25	16	11	8	16	8	5	3	3	1			1	1			79238.6
1953								29	18	43	19	3	1	2	12	15	26	23	17	28	23	23	32	10	12	7	6	4	3	3	4	2					77886.5
1954				1	6	6	1	90	74	31	13	12	7	4	11	7	15	5	4	4	2	1	1	3	3	1	1	1		1						5974.3	
1955				10	9	11	56	47	14	45	20	9	6	12	16	20	23	16	14	5	6	7	8	4	1	2	2	2								20291.4	
1956	1	1	7	31	42	114	41	46	17	10	5	8	5	8	5	3	6	5	1	1	3	2	1		1	1	1									5872.5	
1957			10	45	59	28	28	27	19	18	9	16	10	15	12	13	13	7	5	5	6	5	3	3	2	2	3	2								17988.1	
1958				1	10	10	33	30	38	39	25	17	9	26	23	26	10	9	12	13	8	7	1	6	3		4	3						2		36446.5	
1959				1	3	1		9	6	34	37	38	15	25	15	14	12	13	12	9	14	16	11	15	13	11	13	10	5	6	4	2	1			139692.6	
1960											4	9	8	17	14	28	34	27	43	50	42	21	13	14	7	8	4	5	7	3	1	3	3	1		142707.4	
1961						2	4	7	6	3	5	9	13	49	48	35	24	32	15	21	20	17	11	6	8	5	6	8	6	1	4					88586.9	
1962						10	4	1	8	7	7	8	6	15	10	11	14	29	27	57	38	25	17	12	10	10	11	10	9	4	3	1			1	142050.7	

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	6209	100.0	9	2.80	346	4502	78.9	18	53.0	313	2195	35.4	27	1000	85	302	4.8
1	0.20	1	6209	100.0	10	3.60	325	4556	73.4	19	74.0	303	1882	30.3	28	1400	83	217	3.4
2	0.30	1	6208	100.0	11	5.30	253	4231	68.1	20	100.0	322	1579	25.4	29	2000	53	134	2.1
3	0.40	17	6207	100.0	12	7.40	246	3978	64.1	21	140.0	258	1257	20.2	30	2700	28	81	1.3
4	0.50	89	6190	99.7	13	10.00	203	3732	60.1	22	200.0	226	999	16.1	31	3800	30	53	.8
5	0.70	129	6101	98.3	14	14.00	342	3529	56.8	23	280.0	140	773	12.4	32	5300	13	23	.3
6	1.00	259	5972	96.2	15	20.00	328	3187	51.3	24	380.0	133	633	10.2	33	7300	7	10	.1
7	1.40	375	5713	92.0	16	28.00	350	2859	46.0	25	530.0	112	500	8.1	34	10000	3	3	.0
8	2.00	435	5338	86.0	17	38.00	305	2500	40.3	26	740.0	86	388	6.2					



STATION NUMBER 05488500

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

DES MOINES RIVER NEAR TRACY, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1921	840.00 48	840.00 48	840.00 48	1160.00 49	1660.00 50	1940.00 49	2380.00 47	2430.00 46	2960.00 43	5810.00 42
1922	560.00 43	560.00 41	590.00 40	680.00 41	934.00 45	1070.00 40	1210.00 36	1500.00 36	2710.00 40	4150.00 28
1923	400.00 31	400.00 26	400.00 26	503.00 31	569.00 30	634.00 25	668.00 21	885.00 22	1080.00 23	3340.00 23
1924	550.00 42	550.00 40	550.00 38	550.00 36	550.00 28	843.00 34	1110.00 35	1540.00 38	2330.00 37	3430.00 24
1925	310.00 22	310.00 22	310.00 21	310.00 21	325.00 18	438.00 18	629.00 19	758.00 20	1140.00 24	3300.00 21
1926	435.00 35	435.00 30	445.00 29	458.00 26	485.00 24	689.00 27	860.00 27	1020.00 28	1070.00 21	1770.00 6
1927	390.00 29	409.00 27	438.00 28	482.00 28	552.00 29	800.00 31	1790.00 44	1540.00 39	3380.00 46	3610.00 26
1928	140.00 8	140.00 8	140.00 7	157.00 7	215.00 12	247.00 8	381.00 13	591.00 17	741.00 18	3970.00 27
1929	1100.00 51	1130.00 51	1170.00 50	1170.00 50	1230.00 48	1590.00 48	2640.00 48	2790.00 47	3270.00 45	5190.00 37
1930	375.00 27	375.00 24	375.00 23	385.00 23	450.00 22	543.00 21	636.00 20	679.00 19	696.00 15	3300.00 22
1931	195.00 15	195.00 15	230.00 16	232.00 16	236.00 14	290.00 13	312.00 8	330.00 6	357.00 4	1510.00 4
1932	160.00 11	160.00 10	179.00 13	202.00 12	481.00 23	552.00 22	834.00 25	955.00 25	1080.00 22	5160.00 34
1933	375.00 28	375.00 25	375.00 24	532.00 33	749.00 38	995.00 37	998.00 32	1260.00 33	1560.00 29	3560.00 25
1934	170.00 14	170.00 13	170.00 12	204.00 13	232.00 13	284.00 11	314.00 9	382.00 11	419.00 7	1860.00 8
1935	125.00 5	127.00 5	143.00 8	160.00 8	189.00 7	296.00 14	373.00 12	391.00 12	482.00 10	1500.00 3
1936	434.00 34	442.00 31	465.00 32	481.00 27	676.00 33	800.00 32	1010.00 33	1520.00 37	1430.00 26	5170.00 35
1937	164.00 12	164.00 11	164.00 9	170.00 9	191.00 8	263.00 10	509.00 17	564.00 16	792.00 19	2890.00 15
1938	125.00 6	125.00 5	125.00 5	139.00 5	164.00 4	196.00 4	289.00 6	311.00 5	524.00 11	2520.00 10
1939	610.00 46	610.00 45	707.00 46	909.00 47	1070.00 46	1070.00 38	1240.00 37	1590.00 40	3590.00 47	4960.00 32
1940	45.00 1	45.00 1	45.00 1	46.10 1	55.40 1	75.20 1	110.00 1	134.00 1	180.00 1	1210.00 2
1941	231.00 17	238.00 17	251.00 19	281.00 19	427.00 21	591.00 24	976.00 30	1160.00 30	1830.00 33	2200.00 9
1942	422.00 32	433.00 29	455.00 30	609.00 38	772.00 39	1120.00 42	1980.00 46	3190.00 49	3640.00 48	5500.00 41
1943	600.00 44	640.00 46	733.00 47	814.00 45	861.00 43	1250.00 45	1370.00 41	1760.00 42	2720.00 41	5400.00 38
1944	520.00 40	580.00 42	659.00 44	705.00 42	799.00 40	1100.00 41	1250.00 38	1290.00 34	1770.00 32	4880.00 30
1945	540.00 41	583.00 43	618.00 42	641.00 39	688.00 34	761.00 30	853.00 26	965.00 26	1720.00 31	9020.00 49
1946	340.00 23	453.00 33	480.00 33	488.00 30	545.00 27	740.00 29	798.00 24	994.00 27	2480.00 39	8410.00 47
1947	430.00 33	460.00 35	561.00 39	856.00 46	1180.00 47	1370.00 46	1940.00 45	2290.00 45	2830.00 42	4960.00 33
1948	260.00 20	270.00 20	291.00 20	305.00 20	377.00 19	533.00 20	714.00 22	767.00 21	732.00 17	9630.00 50
1949	239.00 18	239.00 18	248.00 17	251.00 17	280.00 16	357.00 17	447.00 16	462.00 15	689.00 14	3020.00 17
1950	150.00 9	155.00 9	166.00 10	176.00 10	209.00 10	252.00 9	286.00 5	336.00 7	462.00 9	2630.00 11
1951	170.00 13	170.00 14	170.00 11	177.00 11	204.00 9	227.00 5	281.00 4	362.00 8	553.00 13	3140.00 18
1952	900.00 49	983.00 49	1250.00 51	1410.00 51	1670.00 51	2100.00 50	2660.00 49	3080.00 48	4160.00 49	11300.00 51
1953	360.00 24	459.00 34	464.00 31	485.00 29	521.00 26	640.00 26	983.00 31	948.00 24	1350.00 25	5470.00 40
1954	130.00 7	130.00 7	130.00 6	139.00 6	168.00 5	231.00 6	301.00 7	309.00 4	396.00 5	3210.00 19
1955	600.00 45	607.00 44	611.00 41	641.00 40	716.00 35	1070.00 39	1410.00 42	2150.00 44	3220.00 44	5420.00 39
1956	92.00 4	104.00 4	117.00 4	123.00 4	128.00 2	138.00 2	143.00 2	156.00 2	221.00 2	1560.00 5
1957	89.00 2	94.70 3	111.00 3	118.00 3	129.00 3	152.00 3	196.00 3	212.00 3	254.00 3	511.00 1
1958	280.00 21	290.00 21	317.00 22	371.00 22	421.00 20	495.00 19	536.00 18	627.00 18	718.00 16	1830.00 7



STATION NUMBER 05488500

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

DES MOINES RIVER NEAR TRACY, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1959	200.00 16	200.00 16	203.00 15	213.00 14	215.00 11	245.00 7	412.00 15	432.00 13	857.00 20	3220.00 20
1960	368.00 25	499.00 36	523.00 36	570.00 37	927.00 44	1210.00 44	1320.00 40	1310.00 35	1600.00 30	4890.00 31
1961	400.00 30	430.00 28	431.00 27	441.00 24	501.00 25	590.00 23	747.00 23	927.00 23	1450.00 27	7320.00 45
1962	957.00 50	1010.00 50	1060.00 49	1160.00 48	1570.00 49	2560.00 51	3130.00 51	3800.00 51	4280.00 50	6550.00 43
1963	500.00 39	500.00 37	500.00 35	506.00 32	611.00 31	695.00 28	889.00 28	1120.00 29	2440.00 38	7120.00 44
1964	250.00 19	250.00 19	250.00 18	254.00 18	284.00 17	339.00 16	400.00 14	455.00 14	544.00 12	2780.00 13
1965	470.00 37	547.00 39	650.00 43	773.00 44	839.00 41	853.00 35	1020.00 34	1220.00 31	2160.00 36	4360.00 29
1966	659.00 47	670.00 47	699.00 45	748.00 43	852.00 42	1440.00 47	2730.00 50	3230.00 50	4500.00 51	8180.00 46
1967	160.00 10	167.00 12	183.00 14	227.00 15	249.00 15	313.00 15	356.00 11	362.00 9	405.00 6	2930.00 16
1968	90.00 3	90.00 2	90.10 2	104.00 2	184.00 6	286.00 12	338.00 10	368.00 10	431.00 8	2880.00 14
1969	442.00 36	450.00 32	483.00 34	541.00 35	723.00 36	928.00 36	1250.00 39	1610.00 41	1540.00 28	2730.00 12
1970	500.00 38	513.00 38	533.00 37	538.00 34	639.00 32	839.00 33	974.00 29	1230.00 32	1990.00 34	8610.00 48
1971	368.00 26	372.00 23	376.00 25	446.00 25	730.00 37	1130.00 43	1570.00 43	1930.00 43	2050.00 35	5180.00 36



## STATION NUMBER 05488500

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## DES MOINES RIVER NEAR TRACY, IOWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1921	26500.0 33	24600.0 33	22900.0 29	16000.0 33	9800.0 38	7610.0 38	6620.0 35	6070.0 34	5610.0 29	4300.0 21
1922	25200.0 38	22500.0 38	21200.0 34	15900.0 34	10700.0 37	8560.0 32	7760.0 29	6720.0 32	5590.0 30	3720.0 27
1923	25900.0 35	25200.0 30	20500.0 35	14200.0 37	9430.0 39	6580.0 40	5560.0 39	4880.0 40	3780.0 41	2530.0 42
1924	37500.0 17	35200.0 16	26400.0 23	16800.0 30	12700.0 28	8860.0 30	7000.0 32	7510.0 26	6690.0 23	4560.0 19
1925	11000.0 47	9320.0 47	8030.0 47	6690.0 45	4980.0 47	3380.0 47	2650.0 47	2340.0 47	2110.0 47	1470.0 45
1926	37100.0 19	35100.0 17	29300.0 15	19400.0 23	12800.0 27	6950.0 39	4880.0 42	4640.0 42	3380.0 43	2580.0 40
1927	34800.0 21	31300.0 24	26600.0 20	21500.0 17	16400.0 18	13700.0 14	11500.0 14	9940.0 16	7780.0 18	5020.0 16
1928	17800.0 44	14500.0 44	8880.0 45	5410.0 47	5140.0 46	4500.0 45	4160.0 44	3630.0 44	3410.0 42	2550.0 41
1929	44300.0 11	41900.0 11	37100.0 9	31300.0 9	21200.0 11	17900.0 9	14600.0 9	12000.0 10	9240.0 11	6170.0 12
1930	27200.0 29	24500.0 34	16000.0 42	10100.0 43	7210.0 42	6040.0 41	4700.0 43	3960.0 43	3310.0 44	1970.0 44
1931	10300.0 49	7130.0 49	5060.0 49	3190.0 49	1960.0 49	1410.0 49	1140.0 49	1310.0 49	1080.0 49	715.0 49
1932	26500.0 34	26500.0 28	26500.0 21	19600.0 22	14000.0 23	13000.0 18	11200.0 16	11400.0 11	10100.0 10	7360.0 9
1933	34000.0 22	31700.0 22	25900.0 25	18400.0 25	11500.0 32	8030.0 36	5910.0 38	4890.0 39	3970.0 39	2460.0 43
1934	4760.0 50	4390.0 50	3640.0 50	2600.0 50	1630.0 50	1030.0 50	930.0 50	864.0 50	745.0 51	550.0 50
1935	51600.0 8	46700.0 9	36700.0 10	31400.0 8	21500.0 10	14200.0 13	10700.0 17	8520.0 21	7490.0 19	4160.0 23
1936	23100.0 40	22300.0 39	21300.0 33	21000.0 18	17300.0 17	11300.0 20	8660.0 26	7400.0 27	5220.0 33	3310.0 30
1937	37700.0 16	32500.0 19	27800.0 18	20100.0 21	14900.0 22	10000.0 25	8570.0 27	8240.0 22	6710.0 22	3770.0 26
1938	25500.0 37	24700.0 32	21500.0 31	17800.0 26	11300.0 33	8040.0 35	6930.0 33	6650.0 33	6030.0 26	3530.0 28
1939	35500.0 20	33500.0 18	28500.0 17	20600.0 19	13500.0 24	8770.0 31	6520.0 37	5380.0 37	4130.0 38	2950.0 36
1940	10900.0 48	10200.0 46	8460.0 46	6080.0 46	5950.0 45	4080.0 46	2880.0 46	2470.0 46	2230.0 46	1250.0 47
1941	21000.0 41	17400.0 43	14200.0 43	12000.0 41	8980.0 40	5710.0 42	5290.0 40	5160.0 38	4410.0 36	2980.0 35
1942	27000.0 31	24700.0 35	19100.0 36	15400.0 35	11800.0 30	9960.0 26	9790.0 20	9000.0 19	8390.0 15	7500.0 8
1943	25600.0 36	22300.0 40	17900.0 37	13200.0 38	11700.0 31	10800.0 23	10000.0 18	9440.0 18	8100.0 17	5460.0 14
1944	70400.0 4	66000.0 4	60200.0 4	43900.0 4	36900.0 3	28400.0 2	22800.0 3	18700.0 4	14000.0 5	7860.0 6
1945	38900.0 13	35600.0 14	30800.0 14	27900.0 12	25100.0 7	21800.0 7	20800.0 5	19200.0 3	14700.0 4	8200.0 5
1946	39400.0 12	35900.0 13	26600.0 19	19100.0 24	15400.0 20	11000.0 21	9790.0 19	10600.0 15	9180.0 12	5690.0 13
1947	136000.0 1	96500.0 1	65500.0 2	61100.0 1	53000.0 1	34900.0 1	27800.0 1	23800.0 1	17100.0 2	9660.0 1
1948	55400.0 6	47200.0 8	35400.0 11	24000.0 15	15800.0 19	11000.0 22	9010.0 24	7150.0 30	5310.0 32	3000.0 34
1949	28900.0 26	27800.0 26	24700.0 28	17300.0 28	14900.0 21	12200.0 19	9480.0 21	7840.0 24	5980.0 28	3340.0 29
1950	28700.0 27	25200.0 31	22800.0 30	16800.0 29	11200.0 34	9710.0 27	7590.0 31	7330.0 29	6010.0 27	3280.0 31
1951	53400.0 7	50900.0 6	42800.0 7	41200.0 5	31800.0 5	28000.0 3	24800.0 2	22900.0 2	17700.0 1	9500.0 3
1952	37400.0 18	32000.0 21	25200.0 27	20500.0 20	19200.0 15	15900.0 11	13200.0 10	12800.0 9	11000.0 9	6920.0 10
1953	26500.0 32	25900.0 29	21300.0 32	14700.0 36	11900.0 29	9360.0 28	9050.0 23	8790.0 20	7210.0 21	4190.0 22
1954	69000.0 5	63700.0 5	48200.0 5	30700.0 10	21100.0 12	13300.0 17	11300.0 15	9830.0 17	7440.0 20	3970.0 24
1955	13900.0 45	12800.0 45	10800.0 44	8470.0 44	7140.0 43	5210.0 43	5210.0 41	4720.0 41	3920.0 40	3130.0 33
1956	3920.0 51	3430.0 51	2110.0 51	1970.0 51	1310.0 51	993.0 51	840.0 51	836.0 51	773.0 50	496.0 51
1957	23800.0 39	22800.0 37	16500.0 41	10300.0 42	6960.0 44	5200.0 44	3970.0 45	3440.0 45	2500.0 45	1390.0 46
1958	32200.0 24	32100.0 20	26100.0 24	16600.0 31	13400.0 25	8960.0 29	6610.0 36	5530.0 36	4360.0 37	2690.0 39



STATION NUMBER 05488500

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

DES MOINES RIVER NEAR TRACY, IOWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1959	38400.0 14	35400.0 15	32200.0 12	25000.0 13	18700.0 16	13400.0 15	11900.0 13	10900.0 14	8210.0 16	4460.0 20
1960	73200.0 3	70800.0 3	63700.0 3	44800.0 3	29500.0 6	22500.0 6	19100.0 7	15900.0 8	11500.0 8	6840.0 11
1961	37800.0 15	36000.0 12	31600.0 13	24600.0 14	20100.0 14	15600.0 12	12500.0 11	11000.0 13	8460.0 13	5000.0 17
1962	50600.0 9	49100.0 7	45400.0 6	39700.0 6	33600.0 4	22700.0 5	19400.0 6	16500.0 7	13400.0 6	9250.0 4
1963	19800.0 42	18800.0 41	16700.0 40	12700.0 39	11000.0 35	8370.0 34	8080.0 28	7400.0 28	6360.0 24	3950.0 25
1964	27200.0 30	23400.0 36	17200.0 39	12100.0 40	8330.0 41	7840.0 37	6910.0 34	5950.0 35	5170.0 34	2860.0 38
1965	76300.0 2	75700.0 2	68900.0 1	54200.0 2	37900.0 2	25700.0 4	21600.0 4	18100.0 5	13100.0 7	7730.0 7
1966	32900.0 23	31600.0 23	25400.0 26	17500.0 27	12800.0 26	10600.0 24	9000.0 25	8060.0 23	6300.0 25	4880.0 18
1967	47000.0 10	46300.0 10	42000.0 8	34900.0 7	23500.0 9	13400.0 16	9380.0 22	7610.0 25	5440.0 31	2940.0 37
1968	13100.0 46	8960.0 48	6530.0 48	4690.0 48	3430.0 48	2450.0 48	2060.0 48	1980.0 48	1540.0 48	938.0 48
1969	29500.0 25	29500.0 25	29100.0 16	28700.0 11	24500.0 8	17900.0 8	17600.0 8	17000.0 6	16000.0 3	9530.0 2
1970	18100.0 43	18000.0 42	17700.0 38	16300.0 32	10800.0 36	8480.0 33	7630.0 30	6780.0 31	5060.0 35	3210.0 32
1971	27600.0 28	27000.0 27	26400.0 22	23200.0 16	20300.0 13	16600.0 10	12500.0 12	11200.0 12	8430.0 14	5150.0 15











## STATION NUMBER 05489000

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## CEDAR CREEK NEAR BUSSEY, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1949	0.30 5	0.43 5	0.66 6	1.36 8	3.61 14	13.50 15	17.70 14	27.80 13	37.20 14	192.00 14
1950	2.60 17	2.63 17	2.83 17	2.96 17	3.36 12	5.88 12	6.65 11	7.53 9	20.40 10	136.00 9
1951	0.50 6	0.50 6	0.56 5	0.57 4	0.61 4	1.77 5	2.16 4	2.27 4	7.89 6	179.00 12
1952	4.40 21	4.40 21	4.46 20	5.05 20	8.15 19	18.20 20	22.40 17	45.30 20	53.80 17	329.00 20
1953	1.70 13	1.77 13	1.94 13	2.26 13	2.67 11	3.54 9	17.20 13	46.40 21	85.70 20	273.00 18
1954	0.20 3	0.20 3	0.20 3	0.21 3	0.31 3	0.42 3	0.61 3	0.72 3	0.88 1	60.50 4
1955	0.70 8	0.70 7	0.74 7	0.87 6	1.44 7	1.87 6	4.42 9	4.14 7	29.50 12	66.10 5
1956	0.00 1	0.00 1	0.00 1	0.00 1	0.14 2	0.18 1	0.26 1	0.28 1	1.34 3	29.10 1
1957	0.00 2	0.03 2	0.07 2	0.10 2	0.11 1	0.34 2	0.44 2	0.47 2	0.91 2	34.80 2
1958	0.30 4	0.37 4	0.51 4	0.59 5	1.13 5	3.61 10	6.01 10	7.92 10	10.30 8	88.80 6
1959	5.20 22	5.60 22	6.49 22	8.86 22	15.50 22	16.60 17	48.80 21	41.80 17	70.70 18	305.00 19
1960	2.20 14	2.20 14	2.33 14	2.46 14	4.05 16	28.60 22	53.70 22	73.80 23	76.10 19	375.00 22
1961	2.30 15	2.30 15	2.50 15	2.81 15	3.76 15	7.38 13	16.10 12	25.00 12	24.60 11	332.00 21
1962	3.20 18	3.47 18	3.66 18	4.89 19	7.54 18	31.90 23	35.40 20	36.90 15	237.00 23	423.00 23
1963	3.70 19	4.07 20	4.10 19	4.42 18	14.60 21	18.00 19	33.30 19	38.90 16	53.30 15	191.00 13
1964	0.60 7	0.70 8	0.76 8	0.91 7	1.25 6	1.35 4	2.27 5	2.56 5	3.49 4	39.50 3
1965	1.30 12	1.37 12	1.43 12	1.49 9	1.60 8	3.00 8	4.25 8	8.25 11	11.80 9	150.00 11
1966	2.30 16	2.37 16	2.54 16	2.84 16	3.57 13	11.60 14	19.50 16	44.20 18	138.00 21	258.00 17
1967	1.20 11	1.23 11	1.30 10	1.68 10	2.19 10	2.50 7	3.12 6	3.16 6	8.79 7	99.00 8
1968	1.00 10	1.00 10	1.07 9	2.06 12	4.79 17	14.60 16	18.70 15	44.30 19	53.60 16	205.00 15
1969	0.93 9	0.99 9	1.35 11	1.88 11	2.07 9	3.71 11	3.67 7	5.41 8	6.51 5	95.50 7
1970	6.70 23	7.37 23	9.17 23	15.10 23	15.70 23	16.70 18	28.60 18	32.00 14	36.20 13	142.00 10
1971	3.70 20	3.80 19	4.67 21	5.72 21	10.40 20	20.20 21	57.40 23	71.30 22	209.00 22	242.00 16



STATION NUMBER 05489000

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

CEDAR CREEK NEAR BUSSEY, IOWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1948	9240.0 7	4540.0 9	2080.0 12	1320.0 12	1020.0 9	625.0 12	503.0 12	382.0 13	273.0 14	147.0 15
1949	5960.0 9	4900.0 8	3000.0 7	2140.0 4	1210.0 7	858.0 4	612.0 7	492.0 8	409.0 6	220.0 8
1950	13000.0 4	6040.0 6	2730.0 9	1340.0 10	745.0 14	606.0 13	446.0 13	420.0 10	351.0 8	185.0 9
1951	5570.0 11	3260.0 14	1590.0 16	1120.0 16	914.0 12	827.0 6	789.0 3	707.0 3	535.0 4	272.0 4
1952	11400.0 5	6920.0 5	3180.0 6	1590.0 9	992.0 10	675.0 10	536.0 9	606.0 5	461.0 5	267.0 5
1953	5440.0 12	4310.0 11	2210.0 11	1320.0 11	952.0 11	666.0 11	513.0 11	410.0 11	325.0 11	183.0 11
1954	2350.0 24	938.0 24	432.0 24	265.0 24	144.0 24	96.9 24	79.8 24	60.9 24	58.4 24	29.9 24
1955	3140.0 20	1750.0 19	954.0 20	620.0 21	345.0 22	226.0 22	208.0 21	164.0 22	116.0 22	65.4 22
1956	3250.0 19	1800.0 18	938.0 21	601.0 22	373.0 21	195.0 23	136.0 23	103.0 23	68.4 23	34.6 23
1957	2530.0 23	1570.0 22	773.0 22	399.0 23	315.0 23	264.0 21	206.0 22	189.0 21	130.0 21	65.5 21
1958	14900.0 2	8550.0 3	3940.0 3	1970.0 6	1320.0 4	801.0 7	592.0 8	452.0 9	331.0 10	185.0 10
1959	5870.0 10	4200.0 12	2270.0 10	1930.0 7	1220.0 6	1010.0 2	945.0 2	871.0 2	599.0 3	325.0 3
1960	15200.0 1	11300.0 1	6530.0 1	3320.0 1	2010.0 1	1700.0 1	1260.0 1	968.0 1	752.0 1	404.0 1
1961	13200.0 3	9730.0 2	4440.0 2	2150.0 3	1140.0 8	716.0 9	527.0 10	407.0 12	302.0 12	245.0 7
1962	9420.0 6	5290.0 7	2810.0 8	2070.0 5	1330.0 3	967.0 3	712.0 4	650.0 4	610.0 2	396.0 2
1963	3540.0 18	1680.0 21	1260.0 19	1120.0 17	743.0 15	466.0 15	381.0 14	310.0 15	216.0 18	131.0 18
1964	3990.0 16	2830.0 15	1550.0 17	1160.0 14	632.0 17	357.0 18	305.0 18	234.0 18	160.0 20	83.0 20
1965	9040.0 8	7170.0 4	3670.0 4	1780.0 8	1240.0 5	848.0 5	630.0 6	506.0 6	393.0 7	259.0 6
1966	2970.0 21	1740.0 20	1510.0 18	1110.0 18	640.0 16	470.0 14	350.0 15	288.0 16	278.0 13	156.0 13
1967	4840.0 13	4370.0 10	3260.0 5	2210.0 2	1370.0 2	748.0 8	638.0 5	499.0 7	341.0 9	175.0 12
1968	3780.0 17	2650.0 17	1730.0 15	1020.0 19	590.0 18	329.0 20	236.0 20	216.0 19	161.0 19	99.4 19
1969	2800.0 22	1350.0 23	745.0 23	640.0 20	488.0 20	336.0 19	340.0 16	320.0 14	259.0 15	146.0 16
1970	4450.0 15	2830.0 16	1780.0 14	1130.0 15	573.0 19	360.0 17	258.0 19	216.0 20	231.0 17	150.0 14
1971	4760.0 14	3670.0 13	1790.0 13	1270.0 13	792.0 13	434.0 16	306.0 17	257.0 17	253.0 16	141.0 17



STATION NUMBER 05489000

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

CEDAR CREEK NEAR BJSSEY, IOWA

CLASS	NUMBER OF DAYS IN CLASS																																		CFS_DAYS			
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33		34		
1948				1	1	4	21	8	31	26	41	38	26	17	19	27	20	22	12	7	10	6	3	5	4	6	3	3	3	1				1			53665.0	
1949						1		2	9	19	30	34	20	21	17	30	49	20	21	18	13	6	11	9	11	8	3	6	4	1	2						80182.6	
1950										25	46	46	25	23	10	19	28	31	20	27	21	10	5	7	5	5	3	5	1	2					1		67665.3	
1951					6	27	4	14	39	20	20	21	11	12	14	12	12	8	6	16	25	20	12	22	12	11	4	11	3	1	2						99213.1	
1952									5	11	7	15	13	15	32	31	37	43	46	29	14	13	20	12	10	5	1	4	1			1	1				97596.7	
1953			14	5	3	1	1	17	18	26	28	4	5	7	8	28	23	23	30	31	28	18	13	10	6	6	5	1	3	2	1						66822.4	
1954				2	30	45	59	39	56	19	16	15	16	9	13	11	7	6	4	1	3	6	2	4			1	1									10902.2	
1955	15	2	4		8	8	11	20	50	46	26	15	12	10	7	21	26	20	19	15	5	6	6	5	3	2	1	1	1							23853.9		
1956		42	74	42	40	35	17	6	13	19	12	13	12	5	7	4	3	2	4	1	4	1	2	1	3	1	2										12674.9	
1957	2	32	21	9	27	30	26	8	14	12	21	23	13	18	10	14	17	14	8	13	5	12	4	4	2	1	1	3	1								23915.3	
1958					12	2	5	7	8	24	28	22	41	26	38	36	24	18	16	16	7	9	3	4	8	5	2	1	1	1				1			67640.8	
1959								9	10	8	5	10	47	65	39	18	16	12	21	14	16	11	18	13	7	7	4	6	6	3								118695.1
1960								6	9	15	12	10	17	29	28	28	46	53	30	16	18	7	11	9	3	5	5	3	3	2	1					2	1	147797.3
1961									10	18	11	20	50	35	27	35	13	19	23	29	17	15	10	9	7	2	3	3	4	3						2		89542.4
1962										12	7	15	10	7	12	21	23	48	59	37	33	20	18	8	10	7	6	5	1	2	4							144573.6
1963							1	11	9	12	16	19	30	40	23	27	33	25	28	24	15	12	8	10	9	7	4		1	1							47777.9	
1964							7	29	33	17	22	40	38	45	18	20	17	16	20	13	10	4	1	2	1	3	1	2	4	2	1							30371.6
1965									23	16	51	31	24	20	14	11	12	21	24	13	22	19	10	9	7	13	6	6	3	4	4					2		94573.6
1966								7	19	6	7	20	18	11	44	52	37	42	32	15	11	13	8	7	7	3	5	1										56857.4
1967							4	12	25	55	33	17	23	17	18	24	24	19	16	19	14	9	5	8	2	8	5	1	2	5								63943.9
1968							9	11	26	17	25	15	14	20	27	28	49	34	24	23	8	13	6	3	6	5		1	1	1								36366.2
1969							3	9	25	20	26	10	14	18	10	20	21	18	43	34	29	24	15	7	6	6	2	3	2									53363.5
1970									9	21	16	36	55	41	37	33	18	37	15	13	4	8	6	4	4	4	5	2	1									54851.0
1971								6	10	6	18	17	6	6	16	16	8	28	59	42	37	32	21	10	11	4	4	1		2	1	4						51331.9

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	17	8766	100.0	9	2.60	472	7390	84.3	18	66.0	548	2800	31.9	27	1700	76	203	2.3
1	0.10	76	8749	99.8	10	3.70	507	6918	78.9	19	95.0	586	2252	25.7	28	2500	58	127	1.4
2	0.20	113	8673	98.9	11	5.30	448	6411	73.1	20	140.0	397	1666	19.0	29	3500	39	69	.7
3	0.30	59	8560	97.7	12	7.60	462	5963	68.0	21	200.0	289	1269	14.5	30	5000	14	30	.3
4	0.40	115	8501	97.0	13	11.00	475	5501	62.8	22	280.0	212	980	11.2	31	7200	8	16	.1
5	0.60	176	8386	95.7	14	16.00	445	5026	57.3	23	400.0	198	768	8.8	32	10000	7	8	.0
6	0.90	197	8210	93.7	15	22.00	592	4581	52.3	24	580.0	157	570	6.5	33	15000	1	1	.0
7	1.30	224	8013	91.4	16	32.00	644	3989	45.5	25	830.0	131	413	4.7	34				
8	1.80	399	7789	88.9	17	46.00	545	3345	38.2	26	1200.0	79	282	3.2					



## STATION NUMBER 05489500

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## DES MOINES RIVER AT OTTUMWA, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1918	100.00 13	100.00 6	100.00 3	100.00 2	103.00 2	153.00 3	246.00 4	312.00 4	623.00 13	4770.00 31
1919	525.00 42	558.00 42	596.00 38	619.00 36	677.00 31	1010.00 36	1250.00 37	1400.00 35	1630.00 30	4030.00 26
1920	525.00 43	525.00 40	615.00 41	755.00 45	1020.00 47	1560.00 49	1810.00 45	2440.00 47	2720.00 41	7860.00 47
1921	790.00 51	790.00 51	790.00 51	1160.00 51	1750.00 53	2120.00 52	2600.00 50	2630.00 49	3200.00 46	6470.00 44
1922	560.00 45	600.00 45	630.00 43	704.00 41	1030.00 48	1160.00 43	1300.00 39	1610.00 40	2960.00 44	4570.00 39
1923	405.00 36	405.00 29	420.00 27	479.00 27	602.00 28	713.00 27	757.00 24	1110.00 25	1310.00 25	3840.00 25
1924	560.00 46	590.00 44	624.00 42	637.00 37	644.00 29	943.00 32	1200.00 35	1590.00 38	2470.00 38	3700.00 23
1925	350.00 27	350.00 25	357.00 24	379.00 22	393.00 19	453.00 19	625.00 20	793.00 21	1270.00 23	3640.00 22
1926	400.00 34	447.00 33	460.00 29	482.00 28	529.00 25	796.00 29	1010.00 28	1230.00 28	1280.00 24	2180.00 8
1927	405.00 37	490.00 35	517.00 32	602.00 34	695.00 33	990.00 34	2160.00 49	1960.00 44	4040.00 51	4300.00 27
1928	150.00 17	150.00 14	150.00 11	167.00 10	228.00 11	261.00 9	398.00 12	581.00 18	809.00 16	4400.00 28
1929	1270.00 54	1300.00 54	1300.00 54	1310.00 52	1400.00 51	1770.00 51	3050.00 53	3290.00 50	3620.00 49	5620.00 38
1930	400.00 35	400.00 28	400.00 26	407.00 23	490.00 24	585.00 22	689.00 21	729.00 20	730.00 15	3580.00 20
1931	163.00 20	190.00 18	190.00 17	191.00 12	199.00 9	243.00 8	279.00 6	324.00 8	350.00 4	1620.00 4
1932	89.00 11	108.00 10	171.00 12	215.00 15	404.00 20	542.00 20	756.00 23	1020.00 24	1260.00 22	5490.00 36
1933	370.00 31	370.00 26	370.00 25	417.00 26	763.00 37	1010.00 37	980.00 27	1290.00 31	1580.00 28	3770.00 24
1934	64.00 5	85.00 4	104.00 5	135.00 7	154.00 5	215.00 6	247.00 5	313.00 5	403.00 6	1970.00 7
1935	46.00 3	62.30 3	99.10 2	112.00 3	164.00 6	336.00 14	401.00 13	408.00 10	504.00 8	1670.00 5
1936	397.00 33	497.00 37	512.00 31	544.00 31	876.00 42	1040.00 39	1210.00 36	1760.00 42	1590.00 29	6060.00 42
1937	80.00 9	100.00 7	121.00 9	183.00 11	253.00 14	332.00 13	445.00 16	514.00 16	844.00 19	2930.00 13
1938	75.00 7	100.00 8	116.00 8	135.00 8	175.00 7	204.00 5	294.00 7	322.00 7	552.00 9	2680.00 10
1939	350.00 28	433.00 31	614.00 40	798.00 46	952.00 44	997.00 35	1180.00 33	1580.00 37	3500.00 48	5250.00 32
1940	30.00 1	30.00 1	45.70 1	48.60 1	63.30 1	92.20 1	126.00 1	151.00 1	198.00 1	1460.00 2
1941	80.00 8	120.00 11	180.00 14	248.00 18	453.00 21	599.00 24	1070.00 31	1270.00 30	1880.00 33	2340.00 9
1942	286.00 25	390.00 27	454.00 28	672.00 38	841.00 41	1270.00 44	2100.00 48	3440.00 52	3810.00 50	5990.00 41
1943	414.00 38	492.00 36	748.00 49	898.00 49	982.00 46	1440.00 47	1570.00 43	1950.00 43	2900.00 43	5640.00 39
1944	523.00 41	618.00 46	679.00 47	727.00 43	835.00 40	1150.00 42	1310.00 40	1350.00 33	1870.00 31	5390.00 34
1945	649.00 49	698.00 49	719.00 48	755.00 44	796.00 39	873.00 30	1060.00 30	1160.00 27	1960.00 35	9740.00 52
1946	355.00 30	505.00 38	541.00 35	552.00 33	682.00 32	1040.00 40	1050.00 29	1400.00 34	2870.00 42	9260.00 51
1947	381.00 32	449.00 34	589.00 37	927.00 50	1330.00 50	1490.00 48	2080.00 47	2430.00 46	3050.00 45	5590.00 37
1948	230.00 23	287.00 21	317.00 21	334.00 21	473.00 22	682.00 26	839.00 25	935.00 22	911.00 20	10500.00 53
1949	145.00 16	245.00 20	274.00 20	277.00 20	299.00 16	404.00 18	526.00 18	572.00 17	820.00 18	3390.00 18
1950	104.00 14	163.00 16	182.00 15	208.00 14	347.00 18	358.00 16	376.00 11	417.00 11	557.00 10	3020.00 14
1951	140.00 15	140.00 13	177.00 13	201.00 13	257.00 15	262.00 10	309.00 9	431.00 12	641.00 14	3390.00 19
1952	910.00 52	1060.00 52	1270.00 53	1540.00 54	1820.00 54	2290.00 53	2900.00 51	3350.00 51	4430.00 52	12100.00 54
1953	352.00 29	430.00 30	536.00 34	550.00 32	569.00 27	674.00 25	1180.00 34	1140.00 26	1560.00 27	6080.00 43
1954	88.00 10	127.00 12	142.00 10	157.00 9	185.00 8	236.00 7	306.00 8	317.00 6	394.00 5	3320.00 17
1955	600.00 47	633.00 48	667.00 45	673.00 39	728.00 34	1110.00 41	1450.00 42	2100.00 45	3210.00 47	5310.00 33



STATION NUMBER 05489500

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

DES MOINES RIVER AT OTTUMWA, IOWA

YEAR	1	2	3	4	7	8	14	15	30	31	60	61	90	91	120	121	183	184	ANNUAL	ANNUAL RANKING
1956	44.00	2	54.30	2	103.00	4	119.00	4	136.00	3	139.00	2	149.00	2	169.00	2	237.00	2	1570.00	3
1957	64.00	6	97.70	5	115.00	7	130.00	6	139.00	4	158.00	4	189.00	3	205.00	3	248.00	3	574.00	1
1958	156.00	18	310.00	22	349.00	23	414.00	25	473.00	23	590.00	23	622.00	19	720.00	19	813.00	17	1920.00	6
1959	163.00	21	220.00	19	220.00	18	228.00	16	238.00	12	272.00	11	478.00	17	511.00	15	1030.00	21	3590.00	21
1960	603.00	48	618.00	47	638.00	44	698.00	40	1040.00	49	1420.00	46	1640.00	44	1600.00	39	1930.00	34	5400.00	35
1961	230.00	24	437.00	32	501.00	30	506.00	29	542.00	26	565.00	21	724.00	22	954.00	23	1450.00	26	8150.00	43
1962	1070.00	53	1150.00	53	1260.00	52	1400.00	53	1740.00	52	2700.00	54	3480.00	54	4100.00	54	4790.00	54	7310.00	45
1963	183.00	22	334.00	24	526.00	33	537.00	30	663.00	30	742.00	28	975.00	26	1240.00	29	2670.00	40	7600.00	46
1964	52.00	4	153.00	15	261.00	19	271.00	19	319.00	17	383.00	17	442.00	15	509.00	14	609.00	12	2790.00	11
1965	460.00	39	528.00	41	675.00	46	834.00	47	900.00	43	924.00	31	1090.00	32	1330.00	32	2220.00	36	4510.00	29
1966	680.00	50	706.00	50	788.00	50	834.00	48	967.00	45	1600.00	50	3000.00	52	3540.00	53	4780.00	53	8640.00	49
1967	160.00	19	170.00	17	189.00	16	231.00	17	253.00	13	320.00	12	361.00	10	374.00	9	422.00	7	3200.00	15
1968	100.00	12	103.00	9	112.00	6	129.00	5	221.00	10	357.00	15	431.00	14	449.00	13	572.00	11	3270.00	16
1969	536.00	44	569.00	43	606.00	39	711.00	42	740.00	35	963.00	33	1310.00	41	1730.00	41	1870.00	32	2870.00	12
1970	500.00	40	520.00	39	550.00	36	609.00	35	795.00	38	1030.00	38	1260.00	38	1470.00	36	2240.00	37	8940.00	50
1971	322.00	26	333.00	23	342.00	22	408.00	24	759.00	36	1340.00	45	2010.00	46	2460.00	48	2620.00	39	5740.00	40



## STATION NUMBER 05489500

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## DES MOINES RIVER AT OTTUMWA, IOWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1918	42900.0 15	40800.0 14	34600.0 12	24900.0 17	17700.0 22	10300.0 29	7310.0 37	6000.0 40	4590.0 41	2640.0 45
1919	44700.0 13	41200.0 12	33900.0 13	28500.0 13	24500.0 11	19800.0 9	18300.0 8	17200.0 9	12700.0 9	7240.0 13
1920	35300.0 23	33800.0 25	27000.0 28	22800.0 23	19100.0 19	17100.0 14	15400.0 11	13300.0 12	11500.0 11	7360.0 12
1921	31200.0 31	27400.0 34	24200.0 34	17300.0 35	10800.0 39	8330.0 39	7320.0 36	6610.0 36	6180.0 32	4700.0 24
1922	26100.0 40	25300.0 40	21200.0 40	16800.0 37	11700.0 37	9440.0 34	8690.0 30	7510.0 33	6300.0 31	4160.0 26
1923	26900.0 39	26400.0 38	22300.0 36	15600.0 41	10500.0 42	7230.0 43	6050.0 42	5430.0 41	4240.0 43	2870.0 44
1924	37600.0 19	36500.0 18	27700.0 26	18100.0 32	13800.0 31	9330.0 35	7690.0 34	8090.0 29	7200.0 24	4930.0 22
1925	13900.0 49	11400.0 51	9690.0 49	8400.0 47	6220.0 49	4270.0 50	3320.0 49	3000.0 49	2620.0 48	1730.0 48
1926	35300.0 24	34000.0 24	28800.0 22	20600.0 27	14300.0 28	7860.0 42	5560.0 43	5420.0 42	4040.0 44	3110.0 39
1927	37200.0 20	34100.0 23	28500.0 23	23100.0 21	17700.0 20	14900.0 16	12700.0 17	11200.0 18	8790.0 20	5740.0 17
1928	18800.0 46	16600.0 47	11800.0 47	7170.0 49	5720.0 50	5060.0 47	4740.0 47	4150.0 47	4010.0 45	2900.0 43
1929	46700.0 12	45700.0 10	44200.0 6	35000.0 9	23700.0 12	20200.0 8	16500.0 10	13600.0 11	10100.0 14	6580.0 14
1930	27700.0 38	25900.0 39	18600.0 41	11400.0 45	8020.0 45	6680.0 44	5170.0 46	4390.0 46	3580.0 47	2120.0 47
1931	10800.0 52	8200.0 52	5800.0 52	3100.0 52	2400.0 52	1640.0 52	1450.0 52	1420.0 52	1260.0 52	806.0 52
1932	35100.0 25	34400.0 22	30500.0 20	20900.0 26	15000.0 26	13800.0 20	11900.0 18	12100.0 14	10600.0 12	7780.0 9
1933	35000.0 26	32300.0 27	27200.0 27	19800.0 28	12300.0 35	8740.0 37	6490.0 41	5330.0 44	4260.0 42	2610.0 46
1934	4840.0 54	4390.0 54	3680.0 53	2760.0 54	1880.0 54	1170.0 54	1060.0 53	957.0 54	828.0 54	578.0 53
1935	51300.0 7	48100.0 8	39700.0 10	35600.0 8	25100.0 9	17000.0 15	13000.0 15	10300.0 20	8840.0 19	4950.0 21
1936	27800.0 37	27100.0 35	24900.0 32	24000.0 19	19700.0 17	12800.0 21	9880.0 26	8430.0 28	5930.0 34	3720.0 31
1937	47500.0 11	40300.0 15	33100.0 14	21100.0 25	14000.0 29	9620.0 33	8750.0 29	8460.0 27	6690.0 27	3760.0 30
1938	24900.0 42	24200.0 41	21900.0 37	17600.0 34	10800.0 40	7930.0 41	6890.0 40	6680.0 35	6310.0 30	3710.0 32
1939	39200.0 18	36700.0 17	32500.0 17	24000.0 20	15700.0 25	10100.0 30	7420.0 35	6230.0 37	4860.0 38	3320.0 36
1940	12800.0 50	11800.0 49	9650.0 50	6780.0 50	6420.0 48	4370.0 49	3100.0 50	2660.0 50	2450.0 50	1380.0 50
1941	22500.0 43	19100.0 44	15200.0 45	12600.0 44	9420.0 43	6020.0 45	5510.0 44	5400.0 43	4620.0 40	3110.0 40
1942	28400.0 36	26600.0 37	21400.0 39	16900.0 36	13200.0 33	10800.0 27	10100.0 24	9210.0 23	8710.0 21	7930.0 8
1943	30100.0 33	27700.0 33	21900.0 38	15900.0 38	13300.0 32	12300.0 24	11300.0 19	10500.0 19	9020.0 16	6020.0 16
1944	69400.0 4	66800.0 4	61000.0 4	45400.0 4	38700.0 2	30100.0 2	24700.0 3	20200.0 4	15200.0 5	8490.0 6
1945	41100.0 17	37900.0 16	31500.0 19	29400.0 10	27200.0 7	23400.0 7	22000.0 5	20400.0 3	15700.0 4	8860.0 5
1946	43700.0 14	41100.0 13	32900.0 15	23000.0 22	17400.0 23	12700.0 22	10900.0 20	12000.0 15	10400.0 13	6550.0 15
1947	126000.0 1	93300.0 1	64900.0 3	60400.0 1	55300.0 1	36900.0 1	29600.0 1	25700.0 1	18400.0 2	10400.0 1
1948	51000.0 8	45300.0 11	36200.0 11	25800.0 15	17700.0 21	12100.0 25	9830.0 27	7840.0 31	5850.0 35	3350.0 35
1949	29300.0 34	28800.0 31	26500.0 29	19700.0 29	16900.0 24	14000.0 18	10800.0 21	8970.0 24	6900.0 25	3880.0 28
1950	32000.0 28	27000.0 36	24700.0 33	18500.0 31	12000.0 36	10500.0 28	8080.0 32	7910.0 30	6490.0 29	3560.0 34
1951	53400.0 6	49400.0 6	43500.0 9	41800.0 5	32500.0 5	29100.0 3	26200.0 2	24300.0 2	18700.0 1	10100.0 2
1952	41500.0 16	36400.0 19	25600.0 31	22200.0 24	21100.0 15	17300.0 13	14500.0 12	14100.0 10	12000.0 10	7550.0 11
1953	29000.0 35	28500.0 32	23400.0 35	15800.0 39	12700.0 34	9690.0 31	9590.0 28	9370.0 22	7780.0 22	4540.0 25
1954	67000.0 5	55400.0 5	44000.0 7	28600.0 12	19700.0 16	12600.0 23	10800.0 22	9430.0 21	7210.0 23	3840.0 29
1955	12600.0 51	11500.0 50	10500.0 48	8310.0 48	6930.0 46	5350.0 46	5430.0 45	4830.0 45	3980.0 46	3140.0 38



## STATION NUMBER 05489500

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## DES MOINES RIVER AT OTTUMWA, IOWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1956	7250.0 53	5670.0 53	3480.0 54	2850.0 53	1890.0 53	1310.0 53	1060.0 54	1010.0 53	897.0 53	572.0 54
1957	21000.0 45	20100.0 43	14400.0 46	9230.0 46	6500.0 47	4960.0 48	3880.0 48	3470.0 48	2550.0 49	1410.0 49
1958	33100.0 27	32700.0 26	28500.0 24	17700.0 33	14500.0 27	9650.0 32	7230.0 38	6080.0 39	4810.0 39	2990.0 41
1959	37200.0 21	35900.0 20	32500.0 16	25800.0 16	19600.0 18	14000.0 19	12800.0 16	11600.0 17	8870.0 18	4850.0 23
1960	70500.0 3	68400.0 3	66900.0 2	49100.0 3	32000.0 6	25200.0 5	21400.0 6	17700.0 7	13000.0 8	7670.0 10
1961	36300.0 22	35000.0 21	31700.0 18	26500.0 14	22900.0 13	17600.0 12	14000.0 13	12300.0 13	9260.0 15	5520.0 19
1962	50400.0 9	48400.0 7	44400.0 5	39100.0 6	34600.0 4	24100.0 6	20800.0 7	17600.0 8	14400.0 6	10100.0 3
1963	21400.0 44	18700.0 45	17200.0 43	13100.0 43	11300.0 38	8380.0 38	8550.0 31	7680.0 32	6500.0 28	4080.0 27
1964	25100.0 41	23400.0 42	18100.0 42	13500.0 42	9140.0 44	8080.0 40	7170.0 39	6160.0 38	5290.0 37	2350.0 42
1965	77600.0 2	76300.0 2	68300.0 1	53400.0 2	38000.0 3	26100.0 4	22100.0 4	18500.0 5	13500.0 7	8140.0 7
1966	31400.0 29	30500.0 28	26500.0 30	18800.0 30	13800.0 30	11700.0 26	9890.0 25	8830.0 25	6850.0 26	5280.0 20
1967	48300.0 10	47600.0 9	43800.0 8	37900.0 7	25900.0 8	14800.0 17	10400.0 23	8540.0 26	6080.0 33	3270.0 37
1968	18200.0 47	13400.0 48	8330.0 51	5540.0 51	3670.0 51	2620.0 51	2570.0 51	2410.0 51	1870.0 51	1220.0 51
1969	31100.0 32	29400.0 30	28900.0 21	28700.0 11	24600.0 10	18400.0 10	18100.0 9	17700.0 6	16300.0 3	9700.0 4
1970	17000.0 48	16900.0 46	16700.0 44	15600.0 40	10700.0 41	8940.0 36	8070.0 33	7220.0 34	5450.0 36	3610.0 33
1971	31300.0 30	29600.0 29	27900.0 25	24300.0 18	21200.0 14	17600.0 11	13300.0 14	11900.0 16	8960.0 17	5590.0 18



STATION NUMBER 05489500

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

DES MOINES RIVER AT OTTUMWA, IOWA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	CFS_DAYS
YEAR	NUMBER OF DAYS IN CLASS																																			
1918						20	10	15		19		28	31	20	28	41	23	34	39	13	9	3	6	5	2	7	2	2	4	4					963990.0	
1919													6	29	10	23	24	40	52	23	18	14	15	24	11	11	35	10	12	7	1				2644105.0	
1920															16	31	35	45	20	36	27	30	34	21	22	26	9	11	3					2695150.0		
1921															8	8	37	35	52	52	54	33	32	22	10	10	7	3	2					1716120.0		
1922													1	12	17	23	68	36	48	23	29	29	26	25	7	8	5	7	1					1519485.0		
1923												7	12	49	41	14	43	34	47	30	35	21	12	9	2	2	3	2	2					1046995.0		
1924													2	28	5	9	41	34	62	30	26	34	29	19	19	12	7	5	1	3				1804640.0		
1925												11	31	48	21	28	49	53	27	43	21	13	5	5	5	3	2							648625.0		
1926													2	53	25	50	47	47	22	23	23	28	11	9	8	6	5	3	4	5	1				1133420.0	
1927													8	12	13	30	64	7	32	24	12	29	35	25	29	20	15	5	4	1				2093795.0		
1928								16	19	17	4	4	4	16	26	6	29	10	62	39	39	38	14	15	4	3	1								1059975.0	
1929													1	27	19	11	74	18	20	17	11	32	30	22	21	31	9	10	2	6	4				2403090.0	
1930									6	5	11	43	40	58	31	29	22	21	25	19	9	13	14	10	4	1		2	2						773165.0	
1931						2	1	1	54	49	64	57	31	16	25	21	17	5	8	3	8	4	3	2	1										294190.0	
1932															9	15	25	16	29	8	32	31	66	39	27	32	17	9	9	2					2849714.0	
1933					1						6	22	19	46	48	36	54	31	21	19	19	9	8	10	5	1	4	2	3	1					951455.0	
1934			1	2	7	16	13	9	28	53	54	41	41	24	29	18	10	5	8	2	2	2														210902.0
1935									1	14	12	6	5	19	20	36	30	21	21	39	21	19	26	16	13	11	8	7	3	10	3	4			1805379.0	
1936					1	2	1	2	4	16	15	10	19	8	23	53	35	20	27	24	29	25	9	7	4	9	9	11	3						1361482.0	
1937					1	1	3	3	8	14	15	25	27	35	17	19	19	13	14	15	23	36	29	20	13	6	1	2	4	1	1				1373019.0	
1938					1	7	11	8	9	17	15	32	17	9	6	20	10	4	19	32	35	32	22	33	8	10	3	5							1354934.0	
1939						3		1	2	4	5	10	11	14	23	48	48	37	37	26	41	15	15	5	4	6	2	1	4	3					1211009.0	
1940		10	15	8	7	11	9	18	42	30	12	5	7	18	17	29	32	23	29	11	8	9	4	8	3	1									505765.0	
1941									3	6	13	25	24	11	21	33	33	51	30	31	40	20	7	7	8	1	1								1134354.0	
1942															2	8	25	38	69	69	57	41	33	16	5	2										2894510.0
1943													2		2	28	22	7	14	35	23	44	34	43	40	30	27	9	3	2					2196121.0	
1944													3	17	17	35	24	41	29	19	13	30	35	17	8	19	16	9	13	11	5	5			3108304.0	
1945															20	35	32	34	15	16	8	15	26	21	18	25	26	23	20	23	8				3233339.0	
1946											1	1	22	5	26	22	20	23	27	24	35	30	27	20	21	26	15	7	7	6					2390849.0	
1947												2	8	7	18	26	27	21	34	32	29	16	29	24	16	12	9	6	21	8	7	9	2	1	1	3805856.0
1948										2	3	13	17	35	24	39	57	35	25	20	11	20	19	18	10	8	4	3	3	4	2	1			1225691.0	
1949								1	1	7	31	11	33	33	30	25	25	20	23	21	19	12	10	20	9	14	11	5	4						1417813.0	
1950																																			1298989.0	
1951									7	11	23	25	13	14	16	7	7	19	7	6	2	11	23	22	16	27	26	21	14	17	23	8				3683440.0
1952													1		10	8	18	14	29	44	43	50	30	22	23	24	31	9	8	2					2764809.0	
1953													3	4	39	33	32	27	18	11	15	16	17	32	44	33	18	11	4	4	4				1656163.0	
1954																																			1401921.0	
1955						4	5	2	13	24	41	41	27	12	3	9	21	35	28	15	10	12	14	10	9	7	7	9	2	1	2	2			1146093.0	
1955																																				



STATION NUMBER 05489500

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

DES MOINES RIVER AT OTTUMWA, IOWA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	CFS_DAYS
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS	
1956			2	3	10	36	12	13	29	39	24	40	54	36	17	24	9	7	5	1	3			2												209173.0
1957				1	11	15	21	49	17	26	22	26	32	24	20	12	12	19	19	19	8	5	2	1			3	1							515641.0	
1958							1			12	8	30	19	33	43	56	37	37	18	12	10	18	13	6	3	2	1	6							1090656.0	
1959							1		42	15	10	31	25	23	11	21	14	14	21	18	18	27	14	17	16	10	6	9	2						1771396.0	
1960														14	30	67	36	30	37	19	12	18	15	28	18	11	4	10	9	1	7			2806151.0		
1961								1	1	3	47	11	9	35	30	26	35	15	23	31	16	15	18	12	15	9	11	2							2015383.0	
1962														5	15	23	41	42	45	33	30	33	35	18	14	13	14	4							3676430.0	
1963							2				16	17	35	20	33	26	39	21	43	40	18	19	10	14	11	1									1489569.0	
1964			1		1				15	16	16	40	45	51	2	19	9	27	18	18	19	32	17	9	6	3	2								1079363.0	
1965											1	2	19	42	38	39	11	21	16	20	26	15	24	15	17	22	11	9	7	4	3	3			2970593.0	
1966											1	11	11	5	6	17	20	16	37	38	51	41	37	28	18	10	10	3	5						1926184.0	
1967							2	6	18	29	62	40	21	22	23	31	21	25	11	14	7	5	2	2	3	6		4	7	4					1195167.0	
1968				2	8	3	3	9	22	23	64	48	62	34	31	21	8	8	5	6	2	5		1	1										447422.0	
1969												1	20	40	20	37	20	25	24	13	11	11	10	106			3	24							3541627.0	
1970										6	4	13	10	17	69	41	19	38	26	22	31	25	13	11	11	9									1318822.0	
1971			1						2	9	9	13	17	16	25	32	5	31	24	45	29	24	21	13	14	14	15	6							2039929.0	

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	19723	100.0	9	220.00	470	18994	96.3	18	2100.0	1596	10011	50.8	27	21000	262	765	3.8
1	30.00	10	19723	100.0	10	290.00	533	18524	93.9	19	2800.0	1146	8415	42.7	28	26000	287	503	2.5
2	39.00	18	19713	99.9	11	370.00	682	17991	91.2	20	3500.0	1302	7269	36.9	29	34000	137	216	1.0
3	50.00	15	19695	99.9	12	470.00	1035	17309	87.8	21	4500.0	1280	5967	30.3	30	44000	46	79	.4
4	64.00	29	19680	99.8	13	610.00	1032	16274	82.5	22	5800.0	1150	4687	23.8	31	56000	26	33	.1
5	82.00	117	19651	99.6	14	780.00	1167	15242	77.3	23	7500.0	910	3537	17.9	32	72000	5	7	.0
6	110.00	90	19534	99.0	15	1000.00	1313	14075	71.4	24	9700.0	664	2627	13.3	33	93000	1	2	.0
7	140.00	129	19444	98.6	16	1300.00	1606	12762	64.7	25	12000.0	625	1963	10.0	34	120000	1	1	
8	170.00	321	19315	97.9	17	1700.00	1145	11156	56.6	26	16000.0	573	1338	6.8					



STATION NUMBER 05490500

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

DES MOINES RIVER AT KEOSAUQUA, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
	320.00 28	320.00 23	320.00 22	331.00 21	359.00 19	428.00 18	503.00 16	602.00 18	1190.00 24	5050.00 35
1905										
1906	1550.00 61	1630.00 61	1790.00 61	2040.00 61	2440.00 60	3290.00 60	3940.00 60	4300.00 60	4620.00 56	7790.00 51
1913	630.00 51	630.00 49	630.00 45	630.00 40	633.00 33	681.00 27	722.00 23	897.00 24	1330.00 25	4090.00 26
1914	520.00 45	520.00 39	559.00 39	583.00 34	606.00 30	744.00 30	781.00 26	805.00 22	864.00 17	3610.00 16
1915	588.00 49	620.00 48	620.00 42	622.00 38	674.00 34	901.00 34	1170.00 35	2000.00 46	3280.00 50	5720.00 37
1916	1460.00 60	1490.00 60	1490.00 60	1600.00 59	2440.00 61	3670.00 61	4470.00 61	5330.00 61	7560.00 61	12100.00 60
1917	295.00 25	295.00 21	300.00 20	300.00 20	337.00 18	360.00 14	401.00 12	491.00 13	498.00 8	4070.00 25
1918	130.00 15	130.00 12	130.00 7	130.00 3	130.00 3	164.00 4	241.00 4	316.00 4	644.00 13	4970.00 33
1919	448.00 36	478.00 36	523.00 33	563.00 32	621.00 32	1070.00 41	1480.00 46	1660.00 39	1830.00 32	4310.00 28
1920	510.00 44	573.00 45	627.00 44	721.00 42	1020.00 49	1650.00 54	1910.00 50	2660.00 53	3030.00 44	8200.00 53
1921	750.00 55	750.00 54	824.00 55	1200.00 56	1740.00 57	2170.00 57	2640.00 55	2600.00 52	3190.00 46	6570.00 49
1922	600.00 50	633.00 50	714.00 50	764.00 46	1130.00 53	1260.00 47	1420.00 44	1760.00 45	3250.00 49	4890.00 32
1923	300.00 26	400.00 26	470.00 26	464.00 28	612.00 31	741.00 29	776.00 25	1210.00 29	1340.00 26	4010.00 24
1924	400.00 32	417.00 29	443.00 29	607.00 36	692.00 35	897.00 33	1180.00 36	1600.00 37	2490.00 42	3810.00 21
1925	425.00 35	425.00 30	429.00 28	445.00 26	448.00 22	509.00 21	705.00 22	879.00 23	1390.00 27	3940.00 22
1926	335.00 29	335.00 24	350.00 24	459.00 27	513.00 26	985.00 36	1470.00 45	1610.00 38	1650.00 30	2550.00 9
1927	570.00 47	580.00 46	604.00 41	795.00 49	892.00 44	1140.00 43	2600.00 54	2270.00 49	4920.00 58	5030.00 34
1928	125.00 13	127.00 10	139.00 8	179.00 9	231.00 11	270.00 8	384.00 10	610.00 19	904.00 18	4750.00 30
1929	920.00 57	973.00 57	1200.00 57	1250.00 57	1340.00 54	1720.00 55	3420.00 58	3800.00 58	3990.00 54	5940.00 40
1930	300.00 27	400.00 27	400.00 27	407.00 24	440.00 21	549.00 22	843.00 27	972.00 25	994.00 21	4130.00 27
1931	122.00 11	129.00 11	163.00 11	187.00 11	201.00 8	270.00 9	316.00 7	342.00 6	362.00 4	1760.00 4
1932	115.00 10	138.00 13	210.00 15	225.00 15	487.00 24	664.00 25	1140.00 33	1700.00 41	1920.00 35	6310.00 44
1933	400.00 33	400.00 28	446.00 30	539.00 31	828.00 42	1170.00 44	1130.00 31	1540.00 35	1840.00 33	4500.00 29
1934	80.00 6	90.00 3	113.00 3	153.00 8	181.00 5	242.00 6	282.00 5	354.00 7	444.00 5	2170.00 7
1935	72.00 3	77.30 2	141.00 9	149.00 7	188.00 7	375.00 15	445.00 14	457.00 12	527.00 9	1740.00 3
1936	340.00 30	457.00 34	494.00 31	516.00 30	813.00 39	988.00 37	1160.00 34	1740.00 44	1610.00 29	6430.00 47
1937	108.00 8	115.00 7	161.00 10	213.00 14	237.00 12	322.00 12	515.00 17	590.00 16	976.00 20	3270.00 13
1938	100.00 7	120.00 8	124.00 6	132.00 4	186.00 6	209.00 5	296.00 6	324.00 5	562.00 10	2860.00 10
1939	500.00 39	539.00 41	713.00 48	915.00 53	1080.00 51	1120.00 42	1320.00 40	1710.00 42	3530.00 52	5360.00 36
1940	40.00 1	50.00 1	62.90 1	68.60 1	95.30 1	109.00 1	148.00 1	179.00 1	233.00 1	1560.00 2
1941	165.00 17	243.00 19	320.00 21	430.00 25	508.00 25	670.00 26	1140.00 32	1320.00 31	1960.00 36	2450.00 8
1942	420.00 34	460.00 35	524.00 34	781.00 47	907.00 45	1380.00 49	2240.00 52	3760.00 57	4060.00 55	6390.00 45
1943	500.00 40	567.00 43	784.00 53	988.00 54	1120.00 52	1730.00 56	1840.00 48	2190.00 48	3170.00 45	6040.00 42
1944	550.00 46	657.00 51	714.00 49	761.00 45	876.00 43	1200.00 45	1370.00 43	1410.00 34	1960.00 37	5930.00 39
1945	765.00 56	795.00 56	840.00 56	856.00 51	919.00 46	1040.00 40	1270.00 39	1370.00 32	2230.00 39	10700.00 58
1946	500.00 41	573.00 44	590.00 40	601.00 35	820.00 41	1220.00 46	1220.00 37	1740.00 43	3210.00 48	10200.00 57
1947	500.00 42	550.00 42	679.00 47	1030.00 55	1440.00 56	1590.00 53	2160.00 51	2540.00 51	3200.00 47	6030.00 41
1948	280.00 21	360.00 25	390.00 25	401.00 23	536.00 27	770.00 31	924.00 28	1050.00 27	1010.00 22	11300.00 59



STATION NUMBER 05490500

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

DES MOINES RIVER AT KEOSAUQUA, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1949	230.00 20	269.00 20	284.00 19	289.00 17	335.00 17	482.00 20	577.00 19	616.00 20	916.00 19	3660.00 18
1950	123.00 12	178.00 15	241.00 18	296.00 19	366.00 20	388.00 16	432.00 13	454.00 11	636.00 12	3370.00 15
1951	160.00 16	193.00 17	199.00 13	209.00 12	250.00 13	270.00 7	330.00 8	442.00 10	665.00 14	3750.00 20
1952	1040.00 58	1220.00 58	1400.00 59	1620.00 60	1940.00 59	2450.00 58	3170.00 57	3620.00 55	4690.00 57	13100.00 61
1953	380.00 31	443.00 32	545.00 36	567.00 33	597.00 29	721.00 28	1270.00 38	1200.00 28	1680.00 31	6550.00 48
1954	130.00 14	153.00 14	166.00 12	183.00 10	210.00 9	273.00 10	353.00 9	364.00 8	450.00 6	3670.00 19
1955	660.00 53	690.00 53	716.00 51	724.00 43	770.00 37	1330.00 48	1630.00 47	2360.00 50	3680.00 53	5730.00 38
1956	74.00 4	101.00 5	114.00 4	134.00 5	151.00 4	161.00 3	173.00 2	192.00 2	278.00 3	1780.00 5
1957	64.00 2	97.70 4	110.00 2	117.00 2	126.00 2	140.00 2	173.00 3	203.00 3	251.00 2	602.00 1
1958	238.00 23	303.00 22	324.00 23	389.00 22	475.00 23	582.00 23	623.00 21	718.00 21	831.00 15	2090.00 6
1959	200.00 19	200.00 18	204.00 14	211.00 13	217.00 10	275.00 11	583.00 20	595.00 17	1160.00 23	4010.00 23
1960	667.00 54	687.00 52	743.00 52	856.00 52	1350.00 55	1480.00 50	1900.00 49	2070.00 47	2470.00 41	6080.00 43
1961	284.00 22	454.00 33	499.00 32	507.00 29	543.00 28	585.00 24	775.00 24	1000.00 26	1520.00 28	8540.00 54
1962	1200.00 59	1220.00 59	1370.00 58	1450.00 58	1800.00 58	3020.00 59	3800.00 59	4240.00 59	5100.00 60	7770.00 50
1963	291.00 24	430.00 31	553.00 38	671.00 41	769.00 36	781.00 32	1040.00 29	1310.00 30	2840.00 43	7890.00 52
1964	80.00 5	123.00 9	236.00 17	291.00 18	328.00 16	401.00 17	469.00 15	529.00 14	621.00 11	2940.00 11
1965	470.00 37	503.00 37	624.00 43	788.00 48	919.00 47	938.00 35	1100.00 30	1370.00 33	2220.00 38	4770.00 31
1966	656.00 52	756.00 55	809.00 54	849.00 50	979.00 48	1520.00 52	2960.00 56	3700.00 56	4930.00 59	9010.00 55
1967	180.00 18	190.00 16	217.00 16	258.00 16	271.00 15	344.00 13	388.00 11	410.00 9	464.00 7	3280.00 14
1968	110.00 9	110.00 6	123.00 5	141.00 6	270.00 14	447.00 19	518.00 18	548.00 15	858.00 16	3630.00 17
1969	572.00 48	619.00 47	668.00 46	747.00 44	794.00 38	1000.00 38	1330.00 41	1680.00 40	1880.00 34	2970.00 12
1970	500.00 38	510.00 38	534.00 35	608.00 37	817.00 40	1010.00 39	1370.00 42	1570.00 36	2350.00 40	9200.00 56
1971	510.00 43	531.00 40	551.00 37	625.00 39	1060.00 50	1490.00 51	2350.00 53	2790.00 54	3310.00 51	6390.00 46



## STATION NUMBER 05490500

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## DES MOINES RIVER AT KEOSAUQUA, IOWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1904	43300.0 22	42400.0 18	36000.0 18	22200.0 32	17800.0 29	12700.0 32	11200.0 28	9630.0 31	7790.0 27	5740.0 22
1905	83800.0 2	56000.0 6	31700.0 25	20500.0 36	18600.0 26	14700.0 24	13000.0 22	12100.0 22	11000.0 15	6160.0 29
1912	54700.0 11	52900.0 11	47000.0 8	38500.0 10	25900.0 12	16900.0 18	12500.0 23	10300.0 27	7300.0 33	4360.0 34
1913	26200.0 48	26000.0 44	25600.0 40	23400.0 29	17700.0 31	13000.0 30	12400.0 24	10900.0 25	7570.0 32	4380.0 32
1914	31900.0 39	30900.0 38	24900.0 41	16000.0 48	9160.0 52	5580.0 54	4800.0 55	5050.0 53	4330.0 53	2770.0 54
1915	59200.0 9	53800.0 10	47400.0 7	39900.0 9	29200.0 8	23000.0 8	22600.0 7	18900.0 7	18100.0 3	11300.0 1
1916	42600.0 23	34900.0 28	26600.0 38	20400.0 37	16800.0 32	14300.0 26	14100.0 16	13300.0 15	10300.0 17	7420.0 15
1917	57800.0 10	54800.0 8	50200.0 5	42900.0 6	26900.0 9	18600.0 12	16500.0 12	14500.0 12	10300.0 18	5450.0 24
1918	40000.0 27	38400.0 26	33000.0 22	24000.0 27	18200.0 27	10800.0 38	7740.0 46	6470.0 48	4900.0 48	2360.0 53
1919	43700.0 21	39100.0 24	35700.0 19	29400.0 15	25500.0 13	20700.0 10	18700.0 9	17700.0 10	13100.0 10	7510.0 14
1920	44100.0 19	39300.0 23	30700.0 26	24500.0 25	19600.0 22	18000.0 16	16100.0 13	13900.0 14	11700.0 12	7650.0 13
1921	26900.0 44	23700.0 50	23200.0 44	17000.0 46	10800.0 47	9130.0 46	7970.0 44	7070.0 42	6550.0 38	4880.0 30
1922	26900.0 45	24800.0 47	21900.0 47	17600.0 43	12500.0 44	10100.0 41	9140.0 38	7960.0 40	6670.0 37	4450.0 31
1923	26200.0 49	25600.0 45	22100.0 46	15900.0 49	10700.0 48	7350.0 50	6140.0 51	5520.0 52	4320.0 54	2920.0 51
1924	40000.0 28	36400.0 27	29400.0 29	19300.0 38	14400.0 38	10000.0 42	8140.0 41	8600.0 37	7680.0 28	5240.0 28
1925	19800.0 55	13900.0 56	10900.0 57	9450.0 56	7290.0 55	4970.0 57	3800.0 57	3540.0 57	3010.0 56	2020.0 56
1926	34800.0 31	33400.0 33	28700.0 33	23800.0 28	17800.0 30	9690.0 44	6870.0 48	6590.0 44	4920.0 47	3760.0 41
1927	43700.0 20	40100.0 21	32800.0 23	25700.0 23	19400.0 23	16300.0 19	14000.0 19	12300.0 19	9530.0 21	6280.0 19
1928	19500.0 56	17900.0 55	12000.0 55	7000.0 57	5990.0 58	5510.0 55	5300.0 54	4650.0 55	4390.0 52	3160.0 49
1929	41800.0 25	41500.0 20	40600.0 14	33400.0 12	23300.0 15	20900.0 9	17000.0 11	14200.0 13	10600.0 16	7100.0 17
1930	28300.0 43	27200.0 43	20500.0 49	12600.0 53	8730.0 53	7120.0 51	5580.0 53	4840.0 54	4000.0 55	2400.0 55
1931	17800.0 57	11000.0 60	7710.0 60	5500.0 60	4620.0 59	2890.0 59	2510.0 60	2180.0 60	1920.0 60	1170.0 60
1932	34800.0 32	34200.0 29	31700.0 24	23000.0 30	16700.0 33	15500.0 20	13200.0 21	13100.0 17	11700.0 13	8880.0 8
1933	33300.0 37	31800.0 36	26900.0 37	20700.0 35	13100.0 43	9730.0 43	7230.0 47	5900.0 49	4780.0 50	2910.0 52
1934	8740.0 62	5480.0 62	3750.0 62	3120.0 62	1980.0 62	1260.0 62	1090.0 62	975.0 62	855.0 62	607.0 62
1935	53000.0 12	49400.0 13	40900.0 13	36100.0 11	26800.0 10	18600.0 13	14100.0 17	11200.0 24	9450.0 22	5290.0 27
1936	26600.0 46	25600.0 46	24700.0 42	24200.0 26	20100.0 21	13300.0 28	10200.0 34	8640.0 36	6100.0 42	3820.0 40
1937	46000.0 17	42700.0 17	34600.0 21	22800.0 31	16300.0 35	11300.0 36	9850.0 36	9470.0 32	7600.0 29	4280.0 35
1938	25100.0 51	24200.0 48	21800.0 48	17300.0 44	10500.0 49	7700.0 49	6650.0 49	6530.0 47	6270.0 41	3680.0 42
1939	44600.0 18	42000.0 19	36700.0 16	26200.0 20	16600.0 34	10900.0 37	8000.0 43	6590.0 45	5200.0 46	3530.0 45
1940	12400.0 60	12000.0 59	9970.0 58	6970.0 58	6560.0 57	4460.0 58	3190.0 58	2750.0 58	2590.0 58	1470.0 58
1941	25500.0 50	22300.0 51	16800.0 53	13400.0 52	9970.0 50	6370.0 52	5860.0 52	5710.0 50	4880.0 49	3270.0 47
1942	29500.0 42	28000.0 42	23100.0 45	17900.0 41	14200.0 39	11700.0 34	10800.0 31	9750.0 28	9200.0 25	8450.0 10
1943	34500.0 33	33100.0 34	27300.0 36	17900.0 42	15600.0 37	13700.0 27	12300.0 25	11400.0 23	9770.0 20	6520.0 18
1944	7900.0 5	68400.0 4	63800.0 4	47700.0 4	41100.0 2	32500.0 2	27100.0 3	22200.0 4	16600.0 6	9250.0 7
1945	47200.0 16	45000.0 16	36300.0 17	31500.0 13	30400.0 7	26000.0 6	24400.0 4	22500.0 3	17300.0 4	9830.0 6
1946	62300.0 6	55500.0 7	43500.0 12	28400.0 17	19200.0 24	14400.0 25	11700.0 26	13200.0 16	11300.0 14	7170.0 16
1947	115000.0 1	9700.0 1	70400.0 2	66700.0 1	61300.0 1	39900.0 1	31800.0 1	27500.0 1	19700.0 2	11100.0 2



## STATION NUMBER 05490500

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## DES MOINES RIVER AT KEOSAUQUA, IOWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1948	50100.0 14	45900.0 15	39800.0 15	27800.0 19	19100.0 25	13000.0 31	10600.0 33	8440.0 38	6300.0 40	3630.0 43
1949	31300.0 40	30700.0 39	27700.0 34	20800.0 34	18000.0 28	14900.0 22	11600.0 27	9670.0 30	7580.0 30	4280.0 36
1950	37000.0 29	33900.0 30	29000.0 32	21800.0 33	13800.0 40	11700.0 35	8940.0 39	8810.0 35	7250.0 34	3960.0 39
1951	60800.0 7	53800.0 9	49800.0 6	44200.0 5	34800.0 6	31400.0 3	28600.0 2	26400.0 2	20200.0 1	11000.0 3
1952	41900.0 24	39500.0 22	27500.0 35	25000.0 24	23000.0 16	18900.0 11	15800.0 14	15200.0 11	12800.0 11	8130.0 12
1953	31200.0 41	29200.0 41	24200.0 43	17300.0 45	13800.0 41	10600.0 40	10700.0 32	10400.0 26	8600.0 26	4990.0 29
1954	60300.0 8	56800.0 5	44800.0 11	29500.0 14	20500.0 20	13100.0 29	11100.0 29	9750.0 29	7570.0 31	4050.0 38
1955	15900.0 59	12700.0 57	11600.0 56	9800.0 55	8030.0 54	6160.0 53	6330.0 50	5590.0 51	4540.0 51	3580.0 44
1956	9280.0 61	7010.0 61	4790.0 61	3500.0 61	2270.0 61	1490.0 61	1210.0 61	1100.0 61	953.0 61	623.0 61
1957	21300.0 53	20900.0 52	15200.0 54	9870.0 54	7150.0 56	5440.0 56	4230.0 56	3810.0 56	2780.0 57	1520.0 57
1958	33800.0 35	33500.0 31	29400.0 30	18300.0 39	15900.0 36	10700.0 39	8040.0 42	6730.0 43	5320.0 45	3270.0 48
1959	40900.0 26	38800.0 25	34900.0 20	28000.0 18	21200.0 19	14900.0 23	14200.0 15	12600.0 18	9820.0 19	5420.0 25
1960	73200.0 4	71000.0 3	70100.0 3	54100.0 3	35000.0 5	26900.0 5	23000.0 6	19100.0 6	14000.0 9	8350.0 11
1961	35200.0 30	33400.0 32	30500.0 27	25800.0 21	22600.0 17	17500.0 17	14000.0 18	12200.0 20	9390.0 23	5660.0 23
1962	50900.0 13	49700.0 12	45900.0 10	40500.0 7	35400.0 4	24700.0 7	21200.0 8	18000.0 8	14900.0 7	10500.0 4
1963	22400.0 52	20400.0 53	18100.0 51	14700.0 50	11900.0 45	9010.0 47	9150.0 37	8190.0 39	6930.0 36	4350.0 33
1964	26600.0 47	24200.0 49	19000.0 50	14100.0 51	9550.0 51	8550.0 48	7740.0 45	6530.0 46	5510.0 44	3060.0 50
1965	79200.0 3	77100.0 2	71800.0 1	58100.0 2	40700.0 3	27800.0 4	23200.0 5	19400.0 5	14200.0 8	8580.0 9
1966	32000.0 38	30400.0 40	25600.0 39	18300.0 40	13600.0 42	11800.0 33	10000.0 35	8940.0 34	6960.0 35	5420.0 26
1967	49200.0 15	48900.0 14	46000.0 9	40200.0 8	26400.0 11	15100.0 21	10900.0 30	9110.0 33	6480.0 39	3500.0 46
1968	16400.0 58	12600.0 58	8220.0 59	5700.0 59	3590.0 60	2450.0 60	2530.0 59	2380.0 59	1920.0 59	1380.0 59
1969	33600.0 36	31000.0 37	29300.0 31	28700.0 16	24400.0 14	18300.0 14	17900.0 10	18000.0 9	16700.0 5	9990.0 5
1970	19900.0 54	18100.0 54	17700.0 52	16300.0 47	11300.0 46	9570.0 45	8490.0 40	7640.0 41	5950.0 43	4070.0 37
1971	34500.0 34	32300.0 35	30000.0 28	25700.0 22	22200.0 18	18100.0 15	13700.0 20	12200.0 21	9280.0 24	5920.0 21







STATION NUMBER 05490500

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

DES MOINES RIVER AT KEOSAUQUA, IOWA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	CFS_DAYS	
YEAR	NUMBER OF DAYS IN CLASS																																	CFS_DAYS			
1948									1	3	23	29	31	26	57	45	19	22	12	18	20	21	6	15	4	2	4	1	5	2					1326810.0		
1949									6	26	11	24	31	26	35	23	27	14	24	26	10	15	16	15	12	7	9	8							1561775.0		
1950						2		3	14	25	46	34	15	17	12	11	21	24	11	29	26	32	7	6	7	10	3	7	3						1446474.0		
1951						2	22	15	20	17	16	16	7	8	15	10	3	3	6	24	23	14	27	26	21	12	20	20	16	2					3999227.0		
1952												1	1	14	21	13	15	53	38	42	40	26	20	24	21	22	10	5							2976150.0		
1953										2	37	30	29	31	23	12	14	13	17	23	46	32	24	16	8	1	7								1822797.0		
1954						1	9	9	13	33	39	43	21	4	7	25	34	20	16	11	12	16	9	10	8	7	8	5	1	2	2				1477105.0		
1955						1	5	6	17	10	10	25	17	13	19	28	31	41	25	40	30	26	10	11											1305821.0		
1956				3	10	20	26	45	23	26	50	59	37	17	21	9	5	6	3	3		2	1												228010.0		
1957	1	1	13	19	25	42	14	18	34	21	35	23	19	11	11	12	22	15	10	8	4	2	2			3									556394.0		
1958							1	9	16	24	25	29	38	55	35	31	21	16	11	10	21	4	7	3	4	2	3									1192547.0	
1959							24	12	17	12	28	20	24	12	20	12	12	22	22	18	19	22	18	17	10	8	12	4								1977099.0	
1960												9	24	55	48	24	43	23	12	14	16	31	19	13	5	9	9	2	4	6					3057441.0		
1961								1	1	3	40	18	5	33	34	20	25	28	24	27	20	16	20	17	11	6	13	3								2767362.0	
1962																3	9	21	33	51	43	37	28	36	38	17	14	8	20	7					3854810.0		
1963									1	3	2	30	26	23	26	27	37	32	39	41	15	23	13	15	8	4										1591123.0	
1964		1			1		1	4	25	14	30	76	28	16	12	10	19	16	20	17	32	23	7	8	2	3	1									1121755.0	
1965										1	5	15	38	45	38	8	20	18	17	24	15	29	19	13	20	10	8	7	7	3	5					3137036.0	
1966										1	11	14	4	20	17	18	29	31	60	38	48	25	16	16	6	6	5									1979318.0	
1967							8	11	23	55	51	22	24	22	27	22	17	15	18	12	6	6	2	5	4	1	2	5	7							1275742.0	
1968						8	5	2	5	9	23	32	57	58	54	46	20	9	9	10	9	7	1	1		1										506904.0	
1969											1	10	39	25	28	26	18	30	21	10	11	10	10	3	8	24	1									3645925.0	
1970											17	15	14	50	53	20	24	30	31	32	26	14	9	16	14												1484394.0
1971											2	5	12	11	16	10	29	20	17	16	35	37	42	30	17	16	13	13	11	12	1					2160126.0	

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	22646	100.0	9	290.00	516	21605	95.4	18	2700.0	1515	10552	46.6	27	25000	373	739	3.2
1	40.00	2	22646	100.0	10	370.00	851	21089	93.1	19	3500.0	1503	9037	39.9	28	33000	209	366	1.6
2	51.00	4	22644	100.0	11	480.00	1023	20238	89.4	20	4500.0	1420	7534	33.3	29	42000	100	157	.6
3	66.00	21	22640	100.0	12	610.00	1299	19215	84.8	21	5700.0	1399	6114	27.0	30	54000	36	57	.2
4	84.00	40	22619	99.9	13	790.00	1240	17916	79.1	22	7400.0	1128	4715	20.8	31	69000	19	21	.0
5	110.00	149	22579	99.7	14	1000.00	1578	16676	73.6	23	9400.0	962	3587	15.8	32	88000		2	
6	140.00	169	22430	99.0	15	1300.00	1737	15098	66.7	24	12000.0	922	2625	11.6	33	110000	2	2	
7	180.00	296	22261	98.3	16	1700.00	1331	13361	59.0	25	16000.0	577	1703	7.5	34	150000			
8	230.00	360	21965	97.0	17	2100.00	1478	12030	53.1	26	20000.0	387	1126	5.0					



STATION\_NUMBER 5-4910.00

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

SUGAR CREEK NEAR KEOKUK, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1924	0.0 1	0.0 1	0.0 1	0.0 1	0.0 1	0.2 3	0.5 2	0.6 2	0.7 2	10.8 2
1925	0.0 2	0.0 2	0.0 2	0.0 2	0.3 9	2.3 8	2.6 8	5.6 7	14.7 7	54.2 7
1926	0.3 12	0.4 12	0.5 11	1.0 13	9.5 16	26.7 16	46.8 16	52.2 15	50.5 14	65.1 8
1927	0.5 14	0.8 15	1.1 14	3.8 16	6.3 15	19.7 15	43.3 15	52.2 16	128.0 16	130.0 16
1928	0.0 3	0.0 3	0.0 3	0.0 3	0.3 10	1.2 7	1.6 6	28.1 13	54.7 13	96.1 13
1929	0.5 15	0.7 14	2.1 16	3.2 15	5.8 14	13.0 14	15.8 13	18.2 11	48.1 11	90.7 11
1930	0.5 16	0.9 15	1.1 15	2.9 14	4.8 12	10.2 13	13.7 10	27.1 12	24.8 10	93.9 12
1931	0.0 4	0.0 4	0.0 4	0.0 4	0.0 2	3.2 10	14.3 11	16.9 10	17.5 8	28.9 4
1960	0.2 11	0.3 11	0.7 12	0.9 12	5.6 13	7.8 12	20.3 14	41.0 14	80.2 15	103.0 14
1951	0.0 5	0.0 5	0.0 5	0.0 5	0.0 3	0.2 4	0.5 3	4.7 5	3.4 5	88.3 10
1952	0.0 5	0.0 5	0.0 5	0.0 6	0.1 6	4.7 11	14.4 12	12.9 8	53.7 12	102.0 15
1953	0.0 7	0.0 7	0.0 7	0.0 7	0.1 7	0.3 5	2.3 7	5.4 6	4.9 6	32.3 5
1954	0.0 8	0.0 8	0.0 8	0.0 8	0.0 4	0.0 1	0.0 1	0.0 1	0.0 1	7.1 1
1955	0.0 9	0.0 9	0.0 9	0.0 9	0.0 5	0.1 2	1.0 4	1.6 2	3.0 4	54.0 6
1956	0.4 13	0.5 13	0.7 13	0.8 11	1.6 11	2.6 9	4.4 9	16.1 9	23.2 9	66.6 9
1957	0.0 10	0.0 10	0.0 10	0.0 10	0.2 8	0.7 6	1.0 5	3.2 4	2.9 3	24.3 2



STATION\_NUMBR 5-4910.00

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

SUGAR CREEK NEAR KEOKUK, IOWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1923	320.0 18	254.0 18	177.0 18	109.0 18	58.5 18	30.9 18	22.1 18	17.6 19	17.6 19	6.8 18
1924	1890.0 12	1270.0 11	662.0 10	327.0 11	229.0 10	169.0 8	126.0 10	95.1 10	74.7 11	41.5 13
1925	1890.0 13	919.0 14	416.0 15	232.0 15	206.0 12	122.0 13	96.7 13	76.5 13	82.2 10	52.0 11
1926	2630.0 6	1470.0 6	1240.0 2	922.0 1	541.0 1	285.0 4	197.0 5	185.0 5	135.0 6	103.0 4
1927	3580.0 1	1980.0 3	1240.0 3	651.0 3	426.0 4	310.0 3	253.0 3	226.0 3	141.0 4	122.0 3
1928	3580.0 2	2230.0 1	1040.0 5	576.0 4	292.0 7	158.0 10	112.0 11	92.6 11	73.2 12	64.4 9
1929	3580.0 3	1680.0 4	1390.0 1	786.0 2	464.0 2	350.0 1	300.0 1	264.0 2	198.0 1	136.0 1
1930	940.0 16	577.0 15	288.0 16	161.0 16	99.8 16	62.4 17	49.7 17	54.2 17	47.0 17	36.6 14
1931	1340.0 15	739.0 15	437.0 14	308.0 12	194.0 14	163.0 9	130.0 9	111.0 9	82.6 9	52.0 10
1959	2150.0 9	1230.0 12	614.0 12	291.0 14	193.0 15	155.0 11	147.0 8	134.0 8	107.0 8	69.8 8
1950	3160.0 4	2180.0 2	1050.0 4	574.0 5	464.0 3	316.0 2	267.0 2	271.0 1	195.0 2	129.0 2
1951	2530.0 8	1410.0 9	626.0 11	448.0 9	228.0 11	115.0 15	90.2 14	69.0 15	57.2 13	44.9 12
1952	1890.0 11	1360.0 10	764.0 9	537.0 7	357.0 6	230.0 7	173.0 7	146.0 7	151.0 5	86.2 5
1953	1660.0 14	1050.0 13	537.0 13	303.0 13	196.0 13	122.0 14	86.0 15	69.6 14	49.5 16	26.6 17
1954	2620.0 7	1610.0 5	775.0 8	409.0 10	255.0 9	135.0 12	105.0 12	81.6 12	55.5 14	28.1 15
1955	2080.0 10	1430.0 7	966.0 6	562.0 5	402.0 5	252.0 6	182.0 6	165.0 6	123.0 7	82.2 7
1966	714.0 17	412.0 17	212.0 17	115.0 17	95.2 17	81.7 16	62.8 16	59.6 16	50.0 15	27.5 16
1967	3060.0 5	1410.0 8	784.0 7	520.0 8	269.0 8	264.0 5	213.0 4	196.0 4	161.0 3	83.9 6



DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

SUGAR CREEK NEAR KEOKUK, IOWA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	
YEAR	NUMBER OF DAYS IN CLASS																																		CFS DAYS	
1923	134	25	10	24	11	27	9	17	13	12	11	12	12	8	6	7	6	3	4	4	3	2	2			1	2									2291.5
1924	47	1	6	3	7	11	21	19	8	19	17	15	27	16	30	13	14	5	42	14	3	5	4	4	2	3	1	4	3	1	1				15178.5	
1925	21			1	2	10	23	32	8	25	12	8	17	12	30	27	22	14	17	23	15	10	12	6	5	3	1	3	3	2	1				18978.5	
1926						1		8	7	4	6	11	18	17	25	46	19	26	24	40	31	14	18	24	5	3	5	4	2	2	3	2	1		37672.0	
1927	17	3				5	3	8	12	17	17	9	13	8	8	21	17	32	28	34	19	28	11	15	7	9	3	7	5	5	1	2	2		44572.7	
1928						2		8	1	5	4	23	18	32	39	61	42	20	30	22	20	16	6	5	2	3	1		2		1	1	2		23586.5	
1929						1		2	6	3	13	19	37	10	21	34	7	27	34	21	22	29	7	15	12	7	14	14	2	2	2	2	2		49705.3	
1930	47	1			1			5	4		11	1	11	11	27	30	54	34	70	22	8	5	5	8	3		2	3	1					13364.8		
1931										1		2	2	2	47	37	84	50	43	41	17	15	5	5	2	4	2	4		2				18994.7		
1959			9	5	7	24	13	36	31	28	17	10	9	10	13	13	15	16	18	13	13	14	11	11	5	7	5	4	4	3		1		25465.4		
1960	9	1	3	3	5	6	2	11	2	3	7	13	19	15	39	33	41	29	21	15	14	16	7	9	9	8	5	5	5	3	2	5	2		47192.9	
1961	83	4	6	5	9	25	24	26	14	9	8	4	10	8	15	22	11	9	13	13	6	12	8	5	5	3	1	3	1	2		1		14382.5		
1962	36	1	1	1	4	3	4	9	11	6	10	4	12	18	39	16	17	27	34	19	21	16	12	9	9	8	4	5	1	4	4			31467.4		
1963	113	3	7	10	25	6	8	11	7	18	18	10	12	13	14	5	9	10	16	16	9	11	5	3	1	3		1		1	1			9695.0		
1964	194		3	1	3	1	6	10	10	5	14	13	9	13	18	11	7	14	7	5	5	2	3	2	3	2	2		1		1		1	10283.3		
1965	54				3	1	6	5	8	20	27	25	15	15	17	19	28	16	16	19	14	10	9	5	6	4	7	4	3	4	2	2		29996.9		
1966	43		3		2		11	18	17	10	28	27	24	19	37	24	19	10	17	15	10	7	8	3	9	2	1	1						10040.4		
1967	25		9	4	6	4	6	9	13	11	12	16	22	21	23	33	22	13	24	20	12	12	10	9	6	5	3	5	3	3	3		1	30627.4		

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	823	5574	100.0	9	1.70	196	4842	73.7	18	30.0	458	1972	30.0	27	520	67	186	2.8
1	0.10	39	5751	87.5	10	2.40	232	4645	70.7	19	42.0	356	1514	23.0	28	720	36	119	1.8
2	0.20	57	5712	86.9	11	3.30	221	4414	67.1	20	58.0	242	1158	17.6	29	1000	34	83	1.2
3	0.30	57	5655	86.0	12	4.50	287	4193	63.8	21	79.0	224	916	13.9	30	1400	22	49	.7
4	0.40	85	5570	85.2	13	6.20	248	3906	59.4	22	110.0	143	692	10.5	31	1900	15	27	.4
5	0.50	127	5513	83.9	14	8.50	447	3658	55.6	23	150.0	138	549	8.4	32	2600	11	11	.1
6	0.70	135	5378	81.9	15	12.00	452	3211	48.8	24	210.0	92	411	6.3	33	3600			
7	0.90	236	5250	79.9	16	16.00	432	2759	42.0	25	280.0	76	319	4.9	34				
8	1.30	172	5014	76.3	17	22.00	355	2327	35.4	26	390.0	57	243	3.7					



STATION NUMBER 05494300

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

FOX RIVER AT BLOOMFIELD, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1959	0.00 1	0.23 9	0.57 10	1.14 13	1.51 12	1.66 9	10.30 11	11.60 10	23.20 10	60.20 10
1960	0.90 13	0.93 13	1.01 13	1.04 12	6.03 13	7.57 12	26.50 12	43.80 13	68.80 12	102.00 12
1961	0.10 5	0.10 4	0.16 6	0.35 7	0.59 7	0.67 3	0.89 4	1.06 3	1.35 2	58.00 9
1962	0.00 2	0.00 1	0.06 2	0.10 2	0.20 2	1.32 8	1.35 6	1.95 6	11.90 8	61.10 11
1963	0.70 12	0.73 12	0.80 12	0.80 10	1.21 10	1.99 10	5.20 10	6.86 8	11.30 7	32.20 5
1964	0.10 6	0.10 5	0.10 3	0.10 3	0.18 1	0.24 1	0.51 1	0.51 1	0.61 1	4.45 1
1965	0.10 7	0.10 6	0.14 4	0.17 4	0.30 3	0.42 2	0.58 2	0.57 2	2.88 6	28.20 3
1966	0.10 8	0.10 7	0.14 5	0.24 5	0.34 4	1.21 7	3.01 8	15.80 11	17.00 9	53.10 8
1967	0.00 3	0.00 2	0.01 1	0.05 1	0.57 6	0.70 4	0.77 3	1.25 5	1.60 4	12.50 2
1968	0.11 9	0.17 8	0.21 7	0.55 9	1.07 9	2.37 11	3.09 9	9.58 9	25.60 11	52.30 7
1969	0.08 4	0.10 3	0.21 8	0.33 6	0.40 5	0.88 5	0.96 5	1.18 4	1.54 3	32.90 6
1970	0.26 10	0.32 10	0.40 9	0.44 8	0.61 8	1.19 6	2.22 7	2.50 7	2.31 5	29.50 4
1971	0.55 11	0.68 11	0.78 11	0.94 11	1.34 11	7.76 13	28.70 13	40.30 12	87.50 13	111.00 13



STATION NUMBER 05494300

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

FOX RIVER AT BLOOMFIELD, IOWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1958	2610.0 7	1540.0 4	684.0 5	387.0 6	243.0 5	131.0 6	99.5 8	83.2 9	65.8 9	36.5 9
1959	3290.0 4	2140.0 2	962.0 2	475.0 4	290.0 4	180.0 4	145.0 5	123.0 4	126.0 3	76.9 2
1960	4370.0 1	2630.0 1	1340.0 1	649.0 2	414.0 1	370.0 1	268.0 1	214.0 1	164.0 1	103.0 1
1961	696.0 12	291.0 12	218.0 12	170.0 12	116.0 12	71.0 11	57.4 11	45.1 11	30.3 12	19.0 12
1962	3610.0 2	1330.0 6	596.0 7	394.0 5	232.0 6	177.0 5	134.0 6	105.0 6	109.0 4	60.7 5
1963	1690.0 9	892.0 9	428.0 9	303.0 8	197.0 8	126.0 7	90.2 10	73.6 10	51.7 10	29.8 10
1964	696.0 13	275.0 13	121.0 13	68.0 14	54.8 13	28.5 14	30.6 14	24.2 14	16.2 14	8.4 14
1965	3160.0 5	1390.0 5	858.0 4	513.0 3	386.0 2	236.0 3	183.0 3	145.0 3	103.0 5	64.8 4
1966	316.0 14	217.0 14	120.0 14	71.1 13	54.2 14	39.7 13	30.7 13	26.0 13	28.0 13	15.3 13
1967	1700.0 8	764.0 10	356.0 10	303.0 9	223.0 7	125.0 8	152.0 4	118.0 5	82.7 8	42.5 8
1968	1120.0 11	594.0 11	331.0 11	201.0 11	123.0 11	68.2 12	49.3 12	39.5 12	40.5 11	26.3 11
1969	1610.0 10	1250.0 7	646.0 6	334.0 7	182.0 10	120.0 9	91.6 9	91.7 7	90.2 6	46.7 6
1970	3470.0 3	1870.0 3	921.0 3	745.0 1	377.0 3	320.0 2	214.0 2	165.0 2	134.0 2	72.1 3
1971	3140.0 6	1170.0 8	523.0 8	277.0 10	194.0 9	109.0 10	102.0 7	88.6 8	87.5 7	46.1 7



STATION NUMBER 05494300

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

FOX RIVER AT BLOOMFIELD, IOWA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	CFS_DAYS
YEAR																																				
1958	19			11	10	8	17	27	19	17	27	26	26	24	25	16	15	13	20	8	8	8	4	3	2	5	3	1	1			1	1		13306.2	
1959								25	70	28	25	24	18	16	14	12	19	18	12	17	14	6	10	10	7	7	6	3	2			1	1		28066.7	
1960						6	11	24	14	13	4	13	15	36	22	30	40	43	26	12	10	9	7	4	5	10	1	2	3	2	1	2	1		37563.4	
1961	3			21	17	10	23	84	32	21	13	9	11	9	15	7	24	18	16	8	5	5	4	3	1	2	2	2						6574.6		
1962							7	31	32	23	22	15	14	24	29	29	11	28	25	20	13	7	8	8	5	8	1	3	1			1		22160.8		
1963				13	17	18	27	32	15	13	23	22	20	26	24	12	21	10	11	12	14	12	8	2	5	2	3	2			1			10893.9		
1964				43	25	41	58	67	37	31	12	6	7	6	4	5	6	2	5	2	1		3	1		1	2	1						3073.2		
1965				8	12	39	39	35	11	13	11	9	13	16	16	17	20	16	16	14	10	12	9	7	5	3	4	2	4		1	2	1		23634.5	
1966	12			22	4	2	17	13	7	27	33	37	20	29	29	22	28	14	9	15	9	4	4	3	2	3								5581.2		
1967		3	4	11	10	13	43	26	19	13	29	21	18	15	7	16	17	17	20	21	6	9	6	3	6	3	4	1		2	2			15513.0		
1968				2	9	12	12	27	24	11	20	13	13	18	25	25	46	31	18	12	11	9	8	4	6	2	3	3	1		1			9614.9		
1969				2	3	5	3	40	29	31	29	29	13	8	9	13	20	23	12	14	13	17	10	7	13	10	5	1	2	2	2		2		17046.7	
1970							1	18	14	20	69	36	18	27	17	19	26	21	16	13	4	10	4	9	5	3	2	2	4	4			1	2	26300.4	
1971				5	10	13	3	5	23	25	20	11	9	9	38	26	26	35	32	12	18	13	7	1	10	4	2	4	1		2		1	16816.7		

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	34	5113	100.0	9	1.20	340	3638	71.2	18	25.0	240	1113	21.8	27	520	23	81	1.5
1	0.06	3	5079	99.3	10	1.70	334	3298	64.5	19	35.0	198	873	17.1	28	720	19	58	1.1
2	0.08	13	5076	99.3	11	2.40	252	2964	58.0	20	49.0	145	675	13.2	29	1000	13	39	.7
3	0.10	151	5063	99.0	12	3.40	220	2712	53.0	21	69.0	122	530	10.4	30	1400	11	26	.5
4	0.20	125	4912	96.1	13	4.70	271	2492	48.7	22	96.0	76	408	8.0	31	2000	6	15	.2
5	0.30	149	4787	93.6	14	6.60	277	2221	43.4	23	130.0	85	332	6.5	32	2800	8	9	.1
6	0.40	303	4638	90.7	15	9.20	271	1944	38.0	24	190.0	64	247	4.8	33	3900	1	1	.0
7	0.60	396	4335	84.8	16	13.00	317	1673	32.7	25	260.0	49	183	3.6	34				
8	0.90	301	3939	77.0	17	18.00	243	1356	26.5	26	370.0	53	134	2.6					



STATION\_NUMBER 5-4945.00

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

FOX RIVER AT CANTRIL, IOWA

YEAR	1	3	7	14	30	60	90	120	163	ANNUAL
1942	0.0 1	0.0 1	0.0 1	0.1 1	0.3 1	7.3 9	29.4 10	60.8 10	63.9 10	119.0 6
1943	0.4 4	0.5 5	0.5 4	0.8 3	1.0 4	1.2 3	1.4 2	3.2 3	12.8 4	37.5 1
1944	0.2 3	0.2 2	0.3 2	0.3 2	0.5 2	1.1 2	1.5 3	1.7 2	3.6 2	82.8 5
1945	0.9 8	0.9 8	1.1 9	1.2 7	2.8 7	7.2 8	10.2 8	27.3 9	39.0 9	126.0 7
1946	1.0 9	1.0 9	1.0 8	1.1 6	3.9 9	5.0 6	8.3 7	14.2 7	13.1 6	127.0 6
1947	0.1 2	0.2 3	0.5 3	3.0 10	4.8 10	9.0 10	14.7 9	16.7 8	20.0 7	134.0 5
1948	0.5 5	0.5 4	0.6 5	0.9 4	2.0 5	2.8 4	8.0 6	7.9 5	21.3 8	162.0 10
1949	0.6 6	0.8 6	0.9 7	1.4 8	2.6 6	6.9 7	6.5 5	11.3 6	12.9 5	53.4 2
1950	2.0 10	2.3 10	2.6 10	2.8 9	3.1 8	3.5 5	3.5 4	5.1 4	10.8 3	62.0 3
1951	0.7 7	0.8 7	0.8 6	0.9 5	1.0 3	1.0 1	1.3 1	1.3 1	2.0 1	74.0 4



STATION\_NUMBER 5-4945.00

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

FOX RIVER AT CANTRIL, IOWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1941	2780.0 10	1400.0 9	677.0 10	426.0 10	224.0 11	130.0 11	96.9 11	80.4 11	64.0 11	37.7 11
1942	3640.0 7	1840.0 7	1070.0 8	541.0 7	475.0 5	271.0 8	207.0 7	182.0 8	174.0 5	98.5 5
1943	3760.0 6	1830.0 8	1210.0 6	671.0 5	544.0 4	349.0 4	258.0 5	207.0 6	166.0 6	96.0 6
1944	4680.0 2	3210.0 2	1720.0 2	1160.0 3	679.0 3	405.0 3	318.0 3	249.0 4	165.0 7	85.5 7
1945	3910.0 5	2380.0 4	1360.0 5	659.0 6	423.0 8	328.0 5	284.0 4	252.0 3	206.0 3	124.0 3
1946	12700.0 1	7350.0 1	3320.0 1	1570.0 1	980.0 1	628.0 1	455.0 2	386.0 1	301.0 1	176.0 1
1947	4590.0 3	3100.0 3	1440.0 4	1350.0 2	926.0 2	506.0 2	467.0 1	372.0 2	253.0 2	133.0 2
1948	3180.0 9	1390.0 10	820.0 9	453.0 9	320.0 9	216.0 10	163.0 10	129.0 10	96.7 10	57.3 10
1949	1030.0 11	767.0 11	620.0 11	413.0 11	261.0 10	239.0 9	168.0 9	154.0 9	136.0 9	74.5 9
1950	4470.0 4	1980.0 6	1650.0 3	800.0 4	450.0 7	285.0 6	205.0 8	182.0 7	151.0 8	78.5 8
1951	3420.0 8	2090.0 5	1070.0 7	526.0 8	458.0 6	277.0 7	237.0 6	241.0 5	195.0 4	112.0 4



STATION\_NUMBER 5-4945.00

DURATION TABLE OF DAILY DISCHARGE

FOX RIVER AT CANTRIL, IOWA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34		
YEAR	NUMBER OF DAYS IN CLASS																																	CFS_DAYS			
1941	12	3	5	1	18	22	33	16	14	23	15	20	41	31	20	16	16	14	15	8	4	9	1	1	2	2	1	1			1						13769.9
1942							21	20	4	29	7	8	11	27	16	27	30	35	27	27	28	18	9	4	4	4	3	3	1	1	1						35958.3
1943					8	2	23	15	14	30	10	20	26	22	21	26	31	27	20	19	15	8	3	7	4	1	5	4	2		2						35053.3
1944			2	6	7	12	12	26	53	42	15	21	14	12	18	30	22	10	10	15	8	5	7	2	4	5	1		5	1			1				31444.4
1945										1	35	41	11	28	32	33	40	29	29	28	13	9	3	6	7	5	6	2	4	2	1						45153.8
1946		1	2	1		1	14	1	6	17	36	52	14	28	33	28	26	23	12	12	10	9	7	12	5	3	2	5			1			3	1		64389.0
1947							3	4	15	33	40	40	32	23	20	19	20	17	12	24	13	14	9	6	3	2	1	7	3	2	2	1					48514.7
1948					2	5	22	8	7	32	43	28	27	29	19	20	23	26	18	23	13	5	1	2	6	2	3	1			1						20982.3
1949										34	54	37	14	32	29	21	34	29	12	17	7	9	7	8	10	4	8										27330.2
1950						4	11	7	43	57	30	21	28	32	19	19	31	12	14	12	4	3	3	5	3	1	3	1		1	1						28649.3
1951						2	48	49	22	6	2	2	1	20	34	37	25	19	25	19	9	7	6	8	4	7	2	6	2	2	1						40976.4

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	12	4017	100.0	9	2.20	290	3433	85.5	18	50.0	192	943	23.5	27	1100	32	76	1.8
1	0.10	4	4005	99.7	10	3.10	314	3143	78.2	19	70.0	206	751	18.7	28	1600	18	44	1.0
2	0.20	9	4001	99.6	11	4.40	299	2829	70.4	20	99.0	132	545	13.6	29	2200	9	26	.6
3	0.30	8	3992	99.4	12	6.30	212	2530	63.0	21	140.0	97	413	10.3	30	3100	10	17	.4
4	0.40	35	3984	99.2	13	8.00	280	2318	57.7	22	200.0	56	316	7.9	31	4400	3	7	.1
5	0.50	44	3949	98.3	14	13.00	274	2038	50.7	23	280.0	59	260	6.5	32	6200	3	4	.1
6	0.60	180	3905	97.2	15	18.00	276	1764	43.9	24	390.0	54	201	5.0	33	8800	1	1	.0
7	1.10	150	3725	92.7	16	25.00	286	1488	37.0	25	560.0	38	147	3.7	34				
8	1.60	142	3575	89.0	17	35.00	259	1202	29.9	26	780.0	33	109	2.7					



STATION\_NUMBER 6-4835.00

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

ROCK RIVER NEAR ROCK VALLEY, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
	8.0 9	8.0 9	9.0 9	9.0 9	9.0 7	11.6 7	17.7 8	24.7 8	42.5 9	288.0 10
1950	8.0 9	8.0 9	9.0 9	9.0 9	9.0 7	11.6 7	17.7 8	24.7 8	42.5 9	288.0 10
1951	1.0 2	1.0 2	1.0 2	1.2 2	2.0 3	2.8 3	5.1 3	7.1 3	15.7 4	124.0 7
1952	54.0 18	64.7 18	65.0 18	65.6 19	70.1 18	91.2 18	122.0 18	157.0 18	251.0 18	987.0 18
1953	16.0 14	16.0 14	16.0 13	16.0 13	17.0 12	20.7 11	24.4 9	29.0 9	36.4 7	368.0 13
1954	25.0 17	25.0 17	25.0 17	25.0 17	25.2 16	33.1 16	43.0 15	46.0 13	70.8 15	425.0 14
1955	15.0 12	15.0 12	15.0 12	15.0 11	16.2 11	25.3 13	35.4 13	47.0 14	68.3 13	297.0 12
1956	1.2 5	1.2 4	1.2 4	1.2 3	1.3 2	2.0 2	2.5 2	4.2 2	6.4 2	48.2 2
1957	1.0 3	1.0 3	1.0 3	1.2 4	2.2 4	6.8 4	10.5 6	13.4 4	14.4 3	83.2 4
1958	16.0 13	16.0 13	16.3 14	17.2 15	19.4 14	24.2 12	43.5 16	55.8 16	70.0 14	170.0 8
1959	0.0 1	0.0 1	0.0 1	0.0 1	0.1 1	0.5 1	0.9 1	2.9 1	3.1 1	41.2 1
1960	1.1 4	2.2 5	3.5 5	8.2 8	16.1 10	18.5 9	35.0 12	39.7 12	41.8 8	260.0 9
1961	17.0 15	17.0 15	17.0 15	17.1 14	18.1 13	29.5 14	38.6 14	49.7 15	97.5 16	461.0 15
1962	12.0 11	12.3 11	13.1 11	15.6 12	22.8 15	30.8 15	33.9 11	39.6 11	62.2 12	292.0 11
1963	7.0 8	7.0 8	7.1 8	7.8 7	13.6 9	20.3 10	24.5 10	32.9 10	50.5 10	567.0 16
1964	5.5 6	5.7 7	6.6 7	7.2 6	7.7 6	8.6 6	9.7 4	14.3 5	22.2 5	63.7 3
1965	5.5 7	5.5 6	5.5 6	5.9 5	6.3 5	8.2 5	10.4 5	16.4 6	58.0 11	107.0 5
1966	22.0 16	22.7 16	22.9 16	24.4 16	40.9 17	60.4 17	81.5 17	104.0 17	117.0 17	504.0 17
1967	9.5 10	9.5 10	9.5 10	9.9 10	10.1 8	11.7 8	15.6 7	22.2 7	30.0 6	116.0 6



STATION\_NUMBER 6-4835.00

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

ROCK RIVER NEAR ROCK VALLEY, IOWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1949	5400.0 11	5120.0 11	4130.0 8	3480.0 7	2290.0 6	1760.0 6	1270.0 6	1000.0 6	701.0 7	374.0 7
1950	4200.0 12	3800.0 12	3090.0 12	1820.0 12	1100.0 10	657.0 10	529.0 10	448.0 11	328.0 11	190.0 12
1951	13300.0 7	12400.0 5	9520.0 4	6140.0 4	3540.0 5	2290.0 2	1790.0 2	1760.0 2	1320.0 2	673.0 2
1952	15900.0 3	13300.0 3	9380.0 5	5620.0 5	3700.0 3	2150.0 5	1610.0 5	1270.0 4	925.0 3	527.0 3
1953	13400.0 6	8580.0 7	4470.0 7	2390.0 8	1560.0 8	1060.0 8	922.0 7	865.0 8	723.0 6	382.0 6
1954	16600.0 2	12700.0 4	7200.0 6	3720.0 6	1970.0 7	1090.0 7	819.0 8	880.0 7	670.0 8	369.0 8
1955	2000.0 15	1600.0 15	997.0 15	615.0 15	423.0 15	328.0 15	264.0 15	215.0 15	150.0 15	99.8 15
1956	938.0 18	545.0 18	428.0 18	291.0 18	193.0 18	174.0 18	134.0 19	125.0 18	119.0 18	63.3 19
1957	2960.0 14	2090.0 14	1580.0 14	1110.0 14	809.0 14	563.0 12	442.0 12	353.0 12	305.0 12	162.0 13
1958	449.0 19	405.0 19	334.0 19	262.0 19	215.0 18	162.0 19	140.0 18	125.0 19	93.8 19	72.5 18
1959	9020.0 9	6050.0 9	3380.0 10	1830.0 11	1000.0 12	543.0 13	381.0 14	302.0 14	213.0 14	110.0 14
1960	14500.0 5	14000.0 2	12100.0 2	6980.0 2	3940.0 2	2220.0 3	1630.0 4	1270.0 5	879.0 5	464.0 5
1961	7550.0 10	5710.0 10	3240.0 11	1840.0 10	1480.0 9	882.0 9	675.0 9	547.0 9	403.0 9	232.0 9
1962	23500.0 1	19700.0 1	13800.0 1	9790.0 1	5790.0 1	3300.0 1	2590.0 1	2090.0 1	1410.0 1	740.0 1
1963	1000.0 17	762.0 17	492.0 17	377.0 17	272.0 17	189.0 17	174.0 16	161.0 16	134.0 17	88.7 16
1964	1130.0 16	929.0 15	633.0 16	426.0 16	283.0 16	204.0 16	156.0 17	137.0 17	138.0 16	81.5 17
1965	15200.0 4	12700.0 5	10500.0 3	6610.0 3	3500.0 4	2210.0 4	1690.0 3	1370.0 3	930.0 4	485.0 4
1966	11200.0 8	7570.0 8	3720.0 9	1900.0 9	1030.0 11	635.0 11	500.0 11	418.0 12	297.0 13	200.0 11
1967	3040.0 13	2690.0 13	1820.0 13	1210.0 13	862.0 13	538.0 14	469.0 12	504.0 10	373.0 10	201.0 10



DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

ROCK RIVER NEAR ROCK VALLEY, IOWA

CLASS	NUMBER OF DAYS IN CLASS																																		CFS DAYS				
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33		34			
1949													28	10	13	14	43	70	24	24	30	31	13	16	10	6	5	5	5	5	9						136538.0		
1950													4	39	14	40	20	48	64	24	24	35	16	12	8	7	2	1	2	4	1						65551.0		
1951							11	53	5	9	10	10	9	27	28	10	2	2	1	6	17	28	22	43	34	16	7	4	5	2	2	2					245667.0		
1952																15	61	34	36	45	64	41	19	17	10	6	5	4	4	1	2	2				196666.0			
1953															15	25	48	62	15	17	12	16	46	41	24	14	9	8	4	7			1	1		130453.0			
1954																46	9	63	52	42	46	37	34	9	8	7	2	1	3	3	1			2		134601.0			
1955								5	19	12	7	5	36	29	21	25	45	67	31	30	16	8	4	2	1	1	1										36445.1		
1956																																						23169.6	
1957																																						59017.2	
1958																																						26459.8	
1959																																						40004.7	
1960	14	4	7	3	3	33	5	18	16	28	14	14	9	11	18	26	41	32	33	11	5	5	3	4	1	2	2					2		1	5	169748.0			
1961																																						84754.0	
1962																																							270128.0
1963																																							32381.5
1964																																							20814.4
1965																																							177003.0
1966																																							73054.0
1967																																							73211.0

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	14	6939	100.0	9	2.70	109	6691	96.4	18	73.0	723	3302	47.6	27	2000	47	164	2.3
1	0.10	4	6925	99.8	10	3.90	77	6582	94.9	19	110.0	488	2579	37.2	28	2900	40	117	1.6
2	0.20	7	6921	99.7	11	5.60	141	6505	93.7	20	150.0	529	2091	30.1	29	4100	29	77	1.1
3	0.30	3	6914	99.6	12	8.10	239	6364	91.7	21	220.0	463	1562	22.5	30	5900	14	48	.6
4	0.40	3	6911	99.6	13	12.00	330	6125	88.3	22	320.0	353	1099	15.8	31	8600	16	34	.4
5	0.60	33	6908	99.6	14	17.00	449	5795	83.5	23	460.0	202	746	10.8	32	12000	17	18	.2
6	0.90	51	6875	99.1	15	24.00	565	5346	77.0	24	660.0	185	544	7.8	33	18000	1	1	.0
7	1.30	34	6824	98.3	16	35.00	718	4781	68.9	25	950.0	122	359	5.2	34				
8	1.90	99	6790	97.9	17	51.00	761	4063	58.6	26	1400.0	73	237	3.4					



STATION\_NJMPER 6-4840.00

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

DRY CREEK AT HAWARDEN, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
	1	1	1	1	1	10	9	7	8	3.9 7
1950	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.2	3.9
1951	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	6.6
1952	1.6	1.8	2.0	2.0	2.1	3.7	5.1	6.0	10.0	23.1
1953	0.0	0.6	1.1	1.2	1.3	1.7	1.4	1.5	3.1	9.6
1954	0.5	0.5	0.5	0.5	0.6	1.1	1.4	1.4	1.9	18.4
1955	0.1	0.3	0.3	0.3	0.4	0.7	0.9	1.1	1.7	7.0
1956	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6
1957	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
1958	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.4	2.3
1959	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
1960	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	5.1
1961	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.5	1.2	12.7
1962	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.4	0.5	15.6
1963	0.0	0.0	0.0	0.0	0.1	0.2	0.2	0.4	1.1	8.3
1964	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
1965	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9
1966	0.0	0.0	0.0	0.0	0.1	0.8	1.1	1.6	2.3	12.3
1967	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	2.5



STATION\_NUMBER 6-4840.00

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

DRY CREEK AT HAWARDEN, IOWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1949	550.0 9	350.0 5	187.0 8	90.1 10	54.6 8	29.8 8	20.6 8	15.9 9	10.7 9	5.5 10
1950	300.0 13	193.0 12	106.0 12	52.4 13	30.4 13	18.4 12	12.7 12	9.7 12	6.7 12	3.5 12
1951	589.0 8	536.0 4	322.0 4	184.0 4	96.8 4	54.5 5	40.4 5	42.5 4	33.5 3	17.1 4
1952	600.0 7	320.0 9	159.0 9	127.0 6	89.1 6	62.6 4	47.4 4	37.0 5	29.0 4	18.7 2
1953	2050.0 1	1350.0 1	602.0 2	287.0 3	147.0 3	79.8 3	56.9 2	48.9 2	34.3 2	18.1 3
1954	359.0 11	279.0 9	148.0 10	92.0 9	51.0 9	27.3 9	20.2 9	21.7 7	16.5 7	9.0 7
1955	74.0 15	44.3 15	25.5 15	18.2 15	10.1 15	6.6 15	5.0 15	3.9 15	2.9 15	1.8 15
1956	46.0 17	26.6 17	18.6 16	12.4 15	6.3 16	3.7 16	2.5 16	2.0 17	1.7 16	0.9 17
1957	278.0 14	112.0 14	52.3 14	36.0 14	19.7 14	10.5 14	7.9 14	6.0 14	4.1 14	2.1 14
1958	15.0 19	10.3 19	5.5 19	3.1 19	1.9 19	1.6 19	1.1 19	0.9 19	0.6 19	0.3 19
1959	516.0 10	209.0 11	124.0 11	60.1 11	31.8 12	16.3 13	11.4 13	9.0 13	6.3 13	3.2 13
1960	1210.0 3	695.0 3	597.0 3	294.0 2	154.0 2	82.4 2	56.3 3	42.6 3	28.6 5	14.4 5
1961	300.0 12	142.0 13	86.4 13	57.3 12	45.4 11	27.0 10	18.7 10	14.8 10	10.2 10	5.4 11
1962	1990.0 2	1360.0 2	742.0 1	377.0 1	197.0 1	104.0 1	81.2 1	62.7 1	42.2 1	22.2 1
1963	35.0 19	23.3 19	11.3 18	6.4 18	3.6 18	2.5 18	1.9 18	2.1 16	1.6 17	1.1 16
1964	72.0 16	28.6 15	13.0 17	7.6 17	4.3 17	2.9 17	2.2 17	1.9 18	1.3 18	0.6 18
1965	729.0 5	335.0 7	255.0 5	131.0 5	89.6 5	47.4 6	32.8 6	29.7 6	20.5 6	10.6 6
1966	1200.0 4	492.0 5	212.0 6	93.9 8	49.7 10	25.6 11	17.8 11	14.2 11	10.0 11	6.1 9
1967	606.0 6	264.0 10	211.0 7	123.0 7	62.9 7	31.9 7	21.3 7	19.7 8	13.2 8	6.7 8



DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

DRY CREEK AT HAWARDEN, IOWA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34		
YEAR	NUMBER OF DAYS IN CLASS																																			CFS DAYS	
1949	70	35	51	25	31	10	13	10	26	20	16	26	9	5	4	4	3	1	1					2	1	1		1									2008.4
1950	62	42	86	37	24	20	25	13	10	12	4	5	4		5		6	2	2	1			3	1		1											1289.7
1951	112		1	14	30	9	3		3	5	14	14	11	29	47	23	13	7	5	6	3	2	6	1	2		1	4								6258.8	
1952								5	31	72	23	23	26	67	28	17	19	14	10	5	7	3	4	5	2		3		1							6832.7	
1953	1		1				1	73	57	43	21	19	27	37	30	15	13	12	5	4		1	1	1								1	1			6593.9	
1954				13	15	20	66	29	52	46	24	28	25	14	8	4	5	5	2	1	2		1	2	2	1										3296.6	
1955	55	9	8	27	44	27	27	59	45	32	9	5	6	2	2	2	3	1	2			1														561.6	
1956	184	59	12	22	13	14	19	7	9	10	2	1	5	1	2	1	2	1	1	1																313.0	
1957	175	8	26	28	21	21	24	18	12	8	7	4	1	2	1	2	2			2		2					1								767.8		
1958	180	48	46	14	11	17	31	6	3	3	1	3				2																				121.0	
1959	263	11	12	6	9	4	10	11	8	4	5	2	4	2	2	2		3	2	2	1				1			1							1160.6		
1960	126	12	20	18	20	9	17	11	32	33	24	7	7	7	2	3	3	3		1		4		2		1			2			2			5285.1		
1961	30	46	21	14	21	30	50	25	28	22	14	15	11	6	6	4	3	2	3	8	1	2		2		1									1977.7		
1962	81	14	5	9	18	11	19	4	5	27	21	34	26	17	15	11	11	9	6	6	2	4	2	1		1	3			1	1	1			8154.9		
1963	73	56	29	23	21	8	41	21	16	35	25	9	3	4				1	1																	416.1	
1964	202	44	22	12	21	13	15	6	8	7	4	4	3	1	3					1																225.3	
1965	147		10	13	10	4	20	15	21	22	24	13	14	7	9	8	4	2	3	3	2	3	3	3	2	1	1		1						3860.8		
1966	60	23	39	19	18	7	35	28	29	51	21	14	5	2	2	1	2	2	1	3	1					1										2222.7	
1967	67	91	53	34	22	7	18	10	16	13	10	4	5		1		1	3	1		1		3		2		2		1						2438.1		

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	1888	6939	100.0	9	2.00	471	2059	29.7	18	30.0	47	229	3.3	27	440	6	19	.2
1	0.10	497	5051	72.9	10	2.70	291	1588	22.9	19	40.0	45	182	2.6	28	600	5	13	.1
2	0.20	442	4554	65.6	11	3.70	225	1297	18.7	20	54.0	20	137	2.0	29	910	1	8	.1
3	0.30	315	4112	59.3	12	4.90	195	1072	15.4	21	73.0	24	117	1.7	30	1100	4	7	.1
4	0.40	347	3797	54.7	13	6.70	214	877	12.6	22	99.0	22	93	1.3	31	1500	2	3	.0
5	0.60	226	3450	49.7	14	9.00	173	663	9.6	23	130.0	19	71	1.0	32	2000	1	1	.0
6	0.90	338	3224	46.5	15	12.00	104	490	7.1	24	180.0	12	52	0.7	33				
7	1.10	339	2835	40.9	16	16.00	89	385	5.6	25	240.0	10	40	0.6	34				
8	1.50	388	2447	35.3	17	22.00	68	297	4.3	26	330.0	11	30	0.4					



STATION\_NUMBER 6-4855.00

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

BIG SIOUX RIVER AT AKRON, IA.

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
	60.0 23	60.0 25	60.0 22	64.3 24	77.5 25	97.3 27	126.0 25	177.0 30	192.0 24	602.0 18
1930										
1931	72.0 30	74.7 30	75.0 29	75.0 29	75.0 24	87.1 21	100.0 21	106.0 20	121.0 13	304.0 4
1932	26.0 9	27.3 9	30.6 10	31.4 9	38.9 9	81.2 19	86.5 18	97.7 17	104.0 11	499.0 15
1933	25.0 7	25.0 7	26.4 8	35.2 10	53.1 16	62.5 15	65.7 14	70.6 12	129.0 16	409.0 13
1934	54.0 21	55.3 22	60.9 25	71.1 26	90.0 30	94.8 26	96.6 20	103.0 18	124.0 14	332.0 8
1935	35.0 13	35.7 13	36.6 13	38.0 12	39.5 10	40.8 5	58.9 10	76.4 13	88.9 10	343.0 9
1936	7.0 1	7.0 1	9.3 1	10.1 1	12.0 1	19.2 2	33.7 3	39.3 3	69.8 3	609.0 19
1937	13.0 3	13.0 3	14.1 3	16.1 3	20.2 3	31.2 3	43.5 4	51.6 4	157.0 22	409.0 14
1938	33.0 14	40.0 15	41.0 16	42.7 15	45.8 13	47.8 10	54.3 9	62.8 8	88.0 9	964.0 27
1939	115.0 37	117.0 37	121.0 36	133.0 36	150.0 36	207.0 35	221.0 34	229.0 33	551.0 36	920.0 26
1940	38.0 15	38.3 14	40.0 14	41.1 14	46.5 14	58.5 14	63.2 12	68.8 11	74.0 7	359.0 10
1941	33.0 11	34.0 11	34.7 11	36.4 11	37.6 7	42.9 7	48.4 6	52.1 5	64.5 5	652.0 22
1942	18.0 4	18.7 4	20.9 4	24.9 4	38.5 8	43.9 8	52.9 8	60.0 6	62.8 4	314.0 5
1943	70.0 29	75.0 31	82.9 32	89.3 32	123.0 34	161.0 32	224.0 35	300.0 35	556.0 38	1580.0 35
1944	100.0 35	103.0 35	107.0 35	114.0 35	139.0 35	256.0 38	305.0 36	313.0 35	423.0 34	1240.0 29
1945	109.0 36	113.0 35	123.0 37	144.0 37	151.0 37	215.0 36	325.0 38	378.0 37	646.0 37	1720.0 36
1946	73.0 31	74.0 29	77.1 30	80.7 30	88.5 29	93.4 25	128.0 26	160.0 25	230.0 27	1350.0 31
1947	160.0 38	160.0 38	161.0 38	179.0 38	204.0 38	232.0 37	307.0 37	392.0 38	481.0 35	634.0 20
1948	60.0 24	60.0 23	60.0 23	61.1 21	66.8 21	89.1 22	133.0 29	156.0 28	199.0 25	1430.0 32
1949	60.0 25	60.0 24	60.7 24	62.9 22	66.5 20	91.4 23	124.0 24	162.0 26	277.0 31	1120.0 28
1950	40.0 16	40.0 15	40.7 15	43.6 16	47.3 15	58.4 13	72.9 16	92.1 16	137.0 17	598.0 23
1951	35.0 12	35.0 12	36.4 12	38.6 13	44.0 12	50.5 11	55.7 15	82.3 14	137.0 18	515.0 17
1952	250.0 39	250.0 39	250.0 39	272.0 39	295.0 39	359.0 39	451.0 39	541.0 39	808.0 39	2240.0 39
1953	80.0 32	85.0 33	90.0 33	106.0 34	116.0 33	122.0 30	128.0 27	141.0 22	181.0 23	1770.0 37
1954	80.0 33	80.0 32	80.0 31	82.9 31	109.0 31	169.0 33	204.0 32	217.0 32	361.0 33	1340.0 30
1955	60.0 26	63.3 25	67.1 27	74.6 28	85.5 26	124.0 31	142.0 30	173.0 29	235.0 28	816.0 25
1956	28.0 10	28.7 10	29.1 9	30.1 8	31.1 5	32.8 4	32.8 2	37.3 2	41.0 2	155.0 1
1957	25.0 8	25.0 8	25.0 5	25.7 5	32.5 6	44.5 9	52.8 7	62.5 7	72.1 6	247.0 3
1958	55.0 22	55.0 20	57.1 20	63.9 23	85.2 28	109.0 28	151.0 31	184.0 31	217.0 26	757.0 24
1959	12.0 2	12.0 2	13.0 2	13.6 2	14.2 2	18.6 1	23.1 1	29.3 1	31.3 1	151.0 2
1960	53.0 20	55.0 21	57.1 21	60.0 19	64.5 18	70.8 17	95.0 19	107.0 21	120.0 12	430.0 15
1961	50.0 17	51.7 17	53.6 17	55.7 17	72.7 23	93.3 24	119.0 22	144.0 23	236.0 29	1520.0 33
1962	50.0 18	53.3 18	56.4 18	56.8 18	65.7 19	84.2 20	119.0 23	150.0 24	153.0 21	544.0 21
1963	65.0 28	68.3 23	71.4 28	74.3 27	85.7 27	113.0 29	130.0 28	155.0 27	239.0 30	1950.0 38
1964	50.0 19	53.3 17	57.1 19	61.1 20	61.7 17	63.5 16	65.3 13	85.8 15	137.0 19	324.0 7
1965	20.0 5	23.3 5	25.0 6	26.1 6	27.5 4	33.9 5	44.1 5	64.6 9	129.0 15	323.0 6
1966	95.0 34	96.7 34	98.6 34	101.0 33	115.0 32	171.0 34	210.0 33	265.0 34	297.0 32	1570.0 34
1967	63.0 27	63.7 27	64.6 26	65.6 25	66.9 22	73.0 18	85.4 17	105.0 19	146.0 20	392.0 11



STATION\_NUMBER 6-4855.00

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

BIG SIOUX RIVER AT AKRON, IA.

YEAR	1	3	7	14	30	60	99	120	183	ANNUAL
1968	24.0 6	24.3 5	25.0 7	27.2 7	42.2 11	52.8 12	61.8 11	68.8 10	78.1 8	404.0 12



STATION\_NUMBER 6-4855.00

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

BIG SIOUX RIVER AT AKRON, IA.

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1929	13200.0 14	12300.0 13	9700.0 10	7010.0 10	4150.0 18	2710.0 19	2320.0 15	1930.0 17	1430.0 17	784.0 17
1930	3660.0 33	3210.0 33	2450.0 33	1770.0 33	1500.0 32	1070.0 29	848.0 29	906.0 29	682.0 29	421.0 28
1931	1260.0 38	822.0 39	517.0 39	325.0 39	210.0 40	151.0 40	135.0 40	127.0 40	125.0 40	120.0 40
1932	13300.0 12	12000.0 14	9620.0 11	6090.0 15	4240.0 15	2810.0 17	2070.0 21	1790.0 20	1310.0 20	752.0 18
1933	10700.0 19	9420.0 19	6090.0 23	3340.0 28	1940.0 29	1070.0 30	771.0 30	605.0 32	583.0 30	367.0 31
1934	10300.0 20	8000.0 23	4920.0 25	2670.0 31	1540.0 31	907.0 34	641.0 35	521.0 36	384.0 35	250.0 35
1935	2960.0 34	2500.0 34	1940.0 34	1450.0 34	1050.0 34	793.0 35	669.0 34	521.0 33	474.0 33	297.0 34
1936	13300.0 13	12800.0 11	11300.0 8	8310.0 6	5550.0 7	3100.0 12	2380.0 15	1890.0 18	1280.0 21	708.0 20
1937	5550.0 29	4850.0 30	4520.0 28	3970.0 23	3100.0 22	2350.0 22	2140.0 18	1950.0 19	1320.0 19	634.0 21
1938	10800.0 18	10100.0 17	9550.0 12	7050.0 9	4840.0 11	2810.0 18	2250.0 17	2020.0 15	1660.0 14	1050.0 14
1939	6000.0 27	5500.0 27	4490.0 29	3570.0 25	2590.0 25	1620.0 27	1200.0 27	1050.0 28	950.0 25	593.0 23
1940	9670.0 23	8680.0 22	6920.0 21	4750.0 21	2870.0 24	1810.0 25	1370.0 25	1120.0 27	780.0 28	424.0 29
1941	5580.0 28	5310.0 28	4620.0 27	3920.0 24	3650.0 21	2580.0 21	1990.0 22	1520.0 22	1080.0 22	567.0 24
1942	20000.0 7	15900.0 8	11500.0 7	8100.0 7	5720.0 6	4150.0 6	3520.0 6	3180.0 6	2450.0 6	1290.0 7
1943	11600.0 15	10300.0 15	8820.0 15	6000.0 17	4640.0 13	3070.0 13	2450.0 14	2070.0 14	1880.0 13	1170.0 10
1944	15400.0 11	13500.0 10	9260.0 13	6230.0 14	4280.0 15	3750.0 8	3450.0 7	3010.0 7	2720.0 4	1630.0 4
1945	11400.0 16	9550.0 18	7760.0 19	6030.0 15	4530.0 14	3250.0 11	2480.0 12	2720.0 9	2210.0 8	1320.0 6
1946	8780.0 24	7970.0 24	6620.0 22	5210.0 19	5020.0 8	3370.0 10	2480.0 13	2000.0 15	1550.0 16	897.0 16
1947	9820.0 22	9010.0 21	7020.0 20	5350.0 13	4230.0 17	2970.0 14	3280.0 8	2780.0 9	2020.0 11	1220.0 8
1948	10300.0 21	9350.0 20	7810.0 18	4500.0 12	4710.0 12	3410.0 9	2870.0 10	2330.0 13	2060.0 10	1170.0 11
1949	11100.0 17	10400.0 15	8060.0 16	6970.0 11	4970.0 10	3920.0 7	2920.0 9	2340.0 12	1650.0 15	935.0 15
1950	5170.0 30	5050.0 29	4430.0 30	3500.0 27	2310.0 27	1680.0 26	1450.0 25	1280.0 24	935.0 27	531.0 27
1951	27600.0 4	25000.0 4	20600.0 4	15700.0 4	9910.0 4	6200.0 4	4740.0 4	4540.0 3	3480.0 3	1820.0 3
1952	31300.0 3	27900.0 3	21400.0 3	17000.0 3	12200.0 3	7270.0 2	5830.0 2	4210.0 2	3660.0 2	2020.0 2
1953	15100.0 9	14400.0 9	8990.0 14	5150.0 20	2660.0 20	2990.0 16	2570.0 11	2490.0 10	2080.0 9	1140.0 12
1954	20100.0 5	16600.0 7	11100.0 9	6380.0 13	3960.0 19	2650.0 20	2110.0 20	2420.0 11	1900.0 12	1090.0 13
1955	4520.0 31	3770.0 32	2790.0 32	1830.0 32	1320.0 33	965.0 31	760.0 31	629.0 30	457.0 34	312.0 32
1956	1740.0 36	1300.0 37	1080.0 37	755.0 38	517.0 38	480.0 38	406.0 38	361.0 38	336.0 37	191.0 39
1957	13500.0 8	16900.0 5	12200.0 6	7200.0 9	4890.0 9	2900.0 15	2130.0 19	1750.0 21	1370.0 18	728.0 19
1958	1040.0 39	928.0 38	887.0 38	767.0 37	693.0 37	566.0 37	485.0 37	425.0 37	320.0 38	230.0 37
1959	7810.0 26	6440.0 25	4700.0 26	2730.0 30	1580.0 30	909.0 33	671.0 33	559.0 35	422.0 35	242.0 35
1960	43900.0 2	41600.0 2	32400.0 2	21400.0 2	12700.0 2	7020.0 3	5030.0 3	3990.0 4	2680.0 5	1400.0 5
1961	8430.0 25	7400.0 25	4940.0 24	3740.0 25	2960.0 23	1900.0 24	1460.0 24	1260.0 25	950.0 25	560.0 25
1962	50700.0 1	45300.0 1	35300.0 1	24600.0 1	14500.0 1	8370.0 1	6940.0 1	5910.0 1	4260.0 1	2230.0 1
1963	1630.0 37	1630.0 35	1580.0 35	1280.0 35	877.0 36	686.0 36	635.0 35	581.0 34	575.0 31	308.0 30
1964	2400.0 35	1990.0 35	1540.0 36	1170.0 35	1040.0 35	950.0 32	733.0 32	613.0 31	477.0 32	307.0 33
1965	20100.0 6	19100.0 5	16200.0 5	12300.0 5	7290.0 5	4740.0 5	3910.0 5	3230.0 5	2250.0 7	1190.0 9
1966	16000.0 10	12500.0 12	7990.0 17	4210.0 22	2420.0 26	2050.0 23	1620.0 23	1350.0 23	968.0 23	630.0 22



STATION\_NUMBER 5-4855.00

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

BIG SIOUX RIVER AT AKRON, IA.

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1967	4500.0 32	4200.0 31	3280.0 31	2800.0 29	2060.0 28	1340.0 28	1110.0 28	1230.0 26	960.0 24	543.0 26
1968	596.0 40	546.0 40	405.0 40	302.0 40	254.0 39	218.0 39	204.0 39	202.0 39	173.0 39	125.0 39











## STATION\_NUMBER 6-4860.00

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## MISSOURI RIVER AT SIOUX CITY, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1930	6100.0 19	7000.0 19	8030.0 24	8110.0 21	8160.0 13	8740.0 13	9710.0 17	11500.0 16	12700.0 4	34000.0 24
1931	5510.0 14	5550.0 12	5780.0 10	6680.0 13	7800.0 11	7850.0 9	10100.0 19	11600.0 17	13300.0 8	22800.0 14
1940	3100.0 3	3100.0 1	3130.0 1	3260.0 1	3700.0 1	4590.0 1	5600.0 1	7220.0 1	8190.0 1	21500.0 6
1941	3700.0 9	4000.0 6	4270.0 5	5020.0 5	6270.0 5	7280.0 5	7120.0 2	7540.0 2	9600.0 2	16300.0 1
1942	2920.0 1	3100.0 2	4080.0 3	4610.0 2	5570.0 2	6620.0 2	7350.0 3	9040.0 8	13200.0 7	22000.0 8
1943	6000.0 17	6000.0 15	6030.0 12	6350.0 11	6720.0 8	7840.0 8	8660.0 7	11600.0 18	15500.0 15	30600.0 22
1944	10200.0 29	10400.0 29	10400.0 28	10600.0 28	11900.0 28	14000.0 28	15100.0 27	16800.0 27	20600.0 24	36800.0 25
1945	12000.0 30	12000.0 30	12400.0 30	13100.0 30	13600.0 29	14200.0 29	17100.0 29	19300.0 29	21800.0 26	43200.0 30
1946	3300.0 4	3370.0 5	4810.0 7	6080.0 10	8100.0 12	9120.0 19	9640.0 16	12000.0 19	17300.0 19	26000.0 18
1947	3520.0 6	3550.0 3	4020.0 2	4770.0 3	6510.0 6	9250.0 20	10700.0 20	13000.0 21	19200.0 20	25400.0 16
1948	7400.0 25	7600.0 25	8240.0 25	9250.0 27	11800.0 27	12600.0 25	12700.0 25	14800.0 25	22200.0 27	40300.0 28
1949	3700.0 7	4330.0 8	5210.0 8	6000.0 8	7200.0 10	10400.0 22	12400.0 23	16700.0 26	23300.0 29	39600.0 27
1950	3800.0 8	3830.0 4	4090.0 4	4910.0 4	6150.0 4	7390.0 7	8950.0 13	11100.0 15	16800.0 18	30600.0 23
1951	4000.0 10	4230.0 7	4790.0 6	5930.0 7	8530.0 20	13000.0 27	13700.0 26	14400.0 24	21700.0 25	38400.0 26
1952	6800.0 23	6800.0 17	6910.0 16	6990.0 14	8290.0 16	12700.0 26	17700.0 30	20300.0 31	27900.0 31	41100.0 29
1953	7000.0 24	7270.0 22	7510.0 19	7700.0 18	8830.0 24	10600.0 23	12400.0 24	14300.0 23	19500.0 21	44000.0 31
1954	8700.0 27	8070.0 26	8430.0 27	9140.0 26	9580.0 26	10800.0 24	12300.0 22	14100.0 22	19500.0 22	30100.0 21
1955	6200.0 20	6270.0 16	6710.0 15	7400.0 16	8570.0 21	9000.0 17	9910.0 18	10400.0 14	15300.0 14	22800.0 15
1956	7300.0 26	8250.0 27	8330.0 26	8740.0 25	8800.0 23	8980.0 16	9090.0 14	9430.0 11	16000.0 16	22600.0 13
1957	6000.0 18	7230.0 21	7700.0 20	8070.0 20	8500.0 19	8670.0 12	8820.0 9	8900.0 6	12700.0 5	22000.0 9
1958	4000.0 11	5500.0 11	6950.0 17	7550.0 17	8350.0 18	8790.0 15	8860.0 10	9110.0 9	13400.0 9	20100.0 3
1959	6500.0 21	7300.0 23	7860.0 22	7960.0 19	8170.0 14	9040.0 18	9510.0 15	9910.0 13	14000.0 10	20400.0 5
1960	6400.0 22	7200.0 20	7710.0 21	8200.0 23	8590.0 22	8640.0 11	8930.0 12	8950.0 7	13000.0 6	20300.0 4
1961	3500.0 5	5570.0 13	6540.0 14	7110.0 15	8180.0 15	8770.0 14	8900.0 11	9760.0 12	15000.0 12	22200.0 12
1962	3000.0 2	4500.0 9	6390.0 13	6610.0 12	6720.0 7	7090.0 4	7630.0 6	8030.0 3	10100.0 3	18600.0 2
1963	5000.0 12	5400.0 10	5430.0 9	5570.0 6	5850.0 3	6790.0 3	7580.0 5	8380.0 5	14400.0 11	22100.0 10
1964	5330.0 15	5900.0 14	5960.0 11	6040.0 9	6880.0 9	7300.0 6	7400.0 4	8310.0 4	15300.0 13	21700.0 7
1965	6000.0 16	7330.0 24	7940.0 23	8160.0 22	8330.0 17	8460.0 10	8800.0 8	9220.0 10	16000.0 17	22100.0 11
1966	13000.0 31	14000.0 31	15800.0 31	16400.0 31	16600.0 31	17600.0 31	18700.0 31	19300.0 30	23300.0 30	26300.0 19
1967	5000.0 13	7000.0 19	7410.0 18	8260.0 24	9230.0 25	10000.0 21	10900.0 21	12800.0 20	19700.0 23	25700.0 17
1968	5780.0 28	9390.0 23	11000.0 29	12700.0 29	14700.0 30	15400.0 30	16300.0 28	17700.0 28	23200.0 28	28100.0 20



STATION\_NUMBER 6-4860.00

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

MISSOURI RIVER AT SIOUX CITY, IOWA

YEAR	1	5	3	5	7	5	15	3	30	4	60	4	90	4	120	3	183	5	ANNUAL	8
1929	179000.0	5	172000.0	5	160000.0	5	136000.0	3	111000.0	4	83600.0	4	69600.0	4	69100.0	3	55800.0	5	34900.0	8
1930	83800.0	17	78500.0	17	70100.0	17	61200.0	17	52500.0	16	47400.0	13	45200.0	13	44600.0	13	37100.0	14	25500.0	16
1931	53600.0	19	48300.0	19	44800.0	19	41900.0	19	36100.0	19	27900.0	32	23300.0	33	22700.0	33	20200.0	33	15700.0	32
1939	165000.0	8	157000.0	8	135000.0	8	95100.0	9	66400.0	13	46900.0	14	47300.0	12	46700.0	12	37200.0	13	25300.0	17
1940	52400.0	20	46300.0	21	39500.0	21	34400.0	26	31100.0	30	26600.0	33	26200.0	32	24700.0	32	22700.0	32	15500.0	33
1941	120000.0	11	115000.0	11	93400.0	14	71500.0	14	55700.0	14	40700.0	16	35900.0	16	32900.0	18	29800.0	22	19900.0	30
1942	126000.0	10	119000.0	10	106000.0	10	94200.0	10	78700.0	9	75600.0	5	63100.0	7	55600.0	9	45300.0	10	29300.0	12
1943	203000.0	3	195000.0	3	178000.0	3	146000.0	2	96300.0	6	68400.0	8	64000.0	6	65700.0	6	54100.0	7	35000.0	7
1944	173000.0	4	169000.0	6	156000.0	6	122000.0	6	113000.0	3	87700.0	2	73100.0	2	72800.0	2	58800.0	2	39700.0	2
1945	111000.0	12	110000.0	12	101000.0	11	89700.0	12	67900.0	12	51100.0	12	42900.0	14	43300.0	14	39400.0	12	30500.0	11
1946	87200.0	16	84300.0	16	71300.0	16	62200.0	16	53000.0	15	43800.0	15	37800.0	15	35100.0	15	31800.0	17	24900.0	18
1947	172000.0	7	166000.0	7	145000.0	7	112000.0	7	90700.0	7	71800.0	6	67900.0	5	66800.0	5	56400.0	3	37900.0	4
1948	110000.0	13	101000.0	13	97600.0	12	91900.0	11	80700.0	8	71300.0	7	61800.0	8	60900.0	7	54900.0	6	38500.0	3
1949	177000.0	6	176000.0	4	163000.0	4	127000.0	5	96900.0	5	67300.0	9	57800.0	10	54200.0	10	46100.0	9	34700.0	9
1950	219000.0	2	212000.0	2	185000.0	2	132000.0	4	117000.0	2	87600.0	3	71500.0	3	67600.0	4	56200.0	4	36700.0	6
1951	149000.0	9	145000.0	9	131000.0	9	103000.0	8	78500.0	10	59500.0	10	58900.0	9	57700.0	8	54000.0	8	37800.0	5
1952	433000.0	1	423000.0	1	359000.0	1	273000.0	1	188000.0	1	125000.0	1	101000.0	1	86300.0	1	66900.0	1	47200.0	1
1953	105000.0	14	101000.0	14	94400.0	13	87400.0	13	71100.0	11	54900.0	11	49300.0	11	47400.0	11	42600.0	11	31300.0	10
1954	49500.0	21	47900.0	20	44200.0	20	35200.0	22	33200.0	25	32600.0	23	31900.0	21	31500.0	22	30400.0	20	24900.0	19
1955	35500.0	25	36100.0	25	34700.0	27	34200.0	27	33700.0	23	31600.0	24	30400.0	25	30000.0	24	29200.0	25	22200.0	22
1956	36500.0	26	35700.0	26	35200.0	25	34600.0	24	33700.0	24	33500.0	20	32600.0	20	32100.0	21	31200.0	19	23600.0	20
1957	35400.0	27	35200.0	27	34900.0	26	34600.0	25	31300.0	29	30700.0	26	29900.0	26	29100.0	27	26900.0	30	19800.0	31
1958	35400.0	28	33500.0	30	32400.0	31	31700.0	31	29600.0	32	28000.0	31	27600.0	31	27600.0	31	27000.0	29	20100.0	28
1959	33000.0	32	32800.0	31	32600.0	30	32100.0	30	31600.0	28	30300.0	29	29200.0	29	28300.0	29	27300.0	28	20600.0	27
1960	55100.0	15	87900.0	15	75800.0	15	62300.0	15	45000.0	17	34800.0	18	30800.0	23	29700.0	25	29800.0	23	21400.0	24
1961	32100.0	33	30900.0	33	30400.0	33	30100.0	33	29600.0	33	29400.0	30	29100.0	30	27900.0	30	26800.0	31	20900.0	26
1962	71000.0	18	67200.0	16	61700.0	18	53600.0	18	40600.0	18	32800.0	22	31500.0	22	32400.0	20	30000.0	21	20000.0	29
1963	33200.0	31	32300.0	32	31900.0	32	31300.0	32	30600.0	31	30400.0	28	29600.0	28	28800.0	28	28000.0	27	21200.0	25
1964	35200.0	29	34700.0	28	34400.0	28	34000.0	28	32800.0	26	30700.0	27	29700.0	27	29200.0	26	28200.0	26	21800.0	23
1965	35200.0	30	34200.0	29	33700.0	29	33200.0	29	32400.0	27	31400.0	25	30500.0	24	30100.0	23	29400.0	24	22700.0	21
1966	37400.0	23	36300.0	24	35500.0	24	34700.0	23	34200.0	22	33500.0	21	33000.0	19	32700.0	19	31600.0	18	27400.0	14
1967	35900.0	24	36500.0	23	36200.0	23	36100.0	21	36000.0	20	35700.0	17	34600.0	17	33400.0	17	33100.0	16	26400.0	15
1968	33300.0	22	35000.0	22	37200.0	22	36400.0	20	35500.0	21	34500.0	19	34200.0	18	33900.0	16	33400.0	15	28300.0	13



DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

MISSOURI RIVER AT SIOUX CITY, IOWA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	CFS DAYS
1929				5	7	9	5	15	57	6	16	18	33	32	6	2	5	12	10	17	19	6	8	13	17	9	7	10	4	4	4				12730230.0	
1930			1	2	32	16		17	15	14	31	24	27	14	16	11	16	25	18	20	21	13	9	7	11	2	3								9304200.0	
1931		6	2	12	43	23	16	9	20	19	74	41	32	16	11	4	8	11	4	6	4	3	1												5731910.0	
1939				6	12	25	16	14	28	19	39	9	18	27	34	8	5	12	13	13	21	15	9	7	2	4	2	1			2	3	1		9245530.0	
1940	44	18	8	5	8	11	10	38	43	2	5	4	44	34	27	16	25	12	7	3		1	1												5690940.0	
1941	17	6	30	24	10	7	9	10	22	11	18	3	3	38	65	28	11	12	7	8	5	6	5	2	3			1	1	1	2				7275190.0	
1942	19	3	5	9	21	21	10	1	8	3	16	8	13	16	67	16	22	8	7	11	20	7	5	3	6	9	9	8	6	2	6				10677380.0	
1943		5	8	36	7	6	7	4	10	1	6	6	7	14	29	21	33	53	19	12	8	7	5	4	9	10	7	14	4	2		5	2	4	12770200.0	
1944								17	5	6	20	14	30	10	9	30	51	58	15	10	12	10	5	5	5	3	4	7	4	6	21	3	3	2	1	14526500.0
1945									13	19	26	8	18	33	46	38	43	28	9	11	19	10	8	6	6	4	7	7	2	3	1				11122600.0	
1946	6	2	2		3	25	17	12	19	2	17	10	15	14	34	28	35	47	15	22	9	9	8	9	1	1	1	2							9101900.0	
1947	9	5	3	3	4	6	11	6	21	5	10	1	13	10	14	12	22	29	11	30	35	20	16	13	15	18	7	2	2	1	4	1	1	3	2	13825900.0
1948				2	2	2	9	7	33	12	14	7	13	5	4	5	10	35	20	56	24	16	6	16	20	17	13	6	8	3	1				14081800.0	
1949	4	2	6	4	6	6	1	3	5	12	26	6	5	1	16	2	31	61	29	53	39	11	8	5	2	1	3	4	3	1	2				12662500.0	
1950	9	7	3	4	21	11	6	17	2	2	4	10	22	10	2	5	17	53	29	19	18	14	21	12	9	9	7	1	6	3	2	2	2	2	4	13398500.0
1951	6	1	2	4	4	3	3	2	1	5	37	22	22	9	1	2		9	26	49	46	32	17	17	16	13	6	3			3	1	3		13809200.0	
1952				16	2	2	2	7	4	3	4	2	13	7	12	22	27	54	19	19	30	34	19	19	10	6	3	6	1	3	4	1	2	13		17291900.0
1953				4	10	7	5	6	16	8	31	8	11	4	9	5	32	84	43	16	12	11	8	8	7	4	2	10	2	2					11418300.0	
1954				6	8	4	9	43	4	11	8	15	8	12	18	61	101	48	4	1	4														9076900.0	
1955			4	5	12	15	7	26	49	9	7	3	7	6	9	19	55	100	29	3																8120150.0
1956					8	55	27	17	15	1	2	1	2	1	2	1	37	140	56	1																8653250.0
1957		1		1	24	80	22	12	10	2	23	2	3	3	13	13	53	78	25																	7216390.0
1958	2			5	16	47	40	15	6	2	14	3	3	6	14	34	107	44	7																	7354160.0
1959			1		23	14	11	43	51	1	1	1	1	1	8	24	30	73	80	3																7521990.0
1960				4	18	78	23	10	8	1	1		1	5	38	33	66	57	5	4	1	1	3	2	2	1	2	1	1							7627810.0
1961	1	1	5	4	12	28	33	15	11	4	8	5	6	6	21	45	107	53																		7621890.0
1962	2		14	41	35	30	18	11	11	2	1	1	2	9	28	47	50	14	12	13	10	5	1	4	3	1										7310430.0
1963	6	14	16	15	19	20	6	11	6	1	3		2	1	15	35	132	62	1																	7741000.0
1964		10	13	16	53	15	4		2	1	1		2	2	5	41	112	74	15																	7963830.0
1965		1		1	33	46	9	11	17	1	3	1	4	1	3	8	68	146	12																	8269010.0
1966										3	3	13	49	25	15	6	40	160	48	3																10007700.0
1967	1	2	2	4	5	6	12	7	36	15	13	2		1	3	1	8	106	115	21																9647160.0
1968							2	1	7	3	17	9	59	11	2	2	31	03	136	11																10339760.0



## DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

MISSOURI RIVER AT SIOUX CITY, IOWA

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	126	12053	100.0	9	13000.00	199	9096	75.5	18	33000.0	813	2778	23.0	27	84000	83	287	
1	5510.00	84	11927	99.0	10	14000.00	507	8897	73.8	19	36000.0	435	1965	16.3	28	93000	44	204	
2	6100.00	125	11843	98.3	11	16000.00	250	8390	69.6	20	40000.0	354	1530	12.7	29	100000	31	160	
3	6800.00	232	11718	97.2	12	17000.00	495	8140	67.5	21	45000.0	235	1176	9.8	30	110000	52	129	
4	7500.00	456	11436	95.3	13	19000.00	387	7645	63.4	22	50000.0	163	941	7.8	31	130000	8	77	
5	8400.00	622	11030	91.5	14	21000.00	606	7258	60.2	23	55000.0	152	778	6.5	32	140000	25	69	
6	9300.00	345	10408	86.4	15	24000.00	588	6652	55.2	24	61000.0	144	626	5.2	33	160000	13	44	
7	10000.00	373	10063	83.5	16	26000.00	1365	6064	50.3	25	68000.0	112	482	4.0	34	170000	31	31	
8	11000.00	594	9690	80.4	17	29000.00	1921	4699	39.0	26	75000.0	83	370	3.1					



STATION NUMBER 06486000

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

MISSOURI RIVER AT SIOUX CITY, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1930	6100.00 11	7000.00 13	8030.00 14	8110.00 14	8160.00 10	8740.00 7	9710.00 7	11500.00 6	12700.00 3	34000.00 11
1931	5510.00 9	5550.00 9	5730.00 9	6680.00 10	7800.00 8	7850.00 6	10100.00 9	11600.00 7	13300.00 5	22800.00 5
1940	3100.00 2	3100.00 1	3130.00 1	3260.00 1	3700.00 1	4590.00 1	5600.00 1	7220.00 1	8190.00 1	21500.00 2
1941	3900.00 7	4000.00 6	4270.00 5	5020.00 5	6270.00 4	7280.00 3	7120.00 2	7540.00 2	9600.00 2	16300.00 1
1942	2920.00 1	3100.00 2	4030.00 3	4610.00 2	5570.00 2	6620.00 2	7350.00 3	9040.00 3	13200.00 4	22000.00 3
1943	6000.00 10	6000.00 10	6030.00 10	6350.00 9	6720.00 6	7840.00 5	8660.00 4	11600.00 8	15500.00 7	30600.00 9
1944	10700.00 17	10400.00 17	10400.00 17	10600.00 17	11900.00 17	14000.00 17	15100.00 16	15800.00 16	20600.00 13	36800.00 12
1945	12000.00 18	12000.00 18	12400.00 18	13100.00 18	13600.00 18	14200.00 18	17100.00 17	19300.00 17	21800.00 15	43200.00 17
1946	3300.00 3	3370.00 5	4810.00 7	6080.00 8	8100.00 9	9120.00 9	9640.00 6	12000.00 9	17300.00 9	26000.00 7
1947	3520.00 4	3650.00 3	4020.00 2	4770.00 3	6510.00 5	9250.00 10	10700.00 10	13000.00 10	19200.00 10	25400.00 6
1948	7400.00 15	7600.00 15	8240.00 15	9250.00 16	11800.00 16	12600.00 14	12700.00 14	14800.00 14	22200.00 16	40300.00 15
1949	3700.00 5	4330.00 8	5210.00 8	6000.00 7	7200.00 7	10400.00 11	12400.00 12	16700.00 15	23300.00 17	39500.00 14
1950	3300.00 6	3830.00 4	4090.00 4	4910.00 4	6150.00 3	7390.00 4	8950.00 5	11100.00 5	16800.00 8	30600.00 10
1951	4000.00 8	4230.00 7	4790.00 6	5930.00 6	8530.00 12	13000.00 16	13700.00 15	14400.00 13	21700.00 14	38400.00 13
1952	6900.00 13	6900.00 12	6910.00 12	6990.00 11	8290.00 11	12700.00 15	17700.00 18	20300.00 18	27900.00 18	41100.00 16
1953	7000.00 14	7270.00 14	7510.00 13	7700.00 13	8830.00 14	10600.00 12	12400.00 13	14300.00 12	19500.00 11	44000.00 18
1954	8000.00 16	8070.00 16	8430.00 16	9140.00 15	9580.00 15	10900.00 13	12300.00 11	14100.00 11	19500.00 12	30100.00 8
1955	6200.00 12	6270.00 11	6710.00 11	7400.00 12	8570.00 13	9000.00 8	9910.00 8	10400.00 4	15300.00 6	22800.00 4



STATION NUMBER 06486000

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

MISSOURI RIVER AT SIOUX CITY, IOWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1929	178000.0 5	172000.0 5	160000.0 5	136000.0 3	111000.0 4	83600.0 4	69600.0 4	69100.0 3	55800.0 5	34900.0 8
1930	83800.0 16	78600.0 16	70100.0 16	61200.0 16	52500.0 16	47400.0 13	45200.0 13	44600.0 13	37100.0 14	25500.0 13
1931	53500.0 17	48300.0 17	44800.0 17	41900.0 17	36100.0 17	27900.0 19	23300.0 20	22700.0 20	20200.0 20	15700.0 19
1939	166000.0 8	157000.0 8	135000.0 8	95100.0 9	66400.0 13	46900.0 14	47300.0 12	46700.0 12	37200.0 13	25300.0 14
1940	52400.0 18	46300.0 19	39500.0 19	34400.0 19	31100.0 20	26600.0 20	26200.0 19	24700.0 19	22700.0 19	15500.0 20
1941	120000.0 11	115000.0 11	93400.0 14	71500.0 14	55700.0 14	40700.0 16	35900.0 16	32900.0 16	29800.0 17	19900.0 18
1942	126000.0 10	119000.0 10	106000.0 10	94200.0 10	78700.0 9	75600.0 5	63100.0 7	55600.0 9	45300.0 10	29300.0 12
1943	208000.0 3	195000.0 3	178000.0 3	146000.0 2	96300.0 6	68400.0 8	64000.0 6	65700.0 6	54100.0 7	35000.0 7
1944	178000.0 4	169000.0 6	156000.0 6	122000.0 6	113000.0 3	87700.0 2	73100.0 2	72800.0 2	58800.0 2	39700.0 2
1945	111000.0 12	110000.0 12	101000.0 11	89700.0 12	67900.0 12	51100.0 12	42900.0 14	43300.0 14	39400.0 12	30500.0 11
1946	87200.0 15	84300.0 15	71300.0 15	62200.0 15	53000.0 15	43800.0 15	37800.0 15	35100.0 15	31800.0 15	24900.0 15
1947	172000.0 7	156000.0 7	145000.0 7	112000.0 7	90700.0 7	71800.0 6	67900.0 5	66800.0 5	56400.0 3	37900.0 4
1948	110000.0 13	101000.0 13	97600.0 12	91300.0 11	80700.0 8	71300.0 7	61800.0 8	60900.0 7	54900.0 6	38500.0 3
1949	177000.0 6	176000.0 4	163000.0 4	127000.0 5	96900.0 5	67300.0 9	57800.0 10	54200.0 10	46100.0 9	34700.0 9
1950	219000.0 2	212000.0 2	185000.0 2	132000.0 4	117000.0 2	87600.0 3	71500.0 3	67600.0 4	56200.0 4	36700.0 6
1951	149000.0 9	145000.0 9	131000.0 9	103000.0 8	78500.0 10	59500.0 10	58900.0 9	57700.0 8	54000.0 8	37800.0 5
1952	438000.0 1	423000.0 1	359000.0 1	273000.0 1	188000.0 1	125000.0 1	101000.0 1	96300.0 1	66900.0 1	47200.0 1
1953	105000.0 14	101000.0 14	94400.0 13	87400.0 13	71100.0 11	54900.0 11	49300.0 11	47400.0 11	42600.0 11	31300.0 10
1954	49500.0 19	47900.0 18	44200.0 18	35200.0 18	33200.0 19	32600.0 17	31900.0 17	31500.0 17	30400.0 16	24900.0 16
1955	36500.0 20	36100.0 20	34700.0 20	34200.0 20	33700.0 18	31600.0 18	30400.0 18	30000.0 18	29200.0 18	22200.0 17



STATION NUMBER 06486000

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

MISSOURI RIVER AT SIOUX CITY, IOWA

YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS				
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33		34			
1929													12	14	15	57	17	42	46	5	6	13	19	25	12	14	24	9	13	8	4		5	4			12730230.0		
1930													1	1	33	16	17	15	22	57	31	16	23	29	29	26	24	10	11	4	1						9304200.0		
1931																																						5731910.0	
1939																																						9245530.0	
1940																																						5690940.0	
1941																																							7275190.0
1942																																							10677380.0
1943																																							12770200.0
1944																																							14526500.0
1945																																							11122600.0
1946																																							9101900.0
1947																																							13825900.0
1949																																							14081800.0
1944																																							12662500.0
1950																																							13398500.0
1951																																							13809200.0
1952																																							17291900.0
1953																																							11418300.0
1954																																							9076900.0
1955																																							8120150.0

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	7304	100.0	9	9800.00	256	6405	87.7	18	38000.0	481	1687	23.1	27	150000	30	61	.8
1	2920.00	16	7304	100.0	10	11000.00	414	6149	84.2	19	44000.0	359	1206	16.5	28	170000	17	31	.4
2	3400.00	24	7288	99.9	11	13000.00	376	5735	78.5	20	52000.0	197	847	11.6	29	200000	5	14	.1
3	4000.00	26	7264	99.5	12	15000.00	609	5359	73.4	21	60000.0	201	650	8.9	30	230000	3	9	.1
4	4600.00	29	7238	99.1	13	18000.00	470	4750	65.0	22	70000.0	134	449	6.1	31	270000	1	6	.0
5	5200.00	91	7210	98.7	14	21000.00	423	4280	59.6	23	81000.0	118	315	4.3	32	320000	2	5	.0
6	5700.00	141	7129	97.6	15	24000.00	637	3857	52.8	24	94000.0	68	197	2.7	33	370000	2	3	.0
7	7200.00	273	6988	95.7	16	28000.00	963	3220	44.1	25	110000.0	52	129	1.8	34	430000	1	1	.0
8	7400.00	305	6710	91.9	17	33000.00	565	2252	30.8	26	130000.0	16	77	1.1					



STATION NUMBER 06486000

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

MISSOURI RIVER AT SIOUX CITY, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1957	6000.00 3	7230.00 8	7700.00 7	8070.00 7	8500.00 8	8570.00 6	8820.00 5	8900.00 4	12700.00 2	22000.00 6
1958	4000.00 3	5500.00 3	6950.00 5	7550.00 5	8350.00 7	8790.00 8	8860.00 6	9110.00 6	13400.00 4	20100.00 2
1959	6500.00 10	7300.00 9	7860.00 9	7960.00 6	9170.00 4	9040.00 9	9510.00 9	9910.00 9	14000.00 5	20400.00 4
1960	6800.00 11	7200.00 7	7710.00 8	8200.00 9	8590.00 9	8640.00 5	8930.00 8	8950.00 5	13000.00 3	20300.00 3
1961	3500.00 2	5670.00 4	6540.00 4	7110.00 4	8180.00 5	8770.00 7	8900.00 7	9760.00 8	15000.00 7	22200.00 9
1962	3000.00 1	4500.00 1	6390.00 3	6610.00 3	6720.00 2	7090.00 2	7580.00 3	8030.00 1	10100.00 1	18600.00 1
1963	5000.00 4	5400.00 2	5430.00 1	5570.00 1	5850.00 1	6790.00 1	7580.00 2	8380.00 3	14400.00 6	22100.00 7
1964	5830.00 6	5500.00 5	5760.00 2	6040.00 2	6890.00 3	7300.00 3	7400.00 1	8310.00 2	15300.00 8	21700.00 5
1965	6000.00 7	7330.00 10	7940.00 10	8160.00 8	8330.00 6	8460.00 4	8800.00 4	9220.00 7	16000.00 9	22100.00 8
1966	13000.00 14	14000.00 15	15900.00 15	16400.00 15	16600.00 15	17600.00 15	18700.00 14	19300.00 13	23300.00 13	26200.00 11
1967	5000.00 5	7000.00 6	7410.00 6	8280.00 10	9230.00 10	10000.00 10	10900.00 10	12900.00 10	19700.00 10	25700.00 10
1968	9780.00 13	9300.00 12	11000.00 12	12700.00 12	14700.00 12	15400.00 12	16300.00 11	17700.00 11	23200.00 12	28100.00 12
1969	6240.00 9	7550.00 11	10200.00 11	12000.00 11	13600.00 11	15300.00 11	16400.00 12	17900.00 12	22900.00 11	28100.00 13
1970	9000.00 12	10500.00 13	12200.00 13	13400.00 13	15300.00 14	16500.00 14	17900.00 13	21000.00 14	28700.00 14	37200.00 15
1971	13500.00 15	13500.00 14	13900.00 14	14300.00 14	15000.00 13	16300.00 13	19500.00 15	22800.00 15	29400.00 15	33900.00 14



STATION NUMBER 06486000

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

MISSOURI RIVER AT SIOUX CITY, IOWA

	1	3	7	15	30	60	90	120	183	ANNUAL
EAR										
956	36500.0 9	35700.0 9	35200.0 9	34600.0 9	33700.0 9	33600.0 7	32600.0 7	32100.0 8	31200.0 7	23600.0 7
957	35400.0 10	35200.0 10	34900.0 10	34600.0 10	31300.0 13	30700.0 11	29900.0 11	29100.0 12	26900.0 15	19800.0 16
958	35400.0 11	33500.0 13	32400.0 14	31700.0 14	29600.0 15	28000.0 16	27600.0 16	27600.0 16	27000.0 14	20100.0 14
959	33000.0 15	32800.0 14	32600.0 13	32100.0 13	31600.0 12	30300.0 14	29200.0 14	29300.0 14	27300.0 13	20600.0 13
960	95100.0 1	87900.0 1	75800.0 1	62300.0 1	45000.0 4	34800.0 5	30800.0 9	29700.0 10	29800.0 9	21400.0 10
961	32100.0 16	30900.0 16	30400.0 16	30100.0 16	29600.0 16	29400.0 15	29100.0 15	27900.0 15	26800.0 16	20900.0 12
962	71000.0 3	67200.0 4	61700.0 4	53600.0 4	40600.0 5	32800.0 9	31500.0 8	32400.0 7	30000.0 8	20000.0 15
963	33200.0 14	32300.0 15	31900.0 15	31300.0 15	30600.0 14	30400.0 13	29600.0 13	28800.0 13	28000.0 12	21200.0 11
964	35200.0 12	34700.0 11	34400.0 11	34000.0 11	32800.0 10	30700.0 12	29700.0 12	29200.0 11	28200.0 11	21800.0 9
965	35200.0 13	34200.0 12	33700.0 12	33200.0 12	32400.0 11	31400.0 10	30500.0 10	30100.0 9	29400.0 10	22700.0 8
966	37400.0 7	36300.0 8	35500.0 8	34700.0 8	34200.0 8	33500.0 8	33000.0 6	32700.0 6	31600.0 6	27400.0 5
967	36900.0 8	36600.0 7	36200.0 7	36100.0 7	36000.0 6	35700.0 4	34600.0 4	33400.0 5	33100.0 5	26400.0 6
968	39300.0 6	38000.0 6	37200.0 6	36400.0 6	35500.0 7	34500.0 6	34200.0 5	33900.0 4	33400.0 4	28300.0 4
969	75400.0 2	73000.0 2	67100.0 2	60500.0 2	54400.0 1	53100.0 1	48400.0 2	45800.0 2	45800.0 2	34300.0 2
970	51200.0 5	49900.0 5	49400.0 5	48900.0 5	46400.0 3	43700.0 3	42300.0 3	41000.0 3	38400.0 3	33500.0 3
971	69800.0 4	67400.0 3	64700.0 3	59000.0 3	54200.0 2	51800.0 2	50800.0 1	50400.0 1	47300.0 1	38300.0 1



STATION NUMBER 06486000

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

MISSOURI RIVER AT SIOUX CITY, IOWA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	CFS_DAYS
1956												26	57	24	11	4	1	2	1	2	1	2	1	37	105	81	11								8653250.0	
1957								1		11	57	51	20	7	3	2	23	4	1	3	13	13	53	63	35	5										7216390.0
1958			1					1		4	1	24	71	23	4	2	2	14	5	1	6	14	34	107	41	9	1									7354160.0
1959									1		8	24	13	45	44	7	1	1	1	1	8	24	30	73	74	9										7521990.0
1960										3	6	50	60	14	7	1	1	1	1		5	38	33	66	55	6	3	3	1	1	2	3	1	1	4	7827810.0
1961			1						5	4	4	17	50	18	7	4	4	8	8	3	6	21	45	107	52	1										7621890.0
1962	1			1					3	43	29	31	28	15	9	2	2	1	3		9	28	47	50	11	11	11	10	9	2	5	1	2	1		7310430.0
1963								1	15	19	14	11	13	22	12	5	1	1	3	1	1	15	35	132	57	6										7741000.0
1964									7	14	7	41	30	11	1	1	1	1	1	2		2	5	41	112	67	20	2								7963830.0
1965									1	1	7	48	31	13	9	8	1	3	4	1	1	3	8	68	131	26	1									8269010.0
1966																	3	3	41	21	25	15	6	40	127	72	12									10007700.0
1967								1	4	2	5	5	9	13	14	22	15	18	2		1	3	1	8	71	111	60									9647160.0
1968												3	4	3	3	17	46	22	11	2	2	3	38	180	31	1										10339760.0
1969									1		1	2	2	2	2	4	14	32	23	29	2	3	1	26	45	27	54	20	17	51	4	3	1	1		12509020.0
1970											1	1	1	1	1	5	7	46	12	2	11	1	9	44	35	40	48	86	16							12232900.0
1971																	4	19	25	11	12	12	6	5	5	2	38	40	48	123	6	4	4	1		13986900.0

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	5844	100.0	9	6600.00	78	5766	98.7	18	16000.0	222	4260	72.9	27	38000	156	574	9.8
1	3000.00	1	5844	100.0	10	7300.00	124	5688	97.3	19	18000.0	99	4038	69.1	28	42000	164	418	7.1
2	3300.00	1	5843	100.0	11	8000.00	325	5564	95.2	20	19000.0	122	3939	67.4	29	47000	159	254	4.3
3	3700.00	0	5842	100.0	12	8800.00	406	5239	89.5	21	21000.0	208	3817	65.3	30	52000	64	95	1.6
4	4000.00	2	5842	100.0	13	9700.00	203	4833	82.7	22	24000.0	306	3609	61.9	31	57000	12	31	.5
5	4400.00	0	5840	99.9	14	11000.00	124	4630	79.2	23	26000.0	871	3303	56.5	32	63000	10	19	.3
6	4800.00	2	5840	99.9	15	12000.00	61	4506	77.1	24	29000.0	967	2432	41.5	33	69000	4	9	.1
7	5200.00	23	5838	99.9	16	13000.00	50	4445	76.1	25	32000.0	649	1465	25.1	34	76000	5	5	.0
8	5600.00	49	5815	99.5	17	14000.00	135	4395	75.2	26	35000.0	242	816	14.0					



STATION\_NUMBER 6-6000.00

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

PERRY CREEK AT 38TH STREET AT SIOUX CITY, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1947	0.0 1	0.0 1	0.1 5	0.2 5	0.3 5	0.3 3	0.8 6	2.1 12	3.2 13	8.0 9
1948	0.2 9	0.2 7	0.2 7	0.3 7	0.4 7	0.5 5	0.6 3	0.8 4	1.2 4	13.0 10
1949	0.2 10	0.2 8	0.2 8	0.3 8	0.3 6	0.8 8	1.0 7	1.0 6	1.6 6	14.6 12
1950	1.0 16	1.3 15	1.4 16	2.2 16	2.8 16	3.3 17	3.6 17	4.7 17	12.5 20	33.8 20
1951	0.9 15	0.9 15	0.9 15	1.1 15	1.6 15	1.9 15	2.2 15	2.7 14	4.0 14	27.1 19
1952	3.0 20	3.0 20	3.0 19	3.1 19	4.8 20	6.8 21	9.5 21	12.3 21	31.1 21	46.3 21
1953	4.7 21	5.0 21	5.3 21	5.8 21	6.4 21	6.7 20	6.9 19	7.0 19	7.5 18	25.0 18
1954	1.5 17	1.7 17	1.8 17	2.4 17	4.4 19	6.0 19	7.1 20	9.4 20	9.2 19	21.2 16
1955	2.5 19	2.7 17	3.4 20	3.6 20	3.7 18	4.1 18	4.5 18	4.8 18	5.4 17	14.6 13
1956	0.2 11	0.3 9	0.4 11	0.4 9	0.5 8	0.7 6	1.7 12	1.7 8	1.8 8	7.4 7
1957	0.1 6	0.1 6	0.1 6	0.2 6	0.2 3	0.3 4	0.7 4	0.8 5	1.0 3	3.5 1
1958	0.2 7	0.3 10	0.4 12	0.7 12	1.1 13	1.3 12	1.6 10	1.9 10	2.6 10	6.0 5
1959	0.0 2	0.0 2	0.0 1	0.0 1	0.1 1	0.1 1	0.3 1	0.4 1	0.5 1	4.6 3
1960	0.0 3	0.0 3	0.0 2	0.0 2	0.1 2	0.3 2	0.6 2	0.7 2	1.0 2	14.9 14
1961	0.0 4	0.0 4	0.0 3	0.1 3	1.0 11	1.2 10	1.4 8	1.7 9	2.0 12	20.1 15
1962	0.3 12	0.3 11	0.3 9	0.6 11	1.2 14	1.4 13	1.6 11	2.5 13	2.9 11	23.0 17
1963	1.6 18	1.8 18	2.2 18	2.6 18	3.2 17	3.2 16	3.5 16	3.5 16	4.1 16	14.2 11
1964	0.5 13	0.6 14	0.7 14	0.9 14	1.1 12	1.3 11	1.5 9	1.5 7	1.5 5	5.8 4
1965	0.2 8	0.3 12	0.3 10	0.4 10	0.6 9	0.8 7	0.8 5	0.8 3	1.7 7	6.7 6
1966	0.1 5	0.1 5	0.1 4	0.2 4	0.3 4	1.0 9	2.0 14	2.8 15	4.0 15	8.0 8
1967	0.5 14	0.5 13	0.6 13	0.8 13	0.9 10	1.6 14	1.8 13	2.0 11	2.4 9	4.4 2



## STATION\_NUMBER 6-6000.00

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## PERRY CREEK AT 38TH STREET AT SIOUX CITY, IOWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1946	306.0 19	114.0 21	77.1 18	58.5 16	42.4 15	36.7 12	26.5 12	23.3 12	16.2 12	10.1 12
1947	170.0 21	137.0 19	99.3 16	72.1 14	44.1 14	30.2 14	23.5 14	20.4 14	16.0 13	8.2 14
1948	594.0 13	417.0 8	205.0 8	152.0 8	97.5 8	54.1 8	42.5 8	32.7 8	22.7 8	17.0 8
1949	1600.0 4	763.0 5	350.0 5	285.0 3	206.0 2	125.0 1	85.4 2	65.6 4	48.7 4	29.5 4
1950	1620.0 3	713.0 5	342.0 6	199.0 5	111.0 6	71.3 6	49.2 7	44.8 7	43.9 5	25.1 5
1951	1190.0 6	804.0 4	485.0 3	249.0 4	145.0 4	82.2 5	82.6 3	69.6 3	69.0 1	38.6 1
1952	1390.0 5	843.0 3	380.0 4	192.0 6	124.0 5	86.1 4	78.3 4	72.5 2	65.4 2	37.7 2
1953	1120.0 7	697.0 7	313.0 7	157.0 7	99.5 7	64.2 7	56.2 6	50.9 6	37.4 7	22.3 6
1954	982.0 8	389.0 9	176.0 12	88.5 12	76.4 11	43.2 11	33.0 10	31.9 9	25.5 9	16.8 9
1955	483.0 15	224.0 14	103.0 15	52.6 17	29.1 18	21.3 17	18.8 16	15.2 17	15.1 14	9.6 13
1956	426.0 16	145.0 19	62.5 21	35.4 20	19.3 20	11.6 21	9.5 21	7.7 21	8.6 20	5.2 20
1957	356.0 19	125.0 20	74.8 19	40.2 19	36.2 17	19.9 18	14.6 19	11.9 19	9.0 19	5.2 21
1958	520.0 14	190.0 16	85.5 17	43.9 18	23.0 19	18.0 19	13.9 19	12.2 19	9.2 18	5.4 19
1959	646.0 9	351.0 10	189.0 10	93.2 11	50.6 13	26.6 15	19.2 15	15.7 15	10.8 17	5.7 18
1960	1780.0 1	1020.0 2	844.0 1	403.0 1	205.0 3	107.0 3	73.3 5	56.6 5	43.2 6	22.2 7
1961	647.0 12	332.0 11	195.0 9	97.6 10	87.9 9	47.1 10	32.9 11	31.5 10	23.7 10	12.8 10
1962	1770.0 2	1330.0 1	808.0 2	398.0 2	208.0 1	111.0 2	93.8 1	74.8 1	55.4 3	29.9 3
1963	661.0 10	255.0 13	145.0 13	71.4 15	38.7 16	22.4 16	18.0 17	15.2 16	11.0 16	7.5 16
1964	142.0 22	65.3 22	30.5 22	19.2 22	12.7 22	8.2 22	7.1 22	6.3 22	5.2 22	3.5 22
1965	400.0 17	216.0 15	144.0 14	79.5 13	57.5 12	35.7 13	26.1 13	21.4 13	14.9 15	8.6 15
1966	300.0 20	154.0 17	69.3 20	33.4 21	18.9 21	15.0 20	11.8 20	10.6 20	7.0 21	5.8 17
1967	651.0 11	310.0 12	179.0 11	134.0 9	77.0 10	50.7 9	36.5 9	28.9 11	21.8 11	12.1 11



DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

PERRY CREEK AT 38TH STREET AT SIOUX CITY, IOWA

YEAR	NUMBER OF DAYS IN CLASS																																		CFS DAYS						
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33		34					
1946	6	8	12	17	15	7	15	13	42	50	22	35	47	13	5	7	5	4	16	6	6	6	6	1														3586.4			
1947			6	13	33	12	32	19	28	26	21	43	40	25	9	13	9	8	3	9	10	2	2	1	2												3212.4				
1948			2	11	43	29	34	15	58	54	26	20	8	7	9	9	6	5	4	5	4	1	3	2	2	1	3	4	1							6237.5					
1949			5		16	5	31	45	32	29	22	50	21	26	18	12	5	9	8	4	9	4	1		3	3	2					1	2			10774.4					
1950										25	34	69	64	58	31	8	15	11	8	8	8	5	2	6	7	2	2								1		9150.2				
1951							8	3	4	49	25	39	20	20	19	32	48	22	17	17	10	5	4	4	4	6	3	1	1	1	3						14078.5				
1952										17	6	10	49	24	41	88	46	25	18	14	2	3	1		1	2	4	3							1	1		13912.1			
1953											4	22	147	48	34	45	29	11	5	4	3	2	5	4											1	1		8146.1			
1954								3	9	3	12	61	91	60	68	15	14	10	4	5	1	3		4		1										1		6144.6			
1955			1	5	19	20	4	9	15	14	18	77	95	45	14	9	2	3	3	1	1	1	3	2	3													3497.7			
1956			9	21	16	22	16	13	33	77	74	19	14	14	11	7	6	1	3	4		2	1	1			1											1916.3			
1957			4	7	4	11	9	73	55	68	52	23	23	11	3	3	8	1	2	1	1		2	1		1	1	1										1907.2			
1958	27	14	4	5	16	12	32	29	66	27	34	41	19	10	8	7	3	3	2	3				2												1		1953.7			
1959	29	20	9	25	46	34	72	22	23	14	13	16	17	7	3	5		2	1		3		1	1	1	1	1									1	3	2062.6			
1950	5	9	7	10	41	25	38	47	46	23	24	21	21	11	5	12	4	2	1	3		1	1	1	1	1	1										1	3	8127.3		
1961			1	9	6	15	44	39	49	40	51	28	19	17	16	7	4	3	3	1		2		2	1	2	4	1	1										4658.2		
1962					2	6	20	28	32	47	24	38	24	30	17	12	20	19	9	8	9	2	3	3	2	2	3	1	1	1	1								10909.2		
1963						2	23	8	30	20	91	90	36	25	13	7	6	5	2	2	3					1													1		2737.4
1964			3	14	27	14	29	35	91	77	23	24	14	6	1	2		3	4	1				2	1														1298.2		
1965			6	13	8	28	49	71	29	12	11	30	15	26	18	9	5	7	5	5	2	6	2	1	4	2													3140.4		
1966						2	14	49	36	45	36	40	30	38	28	17	10	5	6	3	3	1				1														2101.7	
1967							3	31	25	46	56	43	37	31	23	16	15	10	10	5	2	1	2	3		1	1	2	1	1										4413.1	

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	
0	0.00	67	9035	100.0	9	1.90	733	5200	64.7	18	27.0	145	602	7.5	27	390	15	52	.6	
1	0.10	70	7968	99.2	10	2.60	603	4467	55.6	19	37.0	103	457	5.7	28	520	16	37	.4	
2	0.20	91	7898	98.3	11	3.50	732	3864	49.1	20	49.0	96	354	4.4	29	700	6	21	.2	
3	0.30	137	7807	97.2	12	4.60	658	3132	39.0	21	66.0	42	258	3.2	30	940	7	15	.1	
4	0.40	322	7670	95.5	13	6.20	670	2474	30.8	22	89.0	42	216	2.7	31	1300	6	8	.0	
5	0.50	272	7348	91.4	14	8.40	362	1804	22.5	23	120.0	36	174	2.2	32	1700	2	2	.0	
6	0.80	619	7076	88.1	15	11.00	329	1442	17.9	24	160.0	38	138	1.7	33					
7	1.10	490	6457	80.4	16	15.00	298	1113	13.9	25	220.0	22	100	1.2	34					
8	1.40	767	5967	74.3	17	20.00	213	815	10.1	26	290.0	26	78	1.0						



STATION\_NUMBER 6-6001.00

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

FLOYD RIVER AT ALTON, IOWA

YEAR	1		3		7		14		30		60		90		120		183		ANNUAL	
1957	0.0	1	0.0	1	0.0	1	0.0	1	0.0	1	0.2	2	0.4	3	0.7	3	0.6	2	5.9	3
1958	0.2	7	0.2	7	0.2	7	0.3	6	1.0	6	1.6	6	3.2	8	4.5	8	5.1	6	11.4	4
1959	0.0	2	0.0	2	0.0	2	0.0	2	0.0	2	0.1	1	0.1	1	0.1	1	0.1	1	5.7	2
1960	0.0	3	0.0	3	0.1	4	0.2	4	1.0	7	2.0	7	2.1	6	2.5	6	3.7	5	33.0	7
1961	1.5	10	1.5	10	1.5	10	1.7	10	3.1	10	4.9	11	8.0	10	10.4	10	24.4	11	60.7	10
1962	1.2	8	1.3	8	1.3	8	1.3	8	1.7	8	2.2	8	3.5	9	4.5	9	6.5	7	69.3	9
1963	1.3	9	1.3	9	1.4	9	1.7	9	2.1	9	2.7	9	3.1	7	4.2	7	6.7	8	50.4	8
1964	0.1	6	0.1	5	0.2	5	0.2	5	0.2	3	0.3	3	0.4	2	0.7	2	0.9	3	3.4	1
1965	0.0	4	0.0	4	0.0	3	0.1	3	0.5	4	1.1	5	1.5	4	2.4	5	8.0	9	23.4	6
1966	2.1	11	2.1	11	2.3	11	2.7	11	3.3	11	4.9	10	9.7	11	19.8	11	22.2	10	95.6	11
1967	0.1	5	0.2	6	0.2	6	0.5	7	0.6	5	1.0	4	1.5	5	1.8	4	1.8	4	19.1	5



STATION\_NUMBER 6-6001.00

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

FLOYD RIVER AT ALTON, IOWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1956	60.0 12	46.7 12	28.1 12	24.1 12	16.4 12	12.8 12	10.3 12	9.0 12	9.1 12	5.0 12
1957	372.0 8	239.0 8	140.0 8	115.0 8	68.0 8	39.3 8	28.1 8	28.8 8	20.2 8	10.6 8
1958	244.0 10	161.0 10	93.3 10	51.4 9	29.4 11	23.6 9	20.9 9	17.7 9	12.5 10	8.4 9
1959	823.0 7	512.0 7	264.0 7	139.0 7	106.0 7	72.9 7	53.5 7	42.0 7	28.5 7	14.4 7
1960	2590.0 3	1900.0 3	1600.0 3	804.0 3	424.0 3	256.0 3	193.0 3	146.0 3	117.0 3	61.7 3
1961	1500.0 5	1080.0 5	635.0 4	454.0 4	380.0 4	226.0 4	166.0 4	134.0 4	93.5 4	53.0 4
1962	7000.0 1	4950.0 1	2900.0 1	1600.0 1	865.0 1	459.0 1	360.0 1	279.0 1	191.0 1	59.7 1
1963	120.0 11	86.7 11	59.3 11	47.8 11	33.0 9	20.8 10	16.3 11	13.0 11	10.0 11	7.6 11
1964	299.0 9	196.0 9	100.0 9	49.9 10	30.8 10	16.6 11	19.7 10	16.1 10	14.3 9	7.8 10
1965	4150.0 2	2680.0 2	2380.0 2	1250.0 2	746.0 2	406.0 2	314.0 2	249.0 2	167.0 2	86.5 2
1966	2130.0 4	1340.0 4	607.0 5	296.0 5	156.0 5	105.0 5	83.5 5	74.1 5	54.4 5	37.2 5
1967	1240.0 6	696.0 6	381.0 6	263.0 6	154.0 6	82.7 6	56.9 6	60.6 6	43.2 6	22.6 6



STATION\_NUMBER 6-6001.00

DURATION TABLE OF DAILY DISCHARGE

FLOYD RIVER AT ALTON, IOWA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34		
YEAR	NUMBER OF DAYS IN CLASS																																	CFS_DAYS			
1956	28	34	33	8	17	8	24	53	15	31	24	12	26	14	12	12	9	2	4																		1826.7
1957	16	43	26	9	8	12	7	19	22	30	35	33	15	21	16	16	5	6	5	4	4	5	4	1		1										3862.1	
1958	12	26	13	11	2	12	7	7	20	30	25	23	36	55	30	22	12	11	6	2	1		1	1												3082.8	
1959	33	68	54	11	8	15	9	5	18	14	22	20	10	8	8	15	15	5	5	9	2	4	1	1	3		1	1							5274.0		
1960							1	6	53	78	30	26	6	6	30	21	34	13	12	11	13	5	5	5	4	1	2			3	1				22584.2		
1961									10	7	3	7	39	26	42	68	35	31	31	19	17	6	4	3	2	4	3	3	2	1						19355.5	
1962									12	7	32	23	17	47	43	15	15	14	34	31	20	11	11	9	7	1	4	3	3	2	2		2	1	1	36381.6	
1963						3	12	16	50	44	30	54	21	64	25	19	9	6	6	4	1	1															2756.0
1964		5	21	30	17	17	33	28	23	33	24	26	33	17	10	16	10	7	8	1	3	2		1	1											2855.0	
1965	5	2	4	4	3	6	6	14	20	10	38	25	47	15	12	24	10	25	18	17	16	7	8	6	3	3	4	1		5		2	1		31588.1		
1966			1		2	5	3	14	22	16	18	29	14	4	12	40	54	47	42	20	7	4	2	4	3					1	1					13560.8	
1967	1	5	5	12	11	15	29	21	41	37	28	39	19	22	23	10	10	7	5	4	3	4	3	1	3	2		1							8246.0		

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	66	4383	100.0	9	1.90	325	3178	72.5	18	36.0	174	580	13.2	27	680	10	34	.7
1	0.10	173	4317	98.5	10	2.60	364	2853	65.1	19	50.0	117	406	9.3	28	950	3	24	.5
2	0.20	153	4144	94.5	11	3.60	316	2489	56.8	20	60.0	77	289	6.6	29	1300	9	21	.4
3	0.30	103	3986	90.9	12	5.10	339	2173	49.6	21	66.0	56	212	4.8	30	1800	4	12	.2
4	0.40	60	3383	86.6	13	7.00	310	1834	41.8	22	130.0	38	156	3.6	31	2500	5	8	.1
5	0.50	99	3823	87.2	14	9.70	212	1524	34.8	23	180.0	32	118	2.7	32	3500	2	3	.0
6	0.70	106	3725	85.0	15	13.00	300	1312	29.9	24	260.0	19	86	2.0	33	4000	1	1	.0
7	1.00	167	3619	82.6	16	19.00	207	1012	23.1	25	360.0	19	67	1.5	34				
8	1.40	272	3450	78.7	17	26.00	225	805	18.4	26	490.0	14	48	1.1					



LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## WEST BRANCH FLOYD RIVER NEAR STURLE, IOWA

YEAR	1		3		7		14		30		60		90		120		183		ANNUAL	
	DISCHARGE	RANKING	DISCHARGE	RANKING	DISCHARGE	RANKING	DISCHARGE	RANKING	DISCHARGE	RANKING	DISCHARGE	RANKING	DISCHARGE	RANKING	DISCHARGE	RANKING	DISCHARGE	RANKING	DISCHARGE	RANKING
1957	0.00	1	0.00	1	0.00	1	0.00	1	0.01	5	0.29	6	0.43	5	0.60	5	0.61	2	4.18	3
1958	0.10	11	0.10	10	0.14	11	0.28	11	0.54	10	1.01	10	2.19	11	2.86	10	2.90	8	7.89	4
1959	0.00	2	0.00	2	0.00	2	0.00	2	0.00	1	0.00	1	0.02	2	0.07	1	0.13	1	2.39	1
1960	0.10	12	0.10	11	0.10	10	0.10	10	0.16	8	0.30	7	0.63	7	0.93	7	1.05	5	25.20	9
1961	0.00	3	0.00	3	0.00	3	0.00	3	0.34	9	0.79	9	1.48	9	2.58	9	7.33	13	40.80	11
1962	0.00	13	0.60	13	0.60	13	0.61	13	1.23	13	2.23	13	2.94	13	3.66	13	7.09	11	73.20	14
1963	0.00	4	0.00	4	0.00	4	0.04	8	0.12	7	1.11	11	2.06	10	3.49	12	5.94	10	43.80	12
1964	0.00	5	0.00	5	0.00	5	0.00	4	0.00	2	0.00	2	0.01	1	0.31	3	0.84	4	3.57	2
1965	0.00	6	0.00	6	0.00	6	0.00	5	0.00	3	0.01	3	0.05	3	0.21	2	1.21	7	11.40	6
1966	0.00	7	0.00	7	0.00	7	0.04	9	0.30	12	5.11	15	7.86	15	11.40	15	24.10	15	59.10	13
1967	0.00	3	0.00	8	0.00	8	0.00	6	0.00	4	0.03	4	0.44	6	0.61	6	1.16	6	13.60	7
1968	0.00	9	0.00	9	0.00	9	0.00	7	0.07	6	0.15	5	0.27	4	0.49	4	0.76	3	11.00	5
1969	0.10	10	0.13	12	0.40	12	0.45	12	0.67	11	0.75	8	0.78	8	1.62	8	7.32	12	13.90	8
1970	1.30	15	1.30	15	1.31	15	1.44	14	1.61	14	1.82	12	2.59	12	3.40	11	4.36	9	74.10	15
1971	1.00	14	1.13	14	1.30	14	1.49	15	1.68	15	3.34	14	5.81	14	8.15	14	10.70	14	35.70	10



## STATION NUMBER 06600300

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## WEST BRANCH FLOYD RIVER NEAR STRUBLE, IOWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1956	210.0 14	82.3 14	43.2 14	28.9 14	23.7 14	18.4 12	12.6 13	10.1 13	7.8 14	4.2 14
1957	573.0 10	260.0 11	151.0 11	102.0 10	57.6 10	31.6 10	22.6 10	17.7 10	12.6 10	6.8 11
1958	111.0 15	57.7 15	34.0 15	21.5 15	15.0 15	10.2 15	8.6 15	7.8 15	5.7 15	3.9 15
1959	464.0 11	249.0 12	169.0 10	82.6 11	44.3 11	23.9 11	18.8 11	14.6 11	10.2 11	5.2 12
1960	3130.0 5	2290.0 3	1630.0 3	807.0 3	430.0 3	242.0 3	172.0 3	131.0 3	90.9 3	46.2 3
1961	400.0 12	400.0 9	307.0 8	166.0 9	148.0 7	88.4 7	63.5 8	53.4 8	39.6 8	22.4 8
1962	5820.0 1	5270.0 1	3280.0 1	1770.0 1	950.0 1	507.0 1	382.0 1	296.0 1	203.0 1	105.0 1
1963	343.0 13	131.0 13	60.8 13	35.7 13	25.1 13	16.3 14	12.3 14	10.1 14	9.5 12	7.0 10
1964	90.0 16	50.0 16	24.4 16	13.6 16	8.7 16	7.1 16	5.8 16	5.5 16	4.8 16	2.9 16
1965	2200.0 6	1120.0 6	993.0 4	506.0 4	323.0 4	170.0 4	137.0 4	122.0 4	83.6 4	44.5 4
1966	3550.0 4	1450.0 5	636.0 6	302.0 6	155.0 6	90.1 6	65.8 7	60.0 7	47.3 6	31.2 6
1967	670.0 8	433.0 8	285.0 9	205.0 7	113.0 8	59.2 9	40.3 9	46.4 9	32.0 9	16.6 9
1968	582.0 9	260.0 10	120.0 12	59.0 12	33.2 12	18.0 13	15.3 12	12.7 12	8.8 13	4.8 13
1969	3990.0 3	3190.0 2	2390.0 2	1290.0 2	707.0 2	368.0 2	252.0 2	210.0 2	141.0 2	73.6 2
1970	1500.0 7	808.0 7	373.0 7	187.0 8	101.0 9	71.1 8	71.3 6	60.7 6	41.8 7	24.3 7
1971	4000.0 2	1750.0 4	790.0 5	385.0 5	200.0 5	115.0 5	81.2 5	99.8 5	75.5 5	41.7 5



DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

WEST BRANCH FLOYD RIVER NEAR STRUBLE, IOWA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34		
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS		
1956	25	6	4	3	17	58	36	62	27	24	28	28	18	12	5	1	5		2	2		1	1	1													1554.3
1957	27	4	6		12	43	46	34	35	52	25	15	26	13	6	5	2	2	3	5			2	1			1									2467.2	
1958	4	26	23	6	12	13	27	28	30	18	40	75	23	17	10	6	2	2	1	1		1														1421.8	
1959	77	30	35	24	24	24	38	23	11	13	11	21	9	6	4	2	4	1	1	2		1	1	2			1								1890.6		
1960		16	9	10	11	24	19	26	40	40	12	4	11	18	18	21	26	21	9	10	7	1	5		1	1	2			1			3		16922.5		
1961	16	3	1	1	1	1		52		1	10	33	65	42	35	32	19	19	7	3	5	4	4	4	4	4	3								8157.8		
1962						13	7	25	6	8	30	10	10	26	48	23	27	27	30	20	15	10	8	6	1	3	3	2	2		1	1		3	38473.3		
1963	10	12	4	1	1	9	11	19	34	38	45	34	26	71	24	9	5	6	5		1			1											2559.1		
1964	82	4	4	2	3	25	14	26	76	46	30	17	13	6	8	3	3		1	2	1														1044.8		
1965	78	17	1	3	2	9	23	26	1	4	11	18	24	21	21	19	18	13	14	6	4	4	1	7	2	4	4	3		1	1			16240.3			
1966	8	6	3	2	2	2		5	16	21	31	24	17	39	56	54	31	20	10	6	4	1		1	1	1		3					1	11400.7			
1967	59	1	1	1	1	3	17	52	60	35	29	13	21	15	14	3	7	10	4	2	3	2	4	3	1		4							6045.9			
1968	17	20	23	22	11	34	52	77	34	34	9	9	6	4	3	2	1	1	2		1	1	1	1			1								1762.1		
1969		2	1	1	14	12	44	11	4	11	12	21	39	31	27	29	22	25	13	6	7	9	4	4	6	2	1	1		1	2	2	1		26868.7		
1970								11	41	51	19	21	59	24	29	25	35	24	7	5	4	3	3		1			1							8874.7		
1971									20	14	34	14	30	44	51	72	29	20	8	9	5	4	2	1	2		1	2	1	1				1	15225.1		

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	403	5044	100.0	9	1.90	410	3472	59.4	18	37.0	117	451	7.7	27	700	12	37	.6
1	0.10	147	5441	93.1	10	2.70	376	3062	52.4	19	51.0	79	334	5.7	28	970	3	25	.4
2	0.20	115	5294	90.6	11	3.70	357	2686	46.0	20	70.0	57	255	4.4	29	1300	6	22	.3
3	0.30	76	5179	88.6	12	5.10	397	2329	39.9	21	98.0	42	198	3.4	30	1900	4	16	.2
4	0.40	111	5103	87.3	13	7.10	389	1932	33.1	22	140.0	36	156	2.7	31	2600	7	12	.2
5	0.50	269	4992	85.4	14	9.90	359	1543	26.4	23	190.0	31	120	2.1	32	3600	2	5	.0
6	0.70	339	4723	80.9	15	14.00	306	1184	20.3	24	260.0	20	89	1.5	33	5000	3	3	.0
7	1.00	477	4384	75.0	16	19.00	236	878	15.0	25	360.0	15	69	1.2	34				
8	1.40	435	3907	66.9	17	26.00	191	642	11.0	26	500.0	17	54	0.9					



STATION NUMBER 06600500

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

FLOYD RIVER AT JAMES, ICWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1937	1.00 1	1.67 2	1.86 3	1.93 3	2.47 3	4.97 4	6.19 4	8.18 5	30.00 14	68.20 9
1938	6.00 11	6.33 9	9.57 17	10.40 17	10.70 13	12.70 13	16.60 13	20.30 13	30.10 15	169.00 20
1939	10.00 23	10.30 22	10.90 27	11.80 21	21.80 28	33.70 30	34.50 29	38.60 28	55.40 33	133.00 16
1940	2.00 4	2.00 4	2.14 4	2.50 4	2.57 4	2.97 2	3.87 2	4.64 2	5.26 2	28.20 3
1941	9.00 18	9.33 17	9.71 18	10.40 18	11.50 15	12.40 12	12.70 11	13.80 11	25.40 11	99.90 14
1942	6.00 12	6.67 11	7.14 10	8.71 11	14.50 21	22.30 23	27.20 24	29.40 22	34.30 17	69.00 11
1943	14.00 28	14.70 28	15.00 28	15.10 27	16.10 25	17.60 21	24.60 21	32.50 24	80.20 32	211.00 25
1944	10.70 19	10.00 19	10.30 21	10.90 19	13.30 18	24.10 27	27.10 23	27.60 19	41.90 20	152.00 19
1945	20.00 31	20.70 31	21.40 32	22.90 31	27.40 32	36.70 32	56.30 33	68.30 33	122.00 34	400.00 34
1946	21.00 32	21.00 32	21.00 31	21.10 30	22.70 29	26.40 28	31.30 27	34.00 25	62.70 28	256.00 29
1947	8.00 15	8.33 15	9.14 14	12.00 22	15.20 23	23.20 26	29.70 25	37.30 26	57.40 26	97.60 13
1948	8.00 16	8.00 13	8.29 13	8.93 12	10.40 12	17.10 18	21.00 18	22.70 17	23.20 9	237.00 27
1949	5.00 8	9.00 16	9.43 15	9.71 15	10.80 14	14.80 15	17.50 15	18.00 12	30.80 16	138.00 18
1950	10.00 20	10.30 23	11.40 23	13.00 24	13.40 19	17.40 19	22.10 19	28.00 20	72.00 30	136.00 17
1951	12.00 24	12.70 26	12.90 26	13.40 26	14.40 20	15.50 16	17.60 16	21.80 15	35.00 19	192.00 23
1952	135.00 35	135.00 35	136.00 35	138.00 35	145.00 35	190.00 35	222.00 35	261.00 35	466.00 35	851.00 35
1953	14.00 29	15.00 29	20.70 30	30.30 33	35.70 34	37.00 33	37.90 31	40.20 29	46.90 21	236.00 26
1954	29.00 34	29.00 34	29.90 34	30.90 34	32.50 33	43.80 34	57.00 34	57.60 32	64.10 29	373.00 32
1955	23.00 33	23.00 33	23.00 33	23.40 32	24.20 31	31.80 29	35.10 30	40.80 30	52.90 25	186.00 22
1956	5.27 9	5.27 7	5.40 7	5.69 7	5.85 7	6.03 5	6.54 5	7.77 4	9.77 4	42.90 5
1957	1.70 3	1.70 3	1.70 2	1.79 2	2.24 2	3.60 3	4.70 3	5.56 3	6.18 3	17.80 1
1958	8.00 17	8.00 14	8.00 12	8.21 10	9.22 10	10.40 11	16.80 14	21.40 14	24.40 10	49.00 6
1959	1.00 2	1.00 1	1.00 1	1.00 1	1.12 1	1.51 1	2.04 1	2.68 1	3.13 1	21.80 2
1960	7.00 14	7.00 12	7.00 9	7.00 9	7.17 9	7.41 8	11.10 10	12.20 9	12.70 6	126.00 15
1961	12.00 25	12.00 24	12.00 24	12.10 23	15.10 22	17.40 20	21.00 17	26.70 18	60.00 27	263.00 31
1962	10.00 21	10.00 20	10.00 19	10.30 16	12.00 17	16.80 17	24.30 20	28.40 21	35.30 18	241.00 28
1963	10.00 22	10.00 21	10.10 20	11.20 20	16.60 26	22.40 24	24.80 22	31.80 23	50.50 23	205.00 24
1964	4.00 5	4.00 5	4.00 5	4.17 5	4.34 5	6.17 6	7.98 6	9.24 6	11.40 5	30.60 4
1965	4.50 6	4.50 6	4.50 6	4.79 6	5.83 6	6.88 7	8.02 7	10.00 7	26.50 12	64.30 7
1966	15.00 30	15.00 30	15.00 29	16.60 29	23.30 30	34.80 31	51.00 32	69.40 34	76.60 31	261.00 30
1967	4.50 7	9.50 18	9.50 16	9.50 14	9.60 11	9.93 10	10.80 8	11.60 8	14.40 7	69.50 10
1968	6.70 10	6.00 8	6.01 8	6.08 8	6.94 8	9.25 9	11.00 9	13.60 10	15.00 8	73.20 12
1969	6.10 13	6.60 10	7.60 11	9.47 13	11.60 16	13.50 14	14.80 12	22.40 16	27.30 13	65.90 8
1970	12.00 26	12.00 25	12.30 25	13.30 25	15.40 24	23.00 25	30.10 26	37.50 27	52.20 24	385.00 33
1971	13.00 27	13.70 27	14.10 27	15.50 28	18.20 27	19.80 22	33.50 28	42.40 31	47.10 22	179.00 21



STATION NUMBER 066C0500

HIGHEST MEAN DISCHARGE, IN CFS, AND BANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

FLOYD RIVER AT JAMES, ICWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1936	3890.0 16	3520.0 15	2910.0 10	1780.0 10	980.0 13	525.0 16	407.0 16	313.0 17	214.0 22	121.0 24
1937	2930.0 19	2440.0 18	1540.0 17	951.0 20	617.0 21	386.0 22	327.0 21	283.0 20	248.0 17	134.0 20
1938	1790.0 22	1580.0 22	1230.0 23	1160.0 16	696.0 17	394.0 21	311.0 22	262.0 23	202.0 23	152.0 17
1939	1200.0 29	1090.0 27	751.0 28	595.0 27	357.0 27	214.0 27	162.0 27	132.0 27	105.0 27	71.5 27
1940	1330.0 26	1010.0 28	613.0 29	324.0 30	217.0 30	141.0 31	117.0 30	96.3 30	76.6 30	41.3 31
1941	1500.0 25	1370.0 25	1250.0 22	919.0 23	577.0 24	373.0 25	293.0 24	237.0 25	196.0 24	108.0 25
1942	4480.0 13	3600.0 14	2090.0 15	1330.0 15	949.0 15	666.0 11	509.0 12	436.0 13	339.0 13	189.0 13
1943	1260.0 28	1010.0 29	848.0 26	765.0 25	629.0 20	457.0 19	348.0 19	279.0 21	239.0 18	146.0 18
1944	6270.0 10	3870.0 12	2440.0 13	1580.0 12	1010.0 11	900.0 8	843.0 6	718.0 6	561.0 6	329.0 6
1945	5040.0 12	4600.0 11	2840.0 11	1700.0 11	994.0 12	658.0 13	539.0 10	610.0 9	494.0 7	290.0 7
1946	1290.0 27	1160.0 26	1140.0 24	987.0 19	670.0 19	477.0 18	354.0 18	292.0 18	215.0 21	124.0 23
1947	2960.0 18	2360.0 20	1410.0 19	1020.0 18	671.0 18	529.0 15	530.0 11	500.0 12	373.0 12	215.0 11
1948	2310.0 21	1880.0 21	1350.0 21	937.0 22	728.0 16	488.0 17	360.0 17	279.0 22	230.0 19	133.0 21
1949	3940.0 15	3800.0 13	2540.0 12	1350.0 13	956.0 14	606.0 14	453.0 15	368.0 15	262.0 15	162.0 15
1950	4270.0 14	2430.0 19	1360.0 20	751.0 26	588.0 23	376.0 24	271.0 25	291.0 19	259.0 16	153.0 16
1951	7480.0 7	6550.0 7	5270.0 5	3970.0 4	2180.0 4	1520.0 3	1310.0 1	1270.0 1	1240.0 1	650.0 1
1952	11900.0 5	7060.0 6	3910.0 8	2600.0 8	1970.0 5	1470.0 4	1160.0 3	935.0 4	760.0 2	498.0 2
1953	32400.0 1	17200.0 1	8130.0 3	4110.0 3	2300.0 3	1320.0 5	973.0 5	839.0 5	624.0 5	336.0 5
1954	6040.0 11	5510.0 8	3610.0 9	1970.0 9	1160.0 9	675.0 10	503.0 13	526.0 11	414.0 10	235.0 10
1955	892.0 32	708.0 31	445.0 31	290.0 31	192.0 31	185.0 28	158.0 28	131.0 28	100.0 28	71.0 28
1956	201.0 36	127.0 36	69.4 36	54.3 36	43.5 36	37.6 35	35.1 36	31.5 36	30.8 35	19.9 36
1957	1150.0 30	725.0 30	611.0 30	389.0 29	260.0 29	157.0 30	116.0 31	92.8 31	71.8 31	40.1 32
1958	548.0 33	299.0 34	168.0 34	123.0 34	74.9 34	61.2 33	56.9 33	57.6 33	42.0 34	30.0 34
1959	1630.0 24	1430.0 23	811.0 27	442.0 28	266.0 28	169.0 29	126.0 29	103.0 29	79.5 29	41.9 30
1960	12000.0 4	8780.0 4	6890.0 4	3690.0 5	1930.0 6	1120.0 6	832.0 7	640.0 8	469.0 9	242.0 9
1961	2550.0 20	2470.0 17	1860.0 16	1330.0 14	1140.0 10	665.0 12	488.0 14	426.0 14	309.0 14	173.0 14
1962	19000.0 2	15000.0 2	9330.0 1	5100.0 1	2830.0 2	1540.0 2	1190.0 2	943.0 3	670.0 4	355.0 4
1963	905.0 31	354.0 33	283.0 32	159.0 32	143.0 32	57.5 32	98.6 32	85.3 32	67.5 32	52.8 29
1964	540.0 34	426.0 32	252.0 33	150.0 33	95.6 33	55.6 34	56.2 34	47.6 34	49.4 33	30.7 33
1965	6880.0 8	5130.0 9	4780.0 6	2720.0 6	1640.0 7	916.0 7	703.0 8	572.0 10	401.0 11	211.0 12
1966	6420.0 9	4830.0 10	2300.0 14	1130.0 17	605.0 22	383.0 23	295.0 23	250.0 24	186.0 25	129.0 22
1967	1720.0 23	1370.0 24	1060.0 25	843.0 24	576.0 25	324.0 26	232.0 26	230.0 26	176.0 26	95.3 26
1968	431.0 35	270.0 35	147.0 35	81.8 35	48.9 35	34.9 36	38.4 35	32.5 35	27.3 36	21.4 35
1969	15700.0 3	12100.0 3	8870.0 2	4990.0 2	2920.0 1	1590.0 1	1120.0 4	969.0 2	689.0 3	373.0 3
1970	3850.0 17	2730.0 16	1480.0 18	944.0 21	535.0 26	418.0 20	336.0 20	317.0 16	228.0 20	136.0 19
1971	10000.0 6	7590.0 5	4670.0 7	2650.0 7	1480.0 8	820.0 9	570.0 9	653.0 7	490.0 8	269.0 8



STATION NUMBER C66C0500

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

FLOYD RIVER AT JAMES, IOWA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	CFS_DAYS	
YEAR	NUMBER OF DAYS IN CLASS																																			CFS_DAYS	
1936	2	16	10	7	5	36	74	41	30	9	15	30	21	14	4	7	12	4	11	3	2	1	3	2	2	1	4									44191.0	
1937			30	13	7	11	20	30	31	3	14	22	40	40	23	15	21	11	8	5	7	4		6	2	2										48925.0	
1938							14	39	34	40	36	33	26	18	40	17	14	11	7	7	8	3	3	14	1											55455.0	
1939					13	6	8	8	28	31	55	63	58	38	23	10	8	2	5	2	1	2	3	1												26112.0	
1940		18	30	14	17	72	19	15	27	42	38	20	13	10	6	5	7	3	3	2	2	1	1	1											15119.0		
1941							17	53	69	45	10	21	24	22	30	16	10	17	10	7	1	2	6	5												39567.0	
1942						5	6	3	4	42	49	41	40	22	27	22	19	27	17	11	6	9	7	2	2	1	1	1								69167.0	
1943									37	26	25	42	66	42	21	25	19	12	11	13	6	11	7	2												53414.0	
1944							5	11	17	18	48	21	13	12	29	19	25	37	37	24	12	10	7	7	5	2	5	1	1							120251.0	
1945									15	26	10	24	28	50	38	58	25	15	26	18	9	11	4	5				1	2						105874.0		
1946							12	9	18	61	20	64	27	38	30	19	12	12	19	9	1	4	7	3												45101.0	
1947									11	33	33	34	30	33	22	23	10	32	45	29	13	6	5	4			2									78656.0	
1948							21	13	21	55	58	41	27	26	26	26	11	6	9	3	5	3	6	6	2	1										48732.0	
1949						1	1	22	32	47	42	28	21	19	22	28	29	27	11	7	7	7	3		3	3	2	3								59183.0	
1950								24	16	23	36	56	43	30	45	26	13	13	15	4	8	3		4	5											55914.0	
1951								7	60	36	9	31	15	7	4	4	7	11	26	34	33	17	9	17	10	7	7	8	5	1						237199.0	
1952											8	18	28	36	52	51	62	42	19	18	8	6	3	3	7	4							1			178640.0	
1953								3	2	10	85	65	14	20	18	13	46	36	20	9	8	4	3	2		1							1	1		122540.0	
1954									24	7	86	58	42	40	40	24	11	9	4	6	2	3	2	2	2	1	2	2								87301.0	
1955							29	11	15	37	21	66	66	48	31	15	10	6	3		4	3														25900.3	
1956					7	17	88	54	38	43	36	27	20	21	6	5	3	1																		7266.7	
1957		8	10	13	29	15	30	39	21	38	52	35	20	17	7	10	4	2	4	7			3	1												14652.9	
1958				13	27	8	7	49	27	36	32	73	43	27	8	5	4	1	3		1	1														10963.5	
1959	28	12	15	29	26	39	10	30	16	24	23	18	30	22	20	5	2	3	4	3	3			1	2											15293.1	
1960							50	29	31	47	16	20	7	20	18	44	28	16	9	4	8	3	2		5		2	2	1	1	2	1				88745.4	
1961								16	20	40	6	56	55	25	39	41	27	11	4	3	3		4	6	3	6										63324.0	
1962							10	12	43	12	13	55	21	16	25	30	32	27	20	17	8	7	3	4	3		1	1	2			2	1			125404.0	
1963							6	7	50	52	70	28	69	41	22	5	4	8	1		1	1														19275.0	
1964				14	20	10	27	71	84	39	30	20	15	15	8	4	2	1	4		2															11248.2	
1965					23	7	55	9	33	9	46	15	24	13	30	22	19	18	7	11	5	2	2		2	1	3	4	1						77003.5		
1966									34	29	42	29	23	61	66	40	17	8	5	4	2	2						2								46945.0	
1967						1	1	62	22	65	36	49	30	25	9	11	9	4	5	12	8	3	7	2	3	1										34776.5	
1968							29	54	46	119	74	23	6	4	2	1	4	1	1		2																7837.9
1969								1	69	31	5	10	29	21	38	29	26	29	25	12	8	12	4	5	3		2	1		3	1	1			136067.0		
1970								8	18	18	38	59	71	25	17	24	28	26	9	9	7	3	2		1	1	1									49467.0	
1971								1	13	47	9	39	56	46	54	30	17	12	9	8	7	4	1	1	1	1	1	2	4	1	1	1				98089.0	



STATION NUMBER 066C050C

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

LYD RIVER AT JAMES, ICWA

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	13149	100.0	9	11.00	622	11588	88.1	18	160.0	588	2731	20.8	27	2300	34	138	1.0
1	1.00	30	13149	100.0	10	14.00	1204	10966	83.4	19	210.0	527	2143	16.3	28	3000	43	104	.7
2	1.30	20	13119	99.8	11	19.00	1108	9762	74.2	20	280.0	467	1616	12.3	29	4100	30	61	.4
3	1.80	59	13099	99.6	12	26.00	1059	8654	65.8	21	380.0	343	1149	8.7	30	5500	14	31	.2
4	2.40	125	13040	99.2	13	35.00	1179	7595	57.8	22	510.0	216	806	6.1	31	7400	7	17	.1
5	3.30	137	12915	98.2	14	47.00	1214	6416	48.8	23	690.0	166	590	4.5	32	9900	4	10	.0
6	4.40	166	12778	97.2	15	64.00	873	5202	39.6	24	920.0	109	424	3.2	33	13000	4	6	.0
7	5.90	363	12612	95.9	16	86.00	909	4329	32.9	25	1200.0	119	315	2.4	34	18000	2	2	.0
8	9.00	661	12249	93.2	17	120.00	689	3420	26.0	26	1700.0	58	196	1.5					



STATION NUMBER 06602000

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

WEST FORK DITCH AT HOLLY SPRINGS, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1941	3.00 7	4.00 8	5.00 8	5.50 9	6.30 9	8.63 8	9.02 7	9.53 6	21.00 13	72.00 14
1942	1.00 2	1.67 4	1.86 4	1.93 4	2.47 3	5.98 7	20.80 20	23.10 21	33.50 20	49.50 7
1943	2.00 5	2.67 5	3.29 6	3.93 6	4.57 6	4.97 5	6.79 5	8.17 5	18.50 9	69.50 12
1944	1.00 3	1.00 2	1.14 2	1.79 3	3.23 4	3.92 3	4.45 3	4.28 3	7.87 4	42.60 5
1945	3.00 8	3.00 6	3.14 5	3.57 5	5.62 8	9.41 9	10.30 9	10.70 8	27.50 17	131.00 22
1946	15.00 24	15.00 24	15.10 25	15.80 24	17.50 25	22.10 24	26.50 24	29.80 24	71.00 28	174.00 28
1947	2.90 6	3.30 7	5.24 10	5.86 10	9.24 13	12.70 17	16.50 19	21.80 19	31.70 19	47.60 6
1948	5.00 10	6.00 12	6.43 12	8.78 15	9.44 15	12.20 13	14.40 13	15.10 12	17.90 7	110.00 19
1949	8.00 17	8.33 18	9.31 20	9.73 19	10.70 19	13.90 19	14.30 12	15.40 13	28.20 18	70.70 13
1950	5.50 12	5.50 11	5.57 11	6.18 11	8.48 10	13.00 18	16.10 18	21.50 18	48.30 24	97.10 17
1951	7.60 14	7.60 13	7.60 13	7.80 12	8.81 12	10.40 11	12.20 10	13.90 10	20.30 10	140.00 26
1952	35.00 29	45.00 29	55.00 29	60.90 29	64.60 29	79.70 29	96.10 29	120.00 29	203.00 29	324.00 29
1953	22.00 27	22.00 27	22.40 27	22.80 27	23.90 27	26.40 27	29.20 25	31.00 25	33.70 21	139.00 25
1954	9.00 19	9.00 19	9.00 17	9.14 16	9.73 16	14.20 20	21.90 21	22.50 20	24.80 15	96.40 16
1955	9.00 20	9.00 20	9.00 18	9.79 20	9.97 18	12.50 14	15.60 16	18.70 16	26.10 16	114.00 20
1956	5.00 11	5.00 10	5.00 9	5.00 8	5.00 7	5.20 6	5.96 4	6.89 4	7.81 3	26.60 3
1957	0.20 1	0.27 1	0.53 1	1.08 1	1.68 1	2.11 1	2.32 1	2.69 1	2.89 1	7.07 1
1958	6.60 13	7.60 14	9.14 19	9.33 17	9.80 17	10.60 12	15.30 15	19.70 17	22.80 14	67.50 11
1959	1.10 4	1.17 3	1.33 3	1.66 2	2.09 2	2.25 2	2.40 2	2.71 2	3.35 2	16.30 2
1960	7.70 15	7.70 15	7.87 15	8.39 14	9.42 14	12.60 16	14.50 14	15.60 14	18.10 8	97.40 18
1961	10.00 21	10.00 21	10.00 21	10.00 21	13.30 21	18.10 23	23.10 22	25.60 22	52.80 26	160.00 27
1962	18.00 26	18.00 26	18.00 26	18.10 26	19.70 26	23.60 25	29.70 26	32.60 26	37.60 22	131.00 21
1963	25.00 28	26.00 28	26.00 28	26.00 28	29.30 28	36.50 28	40.40 28	45.30 28	62.70 27	134.00 23
1964	10.00 22	10.00 22	10.40 22	11.20 22	13.70 22	15.30 21	16.00 17	17.30 15	20.60 12	60.40 9
1965	8.00 18	8.00 17	8.43 16	9.57 18	11.30 20	12.50 15	13.10 11	14.50 11	20.40 11	50.60 8
1966	15.00 25	15.00 25	15.00 24	16.00 25	17.40 24	26.20 26	32.60 27	37.30 27	49.20 25	136.00 24
1967	7.70 16	7.77 16	7.79 14	8.09 13	8.62 11	9.49 10	10.10 8	10.80 9	12.50 6	31.20 4
1968	4.00 9	4.03 9	4.07 7	4.13 7	4.24 5	4.59 4	7.07 6	5.60 7	12.30 5	77.10 15
1969	12.00 23	12.00 23	12.40 23	12.70 23	14.20 23	15.80 22	23.20 23	28.30 23	41.40 23	66.50 10



STATION NUMBER 066C2000

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

WEST FORK DITCH AT HOLLY SPRINGS, IOWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1940	1800.0 17	1060.0 21	541.0 23	265.0 25	162.0 27	137.0 26	129.0 24	105.0 24	75.6 25	41.1 27
1941	1200.0 24	973.0 22	659.0 21	465.0 20	344.0 20	204.0 21	163.0 21	129.0 21	95.4 21	63.1 20
1942	845.0 28	668.0 27	415.0 27	244.0 27	222.0 25	174.0 22	133.0 22	112.0 22	95.2 22	64.5 19
1943	1440.0 21	951.0 23	508.0 24	332.0 23	233.0 24	142.0 25	102.0 26	84.7 26	93.0 23	51.7 24
1944	2060.0 15	1100.0 20	979.0 17	534.0 19	374.0 19	292.0 13	242.0 11	202.0 13	165.0 12	86.7 14
1945	4990.0 5	3220.0 6	1760.0 7	982.0 8	557.0 10	464.0 6	393.0 6	317.0 6	304.0 5	173.0 5
1946	550.0 26	883.0 24	777.0 19	563.0 18	478.0 12	306.0 12	219.0 15	179.0 16	126.0 16	76.6 17
1947	1360.0 23	1120.0 19	648.0 22	417.0 22	284.0 21	216.0 20	213.0 16	202.0 14	153.0 14	93.8 13
1948	1730.0 18	1360.0 18	750.0 20	627.0 17	431.0 14	254.0 17	188.0 18	145.0 19	114.0 18	71.6 18
1949	1400.0 22	1370.0 17	1000.0 15	730.0 11	433.0 13	270.0 15	234.0 13	215.0 11	165.0 13	107.0 10
1950	4760.0 6	2490.0 9	1380.0 11	703.0 13	429.0 15	312.0 11	227.0 14	190.0 15	176.0 11	103.0 12
1951	5520.0 4	3920.0 4	2730.0 3	1530.0 4	853.0 4	706.0 1	554.0 1	514.0 1	511.0 1	279.0 1
1952	4010.0 10	3050.0 7	1590.0 8	887.0 9	641.0 8	496.0 5	417.0 5	376.0 4	353.0 2	227.0 2
1953	4020.0 9	2370.0 10	1210.0 13	652.0 15	387.0 17	268.0 16	241.0 12	229.0 10	177.0 10	104.0 11
1954	5910.0 3	4710.0 2	2360.0 6	1250.0 6	765.0 6	435.0 8	315.0 8	270.0 8	202.0 7	114.0 7
1955	1000.0 25	756.0 26	416.0 26	285.0 24	167.0 26	119.0 27	90.1 27	75.1 27	70.4 27	46.5 25
1956	167.0 30	98.0 30	44.8 30	27.0 30	21.6 30	17.4 30	16.6 30	15.1 30	12.8 30	9.3 30
1957	2060.0 16	1720.0 15	1000.0 16	700.0 14	500.0 11	274.0 14	196.0 17	154.0 18	106.0 19	55.3 22
1958	324.0 29	273.0 29	181.0 29	111.0 29	70.1 29	58.9 28	48.0 29	47.6 29	36.5 29	26.9 28
1959	2220.0 14	1950.0 13	1230.0 12	641.0 16	382.0 18	243.0 18	180.0 20	141.0 20	95.4 20	52.3 23
1960	8000.0 2	4550.0 3	3050.0 2	1600.0 2	856.0 3	559.0 4	432.0 4	343.0 5	269.0 6	144.0 6
1961	1550.0 19	1510.0 16	1070.0 14	753.0 10	584.0 9	356.0 10	260.0 10	229.0 9	187.0 9	111.0 8
1962	9000.0 1	6000.0 1	3420.0 1	1800.0 1	1030.0 1	577.0 2	477.0 2	420.0 3	328.0 3	184.0 4
1963	4440.0 8	2290.0 11	1350.0 10	715.0 12	394.0 16	223.0 19	187.0 19	162.0 17	122.0 17	84.2 15
1964	1510.0 20	819.0 25	424.0 25	256.0 26	234.0 23	146.0 24	113.0 25	93.5 25	71.6 26	46.3 26
1965	3830.0 11	2920.0 8	2680.0 4	1490.0 5	796.0 5	456.0 7	348.0 7	274.0 7	190.0 8	108.0 9
1966	3080.0 13	1910.0 14	885.0 18	439.0 21	245.0 22	167.0 23	130.0 23	108.0 23	86.0 24	62.6 21
1967	3380.0 12	1960.0 12	1580.0 9	1120.0 7	694.0 7	379.0 9	264.0 9	205.0 12	151.0 15	82.3 16
1968	917.0 27	537.0 28	254.0 28	123.0 28	88.2 28	56.0 29	55.8 28	54.6 28	41.4 28	26.9 29
1969	4700.0 7	3590.0 5	2610.0 5	1580.0 3	1000.0 2	567.0 3	433.0 3	438.0 2	318.0 4	138.0 3



STATION NUMBER 066C2000

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

WEST FORK DITCH AT HOLLY SPRINGS, IOWA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34					
YEAR	NUMBER OF DAYS IN CLASS																																	CFS_DAYS						
1940									35	21	7	84	50	31	33	37	21	17	4	2	6	3	1	2	3	3	3	2								1	15042.0			
1941								1	20	6	14	43	49	56	29	21	16	32	18	18	7	9	4	2	5	6	4	4	1									23031.0		
1942										2	6	3	2	5	30	75	81	70	29	15	7	16	4	5	3	7	5											23538.0		
1943										3	5	13	20	50	29	50	48	44	27	19	5	13	11	5	4	4	3	7	2	2	1							18955.4		
1944								21	4	24	29	22	23	18	7	19	34	44	37	21	12	14	14	5	3	5	4	6	4	4	2							32462.7		
1945										10	4	6	9	64	39	11	14	25	30	36	28	22	12	13	12	4	8	11	2	1	1	1	2					63087.1		
1946										6	8	6	22	12	41	47	34	84	30	15	12	13	10	9	3	1	9	3										27974.6		
1947													2	21	40	44	30	43	27	29	31	42	27	17	6	2	1	2	1									34222.3		
1948												6	21	64	59	58	46	40	20	19	5	6	2	4	2	4		5	4	1								26197.3		
1949													10	77	49	39	22	27	33	26	18	12	10	10	9	10	2	5	6									39201.8		
1950												11	5	17	18	61	59	53	38	28	20	12	8	6	8	12	6	1		1						1		37625.5		
1951													19	30	43	37	11	8	7	9	12	29	39	34	27	15	14	14	8	4	3	1	1					101653.2		
1952																	1	25	40	55	50	73	34	32	24	12	7	4	3	3					3			92979.0		
1953																	32	69	103	16	25	26	46	26	11	3	3	1	1	1	1					1		38036.0		
1954													12	20	11	65	28	61	45	46	18	19	18	7	7	1	2	2							1		1	1	41561.0	
1955													24	57	38	79	72	29	21	12	13	5	5	3	2	1	3	1										16979.6		
1956		2	4	2	4	3	14	3	8	25	7	93	49	85	51	6	6				2	1	1															3396.5		
1957								3		48	49	30	19	31	62	23	30	10	11	8	9	2	6	6	6	3	2	1		4	2							20193.9		
1958										1	8	1	23	27	88	35	51	42	58	10	6	8	3	2	1	1													5904.6	
1959								8	5	73	32	23	3	31	15	31	26	22	35	17	11	6	10	5	4	1	3									3	1		19091.0	
1960														53	55	51	26	22	44	37	19	19	10	6	5	3	3	4	1	3	3	1					1		52701.0	
1961														17	6	29	50	74	63	42	31	11	10	4	11	1	8	3	5										40343.0	
1962																	39	54	49	34	25	33	47	29	23	13	6	5	2							2	1	1	1	67210.0
1963																	8	76	97	97	41	17	11	4	6	3		1	2								1		30740.0	
1964																	13	50	120	71	39	34	16	10	3	6		1	1									2		16959.0
1965														7	33	68	74	33	27	28	32	18	19	4	8	1	4	1	1	1							4	2	35353.0	
1966																	50	54	56	79	68	28	9	9	6	3												2		22836.0
1967														27	62	79	58	43	25	17	14	8	8	1	4	4	2	2	8	1							1	1	30336.3	
1968										49	11	8	16	159	81	15	10	3	3	2	2	1	1				3	1	1											5844.1
1969																	22	50	22	33	50	49	38	38	11	12	11	7	6	6	3	2	1	2	2				68552.0	



DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

WEST FORK DITCH AT HOLLY SPRINGS, IOWA

CLASS	CFS	TOTAL	ACCLM	PERCT	CLASS	CFS	TOTAL	ACCLM	PERCT	CLASS	CFS	TOTAL	ACCLM	PERCT	CLASS	CFS	TOTAL	ACCLM	PERCT
0	0.00	0	10958	100.0	9	2.60	201	10677	97.4	18	47.0	857	3677	33.6	27	850	88	206	1.8
1	0.20	2	10958	100.0	10	3.60	191	10476	95.6	19	65.0	675	2820	25.7	28	1200	48	118	1.0
2	0.30	4	10956	100.0	11	5.00	381	10285	93.9	20	89.0	480	2145	19.6	29	1600	27	70	.6
3	0.40	2	10952	99.9	12	6.80	452	9904	90.4	21	120.0	513	1665	15.2	30	2200	18	43	.3
4	0.50	4	10950	99.9	13	9.40	955	9452	86.3	22	170.0	304	1152	10.5	31	3100	13	25	.2
5	0.70	3	10946	99.9	14	13.00	1126	8457	77.5	23	230.0	240	848	7.7	32	4200	9	12	.1
6	1.00	37	10943	99.9	15	18.00	1361	7371	67.3	24	320.0	175	608	5.5	33	5600	1	3	.0
7	1.40	15	10906	99.5	16	25.00	1101	6010	54.8	25	440.0	124	433	4.0	34	8000	2	2	.0
8	1.90	214	10951	99.4	17	34.00	1232	4909	44.8	26	610.0	103	309	2.8					



STATION NUMBER 066C560C

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

LITTLE SICUX RIVER AT GILLETT GROVE, ICWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1960	13.00 5	13.30 5	13.70 5	15.90 6	22.40 6	27.70 6	29.10 6	31.30 5	48.60 6	199.00 5
1961	30.00 9	30.00 8	30.30 8	30.60 8	34.60 8	49.70 8	67.70 9	82.70 9	150.00 10	556.00 9
1962	14.00 6	14.00 6	14.60 6	15.40 5	20.60 5	25.50 5	27.50 4	32.70 6	42.60 4	252.00 7
1963	20.00 7	20.00 7	20.00 7	21.10 7	25.10 7	29.00 7	36.10 7	46.20 7	82.00 7	566.00 10
1964	6.90 3	6.90 3	6.94 2	7.08 2	8.19 1	9.80 1	13.80 1	17.30 1	21.30 2	66.40 1
1965	28.00 8	30.70 9	33.30 9	40.10 10	47.30 9	55.60 9	60.40 8	74.50 8	123.00 8	238.00 6
1966	33.00 10	33.30 10	34.60 10	38.90 9	54.30 11	68.00 11	110.00 12	169.00 12	186.00 11	735.00 11
1967	10.00 4	11.00 4	12.70 4	13.60 4	14.50 4	18.30 3	19.90 3	23.10 3	25.90 3	171.00 4
1968	5.20 1	5.27 1	5.37 1	5.71 1	8.33 2	10.30 2	14.60 2	17.50 2	19.90 1	157.00 3
1969	6.40 2	6.53 2	7.61 3	9.81 3	13.10 3	25.00 4	28.10 5	29.50 4	47.40 5	147.00 2
1970	46.00 12	46.00 12	46.00 12	46.90 11	49.50 10	57.60 10	68.40 10	87.10 10	137.00 9	956.00 12
1971	38.00 11	39.00 11	42.00 11	48.20 12	54.80 12	89.30 12	100.00 11	124.00 11	217.00 12	493.00 8



STATION NUMBER 06605600

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

LITTLE SICUX RIVER AT GILLETT GROVE, IOWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1955	4350.0 7	3810.0 7	2900.0 7	1780.0 7	1230.0 7	722.0 8	504.0 8	396.0 10	271.0 11	140.0 11
1967	5010.0 6	4580.0 6	4010.0 5	2660.0 5	1670.0 6	1360.0 6	1220.0 6	1010.0 5	724.0 5	395.0 5
1961	11500.0 3	9180.0 3	6380.0 4	3930.0 4	2440.0 4	1590.0 5	1240.0 5	997.0 6	650.0 6	394.0 6
1962	9440.0 4	8590.0 4	6930.0 3	5220.0 3	3370.0 3	1940.0 3	1500.0 3	1520.0 3	1130.0 3	589.0 4
1963	1000.0 12	882.0 12	742.0 12	687.0 12	465.0 12	299.0 12	231.0 12	195.0 12	167.0 12	116.0 12
1964	3840.0 8	3280.0 8	2370.0 8	1720.0 8	1100.0 9	709.0 9	497.0 10	392.0 11	254.0 9	188.0 9
1965	18400.0 1	16400.0 1	12200.0 1	7820.0 1	4750.0 1	3010.0 1	2290.0 1	1770.0 2	1190.0 2	655.0 3
1966	2800.0 9	2330.0 9	1480.0 10	796.0 11	660.0 11	590.0 11	495.0 11	493.0 8	268.0 8	269.0 7
1967	2390.0 10	2170.0 10	1930.0 9	1520.0 9	1160.0 8	661.0 10	504.0 9	468.0 9	347.0 10	197.0 10
1968	844.0 13	669.0 13	424.0 13	233.0 13	125.0 13	69.8 13	59.8 13	55.3 13	47.4 13	35.1 13
1969	15200.0 2	13600.0 2	11100.0 2	7460.0 2	4570.0 2	2850.0 2	2260.0 2	2390.0 1	1790.0 1	998.0 1
1970	1950.0 11	1790.0 11	1420.0 11	1100.0 10	912.0 10	768.0 7	670.0 7	573.0 7	422.0 7	256.0 8
1971	5630.0 5	4840.0 5	3960.0 6	2590.0 6	2420.0 5	1830.0 4	1380.0 4	1390.0 4	1100.0 4	660.0 2



DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

LITTLE SIOUX RIVER AT GILLETT GROVE, IOWA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	CFS_DAYS
YEAR	NUMBER OF DAYS IN CLASS																																	CFS_DAYS		
1959	40	10	2	8	6	18	23	19	28	22	22	35	30	17	11	8	11	7	13	11	7	3	1	2	2	3	3	2	1						51173.1	
1960										13	74	55	22	16	17	9	19	19	23	31	17	19	7	4	3	7	7	4							144541.0	
1961												22	37	29	47	39	40	23	17	23	21	19	18	11	8	3	2	1	1	2	1	1			143846.0	
1962										16	14	55	22	48	16	7	11	14	9	20	27	30	21	10	16	6	8	3	7	2	3				214937.0	
1963												20	53	40	43	37	63	47	26	11	10	3	5	4	3										42521.0	
1964								17	19	20	6	46	62	24	20	25	28	23	11	14	6	6	9	9	8	9	1	1	2						68967.7	
1965											4	13	73	48	43	31	29	14	13	9	8	11	23	22	6	4	4	2	2	2	2	1	2	1		239159.0
1966											11	23	34	27	25	13	27	51	35	40	32	21	9	7	8		2								98285.0	
1967								1	6	35	66	58	35	14	21	16	14	16	14	17	18	8	8	6	7	4	1								68147.0	
1968								10	12	26	20	47	78	93	33	27	8	2	1	3	2	1		2	1										12941.0	
1969													3	26	57	10	16	14	19	21	29	30	23	30	26	9	11	13	8	3	2	3	2		364230.0	
1970													13	59	52	38	48	30	27	28	15	18	22	5	8	2									93553.0	
1971														13	20	30	39	7	17	33	46	26	36	30	15	15	8	14	12	3	1				240913.0	

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	4748	100.0	9	11.00	74	4537	95.6	18	160.0	260	1800	37.9	27	2200	53	151	3.1
1	1.00	40	4748	100.0	10	14.00	126	4463	94.0	19	210.0	227	1540	32.4	28	3000	44	98	2.0
2	1.30	10	4708	99.2	11	19.00	270	4337	91.3	20	280.0	259	1313	27.7	29	4100	26	54	1.1
3	1.80	2	4699	98.9	12	26.00	479	4067	85.7	21	380.0	224	1054	22.2	30	5500	10	28	.5
4	2.40	8	4656	98.9	13	35.00	352	3588	75.6	22	510.0	206	830	17.5	31	7300	8	18	.3
5	3.30	6	4688	98.7	14	47.00	435	3236	68.2	23	680.0	176	624	13.1	32	9900	5	10	.2
6	4.40	28	4692	98.6	15	64.00	393	2801	59.0	24	920.0	127	448	9.4	33	13000	4	5	.1
7	5.50	52	4654	98.0	16	86.00	323	2409	50.7	25	1200.0	125	321	6.8	34	18000	1	1	.0
8	8.00	65	4602	96.9	17	120.00	285	2085	43.9	26	1700.0	45	196	4.1					



STATION NUMBER 06606600

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

LITTLE SIOUX RIVER AT CORRECTIONVILLE, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1920	130.00 41	130.00 41	130.00 41	130.00 41	136.00 40	159.00 39	223.00 38	329.00 40	324.00 34	1410.00 40
1921	206.00 42	234.00 42	247.00 42	250.00 42	264.00 42	307.00 42	378.00 42	353.00 41	396.00 40	942.00 32
1922	36.00 19	46.70 21	50.00 23	50.00 22	50.00 18	57.30 16	72.40 15	105.00 20	166.00 21	541.00 23
1923	5.00 2	6.33 2	11.70 5	23.10 9	32.00 11	44.70 14	72.40 16	81.90 16	97.60 13	241.00 8
1924	25.00 12	28.30 13	30.70 15	41.40 19	51.50 19	82.70 21	164.00 34	234.00 35	222.00 25	411.00 19
1925	116.00 39	119.00 39	121.00 40	123.00 39	124.00 35	135.00 33	143.00 27	184.00 29	315.00 33	500.00 22
1930	15.00 6	15.00 6	15.00 6	17.90 6	22.90 8	30.40 8	48.20 10	70.80 13	67.20 10	292.00 11
1931	18.00 8	18.00 8	19.10 9	20.20 8	21.80 7	23.90 6	30.40 5	35.70 4	35.20 4	216.00 7
1932	9.00 5	9.33 5	10.00 4	13.10 4	14.70 4	20.60 4	51.50 12	49.30 8	64.70 9	212.00 4
1938	30.00 16	30.70 16	31.10 16	32.10 14	34.20 13	40.00 13	55.80 14	74.40 15	112.00 16	595.00 25
1939	97.00 35	97.30 33	99.10 33	105.00 33	121.00 34	171.00 40	204.00 37	274.00 38	547.00 42	959.00 34
1940	18.00 9	18.00 9	18.00 8	18.40 7	20.10 6	22.20 5	29.90 4	36.30 5	41.80 5	215.00 5
1941	30.00 17	31.00 17	32.00 17	33.10 15	36.30 15	47.90 15	54.20 13	65.20 12	58.90 15	276.00 9
1942	30.00 18	33.00 18	35.90 18	38.30 17	44.40 16	73.60 20	188.00 35	228.00 34	286.00 28	436.00 20
1943	80.00 32	83.00 31	89.40 32	93.80 32	94.90 30	107.00 27	158.00 32	221.00 33	382.00 39	835.00 28
1944	110.00 38	113.00 37	117.00 38	119.00 38	140.00 41	236.00 41	296.00 41	271.00 37	349.00 36	880.00 29
1945	100.00 36	107.00 35	109.00 35	113.00 35	120.00 33	146.00 36	232.00 40	297.00 39	521.00 41	1410.00 41
1946	80.00 33	82.30 30	83.40 30	87.00 30	110.00 32	122.00 31	157.00 30	175.00 26	347.00 35	1290.00 39
1947	92.00 34	97.70 34	101.00 34	107.00 34	128.00 37	150.00 38	204.00 36	266.00 36	304.00 30	563.00 24
1948	46.00 23	47.30 23	48.00 21	48.40 21	60.60 22	103.00 26	130.00 24	136.00 22	132.00 19	1060.00 35
1949	45.00 21	45.30 20	46.30 20	47.60 20	52.40 20	63.20 17	74.90 17	72.80 14	97.60 14	406.00 18
1950	24.00 10	24.00 10	24.60 10	25.10 10	28.70 9	36.90 11	49.20 11	61.40 11	85.30 11	379.00 15
1951	27.00 13	27.00 12	27.00 11	27.50 11	30.00 10	35.40 10	43.40 8	55.30 10	52.20 12	404.00 17
1952	227.00 43	346.00 43	370.00 43	374.00 43	428.00 43	523.00 43	581.00 43	669.00 43	1060.00 43	2130.00 43
1953	70.00 29	70.70 29	71.90 29	73.80 29	77.70 26	83.30 22	90.50 18	97.50 18	112.00 17	777.00 27
1954	40.00 20	40.00 19	40.00 19	41.00 18	46.80 17	72.20 19	99.60 20	105.00 19	146.00 20	890.00 30
1955	60.00 28	60.00 28	60.00 27	60.80 26	71.30 23	102.00 25	137.00 25	183.00 27	276.00 27	883.00 31
1956	6.80 4	7.97 4	9.99 3	11.00 3	12.00 3	13.40 2	15.10 2	20.30 2	22.60 2	177.00 3
1957	4.00 1	4.20 1	4.56 1	5.43 1	6.26 1	14.50 3	21.80 3	22.60 3	22.60 3	68.80 1
1958	50.00 24	50.00 24	50.00 24	58.20 25	81.20 28	110.00 28	152.00 28	198.00 31	199.00 24	315.00 13
1959	6.50 3	6.50 3	6.61 2	6.81 2	6.83 2	7.80 1	10.30 1	14.00 1	14.00 1	129.00 2
1960	46.00 22	47.00 22	49.90 22	56.80 23	78.00 27	110.00 29	111.00 21	125.00 21	176.00 22	478.00 21
1961	56.00 25	56.00 25	56.00 25	57.10 24	73.30 24	97.60 23	123.00 23	154.00 24	251.00 26	1140.00 36
1962	100.00 37	115.00 38	115.00 37	117.00 37	128.00 38	141.00 34	162.00 33	170.00 25	186.00 23	730.00 26
1963	80.00 30	110.00 36	110.00 36	114.00 36	125.00 39	146.00 37	153.00 29	184.00 28	305.00 31	1190.00 37
1964	30.00 14	30.00 14	30.00 13	31.20 13	35.00 14	39.80 12	45.10 9	51.40 9	60.00 8	216.00 6
1965	57.00 27	57.00 26	57.60 26	64.50 27	76.70 25	97.70 24	111.00 22	145.00 23	258.00 29	392.00 16
1966	80.00 31	82.30 32	86.60 31	88.80 31	98.70 31	143.00 35	225.00 39	362.00 42	362.00 38	1330.00 39



STATION NUMBER 06606600

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

LITTLE SIOUX RIVER AT CORRECTIONVILLE, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1967	30.00 15	30.00 15	30.10 14	30.90 12	32.60 12	35.00 9	40.30 7	45.50 7	50.90 7	239.00 10
1968	16.00 7	16.00 7	16.00 7	16.10 5	18.70 5	24.40 7	31.20 6	37.30 6	43.00 6	347.00 14
1969	24.00 11	25.30 11	28.70 12	37.10 16	57.00 21	70.90 18	97.90 19	94.50 17	131.00 18	312.00 12
1970	120.00 40	120.00 40	121.00 39	124.00 40	126.00 36	133.00 32	158.00 31	191.00 30	309.00 32	1680.00 42
1971	56.00 26	59.30 27	67.70 28	73.60 28	83.00 29	115.00 30	138.00 26	208.00 32	352.00 37	947.00 33



STATION NUMBER 06606600

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

LITTLE SIOUX RIVER AT CORRECTIONVILLE, ICWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1915	10700.0 11	9540.0 11	8380.0 9	6570.0 9	5080.0 6	3570.0 6	3170.0 5	3090.0 4	2260.0 5	1440.0 3
1920	8230.0 15	6890.0 16	6170.0 15	4780.0 15	3460.0 16	2760.0 14	2760.0 9	2360.0 9	1930.0 8	1140.0 10
1921	3800.0 30	3500.0 29	3270.0 21	2840.0 21	2150.0 20	1460.0 24	1160.0 24	998.0 25	808.0 24	563.0 20
1922	2520.0 38	2470.0 34	2310.0 29	1930.0 27	1390.0 28	1200.0 28	952.0 28	801.0 30	557.0 32	333.0 33
1923	2000.0 40	1770.0 39	1440.0 38	1040.0 39	720.0 39	642.0 39	601.0 38	585.0 37	432.0 38	275.0 36
1924	4850.0 26	4720.0 20	2700.0 27	1610.0 33	1230.0 31	1080.0 29	868.0 30	817.0 28	775.0 26	546.0 21
1929	6120.0 21	5660.0 18	5240.0 18	4290.0 17	2700.0 19	1910.0 18	1480.0 18	1250.0 20	883.0 21	501.0 25
1930	2520.0 39	2300.0 36	2190.0 32	1770.0 28	1230.0 32	1000.0 32	735.0 35	628.0 36	479.0 35	271.0 27
1931	2530.0 37	1210.0 42	571.0 43	284.0 44	203.0 44	122.0 44	101.0 44	91.5 44	74.8 44	52.7 44
1937	4930.0 25	4060.0 22	2980.0 26	2170.0 25	2000.0 24	1330.0 27	1160.0 25	1160.0 23	981.0 20	525.0 22
1938	7230.0 17	7050.0 14	6400.0 13	5400.0 12	3670.0 13	2110.0 17	1900.0 17	1620.0 17	1380.0 17	873.0 14
1939	1900.0 41	1820.0 38	1720.0 37	1590.0 35	1300.0 29	1010.0 30	827.0 31	682.0 32	561.0 31	451.0 28
1940	2590.0 36	1310.0 41	947.0 42	686.0 40	489.0 41	367.0 41	380.0 41	340.0 41	309.0 40	175.0 41
1941	2600.0 35	1990.0 37	1430.0 39	1310.0 37	1110.0 37	1000.0 31	799.0 32	691.0 31	542.0 33	328.0 24
1942	3690.0 31	3640.0 26	3250.0 23	2550.0 23	2100.0 22	1710.0 20	1460.0 19	1350.0 18	1160.0 18	812.0 18
1943	6440.0 19	6170.0 17	5890.0 16	4590.0 16	3630.0 14	2630.0 15	2080.0 16	1740.0 16	1520.0 14	535.0 12
1944	7880.0 16	7040.0 15	6260.0 14	5120.0 14	3470.0 15	3040.0 11	2740.0 11	2360.0 10	1890.0 9	1150.0 5
1945	14200.0 8	9960.0 10	6550.0 12	5390.0 13	4420.0 10	3220.0 8	2860.0 6	2820.0 6	2410.0 3	1410.0 4
1946	4520.0 27	3570.0 28	2250.0 31	2050.0 26	1960.0 25	1830.0 19	1450.0 20	1350.0 19	1100.0 19	638.0 15
1947	5600.0 13	7230.0 13	5250.0 17	4240.0 18	3350.0 17	2490.0 16	2610.0 12	2390.0 8	1830.0 11	1060.0 11
1948	5200.0 24	3810.0 25	3270.0 22	2600.0 22	2130.0 21	1510.0 23	1250.0 23	1030.0 24	798.0 25	467.0 27
1949	4000.0 29	3830.0 24	3130.0 24	2360.0 24	1920.0 26	1680.0 21	1330.0 21	1190.0 21	859.0 22	430.0 26
1950	6180.0 20	3270.0 30	2160.0 33	1310.0 38	1000.0 38	861.0 35	694.0 36	635.0 34	608.0 29	348.0 31
1951	17000.0 5	15500.0 4	12200.0 5	9270.0 4	6750.0 4	4980.0 3	3980.0 2	3750.0 2	3270.0 1	1720.0 2
1952	10100.0 12	8900.0 12	7760.0 11	6260.0 10	4750.0 8	3350.0 7	2790.0 7	2310.0 11	1870.0 10	1220.0 7
1953	13600.0 10	12100.0 8	9900.0 7	6960.0 6	4790.0 7	2910.0 13	2270.0 15	2030.0 13	1630.0 13	873.0 15
1954	17500.0 4	14200.0 5	12800.0 4	8940.0 5	5440.0 5	3180.0 9	2320.0 13	2000.0 14	1500.0 15	943.0 17
1955	2650.0 34	2420.0 35	2060.0 34	1410.0 36	1150.0 34	980.0 34	773.0 34	635.0 35	470.0 36	343.0 22
1956	440.0 44	423.0 44	403.0 44	335.0 42	253.0 43	205.0 42	175.0 42	144.0 43	109.0 43	66.2 43
1957	4120.0 28	2730.0 32	2300.0 30	1730.0 31	1280.0 30	833.0 36	638.0 37	548.0 38	419.0 39	226.0 39
1958	1300.0 43	1160.0 43	999.0 40	683.0 41	524.0 40	438.0 40	401.0 40	378.0 40	289.0 41	224.0 40
1959	6590.0 18	4690.0 21	3370.0 20	3020.0 20	2030.0 23	1350.0 26	1010.0 27	806.0 29	575.0 30	300.0 35
1960	14200.0 9	12000.0 9	9990.0 6	6660.0 8	3920.0 12	3040.0 10	2790.0 8	2280.0 12	1640.0 12	920.0 13
1961	15600.0 6	12700.0 6	9760.0 8	6750.0 7	4470.0 5	2950.0 12	2270.0 14	1940.0 15	1490.0 16	845.0 16
1962	18500.0 3	16300.0 3	14100.0 3	10800.0 3	7270.0 3	4190.0 4	3210.0 4	2980.0 5	2380.0 4	1290.0 6
1963	8670.0 14	3610.0 27	2040.0 35	1600.0 34	1140.0 35	787.0 37	788.0 33	675.0 33	517.0 34	372.0 30
1964	2900.0 33	2470.0 33	1990.0 36	1770.0 29	1210.0 33	769.0 38	556.0 39	466.0 39	470.0 37	266.0 38
1965	27900.0 1	25600.0 1	21300.0 1	14300.0 1	8630.0 1	5230.0 1	4010.0 1	3190.0 3	2180.0 7	1200.0 8



STATION NUMBER C66C660C

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

LITTLE SICUX RIVER AT CORRECTICVILLE, ICWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1966	5430.0 23	3990.0 23	3000.0 25	1770.0 30	1120.0 36	999.0 33	927.0 29	893.0 27	689.0 28	510.0 24
1967	6090.0 22	5410.0 19	4580.0 19	3790.0 19	2720.0 18	1570.0 22	1120.0 26	546.0 26	720.0 27	386.0 29
1968	1740.0 42	1320.0 40	970.0 41	511.0 42	291.0 42	193.0 43	163.0 43	161.0 42	131.0 42	90.3 42
1969	20400.0 2	19100.0 2	17900.0 2	12800.0 2	8260.0 2	5010.0 2	3940.0 3	3570.0 1	3050.0 2	1730.0 1
1970	3540.0 32	2890.0 31	2330.0 28	1670.0 32	1450.0 27	1390.0 25	1320.0 22	1160.0 22	838.0 23	512.0 23
1971	15400.0 7	12600.0 7	8260.0 10	5490.0 11	4260.0 11	3660.0 5	2750.0 10	2790.0 7	2280.0 6	1330.0 5











STATION NUMBER 06606700

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

LITTLE SIOUX RIVER NEAR KENNEBEC, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1941	44.00 9	44.00 9	44.90 9	47.90 11	51.90 9	64.60 9	73.30 9	86.80 10	125.00 10	338.00 6
1942	36.00 7	39.70 8	43.70 8	46.40 8	56.60 10	99.50 13	248.00 25	266.00 24	335.00 21	482.00 12
1943	88.00 19	92.30 21	96.40 21	98.60 21	103.00 18	119.00 14	172.00 19	243.00 23	430.00 27	914.00 19
1944	120.00 26	120.00 25	123.00 25	127.00 25	152.00 25	249.00 28	300.00 28	287.00 26	364.00 23	924.00 21
1945	130.00 28	138.00 27	144.00 29	150.00 28	160.00 27	190.00 27	281.00 27	346.00 27	575.00 28	1530.00 28
1946	90.00 20	91.70 20	92.30 20	96.60 20	141.00 24	156.00 23	186.00 21	201.00 19	424.00 26	1400.00 26
1947	122.00 27	127.00 26	133.00 26	139.00 26	156.00 26	178.00 24	224.00 24	286.00 25	332.00 20	625.00 16
1948	60.00 14	66.70 15	67.90 15	68.90 15	84.50 14	130.00 19	154.00 16	165.00 15	162.00 13	1140.00 23
1949	56.00 13	56.30 13	57.40 13	61.30 13	65.60 12	73.60 10	86.50 10	84.40 9	115.00 8	455.00 11
1950	27.00 6	27.00 6	27.00 5	27.70 5	31.30 5	44.10 5	58.80 5	72.40 6	103.00 7	429.00 10
1951	38.00 8	38.00 7	38.30 7	40.10 6	42.90 6	50.60 6	59.90 6	76.10 8	125.00 9	494.00 13
1952	380.00 29	400.00 29	401.00 29	409.00 29	462.00 29	577.00 29	650.00 29	741.00 29	1170.00 29	2350.00 29
1953	110.00 23	110.00 23	110.00 23	113.00 23	116.00 21	123.00 16	127.00 12	134.00 13	155.00 11	894.00 18
1954	50.00 12	50.00 12	50.60 12	53.40 12	63.70 11	90.10 12	119.00 11	126.00 12	168.00 14	921.00 20
1955	82.00 18	82.00 18	83.40 18	86.40 18	95.30 16	128.00 18	166.00 18	216.00 20	327.00 19	956.00 22
1956	24.00 5	24.00 4	25.00 4	25.20 4	26.50 4	30.10 3	31.40 2	35.20 3	36.40 3	203.00 3
1957	11.00 1	11.70 1	12.10 1	13.10 1	15.00 1	23.80 2	32.60 3	32.90 2	33.20 2	79.30 1
1958	65.00 15	65.00 14	65.00 14	68.20 14	91.80 15	133.00 20	191.00 23	238.00 22	223.00 17	371.00 8
1959	17.00 2	17.00 2	18.00 2	18.30 2	18.70 2	19.20 1	21.40 1	25.60 1	25.50 1	150.00 2
1960	70.00 16	70.00 16	71.60 16	80.40 16	110.00 20	133.00 21	133.00 14	143.00 14	188.00 15	499.00 14
1961	90.00 21	90.00 19	90.00 19	90.00 19	103.00 17	127.00 17	162.00 17	196.00 17	315.00 18	1230.00 24
1962	120.00 24	120.00 24	120.00 24	124.00 24	138.00 23	153.00 22	180.00 20	197.00 18	215.00 16	789.00 17
1963	120.00 25	140.00 28	140.00 27	142.00 27	170.00 28	183.00 25	188.00 22	223.00 21	357.00 22	1340.00 25
1964	45.00 10	45.00 10	45.00 10	47.10 10	50.50 8	59.80 8	67.90 8	75.80 7	89.00 6	286.00 4
1965	70.00 17	70.00 17	72.90 17	86.40 17	108.00 19	122.00 15	137.00 15	171.00 16	401.00 24	499.00 15
1966	100.00 22	107.00 22	109.00 22	111.00 22	124.00 22	190.00 26	277.00 26	424.00 28	423.00 25	1440.00 27
1967	45.00 11	45.00 11	45.70 11	46.50 9	48.10 7	53.60 7	60.60 7	68.80 5	77.70 5	327.00 5
1968	20.00 3	20.00 3	20.10 3	21.10 3	25.30 3	31.10 4	41.80 4	52.30 4	60.00 4	352.00 5
1969	24.00 4	26.30 5	32.10 6	41.10 7	67.60 13	84.90 11	130.00 13	122.00 11	156.00 12	367.00 7



STATION NUMBER 06606700

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

LITTLE SIOUX RIVER NEAR KENNEBEC, IOWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1940	2410.0 27	1690.0 27	1120.0 27	743.0 28	619.0 27	458.0 28	463.0 27	401.0 28	385.0 27	219.0 28
1941	3340.0 24	2240.0 26	1640.0 26	1460.0 26	1200.0 26	1070.0 22	881.0 22	742.0 23	608.0 23	379.0 23
1942	3930.0 22	3550.0 22	3170.0 19	2510.0 18	2140.0 17	1740.0 17	1500.0 15	1400.0 15	1210.0 14	858.0 14
1943	6250.0 15	6070.0 14	5770.0 12	4640.0 12	3730.0 12	2760.0 12	2170.0 13	1820.0 13	1650.0 11	1020.0 9
1944	8100.0 12	7220.0 11	6420.0 11	5510.0 11	3740.0 11	3320.0 8	2970.0 6	2560.0 6	2020.0 7	1230.0 7
1945	8220.0 11	7730.0 10	7570.0 10	6020.0 10	4580.0 9	3380.0 6	2970.0 7	3070.0 5	2600.0 3	1530.0 3
1946	5800.0 18	4790.0 18	3100.0 20	2110.0 19	2070.0 19	2030.0 14	1600.0 14	1470.0 14	1190.0 15	696.0 15
1947	8010.0 13	7060.0 12	5180.0 13	4350.0 13	3420.0 13	2610.0 13	2680.0 9	2490.0 8	1560.0 8	1150.0 8
1948	6990.0 14	5160.0 16	3670.0 17	2770.0 16	2460.0 15	1720.0 18	1400.0 17	1150.0 17	897.0 17	525.0 17
1949	4500.0 21	4220.0 19	3410.0 18	2620.0 17	2130.0 18	1840.0 15	1450.0 16	1290.0 16	531.0 16	526.0 18
1950	4850.0 20	3780.0 21	2670.0 22	1740.0 24	1320.0 21	1080.0 21	857.0 23	797.0 22	764.0 19	437.0 21
1951	12000.0 7	11800.0 7	11100.0 5	8690.0 5	7020.0 4	5280.0 2	4330.0 2	4040.0 2	3620.0 1	1930.0 1
1952	9060.0 10	8660.0 9	7840.0 9	6610.0 7	5000.0 6	3620.0 5	3000.0 5	2510.0 7	2080.0 6	1360.0 5
1953	11200.0 5	10600.0 8	9390.0 7	6740.0 6	4710.0 7	2870.0 11	2300.0 12	2100.0 12	1690.0 10	922.0 12
1954	13100.0 6	13100.0 4	12500.0 4	9070.0 4	5640.0 5	3330.0 7	2430.0 10	2110.0 10	1600.0 12	506.0 13
1955	3170.0 26	2620.0 24	2280.0 24	1560.0 25	1210.0 24	1040.0 23	850.0 24	700.0 24	528.0 25	398.0 22
1956	392.0 30	388.0 30	357.0 30	303.0 30	234.0 30	208.0 30	190.0 29	163.0 30	128.0 30	82.5 30
1957	3770.0 23	2720.0 23	2460.0 23	1960.0 22	1490.0 20	962.0 24	740.0 25	619.0 25	486.0 26	265.0 26
1958	1680.0 28	1310.0 28	1110.0 28	753.0 27	535.0 28	466.0 27	434.0 28	440.0 27	237.0 28	255.0 27
1959	6090.0 16	5110.0 17	3920.0 15	3350.0 15	2220.0 16	1470.0 19	1100.0 19	884.0 20	636.0 22	337.0 24
1960	14900.0 4	12200.0 5	9890.0 6	6570.0 8	4100.0 10	3110.0 10	2900.0 9	2390.0 9	1750.0 9	977.0 10
1961	13700.0 5	12100.0 6	9130.0 8	6460.0 9	4580.0 8	3130.0 9	2430.0 11	2100.0 11	1590.0 13	923.0 11
1962	18000.0 3	16700.0 3	14400.0 3	11100.0 3	7580.0 3	4420.0 4	3410.0 4	3200.0 4	2600.0 4	1420.0 4
1963	11600.0 8	6530.0 13	3680.0 16	2100.0 20	1270.0 22	854.0 25	961.0 21	831.0 21	637.0 21	454.0 19
1964	3190.0 25	2370.0 25	2000.0 25	1810.0 23	1200.0 25	759.0 26	565.0 26	481.0 26	539.0 24	315.0 25
1965	27900.0 1	25300.0 1	21300.0 1	15300.0 1	9370.0 1	5600.0 1	4400.0 1	3560.0 3	2450.0 5	1350.0 6
1966	4900.0 19	4000.0 20	3040.0 21	2000.0 21	1260.0 23	1100.0 20	1010.0 20	961.0 19	751.0 20	568.0 16
1967	5900.0 17	5670.0 15	4810.0 14	4090.0 14	2970.0 14	1740.0 16	1250.0 18	1050.0 18	802.0 18	439.0 20
1968	1400.0 29	1120.0 29	865.0 29	470.0 29	292.0 29	209.0 29	181.0 30	191.0 29	156.0 29	112.0 29
1969	18700.0 2	18300.0 2	16900.0 2	12500.0 2	8240.0 2	5100.0 3	4030.0 3	4080.0 1	3170.0 2	1820.0 2







DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

LITTLE SICUX RIVER NEAR KENNEBEC, IOWA

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	10958	100.0	9	72.00	450	9490	86.6	18	600.0	547	3560	32.5	27	4900	102	240	2.1
1	11.00	13	10958	100.0	10	91.00	621	9040	82.5	19	750.0	585	3013	27.5	28	6300	56	138	1.2
2	14.00	16	10945	99.9	11	120.00	832	8419	76.8	20	950.0	492	2428	22.2	29	7900	32	82	.7
3	18.00	97	10929	99.7	12	150.00	580	7587	69.2	21	1200.0	444	1936	17.7	30	10000	23	50	.4
4	22.00	153	10932	98.9	13	180.00	777	7007	63.9	22	1500.0	405	1492	13.6	31	13000	14	27	.2
5	28.00	217	10679	97.5	14	230.00	690	6230	56.9	23	1900.0	330	1087	9.9	32	16000	9	13	.1
6	36.00	215	10462	95.5	15	290.00	709	5540	50.6	24	2400.0	236	757	6.9	33	20000	3	4	.0
7	45.00	306	10247	93.5	16	370.00	635	4831	44.1	25	3100.0	174	521	4.8	34	26000	1	1	.0
8	57.00	451	9941	90.7	17	470.00	636	4196	38.3	26	3900.0	107	347	3.2					



STATION NUMBER 066C7000

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

DEBOLT CREEK NEAR ARTHUR, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1959	0.20 1	0.20 1	0.20 1	0.20 1	0.20 1	0.21 1	0.25 1	0.39 1	0.60 1	3.18 1
1960	0.80 7	0.90 7	1.03 7	1.15 7	1.36 8	1.44 6	1.57 5	1.71 3	2.15 3	14.70 10
1961	0.50 4	0.50 3	0.51 3	0.58 3	0.83 3	1.16 2	1.47 3	1.77 4	2.29 4	14.60 9
1962	2.50 12	3.00 12	3.66 12	4.39 12	4.62 12	4.89 11	5.11 11	5.29 11	5.96 11	20.30 11
1963	4.70 13	4.70 13	4.76 13	4.96 13	6.69 13	9.17 13	11.00 13	12.20 13	18.10 13	36.30 13
1964	1.10 9	1.70 10	2.34 11	2.38 11	2.57 10	2.92 10	3.09 10	3.24 10	3.40 10	11.50 3
1965	0.70 6	0.73 6	0.90 6	1.15 8	1.35 7	1.66 8	1.77 6	1.98 5	2.73 7	12.20 5
1966	2.10 11	2.10 11	2.13 10	2.34 10	3.68 11	5.44 12	7.62 12	9.96 12	12.70 12	24.20 12
1967	1.30 10	1.63 9	1.76 9	1.96 9	2.08 9	2.12 9	2.12 8	2.25 7	2.76 8	7.02 2
1968	0.40 2	0.40 2	0.42 2	0.47 2	0.66 2	1.24 3	1.43 2	1.61 2	2.07 2	14.20 8
1969	0.47 3	0.56 4	0.76 4	0.77 4	0.97 4	1.51 7	2.01 7	2.61 9	2.86 9	12.50 6
1970	1.00 8	1.00 8	1.04 8	1.10 6	1.15 6	1.26 4	1.56 4	2.04 6	2.56 6	13.70 7
1971	0.55 5	0.63 5	0.77 5	0.83 5	1.01 5	1.31 5	2.16 9	2.30 8	2.43 5	11.90 4



STATION NUMBER 06607000

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

ODEEDLT CREEK NEAR ARTHUR, ICWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1958	181.0 13	87.3 13	64.0 12	34.7 13	20.9 13	13.3 13	10.0 13	9.5 13	8.3 13	5.2 13
1959	1520.0 2	574.0 2	281.0 4	146.0 5	85.1 5	51.6 6	37.0 6	29.5 7	20.6 8	10.6 9
1960	600.0 5	435.0 4	266.0 6	143.0 6	82.1 6	53.1 5	41.7 5	34.7 5	24.3 6	13.4 7
1961	238.0 10	168.0 10	104.0 10	72.3 10	56.6 9	37.5 9	27.7 10	27.6 8	24.1 7	12.5 6
1962	2770.0 1	1430.0 1	667.0 1	341.0 1	186.0 1	104.0 1	78.5 1	69.6 1	71.3 1	39.6 1
1963	230.0 9	222.0 9	153.0 9	89.9 7	58.5 8	42.1 8	34.6 7	32.5 6	25.7 5	15.4 4
1964	328.0 8	280.0 8	163.0 8	88.7 8	54.1 10	37.1 10	29.2 9	24.0 10	17.4 10	10.4 10
1965	600.0 6	484.0 3	410.0 2	223.0 3	118.0 4	79.9 3	64.2 2	51.7 2	37.7 2	21.3 3
1966	200.0 12	130.0 11	77.7 11	39.0 11	29.8 11	20.7 11	16.5 12	14.9 12	14.4 11	11.8 8
1967	674.0 4	378.0 6	297.0 3	194.0 4	123.0 3	72.6 4	50.6 4	38.7 4	26.7 4	14.8 5
1968	67.0 14	28.2 14	15.4 14	10.1 14	6.3 14	3.9 14	3.6 14	3.4 14	2.9 14	2.5 14
1969	390.0 7	338.0 7	268.0 5	233.0 2	152.0 2	86.9 2	63.4 3	51.1 3	37.1 3	21.9 2
1970	273.0 11	113.0 12	60.1 13	34.9 12	21.5 12	16.6 12	16.9 11	15.0 11	11.1 12	6.6 12
1971	830.0 3	403.0 5	181.0 7	88.1 9	76.3 7	46.4 7	33.0 8	26.7 9	18.5 9	10.4 11







## STATION NUMBER 06607200

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## MAPLE RIVER AT MAPLETON, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1943	15.00 14	17.70 12	18.40 11	19.00 11	21.80 12	23.10 10	27.70 10	31.90 9	55.50 16	206.00 14
1944	17.00 15	18.30 13	20.70 15	21.10 12	22.80 13	31.30 14	36.40 11	37.50 11	45.40 10	156.00 10
1945	35.00 23	38.30 25	42.10 26	43.60 26	47.20 23	57.20 23	69.40 23	75.90 24	126.00 25	375.00 26
1946	0.00 1	25.00 19	25.70 18	28.60 19	49.20 25	68.90 26	78.80 25	86.80 26	160.00 27	402.00 28
1947	37.00 25	37.00 24	37.30 24	40.50 23	48.60 24	52.70 22	67.40 22	73.00 22	85.80 20	172.00 12
1948	24.00 20	26.00 20	27.30 19	28.40 18	30.50 16	37.20 18	45.10 16	46.70 13	45.50 9	221.00 15
1949	13.00 12	13.00 8	13.00 8	13.00 7	13.80 6	21.20 7	21.90 5	23.00 4	31.80 4	145.00 8
1950	8.00 7	8.00 5	8.07 5	8.71 5	12.10 5	22.90 9	26.60 9	32.00 10	51.40 13	120.00 6
1951	14.00 13	14.00 9	14.00 9	14.00 9	14.70 7	18.60 5	22.30 6	27.20 6	35.20 7	264.00 19
1952	110.00 29	133.00 29	160.00 29	166.00 29	175.00 29	204.00 29	237.00 29	278.00 29	435.00 29	705.00 29
1953	46.00 27	65.30 29	70.00 28	70.60 28	72.70 27	77.40 27	81.30 26	85.30 25	105.00 23	314.00 25
1954	6.00 5	14.30 10	19.30 12	21.10 13	26.40 14	30.90 13	40.50 13	42.80 12	45.60 11	156.00 5
1955	35.00 24	35.00 23	35.00 22	35.00 22	35.50 20	45.80 21	59.90 21	71.70 21	108.00 24	271.00 20
1956	9.80 8	9.80 6	9.91 6	10.20 6	10.50 4	11.70 3	12.70 3	15.10 3	18.20 3	66.80 3
1957	3.20 3	3.50 2	3.50 2	3.62 2	4.11 2	5.21 2	6.21 2	7.84 2	8.32 1	20.30 1
1958	6.20 6	6.20 4	6.94 4	8.36 4	16.50 9	26.70 11	38.00 12	54.40 18	53.60 14	52.80 5
1959	2.50 2	2.50 1	2.59 1	2.64 1	2.74 1	3.08 1	4.10 1	6.78 1	10.30 2	44.90 2
1960	20.00 17	20.00 15	20.60 13	21.30 14	21.70 11	29.60 12	46.40 18	45.40 14	45.90 12	230.00 17
1961	22.00 18	22.00 16	22.00 16	22.60 15	26.80 15	35.60 16	45.30 17	53.70 17	55.50 22	287.00 22
1962	40.00 26	42.00 26	42.00 25	43.50 25	51.00 26	60.40 25	70.10 24	78.40 23	96.20 21	285.00 21
1963	65.00 28	65.00 27	66.00 27	69.60 27	85.70 29	97.80 28	105.00 28	124.00 28	178.00 28	381.00 27
1964	25.00 21	30.00 21	33.60 20	34.30 21	37.20 21	41.50 20	46.70 19	50.50 16	54.70 15	165.00 11
1965	10.00 9	10.00 7	10.70 7	13.10 8	16.10 8	21.50 8	23.90 8	27.70 7	40.00 8	134.00 7
1966	12.00 11	22.30 17	36.30 23	41.00 24	44.50 22	59.50 24	52.20 27	116.00 27	146.00 26	289.00 23
1967	10.00 10	17.00 11	17.30 10	17.40 10	18.50 10	21.10 6	23.40 7	29.00 8	26.80 6	50.80 4
1968	6.00 4	6.00 3	6.00 3	6.11 3	8.08 3	14.70 4	20.20 4	24.80 5	23.90 5	228.00 16
1969	17.00 16	18.70 14	20.60 14	27.40 16	30.60 17	38.50 19	53.00 20	49.70 15	57.10 17	188.00 13
1970	33.00 22	33.00 22	33.60 21	33.80 20	33.90 19	36.70 17	42.90 14	57.10 20	61.90 19	310.00 24
1971	24.00 19	24.30 18	25.00 17	27.40 17	31.10 18	34.30 15	43.40 15	54.50 19	67.70 18	246.00 18



STATION NUMBER C66C7200

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

MAPLE RIVER AT MAPLETON, IOWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1942	4510.0 14	4030.0 13	2040.0 17	1220.0 18	1070.0 14	663.0 14	495.0 15	397.0 16	313.0 17	222.0 15
1943	3570.0 19	2470.0 18	1300.0 20	687.0 22	533.0 20	460.0 20	367.0 21	302.0 22	254.0 22	167.0 19
1944	4410.0 16	4040.0 12	3260.0 10	2120.0 8	1240.0 8	963.0 8	825.0 4	695.0 6	533.0 6	302.0 6
1945	6800.0 9	4800.0 10	2560.0 12	1440.0 14	1180.0 11	766.0 11	807.0 6	732.0 5	671.0 4	398.0 5
1946	3530.0 18	2470.0 19	1350.0 19	877.0 19	649.0 19	571.0 18	444.0 18	458.0 14	268.0 13	237.0 12
1947	1790.0 25	1340.0 25	893.0 23	710.0 20	527.0 21	346.0 22	330.0 22	321.0 21	258.0 20	163.0 20
1948	5530.0 12	4110.0 11	2160.0 15	1280.0 17	1050.0 15	637.0 15	483.0 16	383.0 18	295.0 19	172.0 18
1949	4500.0 15	3860.0 15	2260.0 13	1300.0 16	872.0 17	530.0 19	409.0 19	347.0 20	254.0 21	150.0 22
1950	6110.0 10	3890.0 14	2190.0 14	1580.0 11	858.0 18	604.0 16	462.0 17	380.0 19	337.0 15	192.0 17
1951	9280.0 7	8400.0 3	5040.0 3	2860.0 4	1790.0 5	1430.0 1	1200.0 1	1120.0 1	1100.0 1	600.0 1
1952	4090.0 17	3570.0 17	2090.0 16	1580.0 12	1120.0 12	845.0 9	751.0 8	753.0 4	650.0 3	472.0 2
1953	2810.0 23	1490.0 23	861.0 24	579.0 23	523.0 22	433.0 21	390.0 20	396.0 17	319.0 16	202.0 16
1954	12400.0 2	8860.0 1	4920.0 4	2550.0 6	1640.0 6	964.0 7	689.0 10	553.0 11	400.0 12	230.0 14
1955	3400.0 20	1770.0 22	1020.0 22	553.0 24	340.0 25	250.0 25	189.0 26	161.0 26	161.0 24	128.0 24
1956	554.0 29	250.0 30	134.0 30	76.9 30	61.1 30	47.7 30	44.8 30	42.2 30	34.3 30	24.5 30
1957	1740.0 26	978.0 26	561.0 27	500.0 25	416.0 24	236.0 26	172.0 27	139.0 27	99.7 28	55.5 28
1958	1450.0 28	877.0 27	639.0 26	376.0 27	232.0 28	162.0 28	129.0 28	133.0 28	108.0 27	78.9 27
1959	11800.0 3	6300.0 8	3990.0 6	2100.0 9	1190.0 10	751.0 12	544.0 12	432.0 15	304.0 18	160.0 21
1960	10400.0 5	6660.0 7	3990.0 7	2150.0 7	1230.0 9	813.0 10	665.0 11	555.0 10	437.0 9	245.0 9
1961	2590.0 21	2370.0 21	1550.0 18	1330.0 15	1090.0 13	704.0 13	526.0 13	512.0 12	413.0 11	243.0 11
1962	10600.0 4	8520.0 2	5920.0 2	3180.0 3	1840.0 4	1090.0 5	982.0 2	849.0 3	767.0 2	435.0 3
1963	5160.0 13	3640.0 16	2640.0 11	1500.0 12	906.0 16	555.0 17	502.0 14	460.0 13	348.0 14	245.0 10
1964	2890.0 22	2450.0 20	1290.0 21	691.0 21	419.0 23	283.0 24	232.0 24	197.0 24	153.0 26	104.0 26
1965	8630.0 8	6750.0 6	6260.0 1	3550.0 2	1930.0 3	1110.0 4	822.0 5	679.0 7	475.0 7	273.0 7
1966	1580.0 27	870.0 28	535.0 28	352.0 28	249.0 27	191.0 27	196.0 25	178.0 25	159.0 25	142.0 23
1967	9350.0 6	7640.0 5	4810.0 5	3570.0 1	2060.0 2	1140.0 3	795.0 7	614.0 9	427.0 10	233.0 13
1968	485.0 30	302.0 29	234.0 29	135.0 29	92.8 29	67.5 29	66.5 29	65.6 29	57.1 29	45.5 29
1969	5810.0 11	4880.0 9	3830.0 8	2850.0 5	2150.0 1	1230.0 2	913.0 3	872.0 2	665.0 5	417.0 4
1970	2360.0 24	1470.0 24	819.0 25	478.0 26	311.0 26	301.0 23	274.0 23	239.0 23	180.0 23	118.0 25
1971	13200.0 1	7830.0 4	3760.0 9	1870.0 10	1590.0 7	977.0 6	693.0 9	636.0 8	475.0 8	272.0 8



STATION NUMBER 06607200

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

MAPLE RIVER AT MAPLETON, ICWA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	CFS_DAYS		
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS			
1942											5	5	6	50	49	61	44	50	38	25	9	6	6	1	2	1	1	2		3	1					81080.0		
1943										13	43	8	30	49	33	48	25	27	18	15	14	9	11	8	5	5	1	1		1	1						60952.0	
1944										5	28	21	41	22	32	18	12	11	38	31	20	16	13	14	9	6	5	6	3	2	2	1					110401.0	
1945	2											3	31	21	11	47	17	36	40	43	30	37	16	6	7	4	1	3	4	3	2	1				145361.0		
1946												12	7	5	32	42	58	41	38	40	33	12	19	11	4	2	6	1		1	1					85423.0		
1947												1	38	34	30	52	50	31	33	37	24	18	7	3	4		2	1									55583.0	
1948													3	69	45	25	57	30	25	19	26	22	8	13	5	6	1	1	1		2	2	1	1			62783.0	
1949										22	27	72	38	21	19	20	18	28	22	24	12	8	13	5	4	2	3	3	1				2	1			54320.0	
1950							10	6	6	9	4	18	62	49	31	28	39	23	20	9	9	8	9	10		6	3	2	1				2	1			70196.0	
1951									19	17	17	38	26	25	10	6	3		2	5	7	14	32	48	35	26	8	8	6	5	4	1			3		215074.0	
1952																	5	21	64	47	76	42	38	24	17	7	12	2	4	2	5						172902.0	
1953													19	35	80	66	21	17	35	44	18	9	9	6	3	1	1		1								73775.0	
1954					1	1					3	7	26	28	52	24	54	49	31	28	16	13	8	8	3	2	2	1	4				1	1	1	1	83837.0	
1955											1	22	16	59	40	35	52	58	28	20	9	5	3	3	4	2	4	2	1				1				46653.0	
1956				8	13	19	18	59	56	39	56	51	17	13	6	3	1	1	2		2																6975.8	
1957				22	19	33	37	32	24	54	23	31	20	14	11	9	6	2	5	8	2	5	1	2	2		2	1								20259.7		
1958											3	20	49	40	28	36	45	74	34	11	8	5	3	2	1	3	1	1	1								28310.0	
1959				36	23	12	9	9	3	37	21	1	7	29	27	25	31	19	12	16	13	10	7	5	2	3	2	1	1	1			2			58248.2		
1960												31	11	34	64	26	6	22	28	43	32	20	16	9	4	8	2	4		2	1	1	1			1	85516.0	
1961												13	11	19	19	23	65	42	30	42	26	22	10	9	5	6	8	7	4	2	2						88601.0	
1962													9	12	37	49	44	21	17	24	39	26	31	18	11	9	6	1	2	1	2	1	2	1	2	2	1	160062.0
1963														27	50	64	30	69	55	30	14	5	3	7	1	4	1	2	2				1				89411.0	
1964													4	38	61	127	35	42	24	17	6	5		2	2				2	1							39059.0	
1965								6	10	6	27	35	56	33	11	19	18	27	32	26	16	8	8	9	5	2	2	1		1			2	4	1		95592.0	
1966																																						51993.0
1967																																						95189.0
1968																																						16647.5
1969																																						152128.0
1970																																						42977.0
1971																																						95457.0



STATION NUMBER 06607200

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

MAPLE RIVER AT MAPLETON, IOWA

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	2	10957	100.0	9	20.00	456	10100	92.2	18	200.0	671	2683	24.5	27	2000	48	162	1.4
1	2.50	36	10955	100.0	10	25.00	609	9644	88.0	19	260.0	554	2012	18.4	28	2600	34	114	1.0
2	3.20	53	10919	99.7	11	33.00	861	9035	82.5	20	340.0	341	1458	13.3	29	3400	32	80	.7
3	4.20	44	10866	99.2	12	43.00	881	8174	74.6	21	430.0	311	1117	10.2	30	4400	21	48	.4
4	5.40	75	10922	98.8	13	55.00	997	7293	66.6	22	560.0	251	806	7.4	31	5700	12	27	.2
5	7.00	85	10747	98.1	14	71.00	992	6296	57.5	23	730.0	149	555	5.1	32	7400	10	15	.1
6	9.10	110	10662	97.3	15	92.00	1041	5304	48.4	24	940.0	115	406	3.7	33	9600	3	5	.0
7	12.00	189	10552	96.3	16	120.00	709	4263	38.9	25	1200.0	85	291	2.7	34	12000	2	2	.0
8	15.00	263	10363	94.6	17	150.00	871	3554	32.4	26	1600.0	44	206	1.9					



STATION NUMBER 066C7500

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

LITTLE SICLY RIVER NEAR TURIN, ICWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1959	22.00 1	22.00 1	22.00 1	22.10 1	22.60 1	24.20 1	26.80 1	32.10 1	36.70 1	213.00 1
1960	56.00 7	100.00 6	106.00 6	117.00 6	128.00 6	153.00 6	184.00 5	195.00 6	235.00 6	748.00 7
1961	120.00 9	120.00 9	120.00 9	120.00 8	135.00 7	168.00 8	217.00 9	261.00 8	422.00 9	1530.00 10
1962	160.00 10	160.00 10	160.00 10	169.00 10	192.00 11	216.00 11	250.00 11	285.00 10	327.00 7	1080.00 8
1963	250.00 13	250.00 13	250.00 13	260.00 13	308.00 13	331.00 13	344.00 12	400.00 12	633.00 13	1780.00 12
1964	55.00 4	71.70 5	86.40 5	88.20 5	96.20 4	112.00 4	123.00 4	135.00 4	150.00 4	447.00 3
1965	105.00 8	105.00 8	111.00 8	125.00 9	143.00 9	164.00 7	186.00 6	224.00 7	460.00 10	653.00 6
1966	163.00 11	164.00 11	169.00 11	175.00 11	190.00 10	284.00 12	417.00 13	565.00 13	587.00 12	1730.00 11
1967	68.00 5	68.00 4	68.00 4	69.30 3	69.30 3	74.70 3	87.40 3	102.00 3	119.00 3	440.00 2
1968	30.00 2	30.00 2	30.60 2	33.10 2	43.90 2	62.60 2	74.30 2	88.20 2	105.00 2	641.00 5
1969	40.00 3	41.00 3	52.10 3	70.30 4	105.00 5	128.00 5	195.00 7	183.00 5	222.00 5	554.00 4
1970	180.00 12	180.00 12	186.00 12	193.00 12	202.00 12	212.00 10	235.00 10	271.00 9	401.00 8	2040.00 13
1971	55.00 6	104.00 7	109.00 7	118.00 7	139.00 8	176.00 9	206.00 8	296.00 11	502.00 11	1260.00 9



STATION NUMBER C66C7500

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

LITTLE SIOUX RIVER NEAR TURIA, IOWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1959	12000.0 9	10400.0 8	7530.0 8	5490.0 8	3540.0 8	2350.0 8	1760.0 8	1410.0 9	1010.0 9	533.0 11
1960	22200.0 3	17700.0 5	13900.0 4	9100.0 4	5530.0 5	4000.0 5	3680.0 4	3040.0 5	2250.0 5	1250.0 5
1961	13600.0 7	12100.0 7	9660.0 6	7060.0 6	5290.0 6	3670.0 6	2850.0 6	2520.0 6	1950.0 6	1140.0 6
1962	21600.0 4	20700.0 2	17700.0 3	14100.0 3	9540.0 3	5530.0 3	4340.0 3	4000.0 3	3410.0 2	1890.0 2
1963	12300.0 8	8590.0 9	5910.0 9	3370.0 9	1990.0 9	1350.0 11	1470.0 10	1270.0 10	583.0 10	725.0 8
1964	7200.0 10	4300.0 11	2350.0 12	1540.0 12	1450.0 12	954.0 12	756.0 12	655.0 12	699.0 12	424.0 12
1965	26600.0 1	25900.0 1	22900.0 1	17800.0 1	11100.0 1	6620.0 1	5230.0 1	4210.0 2	2910.0 3	1620.0 4
1966	6000.0 11	4850.0 10	3440.0 10	2390.0 10	1590.0 11	1360.0 10	1260.0 11	1210.0 11	567.0 11	746.0 7
1967	15100.0 6	13900.0 6	9430.0 7	7690.0 5	5200.0 7	2980.0 7	2090.0 7	1670.0 7	1260.0 7	698.0 9
1968	1570.0 13	1280.0 13	1040.0 13	593.0 13	372.0 13	284.0 13	249.0 13	267.0 13	222.0 13	167.0 13
1969	19700.0 5	19100.0 3	17900.0 2	14400.0 2	9920.0 2	6320.0 2	4850.0 2	4910.0 1	3810.0 1	2220.0 1
1970	4100.0 12	3360.0 12	2680.0 11	2220.0 11	1900.0 10	1740.0 9	1690.0 9	1510.0 8	1100.0 8	691.0 10
1971	26000.0 2	18800.0 4	10800.0 5	6630.0 7	5780.0 4	4770.0 4	3560.0 5	3470.0 4	2770.0 4	1640.0 3



STATION NUMBER C66C7500

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

LITTLE SICUX RIVER NEAR TURIN, IOWA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34																																
YEAR																																		NUMBER OF DAYS IN CLASS																																	CFS_DAYS
1959	55	29	36	21	10			1	8	10	32	26	22	15	10	18	6	10	11	7	9	9	2	3	5	5	1		2							194620.0																															
1960									5	41	30	48	22	8	22	28	14	20	21	24	16	20	11	6	2	5	6	4	4	4	3			1	1	457845.0																															
1961											22	29	6	11	43	44	38	20	12	24	28	22	19	10	6	7	5	10	4	1	2	2				416531.0																															
1962											13	18	39	55	25	9	10	15	11	20	21	32	17	15	29	9	3	5	4	3	6	2	3	1		690316.0																															
1963											4	11	37	54	52	52	43	42	16	21	4	13	3	2	7				1	1	1				266021.0																																
1964						1	1	16	21	40	88	27	30	31	32	17	14	7	6	6	8	13	4	1	1	1			1						155261.0																																
1965									5	7	61	35	19	30	21	20	22	24	7	12	22	12	19	9	14	5	3	1	2	2	2	3	3	4	1	593040.0																															
1966											15	26	20	29	18	21	23	49	47	35	39	15	15	6	2	3		1	1						272406.0																																
1967							42	27	10	61	44	16	28	19	20	29	13	8	4	9	6	3	4	2	3	6	5			2	3	1			251246.0																																
1968		8	9	11	20	19	43	47	99	47	19	14	9	3	4	2	2	5	2	3																61040.0																															
1969											51	30	22	22	23	16	21	29	15	12	26	24	15	14	14	11	5	2	5	2	6				809182.0																																
1970								2	5	13	22	62	49	31	39	18	5	12	14	33	17	18	14	8	2	1									248559.0																																
1971										3	26	38	16	14	12	11	25	35	20	48	21	21	10	8	13	10	12	11	5	3	1		1	1	600242.0																																

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	4748	100.0	9	120.00	311	4296	90.5	18	840.0	195	1404	29.6	27	5800	37	136	2.8
1	22.00	55	4748	100.0	10	150.00	422	3985	83.9	19	1000.0	278	1209	25.5	28	7200	25	99	2.0
2	27.00	37	4693	98.8	11	190.00	326	3563	75.0	20	1300.0	179	931	19.6	29	8500	19	74	1.5
3	34.00	45	4656	98.1	12	230.00	367	3237	68.2	21	1600.0	187	752	15.8	30	11000	25	55	1.1
4	42.00	32	4611	97.1	13	290.00	357	2970	60.4	22	2000.0	126	565	11.9	31	14000	8	30	.6
5	52.00	31	4579	96.4	14	360.00	324	2513	52.9	23	2500.0	86	439	9.2	32	17000	14	22	.4
6	64.00	62	4548	95.8	15	440.00	289	2189	46.1	24	3000.0	101	353	7.4	33	21000	6	8	.1
7	80.00	89	4486	94.5	16	550.00	246	1900	40.0	25	3800.0	61	252	5.3	34	26000	2	2	.0
8	99.00	101	4357	92.6	17	680.00	250	1654	34.8	26	4700.0	55	191	4.0					



STATICA NUMBER 066C8500

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

SOLDIER RIVER AT PISGAH, ICWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1942	4.00 5	4.67 6	4.86 6	5.93 6	13.60 12	21.30 14	29.40 15	35.20 15	44.20 16	54.10 4
1943	8.00 12	8.33 13	8.86 11	10.60 12	11.40 9	12.50 7	14.80 6	16.30 5	35.00 12	137.00 20
1944	5.00 7	6.00 7	6.14 8	6.36 8	8.07 7	10.20 5	12.90 4	12.50 4	21.50 4	65.90 7
1945	2.00 1	2.00 1	2.00 1	2.36 1	3.83 2	7.17 4	16.20 8	18.90 7	27.50 7	174.00 24
1946	29.00 26	29.70 25	30.30 26	30.90 25	36.20 27	39.40 25	39.20 22	50.40 25	74.00 25	175.00 25
1947	19.00 20	23.00 22	24.40 22	25.90 22	31.90 23	41.80 26	53.00 26	62.70 26	79.70 26	125.00 17
1948	10.00 15	10.70 16	11.40 15	13.80 15	26.80 20	35.90 22	41.00 23	43.50 22	44.40 17	139.00 21
1949	13.00 17	13.00 17	13.40 17	14.90 16	15.70 13	17.50 11	21.10 10	24.50 10	34.00 11	106.00 11
1950	4.00 6	4.00 5	4.00 5	4.00 5	5.43 4	13.70 9	14.70 5	23.40 9	39.90 15	122.00 15
1951	8.00 13	8.00 12	9.14 13	9.57 10	12.00 10	13.80 10	15.30 7	17.10 6	28.40 8	158.00 27
1952	60.00 30	62.00 30	66.30 30	75.60 30	82.30 30	116.00 30	126.00 30	161.00 30	237.00 30	351.00 30
1953	59.00 29	59.00 29	59.00 29	59.00 29	59.40 28	64.40 28	70.10 28	72.40 28	81.00 27	158.00 28
1954	7.00 11	7.33 10	8.00 10	11.10 13	18.00 16	30.10 19	33.30 18	37.80 19	38.80 14	103.00 9
1955	18.00 19	18.00 19	18.10 19	18.90 19	20.60 18	26.80 17	32.30 17	35.40 16	46.40 19	125.00 16
1956	6.00 8	6.00 8	6.00 7	6.14 7	6.50 6	6.65 2	7.76 3	10.10 2	11.60 3	25.90 1
1957	3.00 4	3.00 4	3.00 4	3.38 3	3.91 3	6.80 3	7.66 2	10.40 3	11.10 2	27.70 2
1958	2.90 3	2.87 3	3.17 3	3.84 4	5.48 5	10.70 6	25.30 13	30.10 14	35.10 13	65.50 6
1959	2.50 2	2.50 2	2.50 2	2.89 2	3.27 1	3.85 1	4.80 1	6.98 1	5.70 1	46.30 3
1960	6.90 9	7.90 11	8.90 12	12.90 14	16.50 14	20.30 13	22.80 11	25.90 12	26.70 6	87.50 8
1961	20.00 21	20.30 21	21.30 21	22.90 20	24.70 19	27.00 18	32.20 16	36.10 17	50.70 21	145.00 22
1962	22.00 24	23.70 23	27.70 23	30.60 24	34.10 26	38.70 23	44.00 25	48.90 24	53.00 23	128.00 19
1963	58.00 28	58.00 28	58.00 28	58.60 28	65.70 25	70.90 29	77.50 29	87.90 29	114.00 29	230.00 29
1964	26.00 25	30.00 26	31.70 27	32.80 27	33.90 25	39.00 24	41.70 24	45.70 23	45.80 20	104.00 10
1965	20.00 22	20.00 20	20.00 20	23.20 21	29.90 21	31.20 20	34.10 19	37.20 18	52.50 22	188.00 26
1966	30.00 27	30.00 27	30.00 24	31.00 26	33.50 24	60.50 27	66.00 27	72.00 27	90.80 28	157.00 23
1967	13.00 18	13.00 18	14.10 18	15.10 17	16.90 15	18.30 12	22.90 12	24.80 11	29.00 9	55.80 5
1968	10.00 16	10.00 14	10.00 14	10.10 11	12.40 11	22.20 15	27.10 14	28.70 13	31.60 10	116.00 13
1969	9.00 14	10.70 15	12.00 16	15.40 18	19.50 17	23.10 16	36.70 21	41.10 21	57.80 24	118.00 14
1970	22.00 23	26.70 24	30.00 25	30.00 23	30.00 22	31.60 21	35.70 20	38.20 20	45.70 18	110.00 12
1971	7.00 10	7.33 9	7.71 9	7.86 9	9.43 8	12.80 8	20.10 9	23.30 8	24.10 5	127.00 18



STATION NUMBER 066C8500

HIGHEST MEAN DISCHARGE, IN CFS, AND PANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

SOLDIER RIVER AT PISCAN, ICWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1941	1117.0 29	551.0 29	307.0 29	232.0 28	169.0 28	99.2 30	77.4 30	80.4 30	73.3 28	52.1 28
1942	7260.0 2	3260.0 4	1490.0 14	765.0 14	726.0 7	463.0 9	359.0 8	286.0 9	213.0 10	132.0 11
1943	3000.0 19	1740.0 18	826.0 23	412.0 25	233.0 24	181.0 23	163.0 23	134.0 23	121.0 23	78.6 23
1944	4690.0 9	2850.0 8	1800.0 8	1000.0 8	580.0 12	403.0 10	335.0 10	267.0 12	204.0 13	112.0 16
1945	5470.0 8	2810.0 9	1600.0 9	1180.0 7	717.0 8	473.0 6	454.0 4	433.0 4	347.0 5	192.0 5
1946	3500.0 16	1590.0 19	899.0 19	498.0 20	367.0 18	249.0 18	237.0 18	217.0 17	175.0 17	143.0 9
1947	1610.0 24	911.0 27	582.0 26	480.0 21	344.0 20	240.0 21	197.0 21	183.0 21	149.0 21	108.0 20
1948	4070.0 13	2390.0 14	1350.0 16	710.0 16	563.0 13	358.0 14	259.0 16	205.0 18	180.0 16	110.0 19
1949	3000.0 20	2540.0 12	1500.0 12	885.0 12	626.0 11	370.0 13	297.0 13	245.0 13	203.0 14	121.0 14
1950	6310.0 3	2430.0 13	1820.0 7	959.0 9	638.0 10	382.0 12	332.0 11	354.0 6	292.0 6	168.0 6
1951	6150.0 4	6000.0 1	3100.0 1	1650.0 1	914.0 4	680.0 2	664.0 1	611.0 1	552.0 1	320.0 1
1952	5730.0 7	2190.0 16	1500.0 13	904.0 11	712.0 9	494.0 5	402.0 6	402.0 5	391.0 3	271.0 2
1953	2630.0 21	1260.0 22	842.0 21	447.0 22	296.0 22	233.0 22	216.0 19	201.0 19	201.0 15	133.0 10
1954	5380.0 6	3060.0 7	1430.0 15	757.0 15	550.0 14	332.0 16	271.0 14	221.0 16	175.0 19	113.0 17
1955	1500.0 27	1030.0 25	616.0 25	438.0 23	277.0 23	174.0 24	128.0 24	105.0 25	82.2 26	58.5 26
1956	775.0 31	481.0 30	276.0 30	138.0 31	83.3 31	60.6 31	59.6 31	54.2 31	44.8 31	27.3 31
1957	1770.0 23	1070.0 23	540.0 27	394.0 26	232.0 25	169.0 25	128.0 25	103.0 26	72.8 29	44.4 30
1958	1590.0 26	543.0 26	629.0 24	338.0 27	195.0 27	129.0 29	96.0 29	86.4 28	52.6 25	61.0 25
1959	2520.0 22	1440.0 21	996.0 18	529.0 19	339.0 21	241.0 20	182.0 22	157.0 22	126.0 22	68.7 24
1960	3200.0 17	2150.0 17	1590.0 10	932.0 10	544.0 15	395.0 11	330.0 12	278.0 11	217.0 9	123.0 13
1961	1140.0 28	1030.0 24	836.0 22	536.0 18	401.0 17	275.0 17	206.0 20	194.0 20	159.0 20	103.0 21
1962	6000.0 5	4050.0 3	2670.0 2	1420.0 3	805.0 6	468.0 7	502.0 3	437.0 3	420.0 2	240.0 3
1963	3590.0 15	2710.0 15	1110.0 17	601.0 17	366.0 19	244.0 19	259.0 17	232.0 14	207.0 11	150.0 8
1964	4460.0 11	3070.0 6	1500.0 11	782.0 13	531.0 16	343.0 15	269.0 15	223.0 15	176.0 18	113.0 18
1965	4540.0 10	3230.0 5	2390.0 4	1400.0 4	1080.0 1	725.0 1	541.0 2	479.0 2	356.0 4	211.0 4
1966	1600.0 25	794.0 28	410.0 28	221.0 29	155.0 29	132.0 26	111.0 27	106.0 24	101.0 24	83.7 22
1967	3940.0 14	2630.0 11	2030.0 6	1530.0 2	939.0 3	529.0 4	370.0 7	286.0 10	207.0 12	118.0 15
1968	4100.0 12	1530.0 20	869.0 20	427.0 24	232.0 26	130.0 27	106.0 28	84.7 29	67.7 30	49.9 29
1969	3090.0 18	2650.0 10	2080.0 5	1320.0 5	818.0 5	467.0 8	353.0 9	325.0 7	262.0 7	162.0 7
1970	895.0 30	423.0 31	260.0 31	185.0 30	154.0 30	130.0 28	116.0 26	103.0 27	82.0 27	56.6 27
1971	7890.0 1	5240.0 2	2450.0 3	1220.0 6	982.0 2	586.0 3	405.0 5	323.0 8	229.0 8	126.0 12







DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

SOLDIER RIVER AT PISGAH, ICWA

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	11322	100.0	9	15.00	578	9913	87.6	18	140.0	388	1757	15.5	27	1300	31	163	1.4
1	2.00	16	11322	100.0	10	19.00	625	9335	82.5	19	170.0	373	1369	12.1	28	1600	52	132	1.1
2	2.60	14	11306	99.9	11	24.00	1075	8710	76.9	20	220.0	252	996	8.8	29	2100	28	80	.7
3	3.30	97	11292	99.7	12	31.00	1064	7635	67.4	21	290.0	155	744	6.6	30	2700	17	52	.4
4	4.20	36	11155	98.9	13	39.00	1293	6571	58.0	22	370.0	116	589	5.2	31	3400	15	35	.3
5	5.40	136	11159	98.6	14	51.00	1040	5278	46.6	23	470.0	104	473	4.2	32	4400	11	20	.1
6	6.90	219	11023	97.4	15	65.00	939	4239	37.4	24	610.0	82	369	3.3	33	5700	8	9	.0
7	8.90	295	10905	95.4	16	83.00	949	3299	29.1	25	780.0	61	287	2.5	34	7300	1	1	
8	11.00	597	10510	92.8	17	110.00	593	2350	20.8	26	1000.0	63	226	2.0					



STATION NUMBER C66C950C

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

BOYER RIVER AT LOGAN, ICWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1920	38.00 27	42.70 29	44.00 29	48.90 29	74.80 31	91.60 30	112.00 30	135.00 31	162.00 30	382.00 28
1921	36.00 22	50.00 30	50.00 30	55.00 30	68.30 30	96.50 31	144.00 35	145.00 34	166.00 32	313.00 26
1922	52.00 31	59.70 31	60.00 31	60.00 31	65.80 29	80.70 29	90.20 28	96.20 27	175.00 33	266.00 20
1923	40.00 30	40.00 28	40.00 25	42.30 26	46.50 25	58.50 27	65.10 22	87.70 26	84.50 17	201.00 10
1924	170.00 37	142.00 38	151.00 38	157.00 38	159.00 37	181.00 37	207.00 37	240.00 37	230.00 37	434.00 33
1939	1.50 1	1.83 1	4.36 3	13.30 9	19.30 11	22.70 6	24.50 5	37.00 8	142.00 28	229.00 16
1940	2.00 2	2.00 2	2.00 1	2.00 1	2.73 1	3.30 1	4.87 1	5.77 1	6.26 1	106.00 4
1941	18.00 15	18.70 15	19.10 14	19.60 13	22.40 12	27.30 10	33.70 9	35.50 7	62.60 11	171.00 7
1942	7.00 5	7.00 5	8.00 7	13.80 10	22.20 18	44.70 18	58.20 18	60.60 17	64.80 12	120.00 5
1943	19.00 16	21.00 17	21.60 17	23.80 17	26.80 16	29.60 11	37.80 11	44.80 13	91.60 21	304.00 25
1944	15.00 13	16.00 13	18.00 13	20.40 14	25.90 15	39.10 16	47.00 15	48.30 14	65.70 13	238.00 17
1945	36.00 23	38.00 24	38.90 22	40.30 24	48.20 26	56.70 23	73.50 25	81.50 24	127.00 24	476.00 36
1946	87.00 34	87.70 34	89.60 34	89.30 33	97.80 32	117.00 34	125.00 33	144.00 33	245.00 25	697.00 37
1947	39.00 28	39.70 25	40.00 26	42.30 27	52.00 28	56.80 24	81.80 27	104.00 28	140.00 27	264.00 19
1948	20.00 17	23.30 19	25.70 19	30.20 20	42.60 22	61.50 28	81.30 26	86.50 25	86.10 18	406.00 32
1949	21.00 19	21.70 18	22.40 18	22.80 16	23.60 13	26.20 9	30.80 8	32.90 5	48.30 6	224.00 14
1950	8.00 9	8.00 9	8.86 9	10.40 7	16.20 8	25.00 8	29.60 6	42.80 11	96.10 22	221.00 13
1951	13.00 11	13.00 11	13.10 11	13.80 11	16.00 7	22.20 5	29.60 7	33.80 6	56.40 10	395.00 30
1952	140.00 38	140.00 37	140.00 37	140.00 37	162.00 38	230.00 38	328.00 38	400.00 38	512.00 38	893.00 38
1953	97.00 36	97.00 36	97.00 36	97.60 35	98.90 33	111.00 32	124.00 32	126.00 29	164.00 21	435.00 34
1954	7.00 6	7.67 8	8.00 8	9.29 5	15.40 6	34.30 14	40.00 13	41.30 9	44.80 5	179.00 5
1955	36.00 24	36.00 21	36.70 21	37.70 21	40.30 20	52.90 20	70.90 23	80.30 22	110.00 23	271.00 21
1956	7.00 7	7.00 6	7.00 5	7.11 4	7.37 4	8.35 2	9.80 2	12.00 2	19.50 2	75.00 2
1957	4.00 3	4.00 3	4.00 2	4.16 2	5.48 2	10.10 4	12.90 4	16.50 4	21.80 3	62.30 1
1958	7.60 8	7.67 7	7.89 6	9.55 6	12.00 5	57.50 26	71.70 24	80.40 23	83.70 16	209.00 12
1959	5.70 4	5.70 4	5.79 4	6.21 3	6.78 3	8.87 3	10.70 3	16.00 3	22.30 4	105.00 3
1960	36.00 25	40.00 26	40.00 27	40.00 22	44.00 24	51.20 19	60.40 19	70.70 19	73.70 14	227.00 15
1961	25.00 20	25.30 20	26.10 20	27.50 19	31.30 17	36.50 15	49.20 16	57.20 16	86.30 19	288.00 22
1962	67.70 32	68.00 32	75.40 32	79.20 32	101.00 34	111.00 33	120.00 31	129.00 30	136.00 26	361.00 27
1963	90.00 35	90.00 35	92.90 35	99.40 36	114.00 36	120.00 35	142.00 34	163.00 35	215.00 34	453.00 35
1964	38.00 26	38.00 22	39.70 23	40.60 25	43.90 23	54.60 22	57.70 17	65.30 18	77.90 15	172.00 6
1965	36.00 21	38.00 23	41.10 28	44.80 28	48.90 27	57.20 25	63.70 21	71.50 20	129.00 25	394.00 29
1966	80.00 33	83.70 33	87.60 33	92.30 34	101.00 35	147.00 36	186.00 36	195.00 36	246.00 36	403.00 31
1967	20.00 18	20.30 16	21.40 15	22.40 15	25.40 14	31.20 12	37.60 10	42.80 10	45.10 7	127.00 6
1968	12.00 10	12.00 10	12.00 10	12.40 8	16.40 9	33.00 13	39.00 12	44.10 12	51.70 8	209.00 11
1969	15.00 14	18.70 14	21.40 16	27.10 18	32.90 19	42.70 17	111.00 29	143.00 32	144.00 29	289.00 23
1970	40.00 29	40.00 27	40.00 24	40.00 23	40.70 21	53.40 21	63.20 20	72.60 21	86.80 20	303.00 24
1971	14.00 12	14.00 12	14.60 12	15.10 12	17.10 10	24.40 7	42.20 14	50.50 15	51.70 9	262.00 18



STATION NUMBER C66C950C

HIGHEST MEAN DISCHARGE, IN CFS, AND PANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

BOYER RIVER AT LOGAN, ICWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1919	5297.0 22	2940.0 23	2200.0 21	1840.0 15	1420.0 13	998.0 11	826.0 9	700.0 9	592.0 9	354.0 9
1920	2390.0 36	2110.0 32	1600.0 27	997.0 26	743.0 25	653.0 21	603.0 18	596.0 14	497.0 12	332.0 11
1921	3933.0 27	2010.0 33	1020.0 35	645.0 35	532.0 32	398.0 33	370.0 31	377.0 29	354.0 26	277.0 17
1922	3490.0 31	2170.0 30	1270.0 31	777.0 33	593.0 31	420.0 32	426.0 29	355.0 31	290.0 30	213.0 27
1923	3680.0 29	2240.0 26	1610.0 26	958.0 27	794.0 23	567.0 24	568.0 20	530.0 18	468.0 15	306.0 14
1924	10500.0 6	4760.0 13	3100.0 13	1980.0 12	1510.0 11	1030.0 9	938.0 7	777.0 8	733.0 7	522.0 5
1939	2990.0 34	2150.0 31	1780.0 23	1270.0 22	766.0 24	424.0 30	319.0 32	302.0 32	285.0 31	160.0 32
1940	7830.0 12	3890.0 19	1910.0 22	955.0 28	528.0 33	486.0 27	444.0 28	257.0 30	296.0 29	155.0 33
1941	2700.0 37	1390.0 36	819.0 36	548.0 36	423.0 36	247.0 38	186.0 38	182.0 38	162.0 37	103.0 37
1942	5037.0 23	4530.0 15	2870.0 15	1680.0 18	1140.0 18	867.0 16	701.0 14	560.0 16	428.0 18	272.0 18
1943	4270.0 25	3350.0 22	1760.0 24	1350.0 21	852.0 22	558.0 25	564.0 21	542.0 17	401.0 22	284.0 15
1944	10600.0 5	7690.0 3	5130.0 3	3290.0 3	1920.0 6	1350.0 5	1110.0 5	922.0 6	694.0 8	383.0 6
1945	11000.0 4	7670.0 4	3940.0 8	2990.0 5	2360.0 1	1900.0 1	1710.0 2	1430.0 2	1210.0 2	673.0 2
1946	4220.0 26	2260.0 25	1330.0 30	917.0 30	655.0 29	593.0 23	531.0 23	465.0 23	460.0 16	337.0 10
1947	6030.0 18	4490.0 17	2650.0 18	2140.0 11	1560.0 10	1010.0 10	787.0 11	694.0 10	541.0 10	329.0 12
1948	6070.0 19	4940.0 11	3170.0 12	1730.0 17	1370.0 14	892.0 14	662.0 17	519.0 20	406.0 20	239.0 24
1949	9200.0 9	6730.0 6	4110.0 6	2320.0 5	1500.0 12	870.0 15	663.0 16	565.0 15	435.0 17	264.0 22
1950	10100.0 7	5190.0 8	2670.0 17	1810.0 16	1290.0 15	862.0 17	703.0 13	629.0 13	535.0 11	310.0 13
1951	17600.0 1	13300.0 1	7250.0 1	3840.0 1	2120.0 4	1780.0 2	1750.0 1	1640.0 1	1480.0 1	807.0 1
1952	9300.0 8	3820.0 20	2850.0 14	1930.0 14	1580.0 9	1060.0 8	878.0 8	882.0 7	820.0 4	594.0 3
1953	3240.0 32	1540.0 35	1170.0 33	821.0 32	681.0 28	537.0 26	507.0 25	512.0 21	421.0 19	265.0 21
1954	8560.0 10	5090.0 9	2860.0 16	1490.0 19	1100.0 19	662.0 20	554.0 22	438.0 24	346.0 27	209.0 29
1955	3920.0 28	2190.0 28	1400.0 29	1030.0 25	630.0 30	423.0 31	310.0 33	250.0 34	229.0 34	163.0 31
1956	3010.0 33	1310.0 37	693.0 38	334.0 39	239.0 39	146.0 39	128.0 39	137.0 39	101.0 39	58.7 39
1957	14200.0 3	6810.0 5	3780.0 9	2340.0 8	1220.0 17	705.0 18	523.0 24	411.0 28	281.0 22	154.0 34
1958	5430.0 21	2190.0 29	1060.0 34	660.0 34	417.0 37	303.0 35	233.0 36	202.0 36	214.0 35	147.0 35
1959	5790.0 20	3990.0 18	2590.0 19	1390.0 20	928.0 20	665.0 19	494.0 26	415.0 27	313.0 28	170.0 30
1960	6340.0 16	5030.0 10	3560.0 10	2120.0 12	1280.0 16	926.0 13	749.0 12	642.0 12	491.0 13	282.0 16
1961	3640.0 30	2200.0 27	1220.0 32	930.0 29	692.0 27	470.0 29	404.0 30	431.0 26	383.0 23	231.0 25
1962	7600.0 13	6490.0 7	5860.0 2	3750.0 2	2220.0 3	1290.0 6	1250.0 3	1060.0 3	910.0 3	535.0 4
1963	2880.0 35	1900.0 34	1650.0 25	1120.0 24	715.0 26	471.0 28	482.0 27	438.0 25	364.0 25	270.0 19
1964	6750.0 14	4500.0 16	2310.0 20	1240.0 23	852.0 21	650.0 22	574.0 19	483.0 22	402.0 21	240.0 23
1965	8500.0 11	4920.0 12	3960.0 7	2460.0 7	1870.0 7	1390.0 4	1170.0 4	1040.0 4	763.0 5	464.0 6
1965	1640.0 38	981.0 38	779.0 37	504.0 37	437.0 35	329.0 34	291.0 34	270.0 33	245.0 33	220.0 26
1967	6180.0 17	3690.0 21	3370.0 11	2690.0 6	1680.0 8	964.0 12	672.0 15	525.0 19	371.0 24	212.0 28
1968	6410.0 15	2750.0 24	1560.0 29	841.0 31	480.0 34	263.0 36	230.0 37	189.0 37	144.0 38	97.6 38
1969	5070.0 24	4710.0 14	4210.0 5	3030.0 4	2340.0 2	1410.0 3	1060.0 6	960.0 5	741.0 6	460.0 7
1970	1470.0 39	933.0 39	558.0 39	373.0 38	270.0 38	258.0 37	256.0 35	233.0 35	180.0 36	122.0 36
1971	17300.0 2	9310.0 2	4560.0 4	2310.0 10	1970.0 5	1150.0 7	811.0 10	674.0 11	482.0 14	267.0 20







DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

BOYER RIVER AT LOGAN, IOWA

CLASS 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34

YEAR 1971

NUMBER OF DAYS IN CLASS  
 27 38 29 20 28 62 26 29 32 21 21 9 5 2 3 1 3 2 1 3 2 1 3 2 1 1 1  
 CFS\_DAYS 97461.0

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	14245	100.0	9	14.00	286	13682	56.0	18	190.0	1083	5010	35.2	27	2400	71	225	1.5
1	1.50	0	14245	100.0	10	19.00	469	13396	94.0	19	250.0	956	3927	27.6	28	3200	61	154	1.0
2	2.00	15	14245	100.0	11	26.00	489	12927	90.7	20	330.0	840	2971	20.9	29	4200	47	93	.6
3	2.50	25	14230	99.9	12	34.00	845	12438	87.3	21	430.0	661	2131	15.0	30	5600	24	46	.3
4	3.50	35	14205	99.7	13	45.00	1108	11593	81.4	22	580.0	451	1470	10.3	31	7400	11	22	.1
5	4.70	46	14170	99.5	14	60.00	1298	10485	73.6	23	770.0	295	1019	7.2	32	9800	7	11	.0
6	6.20	139	14124	99.2	15	79.00	1673	9187	64.5	24	1000.0	210	724	5.1	33	13000	2	4	.0
7	9.20	153	13986	98.2	16	110.00	1115	7514	52.7	25	1300.0	178	514	3.6	34	17000	2	2	.0
8	11.00	151	13933	97.1	17	140.00	1389	6399	44.9	26	1800.0	111	336	2.4					



STATION\_NUMBER 6-6100.00

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

MISSOURI RIVER AT OMAHA, NEBRASKA

YEAR	1 5720.0 25	3 5810.0 26	7 5950.0 23	14 6530.0 17	30 7780.0 16	60 8670.0 18	90 10000.0 20	120 11900.0 20	183 13100.0 11	ANNUAL 35900.0 31
1930										
1931	5750.0 26	6030.0 27	6590.0 26	7550.0 27	8120.0 21	8380.0 13	10700.0 25	12100.0 23	13600.0 13	23200.0 15
1932	4940.0 22	5010.0 21	5440.0 18	5580.0 11	6030.0 8	6830.0 6	7520.0 6	8540.0 7	9120.0 6	15200.0 2
1933	4000.0 13	4000.0 13	4140.0 6	4320.0 6	5330.0 5	7100.0 7	7870.0 8	8900.0 9	10600.0 8	27700.0 24
1934	3500.0 9	3500.0 7	3690.0 4	3960.0 3	4930.0 3	7610.0 8	9570.0 18	10100.0 15	12400.0 10	24700.0 18
1935	3600.0 10	3700.0 10	4120.0 5	4150.0 4	5080.0 4	5580.0 3	6900.0 4	7590.0 4	7750.0 1	14400.0 1
1936	4200.0 15	4430.0 15	4830.0 13	5090.0 8	5610.0 7	6470.0 5	6920.0 5	7000.0 1	7920.0 2	22500.0 11
1937	2200.0 1	2270.0 1	2880.0 1	4190.0 5	5350.0 6	6300.0 4	6840.0 3	7840.0 5	8830.0 5	17500.0 4
1938	2500.0 3	2630.0 2	2900.0 2	3270.0 2	4360.0 2	5550.0 2	6540.0 2	7530.0 3	8350.0 3	22800.0 12
1939	5300.0 23	5370.0 22	5810.0 21	7100.0 21	9500.0 32	11500.0 32	11100.0 27	12500.0 25	16000.0 18	27800.0 25
1940	3000.0 6	3000.0 4	3030.0 3	3170.0 1	3660.0 1	4650.0 1	5780.0 1	7410.0 2	8380.0 4	22000.0 9
1941	4200.0 16	4300.0 14	4660.0 11	6180.0 12	6930.0 12	7990.0 11	7710.0 7	8500.0 6	10400.0 7	17300.0 3
1942	3620.0 11	3870.0 11	4470.0 9	5010.0 7	6330.0 10	7850.0 9	8570.0 11	10300.0 17	14300.0 16	23000.0 14
1943	6500.0 32	6570.0 33	6600.0 27	6860.0 18	7610.0 15	8460.0 15	10200.0 23	12700.0 26	16200.0 21	32500.0 30
1944	9500.0 36	9730.0 36	9990.0 36	10300.0 36	11300.0 36	14100.0 35	16300.0 35	18100.0 34	21700.0 32	38600.0 32
1945	11100.0 37	11500.0 37	12100.0 37	12200.0 37	13100.0 37	14100.0 36	18000.0 36	20200.0 36	22700.0 33	45200.0 36
1946	4500.0 19	4830.0 19	5000.0 14	6250.0 13	9260.0 30	9910.0 28	11000.0 26	13400.0 27	18300.0 27	28800.0 26
1947	2500.0 4	3330.0 6	4760.0 12	5340.0 10	6880.0 11	9850.0 26	11300.0 28	13700.0 29	19800.0 28	25400.0 20
1948	6200.0 30	6600.0 32	7000.0 29	8160.0 29	11100.0 35	12100.0 33	12700.0 31	15900.0 33	22700.0 34	42700.0 35
1949	6180.0 29	6210.0 28	6280.0 25	6480.0 16	7220.0 13	10500.0 29	13300.0 33	18300.0 35	24100.0 36	40100.0 33
1950	3830.0 12	3970.0 12	4190.0 7	5100.0 9	6460.0 9	7850.0 10	9640.0 19	12000.0 21	17300.0 24	32100.0 29
1951	4740.0 20	4970.0 20	5380.0 16	6370.0 14	8770.0 28	14200.0 37	14800.0 34	15800.0 32	22900.0 35	40400.0 34
1952	6780.0 33	7020.0 33	7230.0 32	7460.0 25	8580.0 26	14100.0 34	20200.0 37	23100.0 38	30100.0 38	46100.0 38
1953	7700.0 35	7930.0 34	8240.0 34	8350.0 33	9950.0 33	11100.0 31	13200.0 32	15600.0 31	20600.0 31	45500.0 37
1954	5800.0 27	5800.0 25	6160.0 24	7830.0 28	8290.0 22	9910.0 27	12100.0 30	14400.0 30	19800.0 29	31800.0 28
1955	6320.0 31	6450.0 29	7190.0 31	7470.0 26	8700.0 27	9730.0 24	10700.0 24	11500.0 19	17000.0 23	25000.0 19
1956	2970.0 5	3210.0 5	4300.0 8	7000.0 20	8360.0 23	8850.0 19	9020.0 14	9700.0 13	16600.0 22	23600.0 16
1957	4160.0 14	4590.0 13	5640.0 19	7190.0 23	8040.0 20	8570.0 17	8690.0 12	9060.0 10	13200.0 12	22300.0 10
1958	5300.0 24	5790.0 24	6740.0 28	8210.0 30	8550.0 24	9260.0 22	9350.0 16	10300.0 18	14500.0 17	21200.0 7
1959	4400.0 17	4470.0 16	5290.0 15	6870.0 19	7880.0 17	8960.0 20	9470.0 17	9790.0 14	14200.0 15	20600.0 5
1960	4430.0 18	4580.0 17	5740.0 20	8430.0 34	8570.0 25	9120.0 21	9300.0 15	9460.0 12	13700.0 14	21500.0 8
1961	7500.0 34	8000.0 35	8460.0 35	9210.0 35	9400.0 31	9860.0 25	10100.0 21	12400.0 24	17600.0 25	25600.0 21
1962	2440.0 2	2730.0 3	4650.0 10	6410.0 15	7340.0 14	8090.0 12	8530.0 10	8870.0 8	11700.0 9	20600.0 6
1963	3300.0 8	3630.0 8	5390.0 17	7430.0 24	7890.0 18	8420.0 14	8990.0 13	10200.0 16	16100.0 19	25600.0 22
1964	6000.0 28	6590.0 31	7060.0 30	7110.0 22	7960.0 19	8510.0 16	8520.0 9	9310.0 11	16100.0 20	22900.0 13
1965	3200.0 7	3700.0 9	5900.0 22	8220.0 31	9170.0 29	9390.0 23	10100.0 22	12000.0 22	18100.0 26	23700.0 17
1966	11500.0 38	11800.0 38	13000.0 38	14900.0 38	16300.0 38	17700.0 38	20200.0 38	20600.0 37	24500.0 37	28900.0 27
1967	4800.0 21	5370.0 23	7740.0 33	8290.0 32	10300.0 34	10600.0 30	11700.0 29	13500.0 28	20300.0 30	26500.0 23



## STATION\_NUMBER 6-6100.00

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## MISSOURI RIVER AT OMAHA, NEBRASKA

YEAR	1	2	3	7	15	30	60	90	120	183	ANNUAL									
1929	154000.0	2	189000.0	2	169000.0	2	142000.0	2	114000.0	3	85200.0	4	73400.0	3	72900.0	3	58800.0	5	36700.0	7
1930	84400.0	23	80400.0	22	74900.0	22	66800.0	22	57500.0	19	50200.0	18	47400.0	16	46300.0	17	39300.0	15	26300.0	17
1931	51700.0	34	48300.0	31	46300.0	28	42300.0	28	36000.0	28	27800.0	39	23300.0	39	22700.0	39	20400.0	39	16100.0	39
1932	129000.0	10	129000.0	10	117000.0	10	101000.0	10	87800.0	9	71300.0	11	60400.0	11	55000.0	11	44200.0	13	27200.0	15
1933	95800.0	21	87400.0	21	82700.0	21	75200.0	19	68100.0	15	60000.0	13	49500.0	14	47600.0	14	38300.0	16	24600.0	22
1934	85900.0	22	53100.0	28	40100.0	31	34400.0	35	33700.0	32	29700.0	36	26600.0	38	25600.0	38	22700.0	38	16200.0	38
1935	57100.0	20	87700.0	20	83100.0	20	70900.0	21	65100.0	17	53800.0	17	44300.0	19	40100.0	20	31800.0	25	20300.0	35
1936	84100.0	24	78300.0	23	73000.0	23	57400.0	24	51900.0	23	41100.0	24	37600.0	23	37900.0	21	30500.0	30	19300.0	36
1937	109000.0	15	105000.0	15	94900.0	17	79000.0	17	63500.0	18	55400.0	16	45000.0	18	40700.0	18	33900.0	21	21100.0	31
1938	116000.0	13	115000.0	12	112000.0	11	104000.0	9	82700.0	11	63200.0	12	51400.0	13	47100.0	15	41500.0	14	26300.0	18
1939	140000.0	9	139000.0	9	125000.0	9	91400.0	13	65300.0	16	47600.0	19	46700.0	17	46700.0	16	38000.0	17	26000.0	19
1940	53100.0	32	44000.0	34	38600.0	34	34500.0	33	32800.0	35	28000.0	37	27300.0	37	26100.0	37	24000.0	37	16300.0	37
1941	105000.0	16	103000.0	16	92700.0	18	73500.0	20	57200.0	22	41600.0	23	37100.0	24	33800.0	27	30600.0	29	20600.0	33
1942	120000.0	11	118000.0	11	107000.0	12	96100.0	11	83400.0	10	81200.0	5	68300.0	7	59700.0	9	48700.0	10	31500.0	12
1943	190000.0	4	134000.0	4	164000.0	5	140000.0	3	96500.0	7	73300.0	8	64500.0	8	67600.0	7	56200.0	7	36400.0	9
1944	143000.0	8	148000.0	6	141000.0	6	127000.0	6	122000.0	2	93900.0	2	77500.0	2	75800.0	2	61400.0	3	41500.0	3
1945	105000.0	17	103000.0	17	96200.0	15	88600.0	15	73600.0	14	55700.0	15	48900.0	15	49000.0	13	45200.0	12	33600.0	10
1946	80700.0	26	77900.0	25	67200.0	25	59600.0	23	51000.0	24	42200.0	22	37000.0	25	34100.0	25	31400.0	27	25200.0	21
1947	147000.0	7	148000.0	7	140000.0	7	120000.0	7	99300.0	6	78000.0	6	71200.0	5	71300.0	4	59500.0	4	39700.0	4
1948	104000.0	18	98100.0	18	95700.0	16	90700.0	14	80500.0	12	71400.0	10	62300.0	9	60400.0	8	55700.0	8	39100.0	5
1949	162000.0	5	175000.0	5	166000.0	3	137000.0	4	106000.0	5	73700.0	7	61800.0	10	57800.0	10	49000.0	9	36500.0	8
1950	192000.0	3	185000.0	3	166000.0	4	131000.0	5	112000.0	4	87700.0	3	73300.0	4	69300.0	5	57800.0	6	37800.0	6
1951	149000.0	6	147000.0	8	140000.0	8	115000.0	8	94800.0	8	73100.0	9	69300.0	6	68200.0	6	63200.0	2	43000.0	2
1952	384000.0	1	364000.0	1	328000.0	1	258000.0	1	189000.0	1	126000.0	1	103000.0	1	89000.0	1	69000.0	1	49200.0	1
1953	111000.0	14	106000.0	14	99600.0	14	92300.0	12	79900.0	13	59700.0	14	53200.0	12	51200.0	12	45700.0	11	33300.0	11
1954	82400.0	25	78300.0	24	68000.0	24	52600.0	26	42500.0	27	38100.0	26	36100.0	26	35100.0	24	33400.0	22	26600.0	16
1955	41900.0	36	38800.0	36	35700.0	37	35100.0	32	34800.0	29	31700.0	31	31500.0	31	31200.0	30	30700.0	28	23800.0	26
1956	40200.0	38	38200.0	37	36000.0	36	34400.0	34	34000.0	31	33500.0	29	32700.0	29	32100.0	29	31500.0	26	24000.0	24
1957	50000.0	35	44700.0	33	38900.0	33	36100.0	29	33400.0	33	32000.0	30	31700.0	30	30700.0	32	27900.0	35	20500.0	34
1958	36700.0	39	33400.0	39	32800.0	38	32500.0	38	30500.0	38	28000.0	38	27500.0	36	27700.0	36	27100.0	36	20800.0	32
1959	55000.0	30	47300.0	32	40100.0	32	33100.0	37	31800.0	37	30900.0	34	30100.0	34	30300.0	33	28900.0	33	21500.0	30
1960	115000.0	12	112000.0	13	107000.0	13	83200.0	16	57400.0	20	43500.0	20	38300.0	21	35700.0	23	34000.0	20	23800.0	25
1961	40400.0	37	35300.0	38	31500.0	39	30700.0	39	30100.0	39	30100.0	35	29600.0	35	28900.0	35	28000.0	34	22800.0	27
1962	104000.0	19	97700.0	19	89500.0	19	77500.0	18	57300.0	21	42400.0	21	40100.0	20	40600.0	19	36900.0	18	24300.0	23
1963	57400.0	29	49600.0	29	43600.0	29	35700.0	30	32300.0	36	31200.0	33	31200.0	32	30800.0	31	29700.0	31	22800.0	28
1964	54600.0	31	43100.0	35	36800.0	35	34200.0	36	33000.0	34	31400.0	32	30600.0	33	30300.0	34	29400.0	32	22700.0	29
1965	66600.0	27	66500.0	26	62800.0	26	54200.0	25	42800.0	26	37300.0	27	35400.0	27	34000.0	26	33400.0	23	25700.0	20
1966	52900.0	33	49400.0	30	41300.0	30	35300.0	31	34700.0	30	34300.0	28	33700.0	28	33500.0	28	32500.0	24	28500.0	13



STATION\_NUMBER 6-6100.00

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

MISSOURI RIVER AT OMAHA, NEBRASKA

YEAR	<sup>1</sup>	<sup>3</sup>	<sup>7</sup>	<sup>15</sup>	<sup>30</sup>	<sup>60</sup>	<sup>90</sup>	<sup>120</sup>	<sup>183</sup>	ANNUAL
1967	62200.0 28	60300.0 27	53000.0 27	49300.0 27	43200.0 25	38500.0 25	37600.0 22	37000.0 22	35600.0 19	28000.0 14



DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

MISSOURI RIVER AT OMAHA, NEBRASKA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	CFS DAYS	
YEAR	NUMBER OF DAYS IN CLASS																																	CFS DAYS			
1929																																				13381450.0	
1930																																					9607620.0
1931																																					5859340.0
1932																																					9962710.0
1933																																					8972260.0
1934																																					5916840.0
1935																																					7393360.0
1936																																					7073560.0
1937																																					7712250.0
1938																																					9592920.0
1939																																					9487050.0
1940																																					5959550.0
1941																																					7536340.0
1942																																					11506640.0
1943																																					13289440.0
1944																																					15197100.0
1945																																					12281000.0
1946																																					9193110.0
1947																																					14492320.0
1948																																					14309420.0
1949																																					13314470.0
1950																																					13807590.0
1951																																					15713030.0
1952																																					17988940.0
1953																																					12171500.0
1954																																					9696200.0
1955																																					8687030.0
1956																																					8797770.0
1957																																					7478060.0
1958																																					7588660.0
1959																																					7854350.0
1960																																					8712570.0
1961																																					8317610.0
1962																																					8859760.0
1963																																					8335400.0
1964																																					8321910.0
1965																																					9392840.0
1966																																					10396400.0



STATION\_NUMBER 6-6100.00

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

MISSOURI RIVER AT OMAHA, NEBRASKA

CLASS 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34

YEAR  
1967

NUMBER OF DAYS IN CLASS  
5 8 10 29 53 6 3 68 168 12 3

CFS\_DAYS  
10222770.0

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	14244	100.0	9	890.00	0	14244	100.0	18	7800.0	1488	13298	93.4	27	68000	338	713	5.0
1	130.00	0	14244	100.0	10	1100.00	0	14244	100.0	19	10000.0	1429	11810	82.9	28	87000	210	375	2.6
2	170.00	0	14244	100.0	11	1400.00	0	14244	100.0	20	13000.0	885	10381	72.9	29	110000	101	165	1.1
3	210.00	0	14244	100.0	12	1800.00	2	14244	100.0	21	16000.0	1269	9496	66.7	30	140000	45	64	.4
4	270.00	0	14244	100.0	13	2300.00	11	14242	100.0	22	21000.0	1257	8227	57.8	31	180000	11	19	.1
5	340.00	0	14244	100.0	14	3000.00	44	14231	99.9	23	26000.0	3398	6970	48.9	32	230000	3	8	.0
6	430.00	0	14244	100.0	15	3800.00	103	14187	99.6	24	33000.0	1634	3572	25.1	33	290000	3	5	.0
7	550.00	0	14244	100.0	16	4800.00	280	14084	98.9	25	42000.0	759	1938	13.6	34	370000	2	2	.0
8	700.00	0	14244	100.0	17	6100.00	506	13804	96.9	26	54000.0	466	1179	8.3					



STATION NUMBER 05610000

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

MISSOURI RIVER AT OMAHA, NEBRASKA

	1	3	7	14	30	60	90	120	183	ANNUAL
930	5720.00 16	5810.00 17	5950.00 15	6570.00 16	7780.00 15	8670.00 14	10000.00 12	11900.00 12	13100.00 10	35900.00 19
931	5750.00 17	6030.00 18	6590.00 19	7550.00 21	8120.00 16	8380.00 12	10700.00 15	12100.00 14	13600.00 11	23200.00 9
932	4940.00 14	5010.00 14	5440.00 14	5580.00 11	6030.00 8	6830.00 6	7520.00 6	8540.00 7	9120.00 6	15200.00 2
933	4000.00 9	4000.00 9	4140.00 6	4320.00 6	5330.00 5	7100.00 7	7870.00 8	8900.00 8	10600.00 8	27700.00 13
934	3500.00 5	3500.00 5	3690.00 4	3960.00 3	4930.00 3	7610.00 8	9570.00 10	10100.00 9	12400.00 9	24700.00 10
935	3600.00 5	3700.00 6	4120.00 5	4150.00 4	5080.00 4	5580.00 3	6900.00 4	7590.00 4	7750.00 1	14400.00 1
936	4200.00 10	4470.00 11	4930.00 11	5090.00 8	5610.00 7	6470.00 5	6920.00 5	7000.00 1	7920.00 2	22500.00 6
937	7130.00 1	2270.00 1	2980.00 1	4190.00 5	5350.00 6	6300.00 4	6840.00 3	7840.00 5	8830.00 5	17500.00 4
938	2500.00 2	2630.00 2	2770.00 2	3270.00 2	4360.00 2	5550.00 2	6540.00 2	7530.00 3	8350.00 3	22800.00 7
939	5300.00 15	5370.00 15	5410.00 15	7100.00 18	9500.00 22	11500.00 21	11100.00 17	12500.00 15	16000.00 13	27800.00 14
940	3000.00 4	3000.00 3	3030.00 3	3170.00 1	3660.00 1	4650.00 1	5780.00 1	7410.00 2	8380.00 4	22000.00 5
941	4200.00 11	4300.00 10	4650.00 9	6180.00 12	6930.00 12	7990.00 11	7710.00 7	8500.00 6	10400.00 7	17300.00 3
942	3670.00 7	3870.00 7	4470.00 8	5010.00 7	6830.00 10	7350.00 9	8570.00 9	10300.00 10	14300.00 12	23000.00 8
943	6500.00 22	6570.00 21	6600.00 20	6960.00 17	7610.00 14	8460.00 13	10200.00 13	12700.00 16	16200.00 14	32500.00 18
944	9600.00 25	9730.00 25	9790.00 25	10300.00 25	11300.00 25	14100.00 24	16300.00 24	18100.00 23	21700.00 21	38600.00 20
945	11100.00 26	11500.00 26	12100.00 26	12200.00 26	13100.00 26	14100.00 25	19000.00 25	20200.00 25	22700.00 22	45200.00 24
946	4500.00 12	4830.00 12	5000.00 12	6250.00 13	9260.00 21	9910.00 18	11000.00 16	13400.00 17	18300.00 17	28800.00 15
947	2500.00 3	3330.00 4	4750.00 10	5340.00 10	6830.00 11	9360.00 16	11300.00 18	13700.00 18	19800.00 18	25400.00 12
948	6200.00 20	6600.00 22	7000.00 21	8160.00 23	11100.00 24	12100.00 22	12700.00 20	15900.00 22	22700.00 23	42700.00 23
949	6180.00 19	6710.00 19	6290.00 18	6480.00 15	7220.00 13	10500.00 19	13300.00 22	18300.00 24	24100.00 25	40100.00 21
950	4860.00 8	3970.00 8	4170.00 7	5100.00 9	6460.00 9	7350.00 10	9640.00 11	12000.00 13	17200.00 16	32100.00 17
951	4740.00 13	4870.00 13	5380.00 13	6370.00 14	8770.00 20	14200.00 26	14800.00 23	15800.00 21	22900.00 24	40400.00 22
952	4730.00 13	7020.00 23	7230.00 23	7460.00 19	8580.00 18	14100.00 23	20200.00 26	23100.00 26	30100.00 26	46100.00 26
953	7700.00 24	7930.00 24	8240.00 24	8350.00 24	9950.00 23	11100.00 20	13200.00 21	15600.00 20	20600.00 20	45500.00 25
954	5300.00 18	5900.00 16	6160.00 17	7930.00 22	8290.00 17	9910.00 17	12100.00 19	14400.00 19	19800.00 19	31800.00 16
955	6370.00 21	6450.00 20	7170.00 22	7470.00 20	8700.00 19	9730.00 15	10700.00 14	11500.00 11	17000.00 15	25000.00 11



STATION NUMBER 06610000

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

MISSOURI RIVER AT OMAHA, NEBRASKA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1929	198000.0 2	187000.0 2	169000.0 2	142000.0 2	114000.0 3	85200.0 4	73400.0 3	72900.0 3	58800.0 5	36700.0 7
1930	84400.0 21	80400.0 20	74900.0 20	66800.0 20	57500.0 19	50200.0 18	47400.0 16	46300.0 17	38300.0 15	26300.0 15
1931	51700.0 25	48300.0 25	46300.0 24	42300.0 24	36000.0 24	27800.0 27	23300.0 27	22700.0 27	20400.0 27	16100.0 27
1932	129000.0 10	129000.0 10	117000.0 10	101000.0 10	87800.0 9	71300.0 11	60400.0 11	55000.0 11	44200.0 13	27200.0 13
1933	95800.0 19	87400.0 19	82700.0 19	75200.0 17	68100.0 15	60000.0 13	49500.0 14	47600.0 14	38300.0 16	24600.0 19
1934	85900.0 20	53100.0 24	40100.0 25	34400.0 27	33700.0 26	29700.0 25	26600.0 26	25600.0 26	22700.0 26	16200.0 26
1935	97100.0 13	87700.0 18	83100.0 18	70900.0 19	65100.0 17	53800.0 17	44300.0 19	40100.0 19	31800.0 20	20300.0 23
1936	84100.0 22	78300.0 21	73000.0 21	57400.0 22	51900.0 21	41100.0 22	37600.0 20	37900.0 20	30500.0 24	19300.0 24
1937	109000.0 14	105000.0 14	94900.0 16	79000.0 16	63500.0 18	55400.0 16	45000.0 18	40700.0 18	33900.0 18	21100.0 21
1938	116000.0 12	115000.0 12	112000.0 11	104000.0 9	82700.0 11	63200.0 12	51400.0 13	47100.0 15	41500.0 14	26300.0 16
1939	140000.0 9	139000.0 9	125000.0 9	91400.0 13	65300.0 15	47600.0 19	46700.0 17	46700.0 16	33000.0 17	26000.0 17
1940	53100.0 25	44000.0 26	38600.0 25	34500.0 26	32800.0 27	28000.0 26	27300.0 25	26100.0 25	24000.0 25	16300.0 25
1941	105000.0 15	103000.0 15	92700.0 17	73500.0 18	57200.0 20	41600.0 21	37100.0 21	33800.0 23	30600.0 23	20600.0 22
1942	120000.0 11	118000.0 11	107000.0 12	96100.0 11	83400.0 10	81200.0 5	68300.0 7	59700.0 9	48700.0 10	31500.0 12
1943	190000.0 4	184000.0 4	164000.0 5	140000.0 3	96500.0 7	73300.0 8	64600.0 8	67600.0 7	56200.0 7	36400.0 9
1944	148000.0 8	148000.0 6	141000.0 5	127000.0 6	122000.0 2	93900.0 2	77500.0 2	75800.0 2	61400.0 3	41500.0 3
1945	105000.0 16	103000.0 16	96200.0 14	84600.0 15	73600.0 14	55700.0 15	48900.0 15	49000.0 13	45200.0 12	33600.0 10
1946	90700.0 24	77900.0 23	67200.0 23	59500.0 21	51000.0 22	42200.0 20	37000.0 22	34100.0 22	31400.0 21	25200.0 18
1947	149000.0 7	148000.0 7	140000.0 7	120000.0 7	99300.0 6	78000.0 6	71200.0 5	71300.0 4	59500.0 4	39700.0 4
1948	104000.0 17	98100.0 17	95700.0 15	90700.0 14	80500.0 12	71400.0 10	62300.0 9	60400.0 8	55700.0 8	39100.0 5
1949	142000.0 5	175000.0 5	166000.0 3	137000.0 4	106000.0 5	73700.0 7	61800.0 10	57800.0 10	49000.0 9	36500.0 8
1950	190000.0 3	185000.0 3	166000.0 4	131000.0 5	112000.0 4	87700.0 3	73300.0 4	69300.0 5	57800.0 6	37800.0 6
1951	149000.0 6	147000.0 8	140000.0 8	115000.0 8	94800.0 8	73100.0 9	69300.0 6	68200.0 6	63200.0 2	43000.0 2
1952	284000.0 1	364000.0 1	328000.0 1	258000.0 1	189000.0 1	126000.0 1	103000.0 1	89000.0 1	69000.0 1	49200.0 1
1953	111000.0 13	106000.0 13	99500.0 13	92300.0 12	79900.0 13	59700.0 14	52200.0 12	51200.0 12	45700.0 11	33300.0 11
1954	82400.0 23	78300.0 22	68000.0 22	52500.0 23	42500.0 23	38100.0 23	36100.0 23	35100.0 21	33400.0 19	26600.0 14
1955	41900.0 27	38800.0 27	35700.0 27	35100.0 25	34800.0 25	31700.0 24	31500.0 24	31200.0 24	30700.0 22	23800.0 20







STATION NUMBER 06610000

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

MISSOURI RIVER AT OMAHA, NEBRASKA

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
1	0.00	0	9861	100.0	9	7600.00	495	9115	92.4	18	31000.0	960	3430	34.8	27	120000	80	119	1.2
2	2270.00	6	9861	100.0	10	8900.00	414	8630	87.5	19	36000.0	630	2470	25.0	28	150000	11	39	.3
3	2673.00	4	9855	99.9	11	10000.00	683	8216	83.3	20	42000.0	468	1840	18.7	29	170000	18	28	.2
4	3073.00	20	9851	99.9	12	12000.00	506	7533	76.4	21	49000.0	352	1372	13.9	30	200000	2	10	.1
5	3500.00	46	9831	99.7	13	14000.00	732	7027	71.3	22	57000.0	299	1020	10.3	31	230000	1	8	.0
6	4100.00	58	9785	99.2	14	17000.00	444	6235	63.3	23	67000.0	225	721	7.3	32	270000	3	7	.0
7	4800.00	117	9727	98.6	15	19000.00	846	5851	59.3	24	79000.0	185	496	5.0	33	320000	2	4	.0
8	5600.00	273	9610	97.5	16	23000.00	551	5305	53.8	25	91000.0	149	311	3.2	34	370000	2	2	.0
9	6500.00	272	9387	95.2	17	26000.00	1024	4454	45.2	26	110000.0	43	162	1.6					

0 31 32 33 34

CFS DAYS  
 10381450.0  
 9907620.0  
 9859340.0  
 9962710.0  
 8977700.0  
 9518440.0  
 9353360.0  
 7073560.0  
 7712250.0  
 9592920.0  
 6487050.0  
 5959550.0  
 7636740.0  
 11508640.0  
 13209440.0  
 15167100.0  
 12281000.0  
 6161170.0  
 14492320.0  
 14302420.0  
 13314470.0  
 13907590.0  
 1571300.0  
 1794440.0  
 12171500.0  
 8654200.0  
 6687030.0

2 1 3 2 2



STATION NUMBER 06610000

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

MISSOURI RIVER AT OMAHA, NEBRASKA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1957	4150.00 4	4590.00 6	5640.00 4	7190.00 4	8040.00 5	9570.00 4	8690.00 3	9060.00 2	13200.00 2	22300.00 5
1958	5300.00 3	5790.00 8	6740.00 7	8210.00 6	8550.00 6	9260.00 7	9350.00 6	10300.00 7	14500.00 5	21200.00 3
1959	4400.00 5	4470.00 4	5290.00 2	6870.00 2	7890.00 2	8750.00 5	9470.00 7	9730.00 5	14200.00 4	20600.00 1
1960	4430.00 6	4590.00 5	5740.00 5	8430.00 9	8570.00 7	9120.00 6	9300.00 5	9460.00 4	13700.00 3	21500.00 4
1961	7500.00 11	8000.00 10	8440.00 10	9210.00 10	9400.00 9	9860.00 9	10100.00 8	12400.00 9	17600.00 8	25600.00 8
1962	7440.00 1	7730.00 1	4550.00 1	6410.00 1	7340.00 1	8090.00 1	8530.00 2	8970.00 1	11700.00 1	20600.00 2
1963	3300.00 3	3640.00 2	5190.00 3	7430.00 5	7800.00 3	8420.00 2	8990.00 4	10200.00 6	16100.00 6	25600.00 9
1964	6000.00 7	6590.00 9	7050.00 8	7110.00 3	7960.00 4	8510.00 3	8520.00 1	9310.00 3	16100.00 7	22900.00 6
1965	3200.00 2	3700.00 3	5900.00 6	8220.00 7	9170.00 8	9390.00 8	10100.00 9	12000.00 8	18100.00 9	23700.00 7
1966	11500.00 15	11800.00 15	13000.00 14	14900.00 15	16200.00 15	17700.00 15	20200.00 14	20600.00 13	24500.00 13	29900.00 11
1967	4900.00 7	5370.00 7	7740.00 9	8290.00 8	10300.00 10	10500.00 10	11700.00 10	13500.00 10	20300.00 10	26500.00 10
1968	9700.00 12	9100.00 12	11000.00 11	13000.00 12	15000.00 13	15600.00 12	16400.00 11	17700.00 11	23200.00 11	29400.00 13
1969	6000.00 10	8030.00 11	11700.00 12	13200.00 13	14100.00 11	15000.00 11	16500.00 12	19300.00 12	24100.00 12	29000.00 12
1970	10000.00 14	11700.00 14	13400.00 15	14100.00 14	15900.00 14	17200.00 14	19300.00 13	22400.00 14	29900.00 14	40400.00 15
1971	9000.00 13	9170.00 13	11400.00 13	12100.00 11	14100.00 12	16000.00 13	21100.00 15	25400.00 15	31300.00 15	35300.00 14



STATION NUMBER 06610000

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

MISSOURI RIVER AT OMAHA, NEBRASKA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1950	40200.0 15	38200.0 14	36300.0 14	34400.0 12	34000.0 10	33500.0 10	32700.0 10	32100.0 10	31500.0 10	24000.0 9
1951	50700.0 12	44700.0 11	38700.0 11	36100.0 9	33400.0 11	32000.0 11	31700.0 11	30700.0 12	27900.0 15	20500.0 16
1952	36700.0 16	33400.0 16	32800.0 15	32500.0 15	30500.0 15	28000.0 16	27500.0 16	27700.0 16	27100.0 16	20800.0 15
1953	55000.0 8	47300.0 10	40100.0 10	33100.0 14	31800.0 14	30900.0 14	30100.0 14	30300.0 13	28900.0 13	21500.0 14
1954	115000.0 1	112000.0 1	107000.0 1	83200.0 1	57400.0 3	43500.0 4	38300.0 5	35700.0 6	34000.0 6	23800.0 10
1955										
1956	40400.0 14	35200.0 15	31500.0 16	30700.0 16	30100.0 16	30100.0 15	29600.0 15	28900.0 15	28000.0 14	22800.0 11
1957	104000.0 2	97700.0 2	89500.0 2	77500.0 3	57300.0 4	42400.0 5	40100.0 4	40600.0 4	36900.0 4	24300.0 8
1958	57400.0 7	49600.0 8	43400.0 8	35700.0 10	32300.0 13	31200.0 13	31200.0 12	30800.0 11	29700.0 11	22800.0 12
1959	54500.0 9	43100.0 12	36800.0 13	34200.0 13	33000.0 12	31400.0 12	30600.0 13	30300.0 14	29400.0 12	22700.0 13
1960	56500.0 5	66500.0 5	62800.0 5	54200.0 5	42800.0 7	37300.0 7	35400.0 7	34000.0 8	33400.0 8	25700.0 7
1961										
1962	52300.0 10	49400.0 9	41300.0 9	35300.0 11	34700.0 9	34300.0 9	33700.0 9	33500.0 9	32500.0 9	28500.0 4
1963	52200.0 6	60300.0 6	53000.0 6	49300.0 7	43200.0 6	38500.0 6	37600.0 6	37000.0 5	35400.0 5	28000.0 6
1964	44200.0 13	40700.0 13	37500.0 12	36700.0 8	35800.0 8	35100.0 8	34800.0 8	34400.0 7	33800.0 7	28500.0 5
1965	93500.0 3	95600.0 3	88500.0 3	79400.0 2	66700.0 1	55700.0 1	51300.0 2	49600.0 2	51100.0 1	37600.0 2
1966	51500.0 11	51400.0 7	50900.0 7	49900.0 6	47300.0 5	44400.0 3	42300.0 3	41200.0 3	38900.0 3	34400.0 3
1967										
1968										
1969										
1970										
1971	79700.0 4	77400.0 4	75300.0 4	67600.0 4	59600.0 2	55200.0 2	53200.0 1	52200.0 1	48900.0 2	40300.0 1



STATION NUMBER 06610000

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

MISSOURI RIVER AT OMAHA, NEBRASKA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34				
	NUMBER OF DAYS IN CLASS																																	CFS_DAYS					
950	1	1	1	1				1	1	1	2	7	49	24	17	9	7	2	2	2	3	2	59	104	66	4											8797770.0		
957						1	3	3	1	1	3	19	46	50	20	4	1	25	3		7	21	58	69	24	4	1	1									7478060.0		
959								1	5	1	2	8	21	56	19	5	6	14	10	6	12	66	103	25	5													7588660.0	
963							4		2	2	7	4	28	39	29	9	19	2	2	4	15	40	89	52	13	3	2		1								7854350.0		
960							4	2	2	1	2	11	35	59	11	11	4		2	1	5	39	91	51	9	11	2	1		2	1	1	1	2	5		8712570.0		
961												1	5	18	44	22	1	3	6	9	4	14	54	134	35	4	1											8317610.0	
962	2		1	1					1		1	38	62	39	12	4	5	2			4	38	44	41	15	23	16	6	4	4	1	3	4		2		8959760.0		
963			1	1	1			1	1	3	8	20	29	13	17	4	11	4	2	2	7	28	139	63	3	4		2	1									8335400.0	
964									1	3	18	13	57	19		1	1	2	2	1	3	46	113	62	21	1	1		1									8321910.0	
965			1	1			1	1	1			9	23	25	16	6	16	7	4	5	3	6	64	123	30	8	3	4	3	2	3							9392840.0	
966															1	3	4	6	44	31	16	3	30	147	66	11	1	2											10396400.0
967								2	3	1	6	6	4	7	4	14	45	10		4	2	1	4	64	156	12	7	4	2	2									10222770.0
968													2	1	2	3	14	18	59	10	3	3	2	73	165	10	1												10436100.0
969									1			1		2	1	6	8	34	26	13	8	1	1	43	32	28	54	36	48	8	5	4	2	3				13729700.0	
970														1		1	5	11	37	16	5	9	11	34	67	59	92	17										12538900.0	
971															2	1	1	4	10	16	19	16	2	10	3	5	12	50	61	127	10	5	6	5				14693600.0	

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	5844	100.0	9	6100.00	13	5788	99.0	18	17000.0	221	4256	72.8	27	47000	200	341	5.8
1	2440.00	2	5844	100.0	10	6800.00	50	5775	98.8	19	19000.0	115	4035	69.0	28	53000	70	141	2.4
2	2700.00	1	5842	100.0	11	7500.00	141	5725	98.0	20	21000.0	109	3920	67.1	29	59000	23	71	1.2
3	3100.00	4	5841	99.9	12	8500.00	367	5584	95.5	21	24000.0	377	3811	65.2	30	66000	16	48	.8
4	3400.00	4	5837	99.9	13	9500.00	380	5217	89.3	22	27000.0	944	3434	58.8	31	74000	13	32	.5
5	3800.00	2	5833	99.8	14	11000.00	179	4837	82.8	23	30000.0	991	2490	42.6	32	83000	7	19	.3
6	4200.00	12	5830	99.8	15	12000.00	85	4559	79.7	24	33000.0	688	1499	25.7	33	93000	5	12	.2
7	4800.00	11	5818	99.6	16	13000.00	159	4574	78.3	25	37000.0	227	811	13.9	34	100000	7	7	.1
8	5400.00	13	5807	99.4	17	15000.00	159	4415	75.5	26	42000.0	241	582	10.0					



STATION NUMBER C6610500

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

INDIAN CREEK AT COUNCIL BLUFFS, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1956	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.00 1	0.01 1	C.13 1	0.44 1
1957	0.00 2	0.00 2	0.00 2	0.00 2	0.00 2	0.07 2	0.10 2	C.11 2	C.14 2	0.75 4
1958	0.00 3	0.00 3	0.00 3	0.00 3	0.02 3	0.08 3	0.18 3	0.17 3	C.46 7	1.23 6
1959	0.00 4	0.00 4	0.04 10	0.10 10	0.10 6	0.17 6	0.23 4	C.32 4	C.40 3	1.20 7
1960	0.10 12	0.17 12	C.15 12	0.20 12	0.38 14	0.45 11	0.47 10	C.49 10	C.50 9	1.84 11
1961	0.00 5	0.00 5	0.00 4	0.02 6	C.19 9	C.49 12	0.84 14	C.94 14	1.29 14	2.22 13
1962	0.20 14	0.20 13	0.21 13	C.29 13	0.38 15	0.82 15	0.93 15	1.08 16	1.51 15	2.00 12
1963	0.20 15	0.27 16	0.40 16	0.45 16	C.51 16	0.98 16	1.02 16	1.03 15	1.18 12	2.25 14
1964	0.00 6	0.00 6	0.00 5	0.05 8	0.13 7	C.20 7	0.29 6	C.36 7	C.45 5	0.71 3
1965	0.20 16	0.20 14	0.24 15	0.34 15	0.36 12	0.41 9	0.50 11	0.65 11	C.89 12	3.32 16
1966	0.00 7	0.00 7	0.00 6	0.04 7	0.24 11	0.57 14	0.70 13	C.87 13	1.54 16	2.96 15
1967	0.10 13	0.20 15	0.21 14	0.31 14	0.38 13	C.42 10	0.43 9	0.45 9	C.50 10	1.11 6
1968	0.00 8	0.00 8	0.02 9	0.07 9	0.18 8	0.24 8	0.30 7	C.35 5	C.45 6	1.28 9
1969	0.03 11	0.06 11	0.11 11	C.16 11	0.20 10	0.51 13	0.60 12	0.68 12	C.81 11	1.34 10
1970	0.00 9	0.00 9	0.00 7	0.00 4	0.03 4	0.09 4	0.25 5	C.37 8	C.42 4	0.98 5
1971	0.00 10	0.00 10	0.00 8	C.02 5	0.05 5	0.17 5	0.31 8	0.35 6	C.47 8	0.68 2



STATION NUMBER C6610500

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

INDIAN CREEK AT COUNCIL BLUFFS, IOWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1955	100.0 3	40.3 5	18.4 6	16.9 2	8.7 3	4.7 4	3.2 8	2.6 9	2.0 9	1.2 12
1956	35.0 13	18.5 12	13.0 10	6.9 12	4.3 13	3.1 13	2.4 15	1.8 15	1.3 15	0.7 16
1957	97.0 4	42.1 3	20.2 4	12.1 4	7.8 5	4.2 8	3.0 9	2.8 8	2.0 10	1.1 13
1958	64.0 6	41.2 4	18.7 5	11.6 7	7.8 6	4.3 7	3.0 10	2.3 13	1.9 12	1.1 14
1959	104.0 2	44.7 2	20.3 3	12.1 5	8.4 4	4.7 5	4.0 3	4.2 2	3.3 2	1.8 4
1960	63.0 7	23.5 11	10.5 13	7.8 10	5.0 10	4.0 9	3.5 4	3.3 4	3.3 3	1.9 3
1961	29.0 15	15.4 15	8.6 14	6.4 14	4.0 14	2.9 15	2.6 13	2.5 10	2.0 11	1.5 8
1962	35.0 14	16.7 14	10.7 12	7.3 11	5.0 11	3.4 11	3.3 7	2.9 7	2.7 4	2.1 2
1963	37.0 12	26.7 10	16.5 7	11.9 6	7.2 7	5.1 2	4.1 2	3.4 3	2.6 5	1.7 5
1964	47.0 10	31.3 7	15.5 9	10.2 8	6.8 8	4.7 6	3.5 5	3.0 5	2.3 6	1.4 9
1965	280.0 1	130.0 1	60.6 1	35.0 1	21.3 1	12.3 1	9.0 1	7.9 1	5.9 1	4.4 1
1966	66.0 5	27.0 9	12.4 11	6.5 13	4.4 12	3.3 12	2.6 14	2.2 14	1.8 13	1.5 6
1967	61.0 9	28.9 8	24.1 2	15.2 3	9.0 2	5.0 3	3.5 6	2.9 6	2.1 7	1.3 10
1968	44.0 11	18.2 13	8.4 15	4.6 16	3.4 16	2.4 16	1.9 16	1.6 16	1.3 16	0.9 15
1969	77.0 16	12.1 16	7.7 16	5.4 15	3.9 15	3.0 14	2.8 12	2.4 12	2.1 8	1.5 7
1970	17.4 17	4.9 17	2.2 17	1.2 17	0.9 17	0.8 17	0.7 17	0.6 17	0.6 17	0.5 17
1971	62.0 8	23.0 6	15.7 8	9.5 9	5.6 9	3.6 10	2.9 11	2.5 11	1.8 14	1.2 11



STATION NUMBER C6610500

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

INDIAN CREEK AT COUNCIL BLUFFS, IOWA

CLASS	NUMBER OF DAYS IN CLASS																																		CFS_DAYS			
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33		34		
1955	96																																					446.8
1956	228																																					260.4
1957	148																																					390.8
1958	36																																					411.7
1959	7																																					668.0
1960																																						709.9
1961	11																																					548.0
1962																																						783.8
1963																																						635.9
1964	14																																					510.7
1965																																						1607.1
1966	10																																					561.4
1967																																						482.0
1968	5																																					314.4
1969																																						530.8
1970	46	12	13	2	5	13	8	31	14	27	19	31	11	15	12	7	3																				172.8	
1971	8																																					435.1

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	609	6209	100.0	9	0.30	439	4715	75.9	18	3.8	91	334	5.4	27	55	11	18	.2
1	0.01	12	5600	90.2	10	0.40	513	4276	68.9	19	5.1	51	243	3.9	28	74	1	7	.1
2	0.02	13	5588	90.0	11	0.50	537	3763	60.6	20	6.9	53	192	3.1	29	59	3	6	.0
3	0.03	6	5575	89.8	12	0.60	1174	3226	52.0	21	9.2	26	139	2.2	30	130	1	3	.0
4	0.04	9	5569	89.7	13	0.90	563	2052	33.0	22	12.0	32	113	1.8	31	160	2	2	.0
5	0.05	28	5560	89.5	14	1.20	489	1489	24.0	23	17.0	22	81	1.3	32				
6	0.08	15	5532	89.1	15	1.60	344	1000	16.1	24	23.0	24	59	1.0	33				
7	0.10	362	5517	88.9	16	2.10	194	656	10.6	25	30.0	13	35	0.6	34				
8	0.20	440	5155	83.0	17	2.80	128	462	7.4	26	41.0	4	22	0.4					



STATION NUMBER 06610520

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

MOSQUITO CREEK NEAR EARLING, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1967	0.56 5	0.63 5	0.75 5	0.95 5	1.09 5	1.11 5	1.12 2	1.30 3	1.62 3	5.13 1
1968	0.21 3	0.21 3	0.21 2	0.21 2	0.28 2	0.90 2	1.13 3	1.20 2	1.20 2	7.78 2
1969	0.09 2	0.18 2	0.26 3	0.41 3	0.85 4	1.01 4	1.35 4	1.61 4	2.42 5	14.30 5
1970	0.25 4	0.31 4	0.44 4	0.67 4	0.68 3	0.92 3	1.41 5	1.77 5	2.35 4	8.35 3
1971	0.00 1	0.00 1	0.02 1	0.02 1	0.03 1	0.22 1	0.68 1	1.11 1	1.08 1	11.40 4



STATION NUMBER 06610520

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

MOSQUITO CREEK NEAR EARLING, IOWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1966	224.0 6	98.7 6	47.1 6	29.8 6	26.7 5	20.7 4	17.4 4	14.8 4	12.8 4	10.6 3
1967	585.0 3	275.0 3	170.0 3	124.0 2	71.1 3	38.7 3	26.7 3	20.7 3	14.4 3	8.1 4
1968	765.0 4	272.0 4	128.0 4	62.0 4	32.1 4	16.8 5	12.2 5	9.5 5	7.0 5	4.1 5
1969	806.0 2	641.0 1	395.0 1	228.0 1	120.0 1	65.4 1	47.3 1	44.4 1	32.5 1	17.7 1
1970	302.0 5	140.0 5	64.7 5	33.1 5	19.0 6	12.5 6	10.0 6	8.5 6	6.4 6	4.1 6
1971	907.0 1	500.0 2	239.0 2	116.0 3	100.0 2	51.7 2	35.2 2	27.6 2	21.8 2	11.4 2



STATION NUMBER 06610520

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

MOSQUITO CREEK NEAR EARLING, IOWA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	CFS_DAYS
YEAR	NUMBER OF DAYS IN CLASS																																	CFS_DAYS		
1966											3	5	17	16	37	68	76	57	43	19	10	9	3					1	1						3862.5	
1967										9	13	91	56	62	24	43	21	9	3	5	1	3	2	3	2	3	3					1		1	2951.4	
1968					4	26	6	9	29	35	67	81	62	11	17	6	4	1	2	1		1	1			1							2		1506.7	
1969				1	1	1	2	1	5	27	27	23	39	20	25	21	39	65	30	4	2	5	3	3	1	2			2	3	1	2			6471.5	
1970	7				6	10	3	5	4	15	26	24	19	59	58	69	36	14	7			1	1	1									1		1478.9	
1971	3	16	4	9	14	23	10	16	19	21	17	37	33	43	32	25	10	10	6	3	1				1	1	1	2	2	4		1		1	4153.6	

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	17	2191	100.0	9	0.50	79	1991	90.9	18	9.0	139	336	15.3	27	160	3	23	1.0
1	0.02	16	2181	99.5	10	0.70	118	1912	87.3	19	12.0	83	197	9.0	28	220	8	20	.9
2	0.03	4	2165	98.9	11	0.90	249	1794	81.9	20	17.0	26	114	5.2	29	310	6	12	.5
3	0.05	9	2161	98.6	12	1.30	216	1545	70.5	21	24.0	15	88	4.0	30	420	2	6	.2
4	0.07	21	2152	98.2	13	1.80	282	1325	60.7	22	32.0	18	73	3.3	31	560	3	4	.1
5	0.10	39	2131	97.7	14	2.50	181	1047	47.8	23	45.0	12	55	2.5	32	810	1	1	.0
6	0.20	40	2053	95.5	15	3.40	216	866	39.5	24	62.0	7	43	2.0	33				
7	0.30	29	2053	93.7	16	4.70	162	650	29.7	25	85.0	6	36	1.6	34				
8	0.40	33	2024	92.4	17	6.50	152	488	22.3	26	120.0	7	30	1.4					



STATION NUMBER 06806000

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

WALBONSTE CREEK NEAR PARTLETT, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1948	0.60 11	0.73 12	0.99 12	1.14 11	1.37 10	1.59 8	1.68 6	1.99 6	2.44 4	20.10 21
1949	0.60 12	0.60 10	0.60 9	0.64 8	1.34 9	1.77 9	2.79 10	3.49 13	5.95 16	10.10 9
1950	0.50 7	0.53 8	0.57 8	0.71 9	0.74 6	1.07 4	1.46 4	1.84 5	2.26 7	11.70 14
1951	1.00 15	1.00 14	1.00 13	1.14 12	2.60 16	2.86 14	3.41 14	3.77 15	5.88 15	28.90 22
1952	4.60 27	4.60 22	4.81 22	5.54 22	6.23 22	6.99 21	6.94 21	8.21 21	9.59 21	14.30 19
1953	2.70 20	3.47 20	3.54 20	3.84 19	4.19 19	4.39 18	5.18 19	5.62 17	6.25 17	10.00 8
1954	0.50 8	0.50 7	0.50 6	0.51 6	1.31 8	1.46 7	1.79 7	2.34 7	2.46 5	5.25 3
1955	0.00 1	0.03 5	0.06 5	0.24 5	0.67 5	2.15 10	2.91 12	2.97 10	3.53 10	11.50 12
1956	0.00 2	0.00 1	0.00 1	0.00 1	0.00 1	0.04 1	0.77 2	0.84 2	1.84 2	3.71 1
1957	0.00 3	0.00 2	0.00 2	0.00 2	0.00 2	0.20 2	0.30 1	0.41 1	0.61 1	7.01 6
1958	0.00 4	0.00 3	0.00 3	0.00 4	0.16 3	1.17 5	1.50 5	1.54 3	2.20 3	7.48 7
1959	0.00 5	0.00 4	0.00 4	0.02 3	0.38 4	0.97 3	1.14 3	1.58 4	4.83 14	10.70 10
1960	0.60 13	0.63 11	0.76 11	1.39 14	2.50 15	3.00 15	3.55 16	4.06 16	4.35 12	11.30 11
1961	0.50 9	0.57 9	0.70 10	0.85 10	1.84 12	3.09 16	4.31 17	5.67 19	5.36 20	14.10 18
1962	1.60 17	1.67 17	1.93 17	4.64 21	5.88 21	7.36 22	8.22 22	8.64 22	9.94 22	12.80 15
1963	3.40 21	3.60 21	3.80 21	4.00 20	4.76 20	5.31 20	6.22 20	6.64 20	7.02 19	12.80 16
1964	0.50 10	0.80 13	1.04 14	1.26 13	1.88 13	2.79 13	3.21 13	3.19 12	3.83 11	5.85 4
1965	1.80 18	1.93 18	2.06 19	2.16 17	2.72 17	3.34 17	3.52 15	3.60 14	4.72 13	13.80 17
1966	2.00 19	2.00 19	2.03 18	2.41 18	3.44 18	4.49 19	5.08 18	5.64 18	6.36 18	15.00 20
1967	1.20 16	1.43 16	1.66 16	1.70 16	1.81 11	2.35 11	2.43 8	2.52 8	2.77 6	4.57 2
1968	0.90 14	1.03 15	1.40 15	1.50 15	1.99 14	2.57 12	2.84 11	3.08 11	3.27 8	11.60 13
1969	0.26 6	0.35 6	0.51 7	0.60 7	1.08 7	1.46 6	2.54 9	2.76 9	3.40 5	6.66 5



## STATION NUMBER 068C60C0

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## WALBONSIE CREEK NEAR PARTLETT, IOWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1947	1240.0 2	506.0 2	260.0 2	230.0 2	152.0 1	88.0 2	60.8 2	49.0 2	34.0 2	19.1 2
1948	275.0 19	143.0 15	75.1 16	38.5 18	27.5 17	16.1 19	12.0 19	9.6 19	9.5 19	6.5 20
1949	987.0 3	339.0 5	240.0 3	132.0 3	78.3 4	43.8 5	30.9 5	31.6 3	27.2 3	16.0 4
1950	2167.0 1	1060.0 1	572.0 1	270.0 1	144.0 2	111.0 1	85.1 1	69.2 1	49.6 1	26.5 1
1951	269.0 18	124.0 18	60.4 18	46.4 14	33.4 14	26.0 12	22.8 12	22.5 7	21.3 5	13.8 5
1952	285.7 17	103.0 20	60.1 19	36.3 20	24.4 20	19.2 17	17.0 17	15.9 17	15.5 13	12.1 9
1953	156.0 21	60.7 21	31.1 21	17.5 21	14.5 21	10.8 21	9.6 21	9.1 21	8.8 20	6.6 19
1954	769.0 6	449.0 3	218.0 5	104.0 5	54.2 8	28.8 11	26.6 8	22.0 9	15.5 11	9.9 14
1955	431.0 12	179.0 13	83.8 13	44.5 16	25.3 19	15.2 20	11.3 20	9.3 20	7.3 21	6.3 21
1956	577.0 10	258.0 10	155.0 6	79.8 9	53.0 9	35.3 8	24.6 9	18.8 13	13.6 16	7.4 17
1957	711.0 15	225.0 11	142.0 9	84.3 8	52.0 10	31.5 9	22.0 13	17.5 15	12.5 17	6.7 18
1958	957.0 4	375.0 6	149.0 8	103.0 6	62.7 7	38.7 7	29.4 6	22.2 8	15.8 12	9.3 15
1959	517.0 11	183.0 12	85.7 12	60.4 13	44.0 11	24.5 14	21.2 14	20.0 11	16.9 10	10.8 11
1960	269.0 13	176.0 14	81.6 14	74.0 11	41.6 12	31.1 10	23.7 10	20.3 10	20.1 6	12.3 8
1961	379.0 14	130.0 17	66.0 17	37.7 19	26.8 18	20.3 16	17.4 16	18.7 14	15.4 14	12.6 7
1962	677.0 9	269.0 9	124.0 11	66.4 12	37.2 13	25.9 13	22.8 11	19.4 12	17.5 9	12.9 6
1963	307.0 16	136.0 16	60.1 20	44.5 17	29.0 16	18.6 18	15.5 18	13.5 18	11.1 18	9.2 16
1964	659.0 8	280.0 7	154.0 7	88.7 7	67.3 6	39.2 6	29.4 7	23.7 6	17.8 8	10.8 12
1965	757.0 7	280.0 8	126.0 10	75.0 10	68.2 5	48.4 4	35.2 4	29.7 4	27.0 4	16.8 3
1966	69.0 23	38.4 22	25.1 22	13.3 22	9.5 22	8.3 22	7.5 22	7.6 22	6.7 22	6.2 22
1967	824.0 5	393.0 4	229.0 4	127.0 4	96.2 3	51.4 3	35.6 3	28.0 5	19.8 7	11.3 10
1968	78.0 22	29.6 23	14.2 23	8.1 23	5.9 23	5.6 23	5.2 23	4.8 23	4.2 23	3.6 23
1969	175.0 20	127.0 19	79.3 15	45.9 15	30.2 15	23.0 15	20.2 15	17.1 16	14.9 15	10.1 13







## STATION\_NUMBER 6-8070.00

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## MISSOURI RIVER AT NEBRASKA CITY, NEBRASKA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1931	5600.0 35	9900.0 35	10200.0 33	11000.0 32	12900.0 33	14200.0 28	17800.0 32	19700.0 29	21400.0 20	32400.0 21
1932	7800.0 28	8300.0 29	8570.0 26	8760.0 16	10500.0 15	11600.0 12	12600.0 12	13000.0 10	12900.0 6	20800.0 3
1933	2230.0 2	3500.0 2	3840.0 1	4550.0 2	7040.0 6	10700.0 8	11400.0 8	12900.0 9	15000.0 8	33800.0 24
1934	4000.0 7	4500.0 7	4810.0 5	5220.0 5	7560.0 7	12500.0 17	14000.0 19	14600.0 16	17100.0 11	30200.0 18
1935	3910.0 6	4260.0 6	4850.0 6	6440.0 8	7000.0 5	7540.0 3	9380.0 4	10100.0 4	10300.0 1	17600.0 1
1936	5070.0 13	5120.0 11	5310.0 9	5810.0 6	6430.0 2	7600.0 4	8670.0 2	9460.0 1	10600.0 2	29300.0 15
1937	3600.0 3	3700.0 3	4030.0 3	4820.0 3	6520.0 3	7430.0 2	9120.0 3	9880.0 2	11000.0 4	20800.0 4
1938	3900.0 5	3900.0 5	4170.0 4	4940.0 4	6970.0 4	8670.0 5	9890.0 5	10800.0 5	11300.0 5	26800.0 9
1939	6600.0 23	6930.0 23	7770.0 22	9500.0 21	12600.0 30	14300.0 29	14700.0 24	16100.0 19	20300.0 18	32600.0 22
1940	3700.0 4	3700.0 4	3840.0 2	4240.0 1	4980.0 1	6290.0 1	8560.0 1	9910.0 3	10600.0 3	25000.0 5
1941	4330.0 9	4590.0 9	5300.0 8	7150.0 11	8820.0 8	10200.0 6	10100.0 6	11500.0 6	13000.0 7	20500.0 2
1942	5800.0 18	5930.0 18	6090.0 14	6440.0 7	9000.0 9	11600.0 13	12400.0 11	14300.0 14	18200.0 12	26400.0 7
1943	9200.0 34	9300.0 34	9440.0 31	9880.0 25	10900.0 18	11800.0 14	15300.0 25	17600.0 25	20700.0 19	38300.0 29
1944	8000.0 29	8270.0 28	8490.0 25	8840.0 18	10700.0 17	16600.0 33	19300.0 33	22200.0 34	25200.0 29	43400.0 32
1945	13000.0 38	13000.0 38	13000.0 38	13500.0 37	14800.0 36	17200.0 35	21000.0 36	23100.0 36	26400.0 32	53300.0 37
1946	5000.0 12	5230.0 13	5770.0 12	6470.0 9	10400.0 14	12700.0 20	14200.0 20	17400.0 24	21600.0 21	35500.0 26
1947	1900.0 1	2930.0 1	5190.0 7	7230.0 12	9190.0 11	13200.0 22	16300.0 27	19200.0 27	25800.0 30	30700.0 19
1948	7120.0 25	7290.0 24	8170.0 24	10000.0 26	12100.0 28	15400.0 31	16400.0 28	21800.0 32	27000.0 33	51100.0 35
1949	8000.0 30	8170.0 26	9070.0 29	10200.0 27	11400.0 20	14100.0 27	17700.0 31	22700.0 35	28200.0 36	46600.0 33
1950	5200.0 14	5200.0 12	5660.0 11	7080.0 10	9000.0 10	11100.0 10	13700.0 17	17300.0 22	22700.0 24	39400.0 31
1951	5800.0 19	6200.0 19	7310.0 21	8810.0 17	11700.0 23	17000.0 34	17200.0 30	20100.0 30	27000.0 34	47300.0 34
1952	7500.0 27	8230.0 27	8770.0 27	9810.0 23	12400.0 29	19700.0 37	27100.0 38	31800.0 38	39000.0 38	57100.0 38
1953	11700.0 37	11300.0 37	12400.0 37	13200.0 36	15100.0 37	16500.0 32	19300.0 34	21800.0 31	25900.0 31	53100.0 36
1954	6600.0 24	6730.0 21	7210.0 19	9170.0 19	11700.0 24	13800.0 26	16700.0 29	19600.0 28	24300.0 28	37200.0 28
1955	8250.0 31	8580.0 30	9360.0 30	9840.0 24	11700.0 25	13400.0 25	14400.0 23	15400.0 18	21600.0 22	30000.0 16
1956	4900.0 10	4970.0 10	5590.0 10	8140.0 14	9820.0 13	11000.0 9	11600.0 9	12800.0 8	19700.0 15	26600.0 8
1957	4320.0 8	4510.0 8	6110.0 15	8280.0 15	9360.0 12	10200.0 7	10900.0 7	11900.0 7	16100.0 9	25100.0 6
1958	7240.0 26	7380.0 25	8150.0 23	10200.0 28	12000.0 27	12400.0 16	13000.0 13	15000.0 17	20000.0 16	27400.0 12
1959	6000.0 20	6570.0 20	7200.0 18	9190.0 20	11300.0 19	12300.0 15	13200.0 14	14500.0 15	19400.0 14	27500.0 13
1960	5520.0 17	5870.0 16	6930.0 16	10200.0 29	11500.0 21	13000.0 21	13700.0 18	14100.0 13	18600.0 13	28200.0 14
1961	6090.0 21	6780.0 22	9070.0 28	10800.0 31	12900.0 31	13300.0 23	14200.0 21	17200.0 21	22800.0 25	34600.0 25
1962	5500.0 16	5830.0 15	7240.0 20	10400.0 30	11700.0 26	12600.0 18	13200.0 15	13600.0 12	17000.0 10	26900.0 10
1963	5200.0 15	5930.0 17	7060.0 17	9530.0 22	11500.0 22	12600.0 19	13300.0 16	16400.0 20	22000.0 23	33500.0 23
1964	5000.0 11	5330.0 14	5930.0 13	7960.0 13	10600.0 16	11400.0 11	12400.0 10	13500.0 11	20300.0 17	27300.0 11
1965	6500.0 22	8670.0 31	10900.0 34	12200.0 35	12900.0 32	13300.0 24	14300.0 22	18500.0 26	23600.0 26	30200.0 17
1966	10000.0 36	10000.0 36	11200.0 36	14600.0 38	18500.0 38	22200.0 38	26000.0 37	27700.0 37	32600.0 37	38400.0 30
1967	8500.0 32	9000.0 33	11000.0 35	11200.0 33	13500.0 34	14400.0 30	15300.0 26	17400.0 23	24000.0 27	30800.0 20
1968	8500.0 33	8670.0 32	9570.0 32	11800.0 34	14600.0 35	18100.0 36	20200.0 35	21900.0 33	27400.0 35	36400.0 27



STATION\_NUMBER 6-8070.00

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

MISSOURI RIVER AT NEBRASKA CITY, NEBRASKA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
	93000.0 27	92300.0 23	85300.0 22	75400.0 22	65400.0 22	60500.0 18	59700.0 13	58600.0 13	49800.0 13	34900.0 13
1930	93000.0 27	92300.0 23	85300.0 22	75400.0 22	65400.0 22	60500.0 18	59700.0 13	58600.0 13	49800.0 13	34900.0 13
1931	56200.0 37	52100.0 36	50600.0 32	45100.0 33	39000.0 35	31500.0 39	29100.0 39	28600.0 39	27000.0 38	22200.0 37
1932	133000.0 12	138000.0 12	127000.0 10	109000.0 11	96400.0 8	80500.0 9	68400.0 9	62800.0 10	53600.0 11	34200.0 15
1933	105000.0 24	91900.0 24	85300.0 23	76600.0 21	71400.0 19	65400.0 16	56400.0 16	54800.0 14	44700.0 18	30200.0 22
1934	73000.0 31	62200.0 33	45800.0 37	37700.0 37	36600.0 37	32400.0 38	29500.0 38	29400.0 38	26800.0 39	20000.0 38
1935	106000.0 21	104000.0 19	102000.0 17	87600.0 18	79300.0 17	69100.0 13	57500.0 15	51300.0 18	40900.0 21	26400.0 32
1936	103000.0 19	95800.0 22	86000.0 21	70600.0 24	67100.0 21	51300.0 22	46000.0 23	44800.0 23	35800.0 28	23300.0 36
1937	109000.0 18	108000.0 17	100000.0 19	86200.0 19	69800.0 20	60500.0 19	49400.0 21	45400.0 22	39400.0 22	25000.0 34
1938	125000.0 14	123000.0 14	121000.0 14	112000.0 9	88900.0 11	68400.0 14	56300.0 17	52000.0 17	46700.0 16	31000.0 21
1939	143000.0 11	144000.0 10	131000.0 9	97400.0 15	71800.0 18	52900.0 21	51200.0 20	51000.0 19	42400.0 20	29700.0 23
1940	61100.0 34	57000.0 34	54000.0 31	45500.0 32	41000.0 32	33400.0 37	32100.0 37	30200.0 37	27600.0 37	19400.0 39
1941	105000.0 22	103000.0 20	93200.0 20	76700.0 20	60700.0 23	45400.0 25	41300.0 26	37500.0 31	33600.0 35	23700.0 35
1942	133000.0 13	130000.0 13	124000.0 12	112000.0 10	94800.0 9	93500.0 6	78300.0 7	68000.0 8	55600.0 10	37000.0 11
1943	179000.0 5	173000.0 6	159000.0 7	138000.0 5	102000.0 7	83900.0 8	71900.0 8	75100.0 6	62200.0 8	41500.0 8
1944	207000.0 2	203000.0 2	182000.0 2	156000.0 2	142000.0 2	110000.0 2	96400.0 2	91700.0 2	73500.0 3	49400.0 3
1945	124000.0 15	119000.0 15	105000.0 16	96300.0 16	82200.0 15	70400.0 11	61600.0 12	61400.0 11	56300.0 9	40600.0 9
1946	55400.0 26	90600.0 26	79700.0 25	70400.0 25	58900.0 24	47800.0 24	41700.0 25	39200.0 25	35800.0 29	29200.0 24
1947	171000.0 7	170000.0 7	165000.0 4	155000.0 3	129000.0 3	101000.0 3	87100.0 3	85800.0 3	70100.0 4	48100.0 4
1948	115000.0 17	108000.0 18	101000.0 18	94100.0 17	84100.0 13	75800.0 10	67700.0 10	65400.0 9	62300.0 6	44800.0 7
1949	180000.0 4	178000.0 3	168000.0 3	145000.0 4	124000.0 4	94500.0 5	79200.0 6	74700.0 7	62200.0 7	45100.0 5
1950	182000.0 3	175000.0 4	164000.0 5	134000.0 6	120000.0 5	98600.0 4	83100.0 5	79200.0 5	66500.0 5	44800.0 6
1951	159000.0 9	150000.0 8	145000.0 8	123000.0 8	110000.0 6	87600.0 7	86500.0 4	84600.0 4	77100.0 2	52200.0 2
1952	350000.0 1	357000.0 1	322000.0 1	260000.0 1	200000.0 1	139000.0 1	115000.0 1	101000.0 1	80800.0 1	58200.0 1
1953	113000.0 16	115000.0 16	107000.0 15	100000.0 14	89400.0 10	69900.0 12	61600.0 11	60500.0 12	52500.0 12	39400.0 10
1954	105000.0 23	99900.0 21	83800.0 24	64700.0 26	53200.0 26	45300.0 26	42300.0 24	41000.0 24	39000.0 23	31600.0 20
1955	59000.0 36	51000.0 37	46400.0 36	37200.0 38	36200.0 38	35300.0 35	34200.0 36	33800.0 36	33400.0 36	27400.0 30
1956	49100.0 39	47100.0 39	43200.0 38	39400.0 36	36800.0 36	35700.0 34	34800.0 34	34600.0 34	34600.0 32	27100.0 31
1957	105000.0 20	91500.0 25	70400.0 27	57600.0 27	48700.0 27	42200.0 27	39800.0 27	38600.0 26	34700.0 31	25400.0 33
1958	72000.0 33	65800.0 31	49700.0 33	48100.0 31	44900.0 30	39800.0 31	37800.0 32	36800.0 32	35600.0 30	27800.0 29
1959	76800.0 32	71900.0 30	62100.0 29	50900.0 29	47400.0 28	41700.0 28	39200.0 29	38500.0 27	36600.0 27	28000.0 28
1960	176000.0 6	173000.0 5	164000.0 6	131000.0 7	88200.0 12	67100.0 15	59200.0 14	53400.0 16	47400.0 15	33000.0 17
1961	51300.0 38	48000.0 38	40200.0 39	37100.0 39	36000.0 39	34900.0 36	34500.0 35	34200.0 35	33900.0 34	28200.0 26
1962	149000.0 10	141000.0 11	125000.0 11	106000.0 13	79700.0 16	56700.0 20	55400.0 18	54200.0 15	48400.0 14	32700.0 18
1963	79200.0 30	65600.0 32	48700.0 34	40800.0 35	39400.0 34	36400.0 33	35600.0 33	35100.0 33	34300.0 33	28200.0 27
1964	102000.0 25	87300.0 27	67400.0 28	55000.0 28	47100.0 29	41600.0 29	39500.0 28	38300.0 28	36800.0 26	28600.0 25
1965	85200.0 28	80800.0 28	78500.0 26	71000.0 23	54700.0 25	50000.0 23	48100.0 22	46500.0 21	44200.0 19	33900.0 16
1966	85200.0 29	73600.0 29	61100.0 30	48900.0 30	44700.0 31	41600.0 30	38700.0 30	38100.0 29	37600.0 24	35000.0 12
1967	165000.0 8	149000.0 9	122000.0 13	107000.0 12	82700.0 14	62100.0 17	54500.0 19	50300.0 20	45600.0 17	34800.0 14



STATION\_NUMBER 6-8070.00

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

MISSOURI RIVER AT NEBRASKA CITY, NEBRASKA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1968	59400.0 35	54100.0 35	47000.0 35	41900.0 34	39600.0 33	38600.0 32	38300.0 31	38100.0 30	37400.0 25	32400.0 19







STATION\_NUMBER 6-8070.00

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

MISSOURI RIVER AT NEBRASKA CITY, NEBRASKA

CLASS 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34

YEAR  
1968

NUMBER OF DAYS IN CLASS

2 5 19 77 186 75 2

CFS DAYS  
11853400.0

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	14245	100.0	9	37.00	0	14245	100.0	18	990.0	0	14245	100.0	27	27000	4546	8220	57.7
1	2.00	0	14245	100.0	10	53.00	0	14245	100.0	19	1400.0	1	14245	100.0	28	38000	2013	3674	25.7
2	2.80	0	14245	100.0	11	76.00	0	14245	100.0	20	2100.0	0	14244	100.0	29	55000	974	1661	11.6
3	4.10	0	14245	100.0	12	110.00	0	14245	100.0	21	3000.0	28	14244	100.0	30	80000	496	687	4.8
4	5.90	0	14245	100.0	13	160.00	0	14245	100.0	22	4300.0	145	14216	99.8	31	120000	159	191	1.3
5	8.50	0	14245	100.0	14	230.00	0	14245	100.0	23	6200.0	395	14071	98.8	32	170000	24	32	.2
6	12.00	0	14245	100.0	15	330.00	0	14245	100.0	24	8900.0	1378	13676	96.0	33	240000	7	8	.0
7	18.00	0	14245	100.0	16	480.00	0	14245	100.0	25	13000.0	1932	12298	86.3	34	350000	1	1	
8	25.00	0	14245	100.0	17	690.00	0	14245	100.0	26	18000.0	2146	10366	72.8					



STATION NUMBER 06807000

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

MISSOURI RIVER AT NEBRASKA CITY, NEBRASKA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1931	9500.00 23	9700.00 22	10200.00 23	11000.00 23	12900.00 23	14200.00 18	17800.00 21	19700.00 18	21400.00 13	32400.00 12
1932	7400.00 18	8300.00 20	9570.00 18	8760.00 13	10500.00 13	11600.00 9	12600.00 9	13000.00 8	12900.00 6	20800.00 3
1933	3230.00 2	3500.00 2	3340.00 1	4550.00 2	7040.00 6	10700.00 7	11400.00 7	12900.00 7	15000.00 8	33800.00 14
1934	4700.00 7	4500.00 7	4910.00 5	5220.00 5	7550.00 7	12500.00 12	14000.00 11	14600.00 10	17100.00 9	30200.00 10
1935	3900.00 6	4250.00 6	4950.00 6	6440.00 8	7000.00 5	7540.00 3	9380.00 4	10100.00 4	10300.00 1	17600.00 1
1936	6070.00 10	5100.00 9	5210.00 9	5810.00 6	6430.00 2	7600.00 4	8570.00 2	9460.00 1	10600.00 2	29300.00 8
1937	4600.00 3	3700.00 3	4030.00 3	4820.00 3	6620.00 3	7430.00 2	9120.00 3	9640.00 2	11000.00 4	20800.00 4
1938	3400.00 5	3900.00 5	4170.00 4	4740.00 4	5970.00 4	8570.00 5	9890.00 5	10900.00 5	11300.00 5	26900.00 7
1939	6500.00 15	6930.00 15	7770.00 15	9500.00 17	12600.00 22	14300.00 19	14700.00 14	16100.00 12	20300.00 11	32600.00 13
1940	3700.00 4	3700.00 4	3940.00 2	4240.00 1	4930.00 1	6290.00 1	8560.00 1	9910.00 3	10500.00 3	25000.00 5
1941	4380.00 8	4690.00 8	5300.00 8	7150.00 11	8920.00 8	10200.00 6	10100.00 6	11500.00 6	13000.00 7	20500.00 2
1942	5300.00 13	5930.00 12	6090.00 12	6440.00 7	9000.00 9	11500.00 10	12400.00 8	14300.00 9	18200.00 10	26400.00 6
1943	3700.00 22	9300.00 22	9440.00 22	9890.00 20	10900.00 15	11800.00 11	15300.00 15	17600.00 15	20700.00 12	38300.00 17
1944	4000.00 19	8270.00 19	8400.00 17	3840.00 15	10700.00 14	16600.00 22	19300.00 22	22200.00 22	25200.00 18	43400.00 19
1945	13000.00 25	13700.00 25	13000.00 25	13500.00 25	14900.00 24	17200.00 24	21000.00 24	23100.00 24	26400.00 21	53300.00 24
1946	5000.00 9	5230.00 11	5770.00 11	6470.00 9	10400.00 12	12700.00 13	14200.00 12	17400.00 14	21600.00 14	35500.00 15
1947	1900.00 1	2930.00 1	5190.00 7	7230.00 12	9100.00 11	13200.00 14	16300.00 16	19200.00 16	25800.00 19	30700.00 11
1948	7000.00 15	7200.00 16	8170.00 16	10000.00 21	12100.00 20	15400.00 20	16400.00 17	21800.00 21	27000.00 22	51100.00 22
1949	5000.00 20	8170.00 17	9070.00 20	10200.00 22	11400.00 16	14100.00 17	17700.00 20	22700.00 23	28200.00 24	46600.00 20
1950	5000.00 11	5200.00 10	5650.00 10	7090.00 10	9000.00 10	11100.00 8	13700.00 10	17300.00 13	22700.00 16	36400.00 18
1951	4900.00 12	6200.00 13	7310.00 14	9810.00 14	11700.00 17	17000.00 23	17200.00 19	20100.00 19	27000.00 23	47300.00 21
1952	7500.00 17	8230.00 18	8770.00 19	9810.00 18	12400.00 21	19700.00 25	27100.00 25	31800.00 25	39000.00 25	57100.00 25
1953	10700.00 24	11600.00 24	12400.00 24	13200.00 24	15100.00 25	16500.00 21	19300.00 23	21800.00 20	25900.00 20	53100.00 23
1954	6000.00 14	6730.00 14	7210.00 13	9170.00 16	11700.00 14	13300.00 16	16700.00 18	19600.00 17	24200.00 17	37200.00 16
1955	3250.00 21	3540.00 21	4350.00 21	9840.00 19	11700.00 19	13400.00 15	14400.00 13	15400.00 11	21600.00 15	30000.00 9



STATION NUMBER 06807000

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

MISSOURI RIVER AT NEBRASKA CITY, NEBRASKA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1930	93000.0 22	92300.0 20	85300.0 19	75400.0 19	65400.0 19	60500.0 17	59700.0 13	58600.0 13	49800.0 13	34900.0 12
1931	56200.0 26	52100.0 25	50600.0 24	45100.0 24	39000.0 24	31500.0 26	29100.0 26	28600.0 26	27000.0 25	22200.0 24
1932	139000.0 9	138000.0 9	127000.0 9	109000.0 10	96400.0 8	80500.0 9	68400.0 9	62800.0 10	53600.0 11	34200.0 13
1933	105000.0 20	91900.0 21	85300.0 20	76600.0 18	71400.0 15	65400.0 15	56400.0 15	54800.0 14	44700.0 15	30200.0 15
1934	78100.0 23	62700.0 23	45400.0 26	37700.0 25	36600.0 25	32400.0 25	29500.0 25	29400.0 25	26800.0 26	20000.0 25
1935	105000.0 17	104000.0 16	102000.0 14	87600.0 15	79300.0 14	69100.0 13	57500.0 14	51300.0 16	40900.0 17	26400.0 20
1936	103000.0 16	95800.0 19	86000.0 18	70600.0 20	67100.0 18	51300.0 19	46000.0 19	44800.0 19	35800.0 20	23300.0 23
1937	102000.0 15	102000.0 14	100000.0 15	85200.0 16	69800.0 17	60500.0 16	49400.0 18	45400.0 18	39400.0 18	25000.0 21
1938	125000.0 11	123000.0 11	121000.0 11	112000.0 8	87900.0 11	68400.0 14	56300.0 16	52000.0 15	46700.0 14	31000.0 15
1939	148000.0 8	144000.0 9	131000.0 8	97400.0 12	71800.0 15	52900.0 18	51200.0 17	51000.0 17	42400.0 16	29700.0 17
1940	61100.0 24	57000.0 24	54000.0 23	45500.0 23	41000.0 23	33400.0 24	32100.0 24	30200.0 24	27600.0 24	19400.0 26
1941	105000.0 18	103000.0 17	93200.0 17	76700.0 17	60700.0 20	45400.0 21	41300.0 22	37500.0 22	33600.0 22	23700.0 22
1942	133000.0 10	130000.0 10	124000.0 10	112000.0 9	94800.0 9	93500.0 6	78300.0 7	69000.0 8	55600.0 10	37000.0 11
1943	179000.0 5	173000.0 5	159000.0 6	139000.0 5	102000.0 7	83900.0 8	71900.0 8	75100.0 6	62200.0 8	41500.0 8
1944	207000.0 2	203000.0 2	182000.0 2	156000.0 2	142000.0 2	117000.0 2	95400.0 2	91700.0 2	73500.0 3	49400.0 3
1945	124000.0 12	119000.0 12	105000.0 13	96300.0 13	82200.0 13	70400.0 11	61600.0 12	61400.0 11	53300.0 9	40600.0 9
1946	95000.0 21	90600.0 22	79700.0 22	70400.0 21	59900.0 21	47800.0 20	41700.0 21	39200.0 21	35800.0 21	29200.0 18
1947	171000.0 6	170000.0 6	165000.0 4	155000.0 3	123000.0 3	101000.0 3	87100.0 3	85800.0 3	70100.0 4	48100.0 4
1948	115000.0 14	108000.0 15	101000.0 15	94100.0 14	84100.0 12	75800.0 10	67700.0 10	65400.0 9	62300.0 6	44800.0 7
1949	181000.0 4	179000.0 3	164000.0 3	145000.0 4	124000.0 4	94500.0 5	79200.0 6	74700.0 7	62200.0 7	45100.0 5
1950	182000.0 3	175000.0 4	164000.0 5	134000.0 5	120000.0 5	98600.0 4	83100.0 5	79200.0 5	66500.0 5	44800.0 6
1951	150000.0 7	150000.0 7	145000.0 7	123000.0 7	110000.0 6	87600.0 7	86500.0 4	84600.0 4	77100.0 2	52200.0 2
1952	340000.0 1	357000.0 1	322000.0 1	260000.0 1	200000.0 1	134000.0 1	115000.0 1	101000.0 1	80800.0 1	58200.0 1
1953	113000.0 13	115000.0 13	107000.0 12	100000.0 11	83400.0 10	69900.0 12	61600.0 11	60500.0 12	52500.0 12	39400.0 10
1954	105000.0 19	99900.0 18	83800.0 21	64700.0 22	53200.0 22	45300.0 22	42300.0 20	41000.0 20	39000.0 19	31600.0 14
1955	59000.0 25	51000.0 26	46400.0 25	37200.0 25	35200.0 25	35300.0 23	34200.0 23	33800.0 23	33400.0 23	27400.0 19



STATION NUMBER 06807000

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

MISSOURI RIVER AT NEBRASKA CITY, NEBRASKA

CLASS	NUMBER OF DAYS IN CLASS																																		CFS_DAYS						
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33		34					
1930							1	1	1	3	6	11	23	12	7	6	24	23	62	31	9	20	28	39	28	16	10	4										12743900.0			
1931											10	27	22	48	14	31	76	66	29	18	16	3	5															8114000.0			
1932											11	10	21	17	58	22	26	18	7	28	21	18	12	15	16	19	15	12	5					5			12507900.0				
1933							2	4	3	7	3	9	4	1	10	6	42	42	46	17	22	23	22	21	9	20	16	13	19	3	1						7300550.0				
1934							1	2	9	5	2	6	13	40	15	53	25	27	37	55	32	20	5	3	3		2	1									9634310.0				
1935							2	1	3	12	13	24	21	19	20	44	18	35	19	24	19	11	13	12	16	11	10	5	7	6								8517790.0			
1936									7	10	12	24	20	50	29	41	16	9	7	17	23	23	23	13	7	8	7	6	4	1								9132580.0			
1937							1	4	5	7	6	8	23	17	47	28	26	10	18	17	31	21	25	23	6	12	8	7	6	5	4							11300440.0			
1938								3	7	1	2	8	4	18	50	13	38	5	4	6	38	34	37	21	19	17	9	7	5	4	10	5						10849300.0			
1939											3	5	5	21	13	34	46	31	31	38	18	25	26	18	22	13	5	3	1	1	2	4						7084570.0			
1940							9	2	10	12	15	8	4	23	38	52	8	47	37	28	28	24	9	4	5	3													8632670.0		
1941							4	2	8	6	10	13	42	14	24	22	23	55	59	19	18	11	11	9	7	2	1	1	4										13501930.0		
1942									10	4	5	5	8	13	31	19	24	26	48	38	20	20	14	13	13	8	8	14	13	10	1								15144200.0		
1943											8	31	11	13	7	15	22	51	43	33	34	15	8	7	6	12	19	14	3	9	3								18056000.0		
1944											9	7	9	7	5	1	14	12	17	76	52	26	23	13	18	15	8	9	9	7	21	4	4						14809500.0		
1945																25	7	17	37	41	46	45	27	27	23	16	18	8	14	12	2								10669080.0		
1946								3	5	4	3	1	6	6	29	22	27	26	43	53	49	34	10	19	5	6	2	2											17560410.0		
1947		1			1			1	2	3	7	5	5	8	8	9	14	18	18	22	58	34	26	26	16	24	17	11	10	5	8	8						16382650.0			
1948										5	4	5	8	16	13	4	7	12	15	18	47	53	32	24	29	27	22	14	11										16453610.0		
1949											3	5	15	4	12	10	19	2	17	24	63	52	39	28	20	15	4	5	12	6	5	4	1						16367220.0		
1950							5	2	1	6	3	21	12	12	9	7	24	11	21	55	32	22	26	26	21	11	12	12	3	6	4	1							19065670.0		
1951								2	2	2	4	7	7	12	10	15	38	7	7	11	44	21	34	35	30	17	31	13	6	10									21293200.0		
1952									1	2	6	10	2	3	2	4	4	16	35	43	41	25	54	34	36	9	6	5	3	8	3	3	11						14370200.0		
1953											2	4	25	8	21	10	27	21	118	37	24	13	13	13	6	13	10												11545660.0		
1954								5	2	2	14	7	10	15	11	27	21	23	146	49	22	3	2	2	1	1	2												10017950.0		
1955											2	3	14	2	45	40	24	7	8	33	151	28	6	1	1																



STATION NUMBER 06807000

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

MISSOURI RIVER AT NEBRASKA CITY, NEBRASKA

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	9496	100.0	9	5700.00	90	9386	98.8	18	21000.0	608	6312	66.5	27	76000	196	718	7.5
1	1000.00	1	9496	100.0	10	6600.00	104	9305	98.0	19	24000.0	787	5704	60.1	28	87000	192	522	5.4
2	2100.00	0	9495	100.0	11	7600.00	170	9202	96.9	20	28000.0	775	4917	51.9	29	100000	155	330	3.4
3	2400.00	0	9495	100.0	12	9800.00	197	9032	95.1	21	32000.0	1144	4142	43.6	30	120000	52	175	1.8
4	2800.00	1	9495	100.0	13	10000.00	541	8925	93.0	22	37000.0	717	2998	31.6	31	130000	77	123	1.2
5	3200.00	3	9494	100.0	14	12000.00	326	9294	97.3	23	43000.0	445	2281	24.0	32	160000	26	46	.6
6	3700.00	24	9491	99.9	15	13000.00	720	7968	83.9	24	49000.0	455	1836	19.3	33	180000	9	20	.2
7	4300.00	25	9487	99.7	16	16000.00	335	7248	76.3	25	57000.0	354	1381	14.5	34	210000	11	11	.1
8	4900.00	56	9442	99.4	17	18000.00	540	6952	72.2	26	66000.0	309	1027	10.8					



STATION NUMBER 06807000

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

MISSOURI RIVER AT NEBRASKA CITY, NEBRASKA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1957	4320.00 1	4510.00 1	5110.00 2	8280.00 2	9360.00 1	10200.00 1	10900.00 1	11900.00 1	16100.00 1	25100.00 1
1958	7240.00 10	7380.00 8	8150.00 7	10200.00 5	12000.00 7	12400.00 4	13000.00 3	15000.00 6	20000.00 5	27400.00 4
1959	6000.00 6	6570.00 6	7200.00 5	9190.00 3	11300.00 3	12300.00 3	13200.00 4	14500.00 5	19400.00 4	27500.00 5
1960	5520.00 5	5870.00 4	6930.00 3	10200.00 6	11500.00 4	13000.00 7	13700.00 7	14100.00 4	18600.00 3	28200.00 6
1961	6040.00 7	6780.00 7	9070.00 3	10800.00 6	12900.00 8	13300.00 8	14200.00 8	17200.00 8	22800.00 8	34600.00 11
1962	5500.00 4	5830.00 3	7240.00 6	10400.00 7	11700.00 6	12600.00 5	13200.00 5	13600.00 3	17000.00 2	26900.00 2
1963	5300.00 3	5930.00 5	7050.00 4	9530.00 4	11500.00 4	12600.00 6	13300.00 6	16400.00 7	22000.00 7	33500.00 9
1964	5000.00 2	5330.00 2	5930.00 1	7950.00 1	10600.00 2	11400.00 2	12400.00 2	13500.00 2	20300.00 6	27300.00 3
1965	6500.00 9	8670.00 10	10900.00 11	12200.00 11	12900.00 9	13300.00 9	14300.00 9	18500.00 10	23600.00 9	30200.00 7
1966	10700.00 14	10000.00 14	11200.00 13	14600.00 13	19500.00 15	22200.00 15	26000.00 15	27700.00 13	32600.00 13	38400.00 13
1967	9500.00 11	9000.00 12	11000.00 12	11200.00 9	13500.00 10	14400.00 10	15300.00 10	17400.00 9	24000.00 10	30800.00 8
1968	8500.00 12	8570.00 11	9570.00 9	11800.00 10	14600.00 11	18100.00 12	20200.00 11	21900.00 11	27400.00 11	36400.00 12
1969	6420.00 8	9170.00 9	13600.00 14	15700.00 14	16500.00 13	17600.00 11	20700.00 12	24300.00 12	29100.00 12	34200.00 10
1970	10500.00 15	12000.00 15	14100.00 15	15700.00 15	17600.00 14	21100.00 14	24500.00 13	27800.00 14	35300.00 14	46200.00 15
1971	9500.00 13	9670.00 13	10200.00 10	12800.00 12	16100.00 12	18900.00 13	25000.00 14	31000.00 15	36100.00 15	41200.00 14



STATION NUMBER 05807000

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

MISSOURI RIVER AT NEPASKA CITY, NEBRASKA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1955	49100.0 16	47100.0 16	43200.0 15	39400.0 15	36800.0 15	35700.0 15	34800.0 15	34600.0 15	34600.0 14	27100.0 15
1957	106000.0 5	91500.0 6	70400.0 7	57600.0 7	48700.0 8	42200.0 8	39800.0 8	38600.0 8	34700.0 13	25400.0 16
1958	72000.0 12	65800.0 11	49700.0 12	48100.0 12	44900.0 11	39800.0 12	37800.0 13	36800.0 13	35600.0 12	27800.0 14
1959	75800.0 11	71900.0 10	62100.0 9	50900.0 10	47400.0 9	41700.0 9	39200.0 10	38500.0 9	36600.0 11	28000.0 13
1960	176000.0 1	173000.0 1	164000.0 1	131000.0 1	98200.0 1	67100.0 2	59200.0 3	53400.0 4	47400.0 4	33000.0 7
1961	51300.0 15	48000.0 15	40200.0 16	37100.0 16	36000.0 16	34900.0 16	34500.0 16	34200.0 16	33900.0 16	28200.0 11
1962	149000.0 3	141000.0 3	125000.0 2	106000.0 3	79700.0 3	56700.0 5	55400.0 4	54200.0 3	48400.0 3	32700.0 8
1963	72700.0 10	65600.0 12	48700.0 13	40300.0 14	39400.0 14	36400.0 14	35600.0 14	35100.0 14	34300.0 15	28200.0 12
1964	107000.0 7	87300.0 7	67400.0 8	55000.0 8	47100.0 10	41600.0 10	39500.0 9	33300.0 10	36800.0 10	29600.0 10
1965	95200.0 8	80800.0 8	78500.0 6	71000.0 6	54700.0 6	50000.0 6	48100.0 6	46500.0 6	44200.0 6	33900.0 6
1966	95700.0 9	73600.0 9	61100.0 10	48900.0 11	44700.0 12	41600.0 11	38700.0 11	38100.0 11	37600.0 8	35000.0 4
1967	165000.0 2	149000.0 2	127000.0 3	107000.0 2	82700.0 2	62100.0 4	54500.0 5	50300.0 5	45600.0 5	34800.0 5
1968	57400.0 13	54100.0 14	47000.0 14	41900.0 13	39600.0 13	38600.0 13	38300.0 12	38100.0 12	37400.0 9	32400.0 9
1969	103000.0 6	102000.0 5	97200.0 4	91400.0 4	77900.0 4	67000.0 3	60700.0 2	59100.0 2	57700.0 2	44100.0 2
1970	55700.0 14	55200.0 13	54800.0 11	54500.0 9	52900.0 7	49700.0 7	44400.0 7	44000.0 7	43100.0 7	39100.0 3
1971	112000.0 4	108000.0 4	94300.0 5	85700.0 5	75600.0 5	64900.0 1	64800.0 1	61000.0 1	58600.0 1	47900.0 1



STATION NUMBER 06907000

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

MISSOURI RIVER AT NEBRASKA CITY, NEBRASKA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	CFS_DAYS	
1954																																					9903450.0
1955			4	1		2		7	3	26	22	24	15	11	5	9	3	1	23	18	77	11	3	1													9259870.0
1957		3	1	2		2	2	7	5	43	17	31	15	23	23	6	2	1	26	58	57	17	5	2	3			1	1	1	1					10149040.0	
1959						2	4	2		20	12	26	18	16	12	25	9	4	62	64	51	15	12	4	4	1	2									10214010.0	
1959					3	4	2	2		17	9	24	17	26	7	17	8	8	55	97	33	13	8	5	2	3	4	1								12089550.0	
1960			3	2	2	1	3			12	4	57	18	30	4	5	1		18	82	49	18	16	13	4	6	3	2	1	2	1		2	4	3	10285490.0	
1961					2		2	2	5	5	1	22	23	17	2	9	2	8	60	141	45	8		2													11938100.0
1962				2	2		2			7	21	78	20	10	5	4	2	5	27	54	26	19	19	22	10	7	5	6	2	4	2	2	2			10275100.0	
1963			1		5	1	4	2	1	2	9	31	15	21	7	1	1	10	52	158	34	2	4		2		1	1								10447600.0	
1964		1	3	1	3	1	1	1	3	12	18	56	10	4	1	1	2	2	40	24	50	17	4	6		3	1			2						12390900.0	
1965				1	1					8	9	47	11	6	3	7	5	7	8	81	64	38	18	10	11	10	7	7	1							12769400.0	
1966										5	1		1	1	7	13	16	39	12	45	139	63	9	6	2	1	2	2	1							12707400.0	
1967								2	3	4	8	22	8	33	17	10	3	2	3	19	143	56	6	3	2	2	4		6	5	1		2	1		11853400.0	
1968								3		4		8	6	5	6	39	21	15	6	22	196	31	2		2												16106420.0
1969				1	1					1		9	5	16	12	16	13	10	12	7	42	28	33	59	62	11	8	7	8	5						14289000.0	
1970										1	1	2	1	11	7	9	17	20	10	7	38	111	91	34	5												17495800.0
1971									2	4	1	1	2	6	11	24	13	3	4	1	5	31	63	106	25	34	8	5	9	6	1						

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	5844	100.0	9	10000.00	171	5717	97.8	18	28000.0	418	3964	67.9	27	76000	32	107	1.8
1	4300.00	3	5844	100.0	10	12000.00	133	5546	94.9	19	32000.0	1089	3546	60.7	28	85000	29	75	1.2
2	4400.00	7	5844	99.9	11	13000.00	447	5413	92.6	20	35000.0	1049	2458	42.1	29	95000	25	46	.7
3	5400.00	11	5834	99.8	12	15000.00	185	4966	95.0	21	39000.0	478	1409	24.1	30	110000	5	21	.3
4	5000.00	17	5823	99.6	13	16000.00	236	4781	81.8	22	44000.0	293	931	15.9	31	120000	2	16	.2
5	6700.00	18	5806	99.3	14	18000.00	134	4545	77.8	23	49000.0	273	638	10.9	32	130000	6	14	.2
6	7500.00	18	5748	99.0	15	20000.00	194	4411	75.5	24	55000.0	134	365	6.2	33	150000	5	8	.1
7	8400.00	21	5770	98.7	16	23000.00	118	4217	72.2	25	61000.0	78	231	4.0	34	170000	3	3	.0
8	9400.00	22	5739	98.2	17	25000.00	135	4039	70.1	26	68000.0	46	153	2.6					



STATION NUMBER C68C7410

West

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

EAST MISSOURI RIVER AT HANCOCK, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1961	26.00 7	26.00 7	26.40 6	26.70 6	36.40 7	44.70 7	52.20 7	58.40 7	57.80 8	280.00 7
1962	80.00 11	90.00 11	90.70 11	95.00 11	99.00 11	104.00 11	124.00 10	134.00 10	165.00 10	287.00 8
1963	50.00 10	64.70 10	70.00 10	70.00 10	74.90 10	78.40 9	85.70 9	91.40 9	116.00 9	346.00 10
1964	12.00 5	12.00 5	12.60 4	13.40 3	16.00 3	22.00 2	27.60 5	30.30 2	38.30 4	78.70 1
1965	34.00 8	34.00 8	34.60 8	38.40 8	40.80 8	50.40 8	55.60 8	63.30 8	54.30 7	392.00 11
1966	46.00 9	48.00 9	52.30 9	54.50 9	65.00 9	66.10 10	128.00 11	172.00 11	244.00 11	300.00 9
1967	10.00 4	10.30 4	13.00 5	19.40 5	21.20 5	23.70 4	25.70 2	31.90 5	34.90 2	100.00 2
1968	7.50 2	7.50 2	7.50 2	7.63 2	12.10 2	22.60 3	27.50 3	31.60 4	35.70 3	156.00 5
1969	10.00 3	10.30 3	11.70 3	14.60 4	19.00 4	25.20 5	27.50 4	31.30 3	35.70 5	150.00 4
1970	26.00 6	26.00 6	26.60 7	27.30 7	29.20 6	34.60 6	38.80 6	45.80 6	56.40 6	143.00 3
1971	2.20 1	2.27 1	2.46 1	2.60 1	2.70 1	6.54 1	11.70 1	17.20 1	21.00 1	172.00 6



STATION NUMBER C68C7410

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

EAST MISSISSIPPI RIVER AT HANCOCK, IOWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1960	5000.0 5	4080.0 4	2900.0 5	1670.0 6	1010.0 7	742.0 6	570.0 4	503.0 4	434.0 3	242.0 3
1961	2120.0 10	1930.0 9	1560.0 9	1140.0 8	765.0 8	531.0 8	417.0 8	395.0 8	354.0 6	224.0 6
1962	4490.0 7	4060.0 5	3050.0 4	2010.0 2	1370.0 3	886.0 2	970.0 2	831.0 1	636.0 1	403.0 1
1963	2990.0 8	2140.0 8	1890.0 7	1140.0 5	702.0 9	431.0 9	354.0 9	302.0 9	230.0 10	160.0 9
1964	4550.0 6	2850.0 6	1590.0 8	1190.0 7	1020.0 6	810.0 3	659.0 3	550.0 3	431.0 4	235.0 4
1965	15000.0 1	6500.0 2	3370.0 2	1960.0 3	1670.0 1	1280.0 1	976.0 1	799.0 2	568.0 2	357.0 2
1966	1780.0 11	1030.0 11	674.0 10	536.0 10	457.0 10	354.0 10	304.0 10	266.0 10	239.0 9	200.0 7
1967	5300.0 4	2630.0 7	2200.0 6	1900.0 4	1330.0 4	738.0 7	514.0 7	401.0 7	277.0 8	157.0 10
1968	942.0 12	613.0 12	434.0 12	226.0 12	134.0 12	79.5 12	66.8 12	58.2 12	53.2 12	42.4 12
1969	6120.0 3	5300.0 3	3700.0 1	2210.0 1	1280.0 5	767.0 4	568.0 5	486.0 5	404.0 5	227.0 5
1970	2170.0 9	1220.0 10	666.0 11	391.0 11	242.0 11	180.0 11	193.0 11	171.0 11	131.0 11	85.0 11
1971	13700.0 2	7280.0 1	3310.0 3	1750.0 5	1400.0 2	762.0 5	532.0 6	456.0 6	323.0 7	172.0 8



STATION NUMBER 06807410

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

EAST WISNABOCTNA RIVER AT HANCOCK, IOWA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	CFS_DAYS
YEAR	NUMBER OF DAYS IN CLASS																																			CFS_DAYS
1960										1	9	32	106	11	17	10	24	37	36	32	19	10	5	3	3	3	1	3	2							98703.0
1961																																				81303.0
1962																																				147149.0
1963																																				58515.0
1964										7	17	14	19	41	65	17	7	9	21	45	30	20	15	11	5	7	3	3	6	1						85873.0
1965																																				130465.0
1966																																				72967.0
1967																																				57435.0
1968																																				15524.1
1969																																				82675.0
1970																																				31014.0
1971																																				62704.6

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	4383	100.0	9	18.00	190	4147	94.6	18	200.0	327	1005	22.9	27	2100	23	62	1.4
1	2.20	29	4383	100.0	10	24.00	264	3957	90.3	19	260.0	222	678	15.5	28	2800	15	39	.8
2	2.50	10	4354	99.3	11	31.00	348	3693	84.3	20	340.0	137	456	10.4	29	3600	12	24	.5
3	3.70	1	4344	99.1	12	40.00	520	3345	76.3	21	440.0	77	319	7.3	30	4800	9	12	.2
4	4.90	1	4343	99.1	13	53.00	283	2825	64.5	22	570.0	52	242	5.5	31	6200	1	3	.0
5	6.20	16	4342	99.1	14	69.00	345	2542	58.0	23	740.0	42	190	4.3	32	8100		2	.0
6	8.30	13	4326	98.7	15	90.00	451	2197	50.1	24	970.0	35	148	3.4	33	11000	1	2	.0
7	11.00	38	4313	98.4	16	120.00	299	1746	39.8	25	1300.0	19	113	2.6	34	14000	1	1	.0
8	14.00	128	4275	97.5	17	150.00	442	1447	33.0	26	1600.0	32	94	2.1					



STATION NUMBER C68C8000

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

MULE CREEK NEAR MALVERN, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1956	0.00 1	0.00 1	0.01 1	0.06 1	0.10 1	0.13 1	0.14 1	0.15 1	0.33 1	0.68 1
1957	0.10 2	0.10 2	0.10 2	0.10 2	0.11 2	0.17 2	0.19 2	0.46 2	0.45 2	2.13 3
1958	0.20 5	0.20 4	0.20 3	0.29 3	0.44 4	0.73 4	0.86 4	1.02 4	1.11 4	3.26 6
1959	0.10 3	0.13 3	0.40 5	0.53 6	0.65 5	0.80 5	0.96 5	1.05 5	1.85 8	3.76 7
1960	1.20 10	1.33 11	1.46 11	1.69 12	2.39 12	2.52 12	2.66 12	2.92 12	3.11 11	6.08 10
1961	2.40 14	2.40 14	2.46 14	2.61 13	3.00 13	3.08 13	3.52 13	3.86 13	5.02 13	7.29 14
1962	2.20 13	2.20 13	2.36 13	2.97 14	3.25 14	3.60 14	5.11 14	5.03 14	5.25 14	6.50 12
1963	1.20 11	1.37 12	1.59 12	1.64 11	1.99 11	2.27 10	2.51 10	2.75 10	2.90 10	5.33 9
1964	0.70 8	0.70 8	0.70 7	0.74 7	0.77 6	1.00 6	1.07 6	1.17 6	1.37 6	2.15 4
1965	1.20 9	1.07 9	1.16 9	1.25 9	1.57 9	2.23 9	2.26 9	2.28 9	2.41 9	6.46 11
1966	1.30 12	1.30 10	1.31 10	1.39 10	1.84 10	2.31 11	2.62 11	2.85 11	3.42 12	7.03 13
1967	0.60 7	0.67 7	0.90 8	1.02 8	1.17 8	1.25 7	1.29 7	1.29 7	1.32 5	1.82 2
1968	0.40 6	0.40 6	0.44 6	0.51 5	0.93 7	1.38 8	1.54 8	1.59 8	1.72 7	4.32 8
1969	0.18 4	0.21 5	0.27 4	0.33 4	0.36 3	0.50 3	0.78 3	0.76 3	1.07 3	2.37 5



STATION NUMBER 06808000

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

MULE CREEK NEAR MALVERN, IOWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1955	80.0 11	44.3 11	25.4 11	17.1 10	9.9 13	6.3 13	4.8 13	3.8 14	3.1 14	2.0 13
1956	211.0 4	105.0 4	50.7 4	25.7 6	16.0 8	10.5 8	7.2 10	5.4 11	3.7 12	2.0 14
1957	149.0 9	71.7 6	33.3 9	23.0 9	19.2 6	13.5 4	9.3 7	7.5 8	5.2 9	2.9 11
1958	378.0 2	132.0 2	58.7 3	34.1 4	19.3 5	12.0 7	8.8 8	6.7 9	5.0 10	3.2 10
1959	199.0 5	74.6 5	38.2 6	35.5 3	28.2 2	16.4 3	12.9 2	11.4 2	8.7 4	5.4 5
1960	108.0 10	56.3 10	33.6 8	24.1 8	17.0 7	12.9 6	11.3 4	10.0 3	10.3 2	6.8 2
1961	70.0 12	27.6 12	17.1 13	12.2 13	10.0 11	8.7 10	7.5 9	7.9 7	6.6 6	5.7 4
1962	154.0 7	71.3 7	37.1 7	24.7 7	14.9 9	10.4 9	10.8 5	10.0 4	8.7 3	6.5 3
1963	45.0 13	27.3 13	21.5 12	16.1 11	10.7 10	7.1 12	6.1 12	5.4 12	4.3 11	3.6 9
1964	172.0 6	70.0 8	44.0 5	28.7 5	21.7 4	13.2 5	10.1 6	8.2 6	6.2 8	3.8 8
1965	440.0 1	160.0 1	74.9 2	43.0 2	26.8 3	20.5 1	15.5 1	14.5 1	13.2 1	8.7 1
1966	11.0 14	6.7 14	5.6 14	4.9 14	4.7 14	4.4 14	4.1 14	3.8 13	3.4 13	2.8 12
1967	213.0 3	123.0 3	85.5 1	49.9 1	31.5 1	17.6 2	12.4 3	9.9 5	7.0 5	4.2 7
1968	6.4 15	4.3 15	3.3 15	2.5 15	2.2 15	2.1 15	2.0 15	1.9 15	1.8 15	1.4 15
1969	149.0 8	57.3 9	28.1 10	16.0 12	9.9 12	7.4 11	6.5 11	6.0 10	6.3 7	4.3 6







STATION NUMBER C68C8500

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

WEST MISSOURI RIVER AT RANDOLPH, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1950	50.00 9	50.00 9	50.00 9	50.00 8	50.70 4	54.20 4	63.60 4	80.90 4	129.00 9	370.00 11
1951	60.00 12	63.30 12	67.10 12	68.90 13	76.30 12	78.20 9	95.80 9	109.00 10	152.00 11	483.00 13
1952	120.00 18	120.00 18	120.00 17	120.00 16	129.00 16	223.00 19	306.00 20	359.00 21	437.00 21	1210.00 22
1953	200.00 21	200.00 21	200.00 20	201.00 20	213.00 20	244.00 20	259.00 19	279.00 19	427.00 20	825.00 21
1954	28.00 5	29.00 4	29.00 4	29.50 3	31.10 3	46.80 3	74.40 5	79.00 3	90.20 4	314.00 7
1955	21.00 3	35.70 5	37.30 5	43.60 5	53.70 5	94.70 10	101.00 10	108.00 8	164.00 13	290.00 5
1956	10.00 1	10.00 1	10.60 1	13.40 2	15.60 2	17.10 1	19.00 1	22.70 1	26.30 1	110.00 1
1957	12.00 2	12.00 2	12.00 2	12.00 1	15.00 1	23.70 2	31.20 2	47.80 2	58.10 2	152.00 2
1958	40.00 6	42.30 7	46.10 7	59.70 9	72.70 10	114.00 14	116.00 13	127.00 13	142.00 10	314.00 6
1959	50.00 10	56.30 10	60.00 10	60.00 10	62.50 9	73.40 8	90.40 8	112.00 11	231.00 16	453.00 12
1960	95.00 16	96.70 16	104.00 16	133.00 18	141.00 17	150.00 16	151.00 16	164.00 16	167.00 14	530.00 14
1961	100.00 17	120.00 17	121.00 18	128.00 17	154.00 18	197.00 18	213.00 18	245.00 18	358.00 18	733.00 18
1962	230.00 22	240.00 22	240.00 22	247.00 22	259.00 22	277.00 21	329.00 21	341.00 20	386.00 19	619.00 16
1963	140.00 19	143.00 19	151.00 19	160.00 19	171.00 19	173.00 17	193.00 17	223.00 17	292.00 17	750.00 20
1964	40.00 7	40.00 6	41.30 6	45.30 6	57.30 8	70.90 7	80.60 7	85.60 6	94.00 6	166.00 3
1965	90.00 15	90.00 15	90.70 15	104.00 15	124.00 15	134.00 15	147.00 15	162.00 15	221.00 15	742.00 19
1966	182.00 20	191.00 20	210.00 21	216.00 21	255.00 21	368.00 22	436.00 22	458.00 22	564.00 22	708.00 17
1967	70.00 14	81.30 14	86.00 14	89.00 14	94.10 14	103.00 13	108.00 11	109.00 9	114.00 7	251.00 4
1968	63.00 13	69.00 13	68.00 13	68.60 12	76.80 13	98.20 11	110.00 12	112.00 12	127.00 8	550.00 15
1969	25.00 4	25.00 3	28.90 3	40.10 4	55.30 6	58.90 5	63.60 3	81.30 5	92.20 5	322.00 8
1970	60.00 11	60.00 11	60.30 11	62.90 11	73.00 11	98.60 12	118.00 14	128.00 14	154.00 12	350.00 10
1971	45.00 8	45.00 8	46.70 8	49.80 7	56.30 7	62.30 6	76.60 6	88.20 7	88.90 3	358.00 9



STATION NUMBER C68C8500

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

WEST NISHNABOTNA RIVER AT RANDOLPH, IOWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1949	15000.0 7	9670.0 7	6110.0 5	4080.0 5	2470.0 6	1480.0 8	1220.0 7	1010.0 8	890.0 8	539.0 9
1950	16900.0 6	7370.0 10	3810.0 13	1990.0 15	1350.0 16	1060.0 15	895.0 14	840.0 13	762.0 11	461.0 12
1951	23700.0 2	13200.0 2	7720.0 2	5070.0 2	3470.0 2	3360.0 1	2960.0 1	2630.0 1	2050.0 1	1130.0 1
1952	11600.0 10	8410.0 8	5650.0 6	3470.0 7	2390.0 8	1640.0 6	1530.0 5	1360.0 5	1200.0 2	966.0 2
1953	2970.0 22	1600.0 22	1210.0 22	1020.0 20	916.0 18	840.0 16	826.0 16	821.0 15	729.0 13	484.0 11
1954	9790.0 12	5670.0 13	2840.0 16	1520.0 18	844.0 20	483.0 21	421.0 20	366.0 20	298.0 20	204.0 20
1955	7370.0 17	4380.0 18	2360.0 18	1580.0 17	1020.0 17	631.0 19	514.0 19	423.0 19	363.0 19	235.0 19
1956	5240.0 20	3010.0 20	1460.0 20	581.0 21	579.0 21	505.0 20	411.0 21	364.0 21	258.0 22	144.0 22
1957	11800.0 9	7010.0 11	3820.0 12	2230.0 13	1380.0 15	838.0 17	604.0 18	489.0 18	265.0 18	213.0 19
1958	8600.0 15	5610.0 14	2940.0 15	1840.0 16	1630.0 13	1240.0 12	1070.0 12	836.0 14	647.0 15	444.0 14
1959	9240.0 12	6420.0 12	3870.0 10	2500.0 11	1990.0 10	1430.0 10	1140.0 10	1030.0 7	663.0 9	503.0 10
1960	13400.0 8	10600.0 4	6870.0 3	4030.0 6	2490.0 5	1740.0 4	1400.0 6	1260.0 6	1140.0 5	655.0 5
1961	7120.0 19	5160.0 15	3420.0 14	2220.0 14	1600.0 14	1170.0 13	961.0 13	896.0 12	762.0 12	533.0 9
1962	17600.0 5	9890.0 6	5440.0 8	4090.0 4	2750.0 4	1720.0 5	1870.0 2	1590.0 2	1260.0 3	825.0 3
1963	7160.0 19	5030.0 16	3820.0 11	2780.0 10	1820.0 12	1100.0 14	851.0 15	716.0 16	541.0 17	374.0 17
1964	9520.0 11	4670.0 17	2720.0 17	2320.0 12	1880.0 11	1470.0 9	1170.0 9	962.0 10	768.0 10	431.0 15
1965	25000.0 1	14000.0 1	6460.0 4	4370.0 3	3260.0 3	2390.0 3	1870.0 3	1560.0 3	1230.0 4	787.0 4
1966	7670.0 16	3380.0 19	1850.0 19	1080.0 19	889.0 19	755.0 18	676.0 17	604.0 17	558.0 16	472.0 12
1967	23300.0 3	10400.0 5	7790.0 1	7040.0 1	4820.0 1	2640.0 2	1830.0 4	1420.0 4	973.0 6	545.0 6
1968	519.0 23	377.0 23	311.0 23	194.0 23	172.0 23	155.0 23	143.0 23	130.0 23	127.0 23	111.0 23
1969	8780.0 14	7790.0 9	5290.0 9	3430.0 8	2380.0 9	1500.0 7	1190.0 8	981.0 9	512.0 7	542.0 7
1970	4170.0 21	2330.0 21	1410.0 21	792.0 22	496.0 22	361.0 22	362.0 22	333.0 22	279.0 21	200.0 21
1971	18200.0 4	11600.0 3	5500.0 7	2970.0 9	2440.0 7	1370.0 11	1070.0 11	948.0 11	686.0 14	386.0 16



STATION NUMBER C68C8500

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

WEST NISHNABOTNA RIVER AT RANDOLPH, IOWA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	CFS_DAYS			
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS				
1949										25	40	24	47	29	30	41	26	21	17	19	11	8	7	3	4	6	4		1	1			1		196916.0				
1950										19	40	18	50	29	28	16	37	29	18	26	9	13	2	3	6	4	9	7				1		1		168276.0			
1951										2	49	15	8	55	9	5	8	22	40	21	22	22	11	23	11	14	7	6	2	5	4	2			3	412584.0			
1952													20	8	2	8	27	40	68	38	50	48	22	9	9	3	5	4		1		4			316906.0				
1953										2	10	10	9	12	18	56	60	31	21	47	49	21	10	5	3		1									176623.0			
1954					1	26	18	22	14	29	63	43	72	26	14	8	6	3	5		1	3	1	1				1								74486.0			
1955	3	13	14	8	3	6	6	37	31	53	30	54	35	15	15	8	7	11	3	4		3	2			1	1									85863.0			
1956	7	11	33	70	38	46	36	24	30	15	6	12	4	3	5	4	4	1	3	2	5	1	1	2	1	1	1									52690.0			
1957	15	6	4	9	28	37	18	42	30	40	14	35	20	19	11	5	5	6	5	2	4	2				2				1			1			77743.0			
1958								1	8	19	41	37	38	50	50	24	27	18	16	6	6	3	5	4	2	2	2	1	4	1						162102.0			
1959								44	4	13	23	39	47	29	22	21	31	21	23	12	11	8	3	6	5			1	1			1				183593.0			
1960										4	6	98	55	10	4	25	31	38	35	16	13	9	4	5	4	3	3	1				2					241165.0		
1961											1	6	16	12	42	81	72	40	31	25	11	5	9	7	4	1			1	1							194622.0		
1962															30	69	40	66	49	38	20	12	15	4	6	5	4	2	3	1				1			301073.0		
1963															24	27	48	57	82	51	24	14	10	9	1		5	3	6	1	1	1	1				136579.0		
1964					4	8	18	16	58	28	17	3	14	52	28	21	12	13	4	6	6	5	6	2	1	3					1						157833.0		
1965															15	17	38	49	47	28	38	31	25	14	13	7	9	6	8	6	5	3	2	1		2		1	287145.0
1966													18	13	16	32	54	82	63	44	23	8	6	1	3			1				1					172191.0		
1967										2	12	80	57	66	25	13	11	13	9	6	4	1	1	3	3	2	5	1	3	2	1	3	1		1		195076.0		
1968				2	4	14	21	27	43	90	43	86	23	8	2	1	2																					40697.0	
1969					1	4	13	18	41	9	31	29	30	29	51	32	19	18	10	3	5	5	4	4	4	4	2	1	2								197909.0		
1970										28	27	51	33	81	50	58	18	6	3	3	1	1	1		1	1	1	1										73101.0	
1971										24	57	23	47	32	38	19	30	21	23	15	11	7	1	4		3	2	1	1	3	1		1		1			141016.0	

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	8400	100.0	9	66.00	383	7462	88.8	18	550.0	438	1681	20.0	27	4600	27	95	1.1
1	10.00	25	8400	100.0	10	83.00	791	7079	84.3	19	690.0	385	1243	14.8	28	5800	26	69	.8
2	17.00	30	8375	99.7	11	110.00	559	6288	74.9	20	880.0	216	858	10.2	29	7300	14	42	.5
3	16.00	51	8345	99.3	12	130.00	932	5729	68.2	21	1100.0	136	642	7.6	30	9200	14	28	.3
4	20.00	50	8294	98.7	13	170.00	593	4797	57.1	22	1400.0	134	506	6.0	31	12000	5	14	.1
5	26.00	99	8204	97.7	14	210.00	662	4204	50.0	23	1800.0	85	372	4.4	32	15000	4	9	.1
6	32.00	125	8105	96.5	15	270.00	670	3542	42.2	24	2200.0	85	287	3.4	33	19000	4	5	.0
7	41.00	159	7975	95.0	16	340.00	617	2872	34.2	25	2800.0	67	202	2.4	34	24000	1	1	.0
8	52.00	358	7820	93.1	17	430.00	574	2255	26.8	26	3600.0	40	135	1.6					



STATION\_NUMBER 6-8090.00

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

DAVIDS CREEK NEAR HAMLIN, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1954	0.0 1	0.0 1	0.0 1	0.0 1	0.0 1	0.1 2	0.2 2	0.3 2	0.3 2	5.4 5
1955	0.1 4	0.1 4	0.1 4	0.1 4	0.1 4	0.4 4	0.5 3	0.7 3	1.7 5	3.6 3
1956	0.0 2	0.0 2	0.0 2	0.0 2	0.0 2	0.0 1	0.0 1	0.0 1	0.0 1	1.3 1
1957	0.0 3	0.0 3	0.0 3	0.1 3	0.1 3	0.3 3	1.3 6	1.7 6	2.6 6	5.2 4
1958	0.6 7	0.6 7	0.7 7	0.8 7	1.0 7	1.7 9	2.1 9	3.5 12	5.8 12	9.9 7
1959	1.0 11	1.0 11	1.0 10	1.0 9	1.0 8	1.1 7	1.6 7	2.4 8	5.3 11	18.0 12
1960	0.7 8	0.9 9	1.0 11	1.3 10	1.7 10	2.2 11	2.3 10	2.4 9	2.9 7	10.5 8
1961	0.8 9	0.8 8	0.8 8	0.8 8	1.2 9	1.7 8	2.4 11	2.8 11	4.7 10	20.9 14
1962	1.3 12	1.5 12	1.8 13	2.2 14	3.5 14	5.0 14	6.1 13	9.7 14	10.2 13	18.2 13
1963	1.5 13	1.5 13	1.5 12	1.6 12	1.9 11	2.0 10	2.1 8	2.3 7	2.9 8	13.1 10
1964	0.4 5	0.4 5	0.4 5	0.4 5	0.5 5	0.5 5	0.7 4	0.8 4	0.9 3	3.1 2
1965	1.0 10	1.0 10	1.0 9	1.4 11	2.1 12	2.4 12	2.5 12	2.6 10	3.7 9	15.1 11
1966	1.6 14	1.8 14	1.9 14	2.0 13	2.4 13	3.9 13	6.6 14	7.3 13	10.2 14	12.7 9
1967	0.4 6	0.4 6	0.4 6	0.4 6	0.5 6	0.7 6	0.8 5	0.9 5	1.1 4	6.8 6



STATION\_NUMBER 6-8090.00

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

DAVIDS CREEK NEAR HAMLIN, IOWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1953	178.0 11	98.7 12	64.9 13	47.5 11	32.6 10	26.5 10	23.2 9	22.6 8	16.2 8	11.0 8
1954	90.0 15	43.7 15	22.6 15	11.6 15	6.0 15	3.2 15	3.4 15	2.9 15	2.3 15	1.3 15
1955	200.0 10	133.0 10	66.7 12	38.6 13	24.3 14	15.4 14	12.6 14	10.1 14	6.9 14	3.8 12
1956	274.0 8	158.0 9	72.3 11	35.2 14	28.4 13	18.5 13	13.6 13	11.2 13	7.4 13	3.7 14
1957	483.0 4	207.0 6	103.0 8	55.9 9	31.6 11	19.4 12	15.9 12	13.5 12	9.6 12	6.1 12
1958	1620.0 1	773.0 1	361.0 1	183.0 1	114.0 1	65.6 1	49.7 1	38.5 3	29.4 3	19.4 2
1959	120.0 14	74.7 14	61.0 14	43.0 12	34.9 9	27.0 9	27.3 7	24.8 7	18.8 6	10.9 9
1960	323.0 6	293.0 3	217.0 2	130.0 2	85.4 2	61.8 2	48.9 2	42.1 1	33.6 1	18.6 2
1961	175.0 12	109.0 11	88.1 9	72.5 8	54.6 6	40.8 4	32.2 5	29.2 5	22.3 4	13.3 4
1962	240.0 9	213.0 5	180.0 4	122.0 3	75.5 3	48.4 3	44.9 3	39.6 2	32.1 2	20.7 1
1963	120.0 13	88.7 13	70.1 10	50.5 10	31.1 12	19.9 11	18.2 11	14.9 11	10.6 11	6.3 11
1964	736.0 2	343.0 2	181.0 3	99.2 4	60.4 5	37.1 6	34.5 4	29.4 4	21.7 5	11.4 6
1965	387.0 5	184.0 7	154.0 5	88.0 6	51.8 7	35.5 7	27.8 6	25.1 6	18.2 7	11.8 5
1966	644.0 3	279.0 4	138.0 7	74.2 7	47.3 8	29.0 8	22.8 10	19.5 10	15.1 9	11.2 7
1967	278.0 7	168.0 8	141.0 6	92.6 5	70.3 4	38.7 5	26.6 8	20.2 9	13.8 10	7.4 10



STATION\_NUMBER 6-8090.00

DURATION TABLE OF DAILY DISCHARGE

DAVIDS CREEK NEAR HAMLIN, IOWA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	CFS_DAYS	
YEAR	NUMBER OF DAYS IN CLASS																																	CFS_DAYS			
1953	20	10	3	2	1	3	4	5	4	7	6	30	33	47	37	17	35	27	39	13	10	4	3		2	2	1									4032.0	
1954	1	56	54	56	23	48	45	16	28	9	6	6	3	3	4	1	1		1	1	1		1		1		1	1								486.1	
1955	48	22	5	51	22	20	15	16	33	25	20	20	18	9	10	8	4	6	4		2	3	1		1		1									1396.8	
1956	113	112	30	14	5	14	8	10	5	12	5	5	4	2	6	2	5	3	1	2	1		1		2	1	2		1							1365.4	
1957						25	26	34	43	30	30	28	30	35	20	22	6	19	6	6	1	1	1		1		1				1					2236.0	
1958							4	1		3	4	24	22	28	67	41	45	55	28	16	9	5	4	2	2	1				2	1				1	7077.6	
1959							2	38	33	19	20	18	52	18	27	25	16	24	19	16	15	9	9	4		1										3961.6	
1960							2	7	9	19	48	26	32	22	20	21	22	32	27	28	19	6	7	4	4	3	4		4							6753.7	
1961							8	18	7	23	22	36	45	24	27	23	21	33	20	23	7	11	4	1	7	4	1									4851.2	
1962										2	17	14	37	19	35	54	61	43	30	19	11	5	3	2	5	4	4									7558.9	
1963					2	18	20	10	18	44	64	54	34	21	20	16	8	10	6	6	3	1	3	4	2	1										2297.9	
1964					19	28	44	29	38	16	2	3	21	25	28	22	22	24	12	14	5	3	3	3			2	1	1					1		4158.0	
1965							4	7	18	42	86	35	24	21	41	26	19	12	6	6	6	2	4	1	1												4319.9
1966										3	8	13	11	5	14	31	44	62	53	56	20	20	10	8	4		1	1							1		4128.2
1967										17	26	36	82	88	25	11	8	13	4	11	6	6	6	2	1	4	6	3	3		4	1	1	1			2717.3

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	182	5478	100.0	9	1.50	261	3789	69.2	18	17.0	240	758	13.8	27	190	8	25	.4
1	0.10	200	5236	96.7	10	1.00	287	3528	64.4	19	22.0	172	518	9.5	28	250	11	17	.3
2	0.20	92	5096	93.0	11	2.50	375	3241	59.2	20	29.0	110	346	6.3	29	330	2	6	.1
3	0.30	123	5004	91.3	12	3.30	387	2866	52.3	21	38.0	70	236	4.3	30	430	1	4	.0
4	0.40	89	4881	89.1	13	4.40	343	2479	45.3	22	50.0	47	166	3.0	31	560	2	3	.0
5	0.50	182	4772	87.5	14	5.70	379	2136	39.0	23	65.0	28	119	2.2	32	740	1	1	.0
6	0.70	217	4610	84.2	15	7.50	333	1757	32.1	24	85.0	26	91	1.7	33				
7	0.90	278	4393	80.2	16	9.80	327	1424	26.0	25	110.0	24	65	1.2	34				
8	1.10	326	4115	75.1	17	13.00	339	1037	20.0	26	150.0	16	41	0.7					



STATION NUMBER 06809500

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

EAST WISNARCTNA RIVER AT REC CAK, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1920	36.00 22	38.30 22	39.90 21	43.40 21	50.60 21	73.90 26	111.00 30	194.00 32	230.00 30	478.00 28
1922	31.00 20	33.70 20	40.00 22	40.00 20	40.00 17	56.90 19	81.10 24	104.00 27	176.00 26	222.00 12
1938	7.00 1	7.67 1	8.14 1	9.86 1	12.50 2	13.40 2	16.30 2	16.50 2	17.30 1	78.10 1
1939	19.00 12	19.70 12	20.60 13	22.00 10	23.30 8	25.10 6	25.70 3	36.30 5	54.10 16	168.00 7
1940	9.00 2	9.67 2	10.40 2	10.70 2	12.00 1	13.10 1	15.50 1	16.40 1	20.70 2	149.00 5
1941	12.00 5	12.30 5	14.90 5	25.40 13	28.00 12	29.50 8	39.10 11	42.60 9	60.90 12	171.00 6
1942	30.00 19	30.70 19	32.90 18	45.40 22	66.60 32	95.10 30	156.00 33	209.00 33	233.00 31	336.00 21
1943	40.00 23	43.30 23	47.90 25	50.20 24	54.20 22	66.00 22	77.50 19	80.10 19	123.00 21	341.00 22
1944	15.00 9	15.30 8	16.90 8	22.40 12	28.30 13	38.70 14	48.30 14	48.60 12	79.70 14	224.00 13
1945	55.00 28	58.30 28	60.00 28	64.30 30	65.20 27	71.20 25	80.70 23	92.40 21	174.00 25	596.00 32
1946	25.00 17	28.30 17	29.30 17	32.10 16	42.70 20	70.50 24	79.70 22	92.90 22	168.00 24	623.00 33
1947	70.00 32	72.00 32	78.90 32	95.50 33	134.00 35	187.00 36	223.00 36	261.00 36	397.00 36	459.00 27
1948	22.00 21	34.00 21	35.40 20	35.80 19	40.10 18	51.50 18	78.50 20	91.30 20	99.40 17	832.00 36
1949	25.00 18	25.00 15	27.30 16	32.10 17	39.40 16	48.30 17	61.80 17	75.00 18	149.00 23	331.00 20
1950	24.00 16	25.00 16	25.00 14	26.40 14	30.00 14	36.50 12	36.90 7	45.70 11	57.70 11	237.00 14
1951	10.00 3	11.30 3	17.30 9	20.00 9	20.50 5	23.20 4	29.30 5	32.90 4	51.80 8	247.00 15
1952	80.00 33	80.00 33	80.00 33	80.00 32	81.70 31	121.00 32	134.00 31	159.00 31	225.00 29	647.00 34
1953	115.00 36	115.00 36	120.00 36	122.00 36	122.00 33	136.00 33	147.00 32	152.00 30	257.00 34	549.00 30
1954	19.00 10	19.00 11	18.00 10	18.40 6	20.80 6	26.30 7	35.60 6	36.90 6	38.80 4	165.00 6
1955	14.00 6	16.00 9	16.30 7	19.10 8	23.50 9	40.70 15	52.20 16	63.50 16	111.00 18	209.00 10
1956	14.00 7	14.00 6	14.00 4	16.60 5	22.20 7	24.80 5	26.30 4	27.00 3	28.00 3	82.70 2
1957	15.00 8	15.00 7	15.00 6	15.10 4	20.40 4	31.90 9	47.30 13	56.00 15	71.30 13	125.00 4
1958	44.00 25	47.30 26	51.70 26	53.40 26	64.60 26	108.00 31	107.00 29	116.00 28	146.00 22	324.00 19
1959	60.00 29	60.00 29	60.00 29	60.00 28	60.30 25	69.20 23	78.60 21	95.50 24	239.00 32	557.00 31
1960	60.00 30	62.70 31	68.40 31	74.90 31	78.70 30	93.50 29	97.60 27	101.00 26	116.00 19	453.00 25
1961	54.00 27	54.00 27	55.70 27	57.30 27	70.10 29	85.20 28	102.00 28	120.00 29	195.00 28	499.00 29
1962	97.00 34	89.70 34	96.70 35	112.00 35	129.00 34	156.00 34	183.00 34	235.00 35	247.00 33	457.00 26
1963	60.00 31	60.70 30	62.00 30	63.40 29	68.30 28	76.20 27	83.80 25	95.40 23	116.00 20	425.00 24
1964	18.00 11	18.00 10	18.00 11	18.70 7	24.00 10	32.90 10	38.40 10	40.80 8	45.40 6	93.20 3
1965	45.00 26	45.00 25	46.40 23	51.80 25	53.70 24	65.90 21	85.00 26	95.80 25	167.00 27	683.00 35
1966	90.00 35	90.00 35	91.90 34	96.70 34	142.00 36	174.00 35	218.00 35	232.00 34	293.00 35	403.00 23
1967	20.00 13	30.00 18	34.30 19	35.80 18	40.50 19	48.20 16	52.00 15	52.80 14	55.20 9	191.00 9
1968	20.00 14	20.00 13	20.60 12	22.20 11	27.30 11	37.00 13	44.50 12	49.00 13	57.60 10	263.00 16
1969	20.00 15	22.30 14	26.00 15	28.60 15	32.70 15	36.00 11	37.50 9	39.40 7	50.00 7	230.00 11
1970	40.00 24	44.30 24	47.60 24	49.70 23	58.00 23	60.90 20	67.20 19	73.20 17	83.80 15	278.00 17
1971	12.00 4	12.30 4	12.90 3	14.80 3	17.10 3	23.00 3	37.40 8	43.80 10	47.50 5	278.00 18



STATION NUMBER 06809500

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

EAST NISHNAECTNA RIVER AT RED OAK, ICWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1919	3140.0 35	3110.0 30	2290.0 25	2010.0 18	1370.0 20	1210.0 13	1010.0 12	856.0 12	640.0 13	369.0 17
1920	2810.0 36	2360.0 35	1660.0 33	1250.0 31	1050.0 22	809.0 23	751.0 19	680.0 17	558.0 17	395.0 15
1922	3300.0 34	2860.0 32	1620.0 34	1450.0 25	889.0 28	654.0 25	524.0 25	448.0 27	425.0 23	301.0 20
1927	2070.0 19	6650.0 15	4090.0 14	2060.0 17	1520.0 17	857.0 19	673.0 22	548.0 22	388.0 25	223.0 28
1933	3370.0 33	1980.0 36	955.0 37	670.0 37	376.0 37	218.0 37	177.0 37	194.0 37	162.0 37	91.5 37
1935	7610.0 22	4090.0 23	2760.0 22	1430.0 26	830.0 31	589.0 30	435.0 32	336.0 33	264.0 28	204.0 29
1940	4180.0 31	3310.0 29	2080.0 27	1330.0 28	1010.0 25	634.0 26	468.0 29	365.0 32	202.0 31	162.0 34
1941	3700.0 32	2760.0 33	1840.0 29	1470.0 24	1010.0 26	552.0 29	478.0 28	386.0 30	307.0 30	195.0 31
1942	6240.0 24	3540.0 27	1840.0 30	1290.0 30	1030.0 23	853.0 20	781.0 17	672.0 19	599.0 15	435.0 12
1943	6610.0 23	4120.0 22	2030.0 28	1020.0 33	764.0 33	536.0 32	444.0 31	456.0 25	263.0 29	261.0 25
1944	5870.0 25	4790.0 20	3500.0 18	2380.0 16	2060.0 9	1470.0 7	1230.0 7	1120.0 7	867.0 7	479.0 8
1945	12300.0 7	8620.0 8	5060.0 6	3820.0 3	2870.0 2	1920.0 3	1600.0 3	1460.0 2	1120.0 2	619.0 2
1946	9500.0 15	6720.0 14	3410.0 19	1950.0 19	1320.0 21	849.0 21	694.0 21	609.0 20	529.0 18	438.0 11
1947	24100.0 2	14900.0 2	8180.0 1	6800.0 1	4960.0 1	2910.0 1	2330.0 1	1870.0 1	1340.0 1	837.0 1
1948	14600.0 5	10900.0 3	5620.0 4	2830.0 11	1760.0 16	1030.0 17	758.0 18	593.0 21	491.0 19	239.0 21
1949	10800.0 11	8550.0 9	4920.0 8	3110.0 7	1870.0 14	1120.0 14	888.0 15	757.0 14	619.0 14	370.0 16
1950	5470.0 27	2420.0 34	1760.0 31	1010.0 34	857.0 30	542.0 31	430.0 33	438.0 28	397.0 24	226.0 26
1951	11500.0 8	9050.0 7	4780.0 9	2970.0 9	1960.0 11	1720.0 4	1610.0 2	1430.0 3	1100.0 3	604.0 3
1952	11100.0 9	7550.0 10	4520.0 10	3030.0 8	1970.0 10	1240.0 12	1060.0 10	1090.0 8	933.0 4	571.0 5
1953	1710.0 37	1170.0 37	975.0 36	825.0 35	678.0 35	624.0 27	580.0 24	546.0 23	453.0 22	287.0 22
1954	9660.0 14	7330.0 11	3540.0 17	1720.0 22	882.0 29	469.0 34	261.0 35	290.0 35	216.0 35	131.0 35
1955	5560.0 26	3310.0 28	1720.0 32	1100.0 32	692.0 34	450.0 35	370.0 34	320.0 34	248.0 34	167.0 33
1956	4810.0 30	2580.0 31	1450.0 35	729.0 36	492.0 36	394.0 36	288.0 36	241.0 36	172.0 36	101.0 36
1957	7740.0 21	5950.0 17	3030.0 20	1840.0 21	1380.0 18	848.0 22	619.0 23	514.0 24	377.0 26	226.0 27
1958	24200.0 1	15900.0 1	7960.0 2	4010.0 2	2600.0 4	1590.0 5	1550.0 4	1200.0 4	847.0 8	562.0 6
1959	10400.0 12	6290.0 16	3740.0 16	2390.0 15	1930.0 12	1330.0 9	1060.0 11	990.0 10	762.0 11	440.0 10
1960	12900.0 6	10200.0 5	6400.0 3	3580.0 5	2160.0 6	1490.0 6	1150.0 8	980.0 11	796.0 9	459.0 9
1961	5060.0 29	4240.0 21	2920.0 21	1850.0 20	1370.0 19	1070.0 16	858.0 16	741.0 15	559.0 16	357.0 18
1962	10900.0 10	6900.0 13	5590.0 5	3600.0 4	2160.0 7	1320.0 10	1430.0 5	1200.0 5	924.0 5	582.0 4
1963	5180.0 28	3660.0 26	2450.0 23	1670.0 23	1020.0 24	612.0 28	498.0 27	412.0 29	300.0 32	157.0 30
1964	10400.0 13	5460.0 19	4120.0 13	2510.0 13	2120.0 8	1430.0 8	1120.0 9	1010.0 9	792.0 10	421.0 13
1965	16500.0 3	10700.0 4	5000.0 7	2940.0 10	2610.0 3	1920.0 2	1400.0 6	1180.0 6	906.0 6	549.0 7
1966	7930.0 20	3840.0 25	2110.0 26	1380.0 27	898.0 27	659.0 24	514.0 26	449.0 26	364.0 27	307.0 19
1967	8760.0 16	5690.0 18	4330.0 12	3300.0 6	2290.0 5	1290.0 11	897.0 14	695.0 16	479.0 21	269.0 23
1968	192.0 38	166.0 39	137.0 39	106.0 38	89.0 38	80.0 38	74.9 38	68.3 38	60.1 38	54.9 38
1969	8750.0 17	6980.0 12	3920.0 15	2350.0 14	1870.0 13	1100.0 15	903.0 13	764.0 13	708.0 12	401.0 14
1970	8200.0 18	4030.0 24	2330.0 24	1300.0 29	798.0 32	471.0 33	448.0 30	381.0 31	283.0 33	175.0 32
1971	15800.0 4	9300.0 6	4440.0 11	2520.0 12	1790.0 15	981.0 18	727.0 20	674.0 18	481.0 20	264.0 24



STATION NUMBER 06809500

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

EAST NISHNABOTNA RIVER AT RED CAK, IOWA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	YEAR	CFS_DAYS		
					1	9	14	26	41	26	32	9	20	22	19	23	24	12	12	13	16	13	15	6	3	9									1919	134792.0			
							6	19	7			32	20	57	45	55	29	29	24	12	6	3	14	6	2										1920	144510.0			
									30	8	16	18	25	41	77	47	39	15	14	6	9	3	5	1	7	3	1									1922	109878.0		
			1	38	38	30	33	44	20	15	15	20	37	16	21	4	2	7	3	4	5	3	1	1			3	2							1937	81248.0			
	1	6	20	37	46	54	60	19	34	23	17	10	10	3	4	6	2	1	1	3	3	2	1			1	1								1938	33393.0			
					21	82	56	38	27	26	28	9	14	5	8	9	7	5	7	1	3	3	2	5			4								1939	74454.0			
		1	24	36	59	55	14	24	26	17	25	19	12	7	7	5	5	5	4	5	1	6	4	2			2	1							1940	59268.0			
					3	46	34	46	47	34	42	32	13	17	12	9	7	8	1	3	2	3	2	1	3											1941	71020.0		
									9	28	41	32	51	58	39	30	35	18	8	4	3	3	2	2	1	1			1	1						1942	158759.0		
						2	54	56	89	30	29	21	20	7	7	12	8	13	4	2	5		2	2	1	1										1943	95256.0		
		2	13	12	14	11	42	35	18	7	4	13	31	26	24	16	24	16	13	7	7	9	3	6												1944	175385.0		
						2	42	34	48	31	11	10	26	23	22	29	29	22	8	4	7	5	4	5	1					1	1					1945	225606.0		
			1	8	8	6	9	33	45	22	36	41	42	38	25	12	9	8	5	6	2	1	4	1												1946	159876.0		
						6	12	18	19	23	57	42	31	40	32	25	14	12	6	7	4	5	2	3	3			3	3							1947	305584.0		
				2	37	23	59	46	38	59	28	21	11	14	10	3	4		1		2	4		1	1											1948	105924.0		
				5	17	12	18	37	42	32	23	21	47	32	13	18	11	10	9	2	3	4	6				1									1949	134931.0		
	2	1	3	18	31	64	38	26	32	18	24	20	21	19	9	11	8	7	2	2		3	2	2	1	1										1950	82322.0		
				25	30	16	17	32	8	6	10	10	17	28	19	16	19	34	26	13	11	9	7	2	1	1			6	1	1					1951	220359.0		
									33	7	20	49	53	31	37	37	35	20	14	9	2	6	5	3	2	1	1										1952	208950.0	
				13	15	12	8	9	12	81	57	21	21	39	29	23	10	11	2	2																	1953	104646.0	
		1	25	28	53	61	99	38	18	12	4	3	4	4	4	3	2	1											2							1954	47734.0		
				25	39	28	39	66	32	31	33	11	18	5	13	8	5	1	5	1			3	1					1								1955	60867.0	
			8	10	103	76	60	39	14	9	7	7	4	7	1	3		7	4	3	1																1956	37058.0	
		13	6	13	17	26	45	31	52	26	28	18	23	20	10	14	8	4	3	2	1	1				1	1	1	1								1957	82364.0	
						7	1	24	44	57	37	50	47	15	29	16	11	6	4	5			2	2	2	2	2										1958	205270.0	
							54	31	27	47	30	30	25	18	26	16	14	12	10	8	4	5	2	1													1959	160735.0	
							10	49	42	70	15	23	32	31	24	24	15	7	7	6	6						2	1									1960	167359.0	
							5	13	31	32	64	45	37	31	31	17	24	7	6	5	4	4	2															1961	130210.0
										27	61	58	50	61	31	22	12	15	7	4	5	1	3	4	1	2	1											1962	212308.0
				10	18	57	51	78	67	21	19	16	7	3	1	4	4	3	3	1																		1963	71926.0
		12	9	14	43	45	39	20	7	4	2	22	46	30	23	13	10	6	7	5	3	4	2														1964	153994.0	
							17	35	8	10	80	32	25	39	34	26	11	8	8	7	6	5	5	3	1	2											1965	200293.0	
							8	16	15	29	32	26	67	82	42	20	11	9	4	1																		1966	112068.0
			1		8	46	76	88	47	23	9	10	10	11	4	2	5	1	5			4	6	5				1	2	1							1967	96158.0	
			5	25	70	47	56	108	32	12	7	4																									1968	20082.0	
			1	7	25	12	27	28	26	30	27	18	25	41	24	24	12	12	5	4	3	3	3	3	2	3	2	3	2	1						1969	146201.0		
				8	23	38	75	71	48	45	16	13	6	4	5	4	1	2	1				1	1	1	1											1970	64016.0	
		2	6	31	11	23	29	45	31	27	36	30	17	20	13	13	4	7	4	1	5	1	3	2	1	1											1971	96398.0	



DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

EAST NISHNABCTNA RIVER AT RED CAK, IOWA

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
C	0.00	0	13879	100.0	9	45.00	997	11393	82.1	18	430.0	608	2410	17.4	27	4100	41	122	.8
1	6.00	1	13879	100.0	10	58.00	1173	10396	74.9	19	550.0	508	1802	13.0	28	5300	29	81	.5
2	7.70	7	13878	100.0	11	74.00	1052	9223	66.5	20	710.0	356	1294	9.3	29	6900	22	52	.3
3	9.90	49	13871	99.9	12	95.00	959	8171	58.9	21	920.0	247	938	6.8	30	8800	12	30	.2
4	13.00	143	13822	99.6	13	120.00	1189	7212	52.0	22	1200.0	171	691	5.0	31	11000	12	19	.1
5	16.00	305	13679	98.6	14	160.00	903	6023	43.4	23	1500.0	129	520	3.7	32	15000	4	6	.0
6	21.00	525	13374	96.4	15	200.00	1024	5120	36.9	24	1900.0	125	391	2.8	33	19000		2	.0
7	27.00	669	12849	92.6	16	260.00	971	4096	29.5	25	2500.0	83	266	1.9	34	24000	2	2	.0
8	35.00	787	12180	87.8	17	340.00	715	3125	22.5	26	3200.0	61	183	1.3					



STATION NUMBER C6810000

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

NISHNAECTA RIVER ABOVE HAMBURG, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1922	165.00 31	165.00 29	166.00 28	172.00 28	191.00 30	235.00 28	238.00 24	273.00 26	315.00 18	940.00 25
1930	214.00 36	224.00 35	229.00 35	231.00 32	253.00 33	316.00 33	364.00 33	426.00 33	356.00 26	876.00 22
1931	20.00 6	54.00 14	56.00 12	69.00 11	75.90 10	98.30 11	108.00 10	112.00 6	113.00 4	222.00 1
1932	67.00 19	72.00 19	73.60 18	90.60 18	110.00 18	165.00 20	372.00 34	559.00 38	551.00 34	1240.00 32
1933	193.00 33	193.00 32	193.00 31	207.00 31	320.00 37	407.00 38	424.00 38	529.00 37	536.00 33	1180.00 30
1934	42.00 10	42.00 9	49.00 9	81.70 16	106.00 16	116.00 14	121.00 12	145.00 14	165.00 11	265.00 5
1935	4.50 1	7.17 1	9.93 1	13.80 1	14.50 1	35.80 3	102.00 8	144.00 13	155.00 10	257.00 4
1936	9.00 2	10.70 2	13.40 2	19.30 5	38.40 6	64.20 7	86.40 5	143.00 12	132.00 5	607.00 14
1937	10.00 3	12.70 3	16.70 4	19.00 4	24.80 4	40.10 4	96.10 7	99.50 5	342.00 23	695.00 17
1938	15.00 4	15.70 5	16.70 5	18.70 3	24.30 3	27.90 2	33.70 2	34.80 1	39.90 1	243.00 3
1939	40.00 9	41.30 8	48.30 8	58.60 9	64.80 9	67.50 8	70.20 4	90.00 4	329.00 20	627.00 15
1940	15.00 5	15.00 4	15.30 3	17.10 2	19.60 2	24.80 1	33.10 1	37.30 2	47.20 2	377.00 8
1941	48.00 13	52.30 13	64.00 15	74.30 12	82.60 12	93.80 10	109.00 11	123.00 9	168.00 12	461.00 9
1942	58.00 17	59.00 15	63.70 14	96.90 19	137.00 21	198.00 25	416.00 37	776.00 41	854.00 39	993.00 26
1943	160.00 30	163.00 28	170.00 29	172.00 29	185.00 29	216.00 27	253.00 26	259.00 22	415.00 27	1030.00 28
1944	45.00 11	46.70 10	57.10 13	78.90 14	82.20 11	109.00 13	127.00 14	127.00 10	191.00 14	660.00 16
1945	90.00 23	96.70 23	113.00 23	149.00 25	184.00 28	215.00 26	243.00 25	270.00 25	432.00 28	1460.00 36
1946	220.00 37	222.00 34	225.00 34	235.00 34	276.00 35	319.00 34	334.00 31	386.00 31	690.00 36	1930.00 41
1947	318.00 41	329.00 41	339.00 40	372.00 40	458.00 41	508.00 41	617.00 41	707.00 40	948.00 41	1090.00 29
1948	130.00 27	133.00 25	139.00 25	150.00 26	164.00 26	260.00 31	304.00 30	336.00 30	367.00 25	2680.00 43
1949	118.00 25	118.00 24	126.00 24	130.00 23	148.00 24	179.00 22	215.00 23	261.00 23	453.00 29	1010.00 27
1950	80.00 22	80.00 22	90.00 22	99.50 21	107.00 17	153.00 17	163.00 17	186.00 17	232.00 17	729.00 20
1951	150.00 29	150.00 27	150.00 27	151.00 27	158.00 25	168.00 21	194.00 21	226.00 21	322.00 19	901.00 24
1952	230.00 39	230.00 36	230.00 36	236.00 35	269.00 34	498.00 40	616.00 40	701.00 39	856.00 40	2240.00 42
1953	226.00 38	285.00 40	380.00 41	384.00 41	403.00 40	465.00 39	481.00 39	488.00 36	754.00 38	1510.00 38
1954	45.00 12	48.30 11	53.60 10	56.80 8	63.80 8	80.10 9	125.00 13	131.00 11	145.00 7	551.00 11
1955	52.00 15	59.30 17	72.00 17	81.60 15	97.70 15	163.00 18	181.00 18	209.00 19	337.00 22	593.00 13
1956	23.00 7	23.00 6	23.40 6	28.40 7	39.30 7	45.70 5	48.70 3	52.60 3	58.70 3	231.00 2
1957	27.00 8	27.00 7	27.00 7	27.20 6	36.30 5	61.60 6	87.20 6	118.00 7	140.00 6	282.00 6
1958	62.00 18	62.30 18	81.60 20	98.20 20	141.00 22	253.00 30	256.00 27	290.00 27	331.00 21	725.00 19
1959	100.00 24	170.00 30	171.00 30	174.00 30	175.00 27	190.00 24	207.00 22	266.00 24	601.00 25	1200.00 21
1960	200.00 34	240.00 37	291.00 38	334.00 39	352.00 39	378.00 37	393.00 35	452.00 34	487.00 30	1300.00 33
1961	240.00 40	240.00 38	241.00 37	250.00 37	280.00 36	351.00 36	416.00 36	486.00 35	721.00 37	1600.00 39
1962	410.00 43	420.00 43	505.00 43	578.00 43	669.00 43	789.00 42	897.00 43	958.00 43	962.00 42	1470.00 37
1963	190.00 32	250.00 39	300.00 39	300.00 38	325.00 38	332.00 35	360.00 32	391.00 32	487.00 31	1410.00 34
1964	75.00 20	76.70 20	85.00 21	100.00 22	117.00 20	138.00 16	149.00 16	160.00 15	175.00 13	334.00 7
1965	210.00 35	210.00 33	216.00 32	241.00 36	250.00 32	278.00 32	296.00 29	326.00 29	457.00 32	1680.00 40
1966	408.00 42	417.00 42	444.00 42	454.00 42	523.00 42	813.00 43	866.00 42	922.00 42	1090.00 43	1420.00 35



STATION NUMBER 06810000

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

MISSISSIPPI RIVER ABOVE HAMBURG, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1967	125.00 26	135.00 26	140.00 26	140.00 24	145.00 23	180.00 23	190.00 19	195.00 18	206.00 15	509.00 10
1968	80.00 21	80.00 21	80.00 19	82.40 17	111.00 19	164.00 19	192.00 20	210.00 20	226.00 16	877.00 23
1969	49.00 14	50.30 12	54.30 11	59.40 10	86.10 13	102.00 12	105.00 9	123.00 8	151.00 8	574.00 12
1970	145.00 28	187.00 31	221.00 33	232.00 33	235.00 31	246.00 29	280.00 28	305.00 28	353.00 24	848.00 21
1971	58.00 16	59.00 16	69.30 16	76.50 13	89.00 14	122.00 15	146.00 15	172.00 16	157.00 9	702.00 18



STATION NUMBER 06810000

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

NISHNAEGTON RIVER ABOVE HAMBURG, IOWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1923	8300.0 30	7780.0 29	5650.0 30	3280.0 32	2070.0 32	1420.0 32	1390.0 29	1360.0 27	1240.0 25	822.0 25
1929	19500.0 8	15200.0 10	10900.0 8	7310.0 9	4310.0 17	3260.0 12	2650.0 13	2280.0 13	1520.0 12	1250.0 10
1930	2580.0 43	2260.0 42	1780.0 42	1360.0 40	955.0 42	671.0 42	554.0 42	578.0 40	520.0 41	414.0 37
1931	6790.0 37	5550.0 34	3320.0 35	2350.0 34	1700.0 36	1050.0 35	802.0 38	746.0 37	551.0 39	335.0 40
1932	11100.0 27	10600.0 22	8370.0 20	5020.0 21	3090.0 23	2520.0 19	2360.0 16	2420.0 11	2150.0 9	1860.0 3
1933	5130.0 40	3430.0 40	1900.0 41	1240.0 42	1120.0 40	782.0 41	677.0 39	680.0 39	589.0 38	462.0 25
1934	3320.0 42	2170.0 43	1140.0 43	631.0 43	372.0 43	300.0 43	226.0 44	218.0 44	218.0 44	170.0 44
1935	7400.0 34	4770.0 39	2870.0 38	1980.0 39	1340.0 38	869.0 39	673.0 41	534.0 42	536.0 40	355.0 39
1936	19100.0 10	14300.0 12	10300.0 12	6850.0 12	4280.0 18	2360.0 22	1720.0 22	1460.0 25	982.0 29	672.0 27
1937	14500.0 16	12400.0 17	8350.0 18	5630.0 19	4450.0 16	2470.0 21	1800.0 21	1540.0 22	1160.0 26	657.0 29
1938	7400.0 35	4830.0 38	2960.0 37	2220.0 36	1520.0 37	1030.0 36	826.0 37	765.0 36	603.0 36	331.0 41
1939	18600.0 11	15700.0 9	10400.0 10	5880.0 18	3340.0 21	1820.0 27	1250.0 32	1200.0 29	1150.0 27	625.0 30
1940	6760.0 38	6550.0 31	5740.0 29	3740.0 28	2910.0 24	1800.0 28	1280.0 31	996.0 33	808.0 33	434.0 36
1941	13700.0 21	10200.0 25	6750.0 23	4370.0 26	2770.0 26	1560.0 31	1190.0 33	1130.0 32	866.0 31	535.0 31
1942	7910.0 32	5860.0 32	5400.0 31	4280.0 27	2700.0 28	2490.0 20	2140.0 19	1840.0 19	1630.0 17	1280.0 9
1943	5440.0 25	7340.0 30	4880.0 32	4510.0 23	2740.0 27	2020.0 23	1660.0 24	1450.0 26	1320.0 23	950.0 23
1944	11300.0 26	10400.0 23	8370.0 19	7200.0 10	5590.0 7	4010.0 7	3330.0 7	2910.0 7	2180.0 8	1200.0 12
1945	19200.0 9	16100.0 8	12600.0 7	9420.0 4	7350.0 2	5210.0 3	4340.0 3	3860.0 3	3170.0 3	1800.0 5
1946	10000.0 28	9110.0 27	6070.0 27	3700.0 29	2530.0 29	2020.0 24	1710.0 23	1480.0 23	1430.0 20	1110.0 16
1947	49600.0 1	38100.0 1	24700.0 1	21600.0 1	16500.0 1	9860.0 1	7350.0 1	6050.0 1	4320.0 1	2570.0 1
1948	25400.0 3	19100.0 4	12800.0 6	7110.0 11	5210.0 11	3190.0 13	2410.0 15	1500.0 17	1520.0 19	931.0 20
1949	29000.0 2	22100.0 2	13600.0 3	8850.0 5	5340.0 9	3180.0 14	2520.0 14	2180.0 15	1840.0 14	1090.0 17
1950	16000.0 14	12200.0 19	6400.0 24	3660.0 30	2480.0 30	1900.0 26	1580.0 26	1460.0 24	1330.0 22	825.0 24
1951	22900.0 6	19000.0 5	12900.0 5	8530.0 6	6090.0 6	6010.0 2	5240.0 2	4810.0 2	3760.0 2	2110.0 2
1952	11800.0 24	10800.0 21	9080.0 17	6820.0 13	4670.0 14	3090.0 15	2690.0 12	2710.0 8	2420.0 7	1610.0 6
1953	3900.0 41	2920.0 41	2620.0 39	2030.0 38	1860.0 33	1710.0 30	1640.0 25	1580.0 21	1350.0 21	878.0 21
1954	11900.0 23	10200.0 24	6110.0 26	3310.0 31	1830.0 34	1010.0 37	842.0 36	742.0 38	590.0 37	384.0 38
1955	5930.0 39	5750.0 33	4530.0 33	3260.0 33	2130.0 31	1370.0 34	1120.0 34	959.0 34	763.0 34	495.0 33
1956	7090.0 36	5040.0 37	2410.0 40	1300.0 41	1010.0 41	816.0 40	677.0 40	569.0 41	412.0 42	238.0 42
1957	14100.0 19	12500.0 16	7760.0 22	4680.0 22	3210.0 22	1940.0 25	1400.0 28	1160.0 31	856.0 32	501.0 32
1958	14100.0 20	12300.0 18	9640.0 14	5920.0 17	4920.0 12	3480.0 10	3090.0 8	2400.0 12	1750.0 15	1190.0 13
1959	14700.0 17	13500.0 14	9300.0 16	6180.0 15	4920.0 13	3580.0 9	2840.0 11	2540.0 9	2090.0 10	1230.0 11
1960	23300.0 5	21200.0 3	16700.0 2	10300.0 2	6360.0 5	4270.0 5	3380.0 6	2540.0 6	2460.0 6	1490.0 8
1961	11400.0 25	9180.0 26	6400.0 25	4480.0 24	3420.0 20	2680.0 17	2230.0 18	2060.0 16	1700.0 16	1160.0 14
1962	17000.0 12	14200.0 13	9830.0 13	7420.0 8	5220.0 10	3390.0 11	3840.0 4	3350.0 4	2710.0 4	1920.0 4
1963	12000.0 22	7860.0 28	5800.0 28	4430.0 25	2890.0 25	1780.0 29	1460.0 27	1250.0 28	953.0 30	666.0 28
1964	14500.0 18	11500.0 20	9490.0 15	6710.0 14	5380.0 8	3840.0 8	2980.0 9	2490.0 10	1930.0 11	1050.0 18
1965	22500.0 7	16900.0 7	10300.0 11	7460.0 7	6370.0 4	4710.0 4	3650.0 5	3120.0 5	2570.0 5	1600.0 7



STATION NUMBER 06810000

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

NISHNABOTNA RIVER ABOVE HAMBURG, IOWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1966	8000.0 31	5270.0 36	3120.0 36	2290.0 35	1790.0 35	1390.0 33	1290.0 30	1180.0 30	1080.0 28	940.0 19
1967	16300.0 13	14500.0 11	13300.0 4	10100.0 3	7110.0 3	4050.0 6	2850.0 10	2210.0 14	1530.0 18	874.0 22
1968	618.0 44	560.0 44	516.0 44	437.0 44	314.0 44	263.0 44	241.0 43	240.0 43	226.0 43	193.0 43
1969	15000.0 15	12600.0 15	8010.0 21	5050.0 20	4280.0 19	2700.0 16	2240.0 17	1890.0 18	1510.0 13	1120.0 15
1970	7600.0 33	5320.0 35	3440.0 34	2040.0 37	1310.0 39	892.0 38	879.0 35	801.0 35	668.0 35	464.0 34
1971	24000.0 4	17000.0 6	10700.0 9	5940.0 16	4450.0 15	2570.0 18	1960.0 20	1770.0 20	1280.0 24	714.0 26



STATION NUMBER 06810000

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

MISSOURI RIVER ABOVE HAMBURG, IOWA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	YEAR	CFS_DAYS	
	NUMBER OF DAYS IN CLASS																																					
1923																																				38 46 58 35 36 40 24 39 28 4 6 2 3 3 3	300192.0	
1929																																				22 64 28 32 35 43 67 17 19 13 7 3 9 2 2 1 1	456971.0	
1930																																				8 12 26 16 13 45 88 62 41 24 9 7 8 4 2	151100.0	
1931																																				18 46 111 67 24 19 17 12 12 10 4 7 3 5 2 3 2 2	122379.0	
1932																																				21 6 3 15 33 30 76 48 63 29 14 12 4 8 4	680857.0	
1933																																				3 14 25 16 32 27 37 89 41 35 25 9 5 5 1 1	168712.0	
1934	1	1	6	9	13	9	7	13	23	21	25	62	93	31	21	7	9																		3 3 1 2 4 1	62142.5		
1935			1	3	2	1	2	15	14	27	37	45	70	26	28	14	21	10	5	8	13	11	6	2	2	1		1						1 1	125646.0			
1936				4	8	13	20	15	20	33	29	32	24	14	28	20	19	16	16	8	11	1	10	4	4	7	4	3	1	1	1			1 1 1	245942.0			
1937					6	11	29	12	24	42	36	18	14	34	17	37	22	11	8	4	5	9	4	7	7	4	2		2					2	235936.0			
1938					5	11	26	47	49	34	26	30	24	14	17	11	11	11	9	8	11	4	7	4	4	1		1						1	120740.0			
1939						15	42	99	34	33	20	17	22	13	11	12	5	7	4	10	1	5	7	2	3				1	2				2	225608.0			
1940					8	16	20	18	64	30	14	27	34	20	34	15	13	6	7	5	5	2	8	7	4	4	5							5	158662.0			
1941									2	10	44	39	49	36	64	38	18	17	8	7	6	4	5	5	5	2	1	3	1	1				1 1	195257.0			
1942										1	8	12	44	52	43	58	49	27	30	15	9	6	7	4											4	468037.0		
1943										4	46	88	37	29	36	34	25	20	9	9	8	4	6	5	4	1								2	310156.0			
1944										3	5	21	34	39	34	10	17	23	22	21	13	28	14	24	19	13	14	4	6	2				1	438263.0			
1945											5	13	21	16	32	53	18	13	20	32	29	30	18	20	16	14	10	1	3	1				3 1	655719.0			
1946																17	42	62	44	64	39	31	14	19	8	8	6	5	3	3				3 3	406816.0			
1947																	14	34	40	58	37	48	37	26	17	11	6	5	7	5	12	2	1	3	2	1 3 2	938626.0	
1948																	24	30	36	76	46	35	39	26	16	10	10	4	1	2	2	3	1	3	1	1	1 1	340530.0
1949																	4	21	27	43	55	31	34	34	32	28	9	16	7	5	6	7	3		2	1	1	397794.0
1950																																					3 1 1	301136.0
1951																																					20 40 19 41 24 6 8 27 35 22 30 24 20 21 7 4 5 7 3 2	765534.0
1952																																					18 9 7 5 56 77 55 34 54 17 12 8 5 5 4	590053.0
1953																																					8 11 11 13 8 66 73 24 16 68 31 23 8 5	320563.0
1954																																					6 23 30 36 36 60 65 42 19 15 9 3 8 4 2 2 1 1 1 2	140130.0
1955																																					2 14 16 9 35 26 20 72 42 39 28 20 8 12 6 2 4 3 4 3	180776.0
1956																																					8 5 53 53 53 42 46 11 11 7 7 3 4 4 5 8 1 1 1 3	87051.0
1957																																					17 16 4 7 29 46 40 23 32 38 33 29 15 4 11 2 7 3 2 3 1 1 2	182722.0
1958																																					5 10 7 46 45 40 73 28 21 22 19 9 6 7 9 6 8 2 2	429712.0
1959																																					1 51 26 17 40 34 40 29 43 17 15 16 16 9 5 3 1 2	445308.0
1960																																					5 14 82 47 41 22 45 38 25 16 12 9 2 1 1 2 3 1	542235.0
1961																																					17 12 34 47 82 39 51 29 19 14 8 9 2 2	422786.0
1962																																					1 28 33 83 68 56 39 18 7 12 11 3 2 3 1	664038.0
1963																																					2 15 26 63 125 56 24 11 18 5 4 2 9 3 1 1	243112.0
1964																																					4 24 26 55 71 5 7 24 37 22 28 10 12 14 10 3 4 5 2 3	385577.0
1965																																					33 36 67 30 41 30 34 17 11 11 16 16 9 8 1 3 1 1	583134.0



STATION NUMBER 06810000

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

NISHNABOTHA RIVER ABOVE HAMBURG, IOWA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	CFS_DAYS	
YEAR	NUMBER OF DAYS IN CLASS																																				
1966																																				342932.0	
1967																																					318944.0
1968																																					70465.0
1969																																					408696.0
1970																																					169246.0
1971																																					260774.0

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	16070	100.0	9	40.00	287	15672	97.5	18	460.0	1250	7205	44.8	27	5400	163	422	2.6
1	4.50	1	16070	100.0	10	52.00	420	15385	95.7	19	610.0	1198	5955	37.1	28	7100	118	259	1.6
2	5.90	1	16069	100.0	11	69.00	595	14965	93.1	20	800.0	988	4757	29.6	29	9300	51	141	.8
3	7.80	7	16068	100.0	12	90.00	832	14366	89.4	21	1000.0	1202	3769	23.5	30	12000	55	90	.5
4	10.00	16	16061	99.9	13	120.00	955	13534	84.2	22	1400.0	648	2567	16.0	31	16000	22	35	.2
5	13.00	36	16045	99.8	14	160.00	983	12579	78.3	23	1800.0	612	1919	11.9	32	21000	7	13	.0
6	19.00	57	16009	99.6	15	200.00	1565	11596	72.2	24	2400.0	362	1307	8.1	33	28000	4	6	.0
7	23.00	111	15952	99.3	16	270.00	1312	10031	62.4	25	3100.0	284	945	5.9	34	36000	2	2	.0
8	30.00	169	15841	98.6	17	350.00	1514	8719	54.3	26	4100.0	239	661	4.1					



STATION NUMBER 06811840

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

TARKIC RIVER AT STANTON, ICWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1959	0.20 6	0.20 6	0.33 6	0.61 7	0.97 6	1.17 6	1.29 5	2.28 5	6.65 8	19.00 7
1960	0.40 9	0.63 10	0.76 9	1.30 9	2.88 10	5.77 10	7.49 10	7.61 10	10.00 10	35.90 9
1961	3.10 13	3.30 13	3.70 12	4.00 12	5.15 12	6.75 12	8.67 11	12.80 11	27.20 13	43.10 13
1962	0.60 10	0.87 11	1.53 11	2.65 11	4.02 11	6.05 11	9.35 12	13.60 12	20.30 12	36.20 10
1963	0.20 7	0.40 7	0.40 7	0.45 6	1.07 8	1.64 8	2.44 8	2.99 8	3.57 6	18.70 6
1964	0.10 4	0.17 5	0.19 5	0.23 4	0.24 3	0.60 3	0.76 2	0.86 2	1.10 2	4.00 1
1965	0.40 8	0.47 8	0.96 10	1.86 10	2.50 9	3.81 9	4.07 9	4.41 9	8.01 9	40.30 11
1966	1.70 12	2.77 12	3.87 13	4.27 13	5.81 13	13.30 13	15.70 13	15.90 13	18.50 11	35.60 8
1967	0.00 1	0.03 3	0.13 3	0.19 3	0.24 4	0.80 5	0.95 3	1.05 3	1.27 3	7.75 3
1968	0.10 5	0.11 4	0.16 4	0.25 5	0.56 5	0.77 4	0.99 4	1.11 4	1.44 4	41.50 12
1969	0.00 2	0.00 1	0.00 1	0.06 2	0.06 1	0.18 1	0.20 1	0.25 1	0.36 1	4.13 2
1970	0.60 11	0.60 9	0.64 8	0.71 8	1.05 7	1.62 7	2.37 7	2.76 6	4.50 7	16.70 5
1971	0.00 3	0.00 2	0.00 2	0.00 1	0.10 2	0.36 2	1.68 6	2.99 7	2.83 5	9.83 4



STATION NUMBER C6811840

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

TARKIC RIVER AT STANTON, ICWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1958	571.0 8	254.0 11	125.0 12	59.5 9	76.9 9	56.5 8	45.7 9	35.4 9	30.4 9	15.8 8
1959	450.0 11	292.0 10	170.0 8	157.0 5	115.0 6	83.5 7	68.6 6	60.9 7	46.2 6	25.2 7
1960	1520.0 2	959.0 2	570.0 2	304.0 2	170.0 3	104.0 3	78.2 3	74.6 3	70.2 2	43.4 1
1961	564.0 9	296.0 9	196.0 6	156.0 6	124.0 4	51.7 4	74.0 4	61.4 6	43.8 7	30.9 5
1962	603.0 7	390.0 5	262.0 4	165.0 4	108.0 7	84.5 6	66.2 7	64.2 5	49.7 5	33.5 4
1963	408.0 12	179.0 12	133.0 11	88.9 11	56.4 11	34.5 11	28.8 11	24.5 11	16.8 12	10.0 12
1964	1420.0 3	904.0 3	488.0 3	299.0 3	198.0 2	127.0 2	101.0 2	79.6 2	57.0 4	29.1 6
1965	980.0 4	431.0 4	228.0 5	134.0 7	116.0 5	91.1 5	73.1 5	74.0 4	61.4 3	38.2 3
1966	715.0 5	302.0 8	145.0 10	74.9 12	49.5 12	29.3 12	22.9 12	20.2 12	18.1 11	16.1 10
1967	3570.0 1	2280.0 1	1320.0 1	826.0 1	461.0 1	240.0 1	162.0 1	122.0 1	81.6 1	41.6 2
1968	22.0 14	14.8 14	7.9 14	5.4 14	4.8 14	3.6 14	2.9 14	2.4 14	2.0 14	1.5 14
1969	604.0 6	349.0 6	189.0 7	102.0 8	81.6 8	51.9 9	46.0 8	37.7 8	31.1 8	16.9 9
1970	233.0 13	88.4 13	47.0 13	24.9 13	16.2 13	14.0 13	13.8 13	12.1 13	9.0 13	6.2 13
1971	450.0 10	317.0 7	159.0 9	55.3 10	62.3 10	35.0 10	32.1 10	30.4 10	21.3 10	12.1 11



STATION NUMBER 06811840

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

TARKIC RIVER AT STANTON, IOWA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	CFS_DAYS
YEAR	NUMBER OF DAYS IN CLASS																																	CFS_DAYS		
1958	5							1		1	1	2	11	17	35	69	41	66	43	24	19	12	5	6	1	3	1	2							7226.2	
1959								6		5	14	44	22	23	19	42	39	19	14	23	32	26	17	9	2	5	2	2							5185.7	
1960																7	41	28	66	59	57	50	21	13	7	4	2	4	2	3	1	1			15895.4	
1961												1	3	5	7	15	32	46	37	40	69	48	15	26	8	6	4	1	2						11287.2	
1962													12	10	12	14	21	34	77	61	60	26	17	7	4	7		1	2						12218.5	
1963								3	32	7	25	18	14	19	37	52	52	24	24	19	12	12	4	4	4		2		1						3661.6	
1964								5	14	36	48	34	36	18	14	11	18	25	24	23	19	15	9	4	4	2	2	2		1	2				10633.1	
1965								5			3	12	18	25	80	30	31	40	28	24	21	24	5	3	8	2	1	2	3						13946.8	
1966										4	2	12	5	4	19	52	38	66	80	54	16	7	3		1	1			1						5864.4	
1967	2							21	20	10	15	18	36	50	52	38	17	9	23	11	6	11	3	5	5	1	1	4	2	1	1		1	2	15186.0	
1968	8	1	7	1	18	14	3	23	11	15	19	23	55	72	55	27	9	3		1	1														534.2	
1969				2	4	13	1	29	17	19	6	3	13	10	15	23	33	24	47	31	34	10	9	11	4	2	2	2		1					6167.7	
1970	10	4	5	4	9	7		4	3	5	11	33	9	32	59	47	54	27	18	10	5	2		2	2	2	1								2262.8	
1971				24	18	1	9	2		1	8	33	28	23	30	54	49	25	23	12	7	3	7	3	2			1	2						4411.7	

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	25	5113	100.0	9	0.30	70	4766	93.2	18	9.0	481	2169	42.4	27	270	19	58	1.1
1	0.01	5	5088	99.5	10	0.40	128	4696	91.8	19	13.0	472	1688	33.0	28	400	17	39	.7
2	0.02	12	5083	99.4	11	0.60	169	4568	89.3	20	19.0	409	1216	23.8	29	580	10	22	.4
3	0.03	7	5071	99.2	12	0.90	258	4399	86.0	21	28.0	310	807	15.8	30	850	6	12	.2
4	0.04	55	5064	99.0	13	1.40	314	4141	81.0	22	41.0	162	497	9.7	31	1200	3	6	.1
5	0.06	52	5009	98.0	14	2.00	338	3827	74.8	23	60.0	143	335	6.6	32	1800	1	3	.0
6	0.09	5	4957	96.9	15	2.90	363	3489	68.2	24	87.0	64	192	3.8	33	2600	2	2	.0
7	0.10	89	4952	96.9	16	4.20	560	3126	61.1	25	130.0	32	128	2.5	34				
8	0.20	97	4863	95.1	17	6.20	397	2566	50.2	26	190.0	38	96	1.9					



STATION NUMBER 06813500

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

MISSOURI RIVER AT RULO, NEBRASKA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1957	4420.00 1	4540.00 1	6020.00 2	8770.00 2	9800.00 1	10900.00 1	11700.00 1	12500.00 1	16700.00 1	25700.00 1
1958	6300.00 6	7200.00 6	8070.00 5	9560.00 3	12200.00 5	12600.00 3	13700.00 4	16300.00 6	21500.00 6	29800.00 3
1959	5520.00 5	6310.00 4	7290.00 4	9620.00 5	11500.00 3	12600.00 4	13400.00 3	15100.00 3	20400.00 3	29600.00 5
1960	6840.00 7	7340.00 7	9720.00 6	12300.00 10	14100.00 10	15000.00 10	15500.00 9	15600.00 5	20400.00 4	30600.00 6
1961	5200.00 2	7150.00 5	9320.00 8	11600.00 6	13700.00 8	14100.00 8	15000.00 8	18500.00 9	24100.00 8	37400.00 11
1962	7820.00 8	8110.00 8	9260.00 7	12100.00 9	12400.00 6	13500.00 6	14600.00 6	15100.00 4	19600.00 2	29500.00 4
1963	5200.00 3	5530.00 3	6990.00 3	9590.00 4	11800.00 4	13100.00 5	14000.00 5	17900.00 7	23700.00 7	36400.00 10
1964	5500.00 4	5500.00 2	5860.00 1	7420.00 1	10500.00 2	11600.00 2	12600.00 2	13800.00 2	20700.00 5	29200.00 2
1965	8000.00 9	9330.00 10	12100.00 13	13200.00 12	13600.00 7	13900.00 7	15000.00 7	19600.00 10	24900.00 10	32500.00 8
1966	10000.00 14	10000.00 13	11400.00 12	14700.00 13	19100.00 15	23000.00 15	27000.00 15	28700.00 13	33600.00 13	40600.00 13
1967	9000.00 11	9570.00 11	11100.00 11	11900.00 8	14000.00 9	15000.00 9	15900.00 10	18000.00 8	24500.00 9	31700.00 7
1968	8500.00 10	8570.00 9	9430.00 9	11600.00 7	14700.00 11	18500.00 12	20800.00 11	22700.00 11	28300.00 11	38100.00 12
1969	9050.00 12	10800.00 14	14600.00 15	16100.00 15	17000.00 13	18300.00 11	21900.00 12	26200.00 12	30400.00 12	35700.00 9
1970	11000.00 15	12300.00 15	14200.00 14	16000.00 14	17900.00 14	21800.00 14	25500.00 13	29200.00 14	35700.00 14	49000.00 15
1971	10000.00 13	10000.00 12	10100.00 10	12600.00 11	16500.00 12	19500.00 13	25700.00 14	31800.00 15	36800.00 15	42500.00 14



STATION NUMBER 06813500

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

MISSOURI RIVER AT RULO, NEBRASKA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
956	52600.0 16	46700.0 16	43000.0 16	39400.0 16	37600.0 16	36200.0 16	35700.0 15	35200.0 16	35200.0 16	27400.0 15
957	114000.0 5	101000.0 6	74800.0 9	61000.0 8	51800.0 11	44600.0 11	41800.0 11	40300.0 11	36100.0 14	26300.0 16
958	95000.0 10	71000.0 11	55300.0 12	54100.0 11	52600.0 10	45300.0 10	43000.0 10	40900.0 10	38900.0 10	30200.0 10
959	93400.0 8	88200.0 9	76000.0 8	59300.0 9	54100.0 7	47500.0 8	44400.0 8	42900.0 8	40100.0 8	30200.0 11
960	179000.0 1	179000.0 1	173000.0 1	142000.0 1	96000.0 1	73400.0 2	64600.0 3	58100.0 4	51100.0 4	35700.0 8
961	72000.0 13	56300.0 14	44300.0 15	40200.0 15	38600.0 15	37500.0 15	37300.0 15	37200.0 14	36500.0 13	30200.0 12
962	139000.0 3	137000.0 3	128000.0 2	110000.0 3	84700.0 4	59900.0 5	60400.0 4	58900.0 3	52400.0 3	36000.0 7
963	87800.0 11	70900.0 12	52400.0 13	42900.0 13	41700.0 13	38400.0 14	37400.0 14	36700.0 15	35900.0 15	29700.0 14
964	103000.0 7	91700.0 7	79900.0 7	67000.0 7	53900.0 9	47200.0 9	44100.0 9	42000.0 9	39800.0 9	30200.0 13
965	97200.0 9	88400.0 8	84300.0 6	75600.0 6	57800.0 6	52100.0 6	51000.0 6	50200.0 6	47600.0 6	36400.0 4
966	81800.0 12	74600.0 10	63000.0 10	50600.0 12	46200.0 12	42900.0 12	40100.0 12	39500.0 12	38800.0 11	36100.0 6
967	150000.0 2	142000.0 2	125000.0 3	116000.0 2	91900.0 2	67900.0 4	58600.0 5	53600.0 5	47900.0 5	36300.0 5
968	63500.0 14	55100.0 15	47600.0 14	42300.0 14	40400.0 14	33500.0 13	38900.0 13	38800.0 13	38200.0 12	33200.0 9
969	106000.0 6	104000.0 5	103000.0 4	98600.0 4	84700.0 3	73600.0 1	66700.0 1	64600.0 1	62300.0 1	47300.0 2
970	54000.0 15	57000.0 13	55800.0 11	55500.0 10	54000.0 8	51200.0 7	44800.0 7	44600.0 7	44000.0 7	40300.0 3
971	125000.0 4	118000.0 4	95300.0 5	87500.0 5	77000.0 5	71500.0 3	66200.0 2	62900.0 2	60800.0 2	49400.0 1



STATION NUMBER 06813500

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

MISSOURI RIVER AT RULO, NEBRASKA

CLASS	NUMBER OF DAYS IN CLASS																																		CFS_DAYS			
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33		34		
1956			3	3	1		1	7	2	23	13	23	23	16	4	8	2	2	1	89	108	29	4	3	1													10038280.0
1957	2	1	1	2	2		3	6	34	18	20	34	22	23	9	4	1	3	58	62	31	10	10	2	3	1										9612610.0		
1958						2	8	4	2	6	7	8	36	14	12	13	20	10	6	75	47	52	12	14	6	3	4	2	1	1						11016250.0		
1959			2	1	4	4	1	1	11	7	6	47	15	9	5	8	15	9	81	63	27	15	15	6	4	1	4	3			1					11041010.0		
1960						2	2	3	2	2	6	19	41	37	15	8	1	1	3	50	44	49	19	19	9	7	6	4	4	1	1			1	2	8	13075330.0	
1961		1				1	1	3		7	2	3	37	28	5	3	3	8	4	87	111	38	13	7	1	1		1									11035540.0	
1962							2	2	1	3	10	10	44	49	11	5	7	5	3	41	41	28	11	28	16	13	6	6	9	2	3	3	2	4			13125620.0	
1963		2	2	3	3	3	1			1	6	13	26	22	10	2	2	3	71	20	95	31	4	2	3	1	2		1							10830920.0		
1964			5	3	2		1	2	11	14	29	37	8	1	1	1	3	1	72	100	41	11	6	2	5	3	4	1	1	1						11071300.0		
1965							1	1		5	6	17	40	10	5	4	4	6	8	23	83	56	27	18	10	10	8	7	11	5						13293300.0		
1966										4	2		2	2	2	8	9	30	28	11	84	133	24	12	3	5	2	2	2								13183000.0	
1967							1	1	6	5	8	19	36	19	10	2	4	2	3	61	134	17	10	2	1	1	4	3	2	4	6	1	2	1			13244200.0	
1968							3	2	3	1		11	3	3	12	42	19	10	7	69	171	6	2	1	1													12152600.0
1969							1		2	2		5	16	14	10	16	10	6	8	18	49	15	30	51	58	12	14	11	8	9							17281450.0	
1970									1	1	1	2	11	5	9	4	19	20	5	6	84	94	78	23	2													14705900.0
1971										7	1	1	2	4	8	19	13	12	2	3	2	6	37	118	40	28	34	7	5	11	1	4	1				18020700.0	

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	5844	100.0	9	10000.00	126	5724	97.9	18	27000.0	113	4083	69.9	27	71000	55	195	3.3
1	4420.00	2	5844	100.0	10	12000.00	101	5598	95.8	19	30000.0	733	3970	67.9	28	79000	51	140	2.3
2	4900.00	7	5842	100.0	11	13000.00	158	5497	94.1	20	34000.0	994	3237	55.4	29	88000	33	89	1.5
3	5500.00	13	5835	99.9	12	14000.00	406	5339	91.4	21	37000.0	959	2243	38.4	30	98000	20	56	.9
4	6100.00	10	5822	99.6	13	16000.00	293	4933	84.4	22	42000.0	319	1284	22.0	31	110000	14	36	.6
5	6800.00	16	5812	99.5	14	18000.00	146	4640	79.4	23	46000.0	372	965	16.5	32	120000	5	22	.3
6	7500.00	22	5796	99.2	15	20000.00	125	4494	76.9	24	52000.0	176	593	10.1	33	130000	8	17	.2
7	8200.00	31	5774	98.8	16	22000.00	139	4369	74.8	25	57000.0	142	417	7.1	34	150000	9	9	.1
8	9000.00	19	5743	98.3	17	24000.00	148	4231	72.4	26	64000.0	80	275	4.7					



STATION NUMBER C6817000

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

NCCAWAY RIVER AT CLARINDA, ICWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1921	5.00 3	10.00 13	10.00 13	10.40 12	12.80 9	15.30 7	24.00 12	26.10 9	32.70 7	208.00 16
1924	1.00 1	1.00 1	1.29 1	2.00 1	2.07 1	3.82 1	8.56 2	34.00 16	74.00 24	144.00 10
1928	5.00 4	5.33 5	6.00 4	6.42 3	6.63 3	7.17 2	7.20 1	8.17 1	9.22 1	89.80 3
1929	7.00 9	7.00 7	8.00 8	8.07 7	8.73 4	11.60 5	11.80 5	12.80 4	44.40 13	182.00 14
1940	5.00 5	5.00 3	5.00 2	5.50 2	6.47 2	7.87 3	8.78 3	9.55 2	10.30 2	95.20 4
1941	10.00 15	10.70 16	11.70 16	13.00 15	13.80 10	15.60 9	21.40 8	24.30 8	59.90 16	153.00 11
1942	15.00 23	15.00 23	15.40 22	19.90 23	23.20 23	42.10 26	104.00 32	331.00 36	407.00 36	524.00 20
1943	19.00 25	22.00 26	23.10 25	25.90 25	31.50 25	42.80 27	55.00 27	66.60 27	59.50 26	332.00 26
1944	14.00 21	14.00 20	14.60 19	15.60 20	17.30 17	24.50 17	33.60 19	34.20 17	68.70 23	256.00 20
1945	26.00 28	27.30 28	29.60 29	33.60 29	44.90 30	69.40 31	75.40 30	96.00 30	139.00 27	572.00 33
1946	5.00 6	5.67 6	6.42 6	6.86 5	15.30 13	29.40 21	33.30 18	37.50 18	67.30 19	372.00 27
1947	26.00 29	32.00 32	34.00 32	45.10 32	47.10 32	81.60 33	91.40 31	112.00 31	185.00 30	253.00 19
1948	8.00 11	8.33 10	9.14 11	12.80 14	18.50 19	29.20 20	37.60 21	43.50 22	43.00 12	691.00 36
1949	10.00 16	10.30 15	11.10 14	13.60 17	16.00 15	21.50 14	34.30 20	42.70 21	68.50 22	200.00 15
1950	6.00 9	12.30 18	17.00 23	18.50 22	21.20 21	22.30 15	25.30 13	31.50 13	34.10 8	179.00 13
1951	13.00 19	13.00 19	13.00 18	13.90 18	15.30 14	16.90 10	23.00 10	28.50 11	68.40 21	261.00 21
1952	50.00 35	50.00 34	52.00 34	53.40 33	56.50 33	86.50 34	108.00 33	134.00 32	158.00 31	667.00 35
1953	34.00 33	34.70 33	37.00 33	37.50 30	39.00 28	43.30 28	54.70 26	60.60 26	85.20 25	315.00 25
1954	8.00 12	8.00 9	8.00 9	8.71 8	14.40 11	17.00 11	17.70 7	21.30 6	21.50 4	104.00 5
1955	9.00 13	9.00 11	9.00 10	9.00 9	9.82 6	14.50 6	15.70 6	19.80 5	67.90 20	122.00 7
1956	5.00 7	5.00 4	5.20 3	6.53 4	9.36 5	10.40 4	11.70 4	12.60 3	16.30 3	64.10 1
1957	3.80 2	4.70 2	6.14 5	9.69 10	11.00 8	15.40 8	23.90 11	31.50 14	45.00 14	77.20 2
1958	14.00 20	14.30 21	15.10 21	17.70 21	23.20 22	34.90 24	40.30 22	40.80 20	50.80 15	214.00 17
1959	17.00 24	18.70 24	24.60 26	31.80 27	32.50 26	34.80 23	41.60 23	49.90 24	142.00 28	305.00 23
1960	51.00 36	52.00 35	54.60 35	78.60 36	90.20 35	125.00 35	133.00 34	142.00 33	215.00 32	552.00 32
1961	28.00 30	28.00 29	28.60 27	30.10 26	39.40 29	48.20 29	62.00 29	82.00 29	218.00 33	480.00 25
1962	24.00 27	25.00 27	29.60 28	54.10 34	60.70 34	78.10 32	185.00 35	211.00 35	371.00 35	606.00 34
1963	28.00 31	30.00 30	33.00 31	33.40 28	37.20 27	41.70 25	49.30 25	53.20 25	61.60 17	314.00 24
1964	15.00 22	15.00 27	15.00 20	15.20 19	19.70 20	25.60 18	29.40 16	31.50 15	36.20 10	122.00 8
1965	30.00 32	30.30 31	32.40 30	38.90 31	46.60 31	55.20 30	61.90 28	75.00 28	174.00 29	539.00 31
1966	50.00 34	55.00 36	63.10 36	63.90 35	53.50 36	184.00 36	213.00 36	209.00 34	231.00 34	421.00 28
1967	7.20 10	7.27 8	7.60 7	7.81 6	10.30 7	18.30 12	22.20 9	22.90 7	26.20 5	113.00 6
1968	10.70 17	10.00 14	10.00 12	10.40 11	14.90 12	24.40 16	28.90 15	30.20 12	34.40 9	246.00 18
1969	9.00 14	9.33 12	11.60 15	12.20 13	16.10 16	20.50 13	26.80 14	26.60 10	31.70 6	123.00 9
1970	22.00 26	22.00 25	22.00 24	22.00 24	24.10 24	33.60 22	43.50 24	47.90 23	66.70 18	275.00 22
1971	11.00 18	11.70 17	12.90 17	13.10 16	17.90 18	25.80 19	32.50 17	37.80 19	36.70 11	159.00 12



STATION NUMBER 06817000

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

MCDAWAY RIVER AT CLARKDA, ICWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1921	1960.0 35	1540.0 34	889.0 34	558.0 34	416.0 32	256.0 34	193.0 35	181.0 34	165.0 32	101.0 32
1924	7910.0 18	5590.0 14	3750.0 10	2600.0 9	1990.0 7	1110.0 12	842.0 13	672.0 14	456.0 14	299.0 14
1937	10600.0 9	7430.0 7	4210.0 7	2210.0 13	1640.0 11	889.0 17	654.0 17	633.0 15	442.0 17	242.0 20
1938	4120.0 30	1970.0 32	920.0 33	661.0 30	410.0 33	273.0 32	199.0 33	198.0 32	159.0 33	84.9 34
1939	11700.0 8	7730.0 6	4340.0 6	2110.0 15	1150.0 21	597.0 26	403.0 28	438.0 25	354.0 24	186.0 26
1940	4380.0 27	3370.0 26	2050.0 25	1380.0 26	1060.0 24	612.0 25	440.0 26	338.0 29	246.0 30	130.0 30
1941	9620.0 11	6700.0 10	3700.0 11	2770.0 6	1540.0 13	862.0 18	639.0 19	552.0 20	412.0 20	242.0 21
1942	7650.0 20	4740.0 23	2460.0 23	2140.0 14	1370.0 18	1060.0 13	878.0 12	809.0 12	711.0 8	585.0 3
1943	6050.0 25	5260.0 17	2850.0 19	1910.0 17	1110.0 23	745.0 20	641.0 18	554.0 19	422.0 19	264.0 16
1944	6560.0 24	4530.0 22	3400.0 14	2730.0 7	2160.0 5	1850.0 3	1390.0 3	1150.0 3	843.0 3	459.0 7
1945	9330.0 12	5380.0 15	2770.0 20	2450.0 10	1610.0 12	1250.0 9	1230.0 4	1080.0 4	806.0 7	450.0 8
1946	7560.0 21	5900.0 12	2860.0 17	1490.0 25	794.0 26	565.0 27	492.0 25	467.0 23	388.0 21	247.0 18
1947	18900.0 1	14000.0 1	8080.0 2	6730.0 1	4960.0 1	2700.0 1	2110.0 1	1680.0 1	1140.0 2	645.0 2
1948	11800.0 7	8010.0 5	4460.0 5	2260.0 12	1400.0 17	799.0 19	569.0 22	435.0 26	361.0 23	199.0 25
1949	4310.0 29	3320.0 27	2060.0 26	1910.0 18	1120.0 22	743.0 21	547.0 24	518.0 21	453.0 16	262.0 17
1950	8870.0 14	4030.0 24	1950.0 27	1060.0 27	620.0 28	487.0 28	375.0 29	357.0 28	295.0 28	176.0 27
1951	12500.0 6	8100.0 4	4730.0 4	3050.0 4	2210.0 4	1960.0 2	1810.0 2	1590.0 2	1170.0 1	652.0 1
1952	9290.0 13	5040.0 18	2850.0 18	1730.0 22	1170.0 20	910.0 14	811.0 14	843.0 9	639.0 12	398.0 11
1953	1120.0 36	967.0 36	720.0 35	534.0 35	451.0 30	426.0 29	415.0 27	368.0 27	302.0 27	176.0 28
1954	3570.0 33	2580.0 28	1280.0 28	645.0 31	340.0 36	181.0 36	199.0 34	168.0 35	123.0 35	74.1 35
1955	3650.0 32	2270.0 30	1080.0 31	884.0 28	555.0 29	319.0 31	233.0 31	229.0 31	202.0 31	116.0 31
1956	2070.0 34	1180.0 35	718.0 36	419.0 36	346.0 35	257.0 33	190.0 36	149.0 36	104.0 36	60.6 36
1957	4360.0 28	1970.0 31	1130.0 30	863.0 29	770.0 27	627.0 24	551.0 23	440.0 24	305.0 26	176.0 29
1958	6760.0 23	5770.0 13	3010.0 15	1670.0 23	1480.0 15	892.0 16	804.0 15	615.0 16	436.0 18	282.0 15
1959	9750.0 10	7010.0 9	3680.0 13	2440.0 11	1860.0 8	1230.0 10	945.0 10	837.0 11	709.0 9	395.0 10
1960	16400.0 2	12500.0 2	8090.0 1	4440.0 2	2590.0 2	1620.0 4	1190.0 5	594.0 6	824.0 5	540.0 5
1961	7700.0 19	4830.0 20	2950.0 16	1750.0 20	1430.0 16	1370.0 5	1080.0 7	516.0 7	655.0 11	425.0 9
1962	14300.0 4	7080.0 8	4180.0 8	2880.0 5	1850.0 9	1280.0 8	1190.0 6	1060.0 5	825.0 4	576.0 4
1963	8020.0 16	3850.0 25	2130.0 24	1530.0 24	951.0 25	729.0 22	627.0 20	496.0 22	347.0 25	207.0 24
1964	7570.0 17	5040.0 19	3800.0 9	2620.0 8	1990.0 6	1200.0 11	977.0 9	838.0 10	672.0 10	354.0 12
1965	14500.0 3	6550.0 11	3700.0 12	1930.0 16	1830.0 10	1340.0 6	990.0 8	516.0 8	819.0 6	509.0 6
1966	3690.0 31	1960.0 33	1030.0 32	633.0 32	422.0 31	403.0 30	318.0 30	288.0 30	266.0 29	212.0 22
1967	13700.0 5	9530.0 3	6000.0 3	3940.0 3	2290.0 3	1290.0 7	884.0 11	674.0 13	460.0 15	244.0 19
1968	309.0 37	209.0 37	146.0 37	104.0 37	73.4 37	54.2 37	49.4 37	48.5 37	42.3 37	36.8 37
1969	7440.0 22	4750.0 21	2550.0 22	1820.0 15	1510.0 14	895.0 15	739.0 16	611.0 17	563.0 13	319.0 13
1970	4550.0 26	2450.0 29	1190.0 29	618.0 33	353.0 34	254.0 35	203.0 32	187.0 33	136.0 34	93.5 33
1971	8660.0 15	5340.0 16	2660.0 21	1740.0 21	1240.0 19	688.0 23	599.0 21	556.0 18	383.0 22	211.0 23



STATION NUMBER 06817000

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

NODAWAY RIVER AT CLARINDA, ICWA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	CFS_DAYS		
YEAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS			
1921									14	2	54	42	43	63	43	38	14	8	12	10	5	2	1	2	7	2	3										37020.0	
1924	6		18	7	3	2	32	8	3	2	4	8	14	15	13	25	55	29	23	38	30	9	4	2	3	4	2	2	2	2	1					109357.0		
1937						52	39	24	29	36	17	7	19	18	34	17	22	12	6	4	5	6	3	2	4	1	2	3		2	1					88173.0		
1933						2	55	90	46	44	35	15	7	9	14	13	4	4	3	2	5	3	4	6	2		1		1							30989.0		
1939						15	95	69	31	27	15	13	12	13	17	8	10	6	2	5	6	8	2		5	1	1	1	1	2			1			67723.0		
1940						8	23	49	71	32	40	32	21	16	15	9	7	4	8	6	7	1	4	2	3	3	1	2	2								47423.0	
1941									14	48	25	27	48	38	47	34	13	19	9	9	5	7	5	3	5	2		1	1	3	1	1				88179.0		
1942												3	2	5	18	16	9	47	52	44	56	28	24	23	13	9	4	6	3	2	1					213643.0		
1943										1	15	22	53	61	41	43	26	20	17	15	12	13	3	6	5		6	3	1	2						96196.0		
1944										31	21	20	34	20	21	23	25	22	20	19	21	21	10	19	13	10	7	3	1	5							167985.0	
1945											12	39	21	41	29	25	25	29	21	29	21	25	14	17	7	3	2	2	2					1			164136.0	
1946						1	11	5	1	3	4	5	68	34	40	37	34	23	30	20	10	15	6	7	4	1	3		1	1	1					90091.0		
1947											11	16	25	15	25	41	31	44	43	26	16	15	12	6	11	8	4	4	3	2	2	1	3	1			236794.0	
1948								7	14	23	53	44	45	46	33	32	18	8	10	10	5	4	2	2	2		1	2	1	1	1					73013.0		
1949								2	11	9	21	37	32	35	29	22	48	27	22	14	11	10	8	8	6	5	3	2	3							95773.0		
1950						1		2	18	32	68	34	38	36	20	23	27	14	20	11	6	5	4	1		3		1		1						64092.0		
1951								7	32	23	11	35	16	8	18	17	21	18	15	17	18	31	23	17	14	10	5	2	2	4		1				237954.0		
1952												3	41	14	24	71	55	32	27	25	27	14	12	4	8	3	3	2				1				142074.0		
1953								2	21	12	10	54	29	45	17	30	11	36	33	28	16	5	6														64085.0	
1954								19	17	65	88	72	38	12	11	6	7	7	13	2	1	2	1	1	1	1	1	1									27041.5	
1955						1	54	25	34	44	50	32	32	19	13	17	8	2	9	8	4	2	4	2	2	2	2	1									42304.2	
1956						1	13	12	30	93	86	36	26	9	12	11	6	9	3	2	3	1	4	4	3	1	1										22192.6	
1957								23	7	27	51	39	41	27	18	22	17	13	21	13	10	10	10	7	3	5			1								64245.6	
1958									8	7	40	46	36	44	42	26	22	14	25	15	9	7	8	4	1	5	1	2	3								102913.0	
1959									1		21	46	22	45	34	26	35	26	23	15	25	8	12	9	4	4	5	1	1	1	1						144005.0	
1960											2	9	25	56	30	62	47	33	28	20	12	12	8	4	7	3	1	5							1	1		197703.0
1961										1	19	17	44	23	52	33	31	30	23	15	25	16	9	5	6	4	8	1	1	2								155015.0
1962											1	12	16	13	21	20	31	25	54	32	23	23	18	10	5	10	3	6	1							1		210257.0
1963											5	32	64	78	45	33	33	14	17	8	5	5	10	3	5	2	3	1	1								75434.0	
1964										15	14	65	50	37	6	15	26	16	34	19	15	15	6	9	5	2	7	3	4	2	1						125545.0	
1965											5	15	39	31	47	36	38	28	21	21	27	10	11	13	7	4	5	3	2							2		185795.0
1966												18	18	13	21	30	56	85	59	27	13	14	1	5	4		1											77291.0
1967								4	19	4	16	36	84	73	39	12	9	17	10	7	3	4	6	5	1	5	2	1	4	1	1			1	1		89169.4	
1968											11	23	62	40	67	100	27	13	11	3	6	2	1															12474.0
1969											4	21	31	19	14	17	17	17	27	38	36	28	27	16	16	7	8	5	7	2	5	2		1			116556.0	
1970												13	37	34	34	41	61	50	44	20	10	8	3	1	3	3		1	1									34128.0
1971											5	27	48	60	39	25	29	29	18	17	19	9	9	8	3	7	4	1	5	1	1		1				76962.0	



STATION NUMBER C681700C

DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

NCCAWAY RIVER AT CLARINCA, ICWA

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	13514	100.0	9	11.00	474	12779	94.6	18	150.0	874	4508	33.4	27	2100	107	323	2.3
1	1.00	6	13514	100.0	10	14.00	797	12305	91.1	19	200.0	776	3634	26.9	28	2800	79	216	1.5
2	1.30	0	13508	100.0	11	19.00	824	11508	85.2	20	270.0	675	2858	21.1	29	3800	56	137	1.0
3	1.80	19	13508	100.0	12	25.00	1052	10684	79.1	21	360.0	508	2193	16.2	30	5100	40	81	.5
4	2.40	7	13490	99.8	13	34.00	1257	9632	71.3	22	480.0	442	1675	12.4	31	6800	21	41	.3
5	3.20	4	13483	99.8	14	46.00	1059	8375	62.0	23	650.0	306	1233	9.1	32	9100	9	20	.1
6	4.30	26	13479	99.7	15	61.00	942	7316	54.1	24	870.0	273	927	6.9	33	12000	9	11	.0
7	5.80	206	13453	99.5	16	82.00	965	6374	47.2	25	1200.0	195	654	4.8	34	16000	2	2	.0
8	7.90	468	13247	98.0	17	110.00	901	5409	40.0	26	1600.0	136	459	3.4					



STATION NUMBER 06819190

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

EAST FORK IO2 RIVER NEAR BEDFORD, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1961	0.20 7	0.27 7	0.36 8	0.41 7	1.58 11	2.82 9	5.70 9	10.20 10	32.50 11	85.20 11
1962	0.20 8	0.27 8	0.33 7	0.51 8	0.90 8	2.95 10	7.91 10	9.52 9	25.50 9	76.30 10
1963	0.60 10	0.60 10	0.67 10	0.86 10	1.17 9	2.15 7	3.85 8	5.02 8	4.53 6	21.70 4
1964	0.10 6	0.10 5	0.10 4	0.11 3	0.20 2	0.23 2	0.28 2	0.37 2	0.47 1	16.20 2
1965	1.10 11	1.20 11	1.23 11	1.25 11	1.50 10	2.55 8	2.66 6	2.87 6	30.60 10	65.10 9
1966	0.50 9	0.50 9	0.53 9	0.62 9	0.84 7	6.80 11	11.00 11	16.40 11	17.60 8	54.50 7
1967	0.00 1	0.00 1	0.00 1	0.00 1	0.01 1	0.11 1	0.17 1	0.24 1	0.59 2	17.00 3
1968	0.08 5	0.10 6	0.12 5	0.12 4	0.25 3	0.37 3	0.47 3	0.69 3	0.68 3	29.40 6
1969	0.00 2	0.01 3	0.06 3	0.12 5	0.32 4	0.41 4	0.61 4	0.81 4	3.96 4	13.90 1
1970	0.00 3	0.00 2	0.00 2	0.00 2	0.36 5	1.49 6	3.63 7	3.68 7	4.06 5	55.80 8
1971	0.03 4	0.06 4	0.20 6	0.30 6	0.43 6	0.49 5	0.65 5	1.22 5	6.19 7	29.20 5



STATION NUMBER 06819190

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

EAST FORK IOZ RIVER NEAR BEDFORD, IOWA

YEAR	1	2	3	4	7	8	15	16	30	31	60	61	90	91	120	121	183	184	ANNUAL	21
1960	4330.0	2	2460.0	1	1190.0	1	570.0	1	321.0	2	178.0	4	187.0	2	159.0	2	147.0	1	102.0	1
1961	1810.0	8	918.0	9	456.0	9	364.0	7	275.0	5	218.0	1	153.0	3	119.0	5	81.5	6	49.5	5
1962	1990.0	7	1270.0	4	686.0	4	409.0	5	247.0	7	206.0	2	145.0	4	132.0	3	119.0	2	71.5	2
1963	1570.0	9	755.0	10	411.0	10	239.0	9	171.0	9	99.4	9	91.1	8	70.7	8	47.2	8	25.7	9
1964	2440.0	4	1600.0	3	886.0	3	439.0	4	249.0	6	177.0	5	136.0	6	111.0	6	98.0	5	49.3	6
1965	2590.0	3	1020.0	7	675.0	5	376.0	6	285.0	4	168.0	6	139.0	5	125.0	4	104.0	4	61.8	3
1966	1300.0	10	976.0	8	497.0	8	235.0	10	130.0	10	85.3	10	61.8	10	49.1	10	39.5	10	25.1	10
1967	4600.0	1	1890.0	2	990.0	2	540.0	2	328.0	1	167.0	7	115.0	7	88.3	7	58.5	7	29.5	7
1968	558.0	11	235.0	11	140.0	11	77.7	12	41.2	12	25.6	12	18.9	12	17.8	12	12.1	12	6.6	12
1969	2070.0	5	1260.0	5	569.0	6	493.0	3	318.0	3	193.0	3	189.0	1	160.0	1	115.0	3	60.2	4
1970	422.0	12	229.0	12	116.0	12	91.7	11	56.1	11	42.0	11	33.7	11	27.3	11	18.9	11	10.9	11
1971	2000.0	6	1180.0	6	554.0	7	324.0	8	210.0	8	111.0	8	79.4	9	66.4	9	45.7	9	26.0	8







## STATION NUMBER 06898000

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

## THOMPSON RIVER AT DAVIS CITY, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1920	7.00 18	8.33 17	9.00 17	9.29 15	13.70 16	18.00 16	38.40 20	94.90 28	142.00 25	600.00 30
1921	13.00 22	13.00 22	14.90 22	19.40 24	20.00 20	22.80 18	30.00 16	31.80 16	62.60 17	373.00 22
1923	13.00 23	13.00 23	15.00 23	17.80 20	28.30 26	44.80 24	52.90 23	90.00 25	225.00 30	460.00 24
1924	14.00 24	15.00 24	21.10 26	23.70 27	26.30 24	27.60 21	31.70 17	42.40 18	76.00 20	207.00 11
1925	14.00 25	19.00 26	19.00 25	19.00 22	19.00 19	27.30 20	34.30 18	32.60 17	72.30 19	272.00 18
1943	24.00 30	25.00 30	27.90 31	30.00 31	38.00 29	73.30 29	75.50 26	88.20 23	105.00 22	237.00 12
1944	6.00 13	6.00 12	6.57 12	7.21 12	7.57 12	11.80 13	15.00 12	16.20 12	30.20 10	245.00 14
1945	21.00 28	21.70 28	23.70 29	25.90 29	53.20 33	76.20 30	109.00 30	107.00 29	166.00 27	578.00 29
1946	11.00 21	11.00 20	12.40 21	21.00 25	26.20 23	45.40 25	49.00 22	72.90 21	77.70 21	508.00 27
1947	24.00 31	25.30 31	26.60 30	29.10 30	38.80 30	55.00 27	73.10 25	88.50 24	123.00 24	263.00 16
1948	6.00 14	6.20 14	6.64 13	10.10 16	12.20 15	16.80 15	20.40 15	29.40 14	45.00 13	762.00 33
1949	2.80 7	3.60 9	4.29 10	4.54 10	4.81 8	9.05 9	12.40 10	15.60 11	27.30 9	149.00 7
1950	6.20 15	10.10 18	11.00 18	11.90 17	16.40 17	19.10 17	20.20 14	24.20 13	46.10 14	200.00 9
1951	2.60 6	2.63 6	2.76 6	3.07 6	4.36 5	5.31 4	7.19 4	8.10 4	15.00 5	338.00 20
1952	5.60 12	6.07 13	8.76 16	18.50 21	51.10 31	97.60 33	141.00 31	158.00 31	183.00 28	704.00 32
1953	6.50 16	6.83 15	7.24 14	7.51 13	7.86 13	9.48 10	16.10 13	30.50 15	63.90 18	259.00 15
1954	0.80 3	0.87 3	1.20 3	1.20 3	1.47 3	2.06 3	2.82 3	2.83 3	3.40 3	107.00 4
1955	1.00 4	1.07 4	1.31 4	1.62 4	3.79 4	6.02 6	12.90 11	11.40 7	39.60 12	134.00 5
1956	0.60 2	0.60 2	0.60 2	0.60 2	0.61 1	0.71 1	0.83 1	1.15 1	2.84 1	34.40 1
1957	0.10 1	0.20 1	0.36 1	0.51 1	0.90 2	1.49 2	2.18 2	2.61 2	3.03 2	53.30 2
1958	2.20 5	2.40 5	2.49 5	2.93 5	4.64 7	7.82 8	11.40 8	13.20 9	13.30 4	154.00 8
1959	6.80 17	7.10 16	8.19 15	9.04 14	10.00 14	15.80 14	38.40 19	44.60 19	49.90 15	272.00 17
1960	30.00 33	32.30 33	35.90 33	47.30 34	75.80 34	111.00 34	210.00 34	289.00 34	461.00 34	846.00 34
1961	23.00 29	23.00 29	23.30 28	24.20 28	34.90 27	39.70 22	57.00 24	81.30 22	152.00 26	491.00 26
1962	20.00 27	20.30 27	22.10 27	23.60 26	28.00 25	81.10 32	159.00 33	176.00 32	348.00 33	665.00 31
1963	10.00 19	10.70 19	11.30 19	12.30 18	22.10 21	25.50 19	39.90 21	48.80 20	58.80 16	243.00 13
1964	3.90 10	3.90 10	3.90 9	3.99 9	4.38 6	6.85 7	8.85 6	9.22 6	15.70 6	71.00 3
1965	34.00 34	34.30 34	36.30 34	39.40 33	52.30 32	80.70 31	92.20 29	115.00 30	295.00 32	532.00 28
1966	14.00 26	16.00 25	17.10 24	19.10 23	25.70 22	61.00 28	150.00 32	208.00 33	231.00 31	466.00 25
1967	5.20 11	5.53 11	6.30 11	6.76 11	7.38 11	10.10 12	11.30 7	12.20 8	23.40 8	204.00 10
1968	3.30 9	3.33 8	3.43 7	3.69 8	6.07 10	9.94 11	11.70 9	13.30 10	20.60 7	294.00 19
1969	3.00 8	3.13 7	3.43 8	3.67 7	5.00 9	5.76 5	7.70 5	8.67 5	39.10 11	148.00 6
1970	27.00 32	28.00 32	31.10 32	35.10 32	35.80 28	47.70 26	85.30 28	93.90 26	118.00 23	428.00 23
1971	11.00 20	11.70 21	12.00 20	13.70 19	18.70 18	42.20 23	84.00 27	94.70 27	215.00 29	356.00 21



STATION NUMBER 06898000

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

THOMPSON RIVER AT DAVIS CITY, IOWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1919	12200.0 5	10700.0 5	7390.0 2	3890.0 5	2330.0 8	2050.0 3	1670.0 3	1390.0 3	955.0 5	513.0 10
1920	6000.0 19	4800.0 20	2700.0 22	2280.0 15	1860.0 13	1520.0 10	1190.0 10	1030.0 9	809.0 10	527.0 9
1921	4460.0 28	2920.0 28	1440.0 32	783.0 34	672.0 31	554.0 29	399.0 31	346.0 31	246.0 30	151.0 30
1923	7730.0 14	6240.0 15	3060.0 20	1650.0 24	956.0 26	584.0 28	440.0 29	377.0 27	365.0 25	255.0 23
1924	10000.0 7	9460.0 6	6070.0 6	3410.0 8	2100.0 10	1140.0 15	828.0 16	714.0 17	601.0 16	341.0 16
1942	6700.0 16	6410.0 14	4040.0 14	2750.0 12	2220.0 9	1340.0 13	1100.0 13	1070.0 8	882.0 8	599.0 4
1943	6610.0 17	5220.0 18	3270.0 18	2310.0 14	1430.0 18	993.0 16	719.0 19	582.0 21	450.0 20	282.0 22
1944	8260.0 12	7110.0 10	4510.0 9	3770.0 6	2510.0 5	1660.0 5	1240.0 7	1000.0 11	737.0 12	395.0 13
1945	8380.0 11	7610.0 9	4170.0 13	2600.0 13	1820.0 14	1600.0 7	1470.0 4	1310.0 5	965.0 4	534.0 8
1946	9410.0 8	8130.0 7	4470.0 10	2180.0 18	1150.0 22	728.0 23	738.0 18	710.0 18	640.0 15	366.0 14
1947	13200.0 1	12900.0 1	7150.0 3	6490.0 1	5040.0 1	2720.0 1	2530.0 1	2070.0 1	1390.0 1	744.0 1
1948	4580.0 25	4040.0 23	3160.0 19	1760.0 23	1080.0 24	657.0 25	517.0 25	397.0 25	286.0 28	162.0 29
1949	3560.0 30	2850.0 29	1860.0 29	1300.0 27	821.0 27	612.0 27	445.0 28	392.0 26	386.0 23	214.0 24
1950	10800.0 6	6800.0 12	3720.0 15	1910.0 22	1030.0 25	989.0 17	714.0 20	631.0 19	532.0 19	290.0 21
1951	14400.0 4	12200.0 4	6840.0 4	4170.0 2	2840.0 2	2160.0 2	1860.0 2	1630.0 2	1230.0 2	648.0 3
1952	5750.0 20	5100.0 19	3360.0 17	2260.0 16	1320.0 19	839.0 19	803.0 17	740.0 16	564.0 18	345.0 15
1953	3560.0 31	2990.0 27	1960.0 26	1110.0 29	802.0 28	619.0 26	544.0 24	486.0 24	369.0 24	210.0 25
1954	2280.0 33	1560.0 35	1120.0 34	688.0 35	497.0 34	303.0 33	213.0 33	164.0 34	115.0 34	59.4 34
1955	2220.0 34	1690.0 34	1400.0 33	1190.0 28	686.0 30	406.0 32	293.0 32	225.0 32	182.0 32	110.0 32
1956	2130.0 35	1740.0 33	1070.0 35	832.0 32	517.0 33	292.0 34	203.0 34	153.0 35	101.0 35	52.3 35
1957	4490.0 26	3480.0 25	1940.0 27	1040.0 30	665.0 32	553.0 30	463.0 27	362.0 29	242.0 31	123.0 31
1958	4860.0 24	2360.0 32	1920.0 28	1450.0 26	1190.0 21	683.0 24	479.0 26	370.0 28	308.0 27	167.0 28
1959	15100.0 2	12600.0 3	6430.0 5	3410.0 7	2380.0 7	1580.0 8	1450.0 5	1340.0 4	1170.0 3	663.0 2
1960	14700.0 3	12700.0 2	8050.0 1	4120.0 3	2440.0 6	1630.0 6	1240.0 8	1140.0 6	921.0 7	592.0 5
1961	5240.0 22	4600.0 21	2670.0 23	2010.0 20	1760.0 15	1480.0 11	1130.0 11	917.0 13	665.0 13	416.0 12
1962	6440.0 18	5950.0 17	4400.0 11	3250.0 9	1940.0 12	1530.0 9	1130.0 12	963.0 12	942.0 6	573.0 6
1963	4060.0 29	3070.0 26	2080.0 25	1980.0 21	1270.0 20	732.0 22	599.0 23	491.0 23	341.0 26	204.0 27
1964	6820.0 15	6190.0 16	4370.0 12	2240.0 17	1680.0 16	872.0 18	891.0 15	821.0 15	655.0 14	336.0 17
1965	7740.0 13	6690.0 13	4600.0 8	2890.0 11	2600.0 4	1680.0 4	1300.0 6	1110.0 7	855.0 9	555.0 7
1966	5700.0 21	4240.0 22	2540.0 24	1590.0 25	1090.0 23	738.0 21	650.0 22	541.0 22	439.0 22	301.0 18
1967	8690.0 9	7680.0 8	5140.0 7	4080.0 4	2630.0 3	1460.0 12	1080.0 14	847.0 14	578.0 17	298.0 20
1968	4480.0 27	2850.0 30	1550.0 30	830.0 33	452.0 35	269.0 35	193.0 35	186.0 33	134.0 33	78.5 33
1969	8420.0 10	6930.0 11	3450.0 16	3180.0 10	1970.0 11	1320.0 14	1190.0 9	1020.0 10	778.0 11	444.0 11
1970	3320.0 32	2400.0 31	1550.0 31	834.0 31	718.0 29	522.0 31	431.0 30	360.0 30	274.0 29	205.0 26
1971	5000.0 23	4000.0 24	2800.0 21	2070.0 19	1450.0 17	810.0 20	690.0 21	614.0 20	448.0 21	301.0 19







DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

THOMPSON RIVER AT DAVIS CITY, IOWA

<i>cfs</i>					<i>cfs</i>					<i>cfs</i>					<i>cfs</i>				
CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	12784	100.0	9	.0037 2.60	169	12378	96.8	18	.096 67.0	1048	6504	50.9	27	2.42 1700	194	588	4.5
1	0.10	1	12784	100.0	10	.0053 3.70	284	12209	95.5	19	.137 96.0	1024	5456	42.7	28	3.56 2500	158	394	3.0
2	0.20	5	12783	100.0	11	.0076 5.30	338	11925	93.3	20	.200 140.0	938	4432	34.7	29	5.14 3600	114	236	1.8
3	0.30	2	12778	100.0	12	.011 7.60	516	11587	90.6	21	.285 200.0	738	3494	27.3	30	7.28 5100	68	122	.9
4	0.40	14	12776	99.9	13	.016 11.00	779	11071	86.6	22	.377 280.0	687	2755	21.6	31	10.4 7300	43	54	.4
5	.50 0.60	74	12762	99.8	14	.023 16.00	764	10292	80.5	23	.555 410.0	517	2069	16.2	32	15.7 11000	9	11	.0
6	.60 0.90	88	12684	99.2	15	.033 23.00	758	9528	74.5	24	.827 580.0	408	1552	12.1	33	21.4 15000	2	2	.0
7	.90 1.30	80	12600	98.6	16	.046 32.00	1055	8770	68.6	25	1.20 840.0	299	1144	8.9	34				
8	1.30 1.80	142	12520	97.9	17	.066 46.00	1211	7715	60.3	26	1.71 1200.0	257	845	6.6					



STATION NUMBER 06898400

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

WELDON RIVER NEAR LEON, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1960	0.70 10	0.73 9	0.80 9	0.87 9	1.28 8	15.20 11	48.20 12	55.70 11	86.30 11	195.00 12
1961	0.70 11	0.73 10	1.10 11	2.02 11	3.35 11	4.09 9	6.72 8	19.70 10	21.00 7	86.70 10
1962	1.30 12	1.73 12	2.29 12	3.35 12	4.32 12	31.70 12	40.70 11	59.30 12	124.00 12	148.00 11
1963	0.60 9	0.77 11	0.80 10	0.98 10	1.23 7	4.66 10	5.73 7	8.81 7	19.70 6	62.50 6
1964	0.10 4	0.17 5	0.30 5	0.30 5	0.30 4	0.36 3	0.58 3	0.60 2	1.03 2	7.90 1
1965	0.10 5	0.33 7	0.56 7	0.80 7	1.97 10	2.55 6	2.93 5	7.13 6	28.60 9	62.90 7
1966	0.30 7	0.30 6	0.34 6	0.48 6	0.63 5	3.67 8	7.20 9	16.80 8	27.50 8	64.40 8
1967	0.10 6	0.10 4	0.10 4	0.13 4	0.19 3	0.32 2	0.45 1	0.44 1	0.63 1	11.10 2
1968	0.00 1	0.00 1	0.01 2	0.07 2	0.15 2	0.26 1	0.64 4	0.76 4	1.26 3	47.70 5
1969	0.00 2	0.00 2	0.00 1	0.04 1	0.11 1	0.51 4	0.47 2	0.69 3	1.95 4	28.00 3
1970	0.41 8	0.50 8	0.73 8	0.82 8	0.98 6	2.18 5	5.09 6	5.70 5	7.95 5	41.30 4
1971	0.01 3	0.01 3	0.02 3	0.08 3	1.51 9	2.76 7	16.10 10	17.20 9	67.20 10	84.70 9



## STATION NUMBER 06898400

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

CLOUD RIVER NEAR LEON, IOWA

EAR	1	3	7	15	30	60	90	120	183	ANNUAL
959	16400.0 1	5700.0 1	2460.0 1	1160.0 1	650.0 1	457.0 1	408.0 1	380.0 1	313.0 1	175.0 1
960	3470.0 6	2350.0 3	1220.0 2	598.0 3	467.0 2	308.0 2	229.0 2	197.0 2	166.0 3	104.0 4
961	6620.0 2	2690.0 2	1170.0 3	582.0 4	366.0 4	274.0 3	200.0 3	164.0 4	136.0 4	106.0 3
962	3310.0 7	1580.0 9	714.0 9	572.0 5	351.0 5	246.0 6	174.0 6	172.0 3	170.0 2	114.0 2
963	1100.0 12	710.0 12	443.0 11	323.0 10	243.0 8	154.0 8	114.0 9	93.9 9	68.3 11	41.4 11
964	3310.0 8	1600.0 8	808.0 8	410.0 9	207.0 11	122.0 9	113.0 10	102.0 8	82.0 8	41.6 10
965	3490.0 5	1710.0 7	861.0 7	418.0 8	348.0 6	250.0 5	182.0 5	152.0 5	107.0 5	72.5 5
966	974.0 13	407.0 13	212.0 13	137.0 13	77.7 13	61.7 13	48.1 13	39.4 13	42.9 13	23.9 12
967	2340.0 9	2310.0 4	1170.0 4	694.0 2	461.0 3	255.0 4	183.0 4	140.0 6	93.7 7	47.2 7
968	3910.0 3	1770.0 6	873.0 6	445.0 7	236.0 9	122.0 10	83.0 12	63.7 12	43.0 12	22.3 13
969	2240.0 10	954.0 10	476.0 10	284.0 12	169.0 12	112.0 12	116.0 8	102.0 7	78.0 9	43.9 9
970	3650.0 4	2010.0 5	913.0 5	446.0 6	284.0 7	175.0 7	120.0 7	93.0 10	94.6 6	51.9 6
971	2070.0 11	925.0 11	435.0 12	318.0 11	210.0 10	113.0 11	87.0 11	73.6 11	74.6 10	44.5 8



DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

WELDON RIVER NEAR LEON, IOWA

CLASS	NUMBER OF DAYS IN CLASS																																		CFS_DAYS	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33		34
YEAR																																			64014.4	
1959																																			38018.3	
1960																																			36762.2	
1961																																			41452.2	
1962																																			15102.6	
1963																																			15237.2	
1964																																			26461.5	
1965																																			8740.6	
1966																																			17234.2	
1967																																			8170.7	
1968	26																																			16011.4
1969																																			18951.4	
1970	3	2	4	2	1	1	3	1	14	37	28	38	26	39	23	21	25	24	20	7	12	11	5	4	4	2	3	1	3						16228.8	
1971	4	3	5			17	10	11	14	9	18	9	4	20	41	26	21	50	29	21	14	8	10	9	5	2	2	2								

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	26	4748	100.0	9	0.40	199	4368	92.0	18	15.0	362	1638	34.5	27	580	40	119	2.5
1	0.01	3	4722	99.5	10	0.60	250	4169	87.8	19	22.0	330	1276	26.9	28	870	29	79	1.6
2	0.02	6	4714	99.4	11	0.90	274	3919	82.5	20	34.0	221	946	19.9	29	1300	18	50	1.0
3	0.03	12	4713	99.3	12	1.30	307	3645	76.8	21	50.0	179	725	15.3	30	2000	18	32	.6
4	0.05	8	4701	99.0	13	2.00	322	3338	70.3	22	76.0	125	546	11.5	31	2900	11	14	.2
5	0.07	4	4693	98.8	14	2.90	364	3016	63.5	23	110.0	105	421	8.9	32	4400	1	3	.0
6	0.10	89	4684	98.8	15	4.40	360	2652	55.9	24	170.0	96	316	6.7	33	6600	2	2	.0
7	0.20	94	4600	96.9	16	6.00	330	2292	48.3	25	260.0	52	220	4.6	34				
8	0.30	138	4506	94.9	17	9.90	324	1962	41.3	26	390.0	49	168	3.5					



STATION NUMBER 06903400

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

CHARITON RIVER NEAR CHARITON, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1967	0.10 1	0.10 1	0.13 1	0.16 1	0.24 1	0.35 1	0.41 1	0.55 1	1.03 2	22.30 1
1968	0.43 4	0.46 4	0.70 4	0.83 3	1.01 3	1.18 3	4.73 3	8.09 3	9.18 3	91.80 4
1969	0.28 2	0.29 2	0.30 2	0.33 2	0.49 2	0.64 2	0.62 2	0.69 2	0.95 1	49.50 2
1970	2.80 5	2.90 5	3.27 5	4.74 5	5.91 5	8.57 4	28.00 5	26.20 4	36.70 4	84.90 3
1971	0.35 3	0.37 3	0.44 3	0.92 4	2.58 4	8.80 5	24.30 4	44.60 5	92.90 5	142.00 5



STATION NUMBER 06903400

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

CHARITON RIVER NEAR CHARITON, IOWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1966	1130.0 6	879.0 6	486.0 6	322.0 6	169.0 6	145.0 6	108.0 6	91.1 6	93.3 5	49.7 5
1967	3200.0 3	2380.0 3	1720.0 1	1580.0 1	882.0 1	458.0 1	336.0 1	257.0 1	171.0 2	86.4 2
1968	4380.0 2	2580.0 2	1380.0 2	695.0 2	361.0 2	188.0 4	130.0 4	104.0 4	71.9 6	39.2 6
1969	1350.0 5	1110.0 5	770.0 4	477.0 4	305.0 5	263.0 3	194.0 2	170.0 3	138.0 3	83.2 3
1970	5560.0 1	2850.0 1	1290.0 3	612.0 3	330.0 3	264.0 2	192.0 3	186.0 2	174.0 1	107.0 1
1971	1810.0 4	1260.0 4	665.0 5	383.0 5	310.0 4	167.0 5	118.0 5	97.0 5	110.0 4	63.5 4







STATION\_NUMBER 6-9035.00

LOWEST MEAN DISCHARGE, IN CFS, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR BEGINNING APRIL 1

HONEY CREEK NR. RUSSELL, IOWA

YEAR	1	3	7	14	30	60	90	120	150	183	274
1953	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1954	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.4
1955	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
1956	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4
1957	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.4	0.4	0.5	1.1
1958	0.0	0.0	0.0	0.1	0.4	0.4	2.3	2.0	3.0	3.0	7.3
1959	0.0	0.0	0.0	0.0	0.0	0.4	2.4	3.6	3.7	4.1	5.7
1960	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.7	1.6	1.4	3.3
1961	0.0	0.0	0.0	0.0	0.0	0.4	0.3	0.4	1.2	4.7	8.9



## STATION\_NUMBER 6-9035.00

HIGHEST MEAN DISCHARGE, IN CFS, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

## HONEY CREEK NR. RUSSELL, IDWA

YEAR	1	3	7	15	30	60	90	120	150	183	274
1953	287.0	196.0	90.1	54.9	40.7	26.3	19.4	15.3	13.3	11.2	8.1
1954	49.0	22.9	12.1	6.5	3.3	2.3	1.5	1.2	1.0	0.8	0.5
1955	64.0	31.0	18.2	13.7	7.7	4.9	3.9	3.0	2.7	2.2	1.5
1956	80.0	50.8	22.3	19.0	11.9	6.3	4.2	3.2	2.5	2.1	1.4
1957	139.0	67.0	33.6	17.6	14.2	10.6	8.4	6.5	5.3	4.4	2.9
1958	312.0	184.0	83.8	51.2	42.3	24.2	18.7	14.3	12.4	11.0	8.4
1959	1100.0	463.0	217.0	131.0	70.6	47.2	46.2	40.1	33.4	27.6	19.3
1960	920.0	540.0	270.0	131.0	82.7	70.5	50.3	39.3	32.5	28.9	21.2
1961	300.0	134.0	94.9	70.2	55.5	32.8	23.5	17.9	14.4	12.7	10.1
1962	370.0	153.0	102.0	74.8	46.0	40.4	28.3	23.2	26.7	22.9	17.6



STATION\_NUMBER 6-9035.00  
DURATION TABLE OF DAILY DISCHARGE

HONEY CREEK NR. RUSSELL, IOWA

YEAR	CLASS																																		CFS_DAYS		
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33		34	
	NUMBER OF DAYS IN CLASS																																				
1953	131	10	4	7	7	18	40	23	33	15	16	13	6	13	8	4	2	4	2	4	3			1	1												2215.0
1954	318	2	8	7	3	2	3	7	4	2	2	2	2	1	1					1																	150.1
1955	215	14	16	14	12	4	24	18	12	12	5	4	4	3	2	3	2		1																	463.0	
1956	340	3		2			3	1	3	3		3	1	1	1		1		2	2																380.6	
1957	257	10	6	5	5	7	5	9	10	10	14	7	4	3	6	2		1	1	1	1	1														804.5	
1958	31	27	21	37	20	22	46	48	31	22	15	12	6	2	7	2	2	3	2	3	2			3	1											2376.1	
1959	52	30	25	27	26	24	23	11	12	18	18	13	11	11	12	12	9	3	6	8	6	3	2	1	1											5509.9	
1960	45	9	3	12	5	6	28	58	38	48	30	17	9	7	6	8	10	6	4	3	2	5	2	1	2	1										5881.8	
1961	95	8	17	27	27	13	21	31	24	14	21	16	8	6	3	8	5	5	4	4	2	2	3	1												3008.4	
1962	41	30	10	13	7	2	14	20	37	40	35	17	19	12	14	12	12	4	5	7	6	4	2	1	1											4959.8	

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	1525	3652	100.0	9	2.50	184	876	23.9	18	49.0	28	123	3.3	27	920	2	2	.0
1	0.10	143	2127	58.2	10	3.50	156	692	18.9	19	68.0	32	95	2.6	28				
2	0.20	110	1984	54.3	11	5.00	104	536	14.6	20	94.0	22	63	1.7	29				
3	0.30	151	1874	51.3	12	7.00	70	432	11.8	21	130.0	15	41	1.1	30				
4	0.50	112	1723	47.1	13	9.60	59	362	9.9	22	180.0	13	26	0.7	31				
5	0.70	98	1611	44.1	14	13.00	60	303	8.2	23	250.0	6	13	0.3	32				
6	0.90	207	1513	41.4	15	19.00	51	243	6.6	24	350.0	4	7	0.1	33				
7	1.30	226	1306	35.7	16	26.00	43	192	5.2	25	480.0	1	3	0.0	34				
8	1.80	204	1080	29.5	17	36.00	26	149	4.0	26	660.0	0	2	0.0					



STATION NUMBER 06903900

LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

CHAPITON RIVER NEAR RATHBUN, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
1950	0.10 1	0.10 1	0.10 1	0.13 1	1.08 2	7.49 6	9.69 6	11.70 6	15.60 4	112.00 3
1959	2.10 10	2.83 12	4.06 13	5.50 14	14.40 13	22.90 11	70.50 12	63.40 11	110.00 10	309.00 8
1960	2.20 11	2.47 9	2.74 9	3.80 10	10.90 11	53.60 13	121.00 14	154.00 14	157.00 12	616.00 13
1961	0.30 4	0.43 4	1.14 5	1.59 4	6.64 10	12.50 10	29.00 10	49.40 9	56.00 7	505.00 12
1962	2.70 13	2.87 13	3.59 12	4.64 13	13.80 12	53.70 14	119.00 13	123.00 13	350.00 14	682.00 14
1963	2.70 14	2.77 11	3.21 10	4.49 12	24.40 14	27.20 12	64.00 11	84.40 12	148.00 11	312.00 9
1964	0.20 3	0.20 3	0.24 2	0.42 2	0.63 1	3.47 2	3.42 2	3.85 2	6.79 2	37.70 1
1965	2.30 12	2.50 10	2.59 8	3.36 8	5.77 8	9.09 9	12.80 8	41.60 7	73.00 8	265.00 7
1966	1.10 8	1.33 6	1.67 6	2.17 6	2.32 4	5.60 4	11.90 7	48.00 8	164.00 13	347.00 11
1967	0.10 2	0.17 2	0.30 3	1.20 3	1.28 3	1.63 1	2.78 1	2.81 1	5.33 1	81.60 2
1968	1.00 6	1.43 7	3.59 11	3.74 9	4.38 6	8.56 8	25.80 9	55.60 10	87.10 9	316.00 10
1969	1.40 9	1.80 8	1.80 7	2.18 7	3.34 5	4.95 3	5.24 3	6.92 3	8.03 3	190.00 6
1970	1.10 7	4.13 14	4.29 14	4.44 11	5.39 7	6.47 5	6.73 4	7.21 4	32.10 5	178.00 5
1971	0.90 5	0.96 5	1.01 4	1.90 5	5.99 9	7.70 7	8.57 5	9.72 5	42.30 6	177.00 4



HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

CHARITON RIVER NEAR RATHBUN, IOWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1957	1410.0 14	1260.0 14	951.0 14	507.0 14	345.0 14	274.0 14	254.0 14	203.0 14	138.0 14	69.8 14
1958	2010.0 11	1890.0 10	-1700.0 10	1100.0 11	739.0 12	483.0 11	419.0 12	322.0 12	273.0 11	168.0 11
1959	14200.0 2	10300.0 2	5790.0 2	4410.0 2	2580.0 2	1680.0 2	1610.0 2	1410.0 1	977.0 3	535.0 3
1960	19000.0 1	15600.0 1	9180.0 1	4720.0 1	2910.0 1	2260.0 1	1660.0 1	1310.0 2	1030.0 1	577.0 2
1961	10000.0 4	7650.0 5	4440.0 5	2270.0 6	1780.0 6	1160.0 6	857.0 6	658.0 6	501.0 6	369.0 5
1962	11200.0 3	8330.0 3	4940.0 4	3100.0 4	2470.0 4	1520.0 3	1060.0 3	996.0 3	1010.0 2	622.0 1
1963	4060.0 7	3150.0 8	2150.0 9	-1880.0 7	1470.0 7	840.0 7	616.0 7	493.0 7	398.0 7	230.0 8
1964	4060.0 8	3780.0 7	2750.0 7	-1710.0 9	918.0 10	483.0 12	421.0 11	329.0 11	271.0 12	139.0 13
1965	9310.0 5	8290.0 4	5680.0 3	2850.0 5	2000.0 5	1230.0 5	937.0 5	767.0 5	547.0 4	394.0 4
1966	2140.0 10	-1780.0 11	1260.0 12	889.0 13	515.0 13	417.0 13	303.0 13	264.0 13	289.0 10	157.0 12
1967	8240.0 6	5510.0 6	4260.0 6	3830.0 3	2510.0 3	1330.0 4	1020.0 4	735.0 4	526.0 5	267.0 6
1968	2380.0 9	2350.0 9	2250.0 8	-1850.0 8	1220.0 8	668.0 9	460.0 10	382.0 10	263.0 13	169.0 10
1969	1460.0 12	1460.0 12	1430.0 11	1100.0 10	831.0 11	503.0 10	473.0 8	427.0 8	386.0 8	238.0 7
1970	590.0 15	489.0 15	360.0 15	225.0 15	208.0 15	111.0 15	70.9 15	59.4 15	42.3 15	37.2 15
1971	1450.0 13	1400.0 13	1010.0 13	1010.0 12	994.0 9	687.0 8	469.0 9	410.0 9	348.0 9	194.0 9



DURATION TABLE OF DAILY DISCHARGE FOR YEAR ENDING SEPTEMBER 30

CHAMPTON RIVER NEAR RATHBUN, IOWA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34			
EAR	NUMBER OF DAYS IN CLASS																																		CFS_DAYS			
957		17	6	35	44	38	23	26	18	28	17	15	8	8	7	7	6	11	9	11	7	4	10	4	5	1											25485.7	
958	11	4	2	4	1	1		2	7	20	30	24	28	28	34	41	25	17	13	18	14	6	6	2	13	13	1										61375.6	
959								3	14	10	8	19	31	46	25	23	20	17	7	13	16	16	14	16	22	19	16	3	4	1	1	1				195301.9		
960								2	7	9	6	11	6	4	29	20	38	44	32	36	24	21	15	13	10	13	11	6	3	3	1	1	1			211108.5		
961			1	1	3	2	3	5	8	22	16	19	32	41	18	23	17	19	13	24	19	17	8	8	14	16	8	5	1	1	1					134656.3		
962									8	2	6	13	12	23	19	14	10	36	27	47	29	16	19	12	19	20	18	6	3	4	2					227173.0		
963								2	7	25	23	22	9	8	32	32	30	29	34	19	20	16	10	9	7	11	17	1	2							84062.5		
964		4	3	4	20	13	23	27	17	22	33	25	26	19	17	16	16	15	10	13	7	8	4	7	5	6	1	3								50764.2		
965						1	6	16	17	4	24	56	25	24	17	17	12	13	17	25	15	17	8	12	16	4	4	9	3	1	2					143863.5		
966					2	2	3	5	10	13	24	12	20	22	46	56	33	24	21	15	10	11	6	13	11	5	1									57338.4		
967		1	2	2	1	2	27	34	29	12	27	25	23	15	14	27	19	17	8	13	7	9	11	8	5	7	6	2	7	4	1					97564.8		
968						1	2	11	11	15	22	20	45	30	45	44	24	22	7	15	13	3	5	9	11	3	8										61790.8	
969							7	11	30	32	9	3	12	15	25	13	17	22	25	29	25	19	23	26	17	5											87640.1	
970						13				62	52	122	34	17	9	5	8	15	3	3	14	3	5															13590.9
971										11	81	86	1	61	2	1	14			8	23	8	31	4	32	2											70820.6	

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	5478	100.0	9	2.70	184	4963	90.6	18	73.0	311	2005	36.6	27	2000	71	151	2.7
1	0.10	12	5478	100.0	10	3.90	289	4779	87.2	19	110.0	216	1694	30.9	28	2800	41	80	1.4
2	0.20	27	5466	99.8	11	5.60	305	4490	82.0	20	150.0	284	1478	27.0	29	4100	18	39	.7
3	0.30	14	5439	99.3	12	8.10	452	4185	76.4	21	220.0	241	1194	21.8	30	5900	11	21	.3
4	0.40	45	5425	99.0	13	12.00	388	3733	68.1	22	320.0	170	953	17.4	31	8600	7	10	.1
5	0.50	72	5380	98.2	14	17.00	324	3345	61.1	23	460.0	171	783	14.3	32	12000	2	3	.0
6	0.90	98	5308	96.9	15	24.00	411	3021	55.1	24	660.0	138	612	11.2	33	18000	1	1	.0
7	1.30	103	5210	95.1	16	35.00	330	2610	47.6	25	950.0	193	474	8.7	34				
8	1.90	144	5107	93.2	17	51.00	275	2280	41.6	26	1400.0	130	281	5.1					



LOWEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING MARCH 31

CHARITON RIVER NEAR CENTERVILLE, IOWA

YEAR	1	3	7	14	30	60	90	120	183	ANNUAL
	0.7 8	1.0 8	1.2 8	1.2 8	1.6 6	1.9 5	2.5 5	2.4 4	3.4 4	173.0 C E
1940	0.7 8	1.0 8	1.2 8	1.2 8	1.6 6	1.9 5	2.5 5	2.4 4	3.4 4	173.0 C E
1941	0.1 1	0.1 1	0.2 1	0.7 6	1.1 4	1.4 4	2.1 4	3.2 5	26.5 9	86.5 3
1942	0.3 5	0.6 7	0.9 7	1.2 7	3.8 12	25.9 15	87.0 18	144.0 18	160.0 17	321.0 C 13
1943	8.0 15	8.0 19	8.3 19	9.5 18	28.2 19	45.1 18	68.3 16	107.0 16	179.0 18	264.0 C 5
1944	2.1 13	2.1 13	2.3 13	2.8 13	4.5 13	11.3 11	16.4 12	14.7 10	40.4 10	428.0 C 15
1945	4.9 17	5.1 17	5.5 16	6.8 15	10.6 16	43.9 17	84.6 17	182.0 20	222.0 19	697.0 C 19
1946	5.8 18	6.2 18	6.5 18	7.7 17	8.6 14	13.5 13	54.6 14	60.7 14	79.4 13	653.0 C 18
1947	12.0 20	13.2 20	16.5 20	27.9 20	58.7 20	130.0 20	165.0 20	161.0 19	242.0 20	582.0 C 17
1948	1.4 10	1.4 10	1.7 10	2.2 11	2.6 10	4.4 10	5.0 7	5.8 8	19.0 7	818.0 C 20
1949	1.5 11	1.5 11	1.5 9	1.6 9	1.9 7	3.3 8	5.0 8	5.4 7	5.3 6	158.0 C 6
1950	2.5 14	3.0 14	4.6 14	6.1 14	9.5 15	23.9 14	27.1 13	39.7 13	125.0 15	317.0 C 12
1951	1.8 12	1.8 12	1.9 12	2.0 10	2.1 8	2.7 7	3.0 6	3.2 6	6.1 5	315.0 C 11
1952	4.2 16	4.4 16	5.0 15	7.3 16	12.4 17	50.2 19	66.2 15	110.0 17	111.0 14	485.0 C 16
1953	1.3 9	1.3 9	1.8 11	2.3 12	2.8 11	3.6 9	14.9 11	24.2 12	45.2 11	267.0 C 10
1954	0.2 2	0.3 4	0.5 5	0.6 5	0.9 3	1.2 3	1.4 3	1.6 3	1.6 2	111.0 C 4
1955	0.5 7	0.5 6	0.5 6	0.5 2	1.3 5	2.6 6	10.7 9	10.3 9	61.6 12	122.0 C 5
1956	0.3 6	0.3 5	0.4 4	0.5 3	0.6 2	0.8 2	0.8 1	0.8 1	1.1 1	38.6 1
1957	0.2 3	0.2 2	0.2 2	0.3 1	0.4 1	0.5 1	0.9 2	1.2 2	1.8 3	40.1 2
1958	0.2 4	0.2 3	0.3 3	0.6 4	2.2 9	11.7 12	13.6 10	16.4 11	23.0 8	160.0 C 7
1959	2.7 15	3.7 15	6.3 17	11.4 19	20.1 18	30.3 16	92.4 19	81.8 15	153.0 16	411.0 C 14



STATION\_NUMBER 6-9040.00

HIGHEST MEAN DISCHARGE, IN CFS, AND RANKING, FOR THE FOLLOWING NUMBER OF CONSECUTIVE DAYS IN YEAR ENDING SEPTEMBER 30

CHARITON RIVER NEAR CENTERVILLE, IOWA

YEAR	1	3	7	15	30	60	90	120	183	ANNUAL
1939	14000.0 3	11100.0 3	6990.0 3	3800.0 5	2930.0 7	1400.0 7	948.0 8	809.0 9	638.0 9	326.0 11
1940	2080.0 18	1900.0 17	1140.0 18	796.0 18	517.0 18	323.0 19	250.0 18	192.0 19	156.0 19	60.0 15
1941	3260.0 15	2520.0 16	1620.0 16	1090.0 17	569.0 17	325.0 18	222.0 19	229.0 18	161.0 18	103.0 17
1942	3860.0 13	3600.0 13	2680.0 14	1730.0 14	1190.0 13	698.0 14	575.0 15	569.0 12	482.0 12	366.0 8
1943	8120.0 8	7000.0 8	5900.0 7	3690.0 6	2660.0 5	1880.0 4	1320.0 6	1050.0 6	845.0 6	503.0 5
1944	10900.0 6	8230.0 7	5740.0 8	3090.0 4	2980.0 2	2230.0 2	1710.0 3	1390.0 3	937.0 5	498.0 6
1945	11600.0 5	8900.0 6	6480.0 5	3560.0 8	2070.0 6	1620.0 6	1390.0 5	1330.0 4	1010.0 4	556.0 4
1946	19800.0 1	15400.0 1	9880.0 1	5050.0 1	2930.0 3	1770.0 5	1420.0 4	1240.0 5	1090.0 3	741.0 2
1947	17400.0 2	11800.0 2	7400.0 2	4890.0 3	4670.0 1	2600.0 1	2570.0 1	2150.0 1	1480.0 1	607.0 1
1948	3600.0 14	3370.0 14	2960.0 12	1840.0 12	1610.0 9	1030.0 10	764.0 11	579.0 11	395.0 13	204.0 15
1949	4490.0 10	4150.0 10	3300.0 10	1800.0 13	1120.0 14	867.0 12	619.0 13	527.0 14	590.0 11	317.0 12
1950	9960.0 7	8940.0 5	6030.0 6	3630.0 7	1950.0 8	1220.0 8	899.0 9	805.0 10	680.0 6	364.0 5
1951	4780.0 9	4340.0 9	2730.0 13	1960.0 10	1330.0 12	1180.0 9	1080.0 7	945.0 7	738.0 7	379.0 7
1952	4450.0 11	4030.0 12	3410.0 9	2580.0 9	1500.0 10	919.0 11	809.0 10	838.0 8	611.0 10	357.0 10
1953	4300.0 12	4080.0 11	3220.0 11	1850.0 11	1350.0 11	863.0 13	675.0 12	537.0 13	392.0 14	205.0 14
1954	876.0 21	722.0 21	476.0 21	306.0 21	178.0 21	147.0 21	106.0 21	61.3 21	62.7 21	32.3 21
1955	2000.0 20	1580.0 19	1250.0 17	1160.0 16	686.0 16	443.0 16	337.0 17	261.0 17	190.0 17	125.0 16
1956	2060.0 19	1830.0 18	984.0 20	750.0 19	429.0 20	231.0 20	156.0 20	118.0 20	77.6 20	39.5 20
1957	2180.0 17	1460.0 20	1080.0 19	597.0 20	474.0 19	363.0 17	347.0 16	293.0 16	200.0 16	102.0 16
1958	2900.0 16	2580.0 15	2500.0 15	1650.0 15	1070.0 15	653.0 15	577.0 14	443.0 15	368.0 15	230.0 13
1959	13200.0 4	11000.0 4	6590.0 4	4930.0 2	2900.0 4	1930.0 3	1940.0 2	1720.0 2	1210.0 2	666.0 3



STATION\_NUMBER 6-9040.00

DURATION TABLE OF DAILY DISCHARGE

CHAPITON RIVER NEAR CENTERVILLE, IOWA

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	CFS_DAYS			
YEAR	NUMBER OF DAYS IN CLASS																																						
1939	1		1	2	5	9	10	6	29	25	44	29	20	17	20	26	13	12	17	19	8	6	9	8	7	6	5	6	1	2					2	115001.9 29262.8			
1940	1	1	1	2	3	19	43	56	35	22	21	16	7	9	16	18	20	15	14	18	3	9	8	5													37600.0 134272.0 183468.0 182115.0 217465.7		
1941	3		2	2	3	19	35	24	21	20	24	24	25	12	25	45	21	10	9	11	4	6	3	4	6	3	3	1									270462.5 294523.2 74514.5 115574.4 132711.3		
1942												8	8	11	24	24	49	36	50	32	33	15	20	9	15	18	7	6											
1943												15	8	9	16	23	48	42	50	36	24	22	22	9	4	10	10	3	9	5									
1944									6	7	8	38	39	48	26	18	17	7	8	19	22	16	13	12	10	10	12	12	8	5	3	2							
1945												18	19	16	13	12	16	36	28	25	31	26	27	21	13	17	12	16	11	4	3	1							
1946													15	20	16	27	25	34	45	30	30	19	16	14	9	13	13	13	12	5	3	3	2	1					
1947									6	4	22	18	7	6	6	5	27	19	33	39	34	21	18	16	10	7	20	25	7	4	3	6	1	1					
1948										5	18	22	25	49	50	20	29	25	12	12	17	16	15	9	11	5	4	3	3	10	6								
1949										18	19	27	11	8	15	29	21	28	29	13	27	16	17	14	12	10	9	11	10	14	5	2							
1950										6	7	16	13	25	30	21	27	16	23	25	28	25	18	25	12	10	9	17	6	2			2	2					
1951											5	52	33	33	9	17	14	8	13	14	7	16	6	30	10	14	19	14	16	11	17	4	3						
1952												2	13	7	18	16	9	18	28	32	34	49	35	21	20	21	8	7	8	9	9	2							
1953																																							
1954																																							
1955																																							
1956																																							
1957																																							
1958																																							
1959																																							

CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT	CLASS	CFS	TOTAL	ACCUM	PERCT
0	0.00	0	7570	100.0	9	2.70	325	6470	84.4	18	72.0	439	3079	40.1	27	1900	189	374	4.8
1	0.10	5	7670	100.0	10	3.90	269	6145	80.1	19	100.0	467	2640	34.4	28	2800	100	185	2.4
2	0.20	15	7665	99.9	11	5.60	323	5876	76.6	20	150.0	439	2173	28.3	29	4000	39	85	1.1
3	0.30	17	7650	99.7	12	8.00	405	5553	72.4	21	220.0	294	1734	22.6	30	5800	22	46	.5
4	0.40	83	7633	99.5	13	12.00	385	5148	67.1	22	310.0	282	1440	18.8	31	8400	16	24	.3
5	0.60	186	7550	98.4	14	17.00	374	4763	62.1	23	450.0	248	1158	15.1	32	12000	6	8	.1
6	0.90	222	7364	96.0	15	24.00	429	4389	57.2	24	650.0	174	910	11.9	33	17000	2	2	.0
7	1.30	297	7142	93.1	16	35.00	429	3960	51.6	25	930.0	170	736	9.6	34				
8	1.90	375	6845	89.2	17	50.00	452	3531	46.0	26	1300.0	192	566	7.4					



