## IOWA DEPARTMENT OF AGRICULTURE AND LAND STEWARDSHIP



Mike Naig, Secretary of Agriculture www.IowaAgriculture.gov Henry A. Wallace Building 502 E. 9th Street, Des Moines, IA 50319

## IOWA ANNUAL WEATHER SUMMARY - 2017

<u>General Summary</u>. 2017 temperatures averaged 49.9° or 1.8° above normal while precipitation totaled 33.10 inches or 2.17 inches less than normal. This ranks as the 9<sup>th</sup> warmest and 61<sup>st</sup> wettest year among 145 years of records. A warmer year was recorded just last year while a drier one in 2012. Snowfall averaged 18.9 inches or 13.3 inches less than normal. This was the least snowy calendar year since 2006 and ranks 11<sup>th</sup> least among 130 years of records.

Temperatures. Above normal temperatures were persistent through 2017 with only two calendar months (May and August) falling below the historical median. The most unusual temperatures arrived in February when readings reached seventy degrees or higher somewhere in the state on eight days during the month, double the previous maximum frequency of such temperatures for February. Temperatures averaged an amazing 18.3 degrees above normal for the two weeks ending February 23<sup>rd</sup>. The most noteworthy streak of unseasonably cool weather came from July 28 through September 8 when only six days averaged warmer than normal (and just barely at that) over this 43 day period. This cool spell helped crops cope with a rather dry summer with surprisingly high yields in most areas. Despite this extended late summer cool spell the year averaged 19 days with daily temperatures above 90 degrees, three more days than normal and the highest total since 2013. Subzero cold occurred an average of just 10 days, eight less than normal and the smallest annual total since 2012. Annual temperature extremes varied from highs of 101°at Ottumwa on July 20 and at Des Moines the next day to a low of -24° recorded at midnight on New Year's Eve at Sioux City. Overall, warmer than normal days outnumbered cooler ones by a count of 220 to 145.

Precipitation. Precipitation totals were generally near to slightly above normal for the first five months of the year. Hefty April rainfall resulted in considerable planting delays in some areas, particularly in south central lowa. Much drier weather began in late May and persisted across most of lowa through mid-August. Drought conditions began to appear in south central lowa in mid-June, spread to west central and southeast lowa in early July and reached its maximum extent in mid-August when 45% of the state (a diagonal area from northwest, to central, to southeast lowa) was classified as in drought. Portions of 13 south central and southeast lowa counties were classified as 'extreme' drought in August and/or September. Rain became much more frequent over western lowa in mid-August with shortterm dryness becoming most apparent in far eastern Iowa by September. The first two weeks of October were very wet across most of the state and greatly slowed early harvest progress. However, a very dry weather pattern prevailed statewide from mid-October through the end of the year with only about one-third of normal precipitation falling in this period. Annual precipitation totals were more than ten inches below normal over much of south central and southeast lowa, covering much the same area that was unusually dry in 2016. Annual precipitation totals varied 47.21 inches at Fayette (9.48 inches above normal) to only 24.33 inches at Oskaloosa (13.89 inches less than normal and their lowest annual total since 1988). Above normal annual precipitation totals were mostly confined to west central and northeast lowa. There were some very heavy rains in 2017 with the largest event coming

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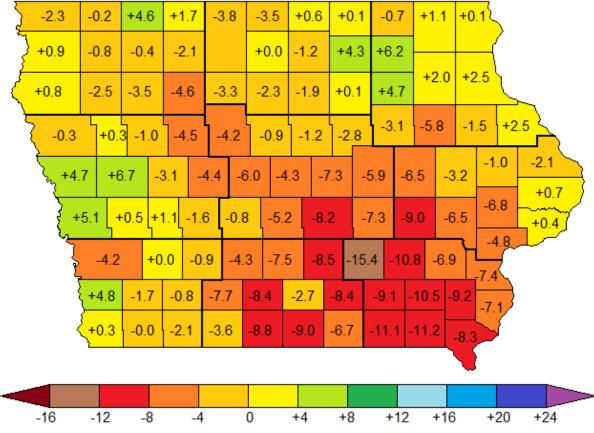
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on the night of July 21 when 9.52 inches of rain (nearly six inches of which fell in just two hours) fell overnight at Ionia in Chickasaw County.

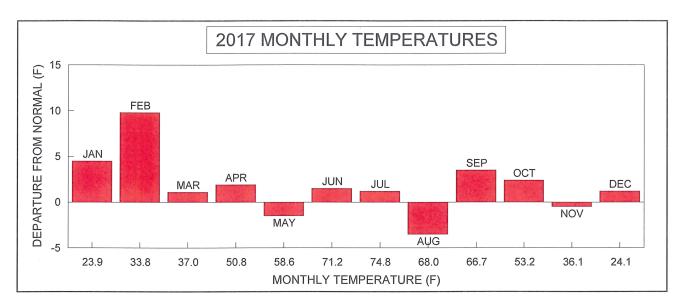
<u>Severe Weather</u>. Severe thunderstorm activity got off to a very early start with one short-lived tornado in Clinton County on the evening of February 28. A March record of 18 tornadoes touched down on the evening of March 6 with greatest damage resulting from an EF-2 tornado at Seymour in Wayne County. However, no strong tornadoes (EF-2 or stronger) occurred again in the state until June 28. Overall the National Weather Service reports a preliminary annual tornado count of 55 storms, slightly more than the recent annual average of 47.

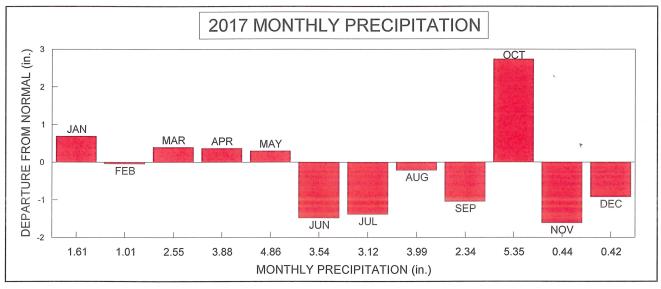
Harry J. Hillaker State Climatologist Iowa Dept. of Agriculture & Land Stewardship Wallace State Office Bldg. Des Moines, IA 50319 Telephone; (515) 281-8981 E-mail: Harry.Hillaker@IowaAgriculture.gov

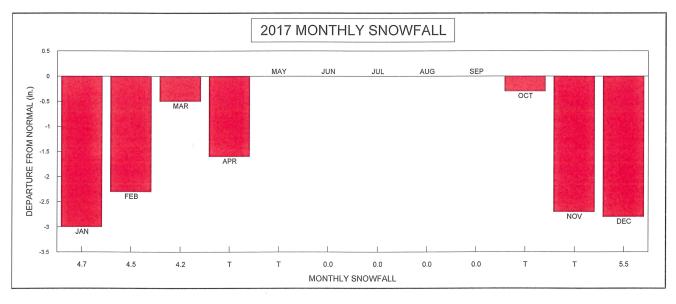
> State Climatologist, Iowa Dept. of Agriculture & Land Stewardship PRECIPITATION TOTALS, DEPARTURE FROM NORMAL, 2017 (inches)



The Iowa Department of Agriculture and Land Stewardship is an equal opportunity employer and provider.







		201	7 STAT		IONTHLY	TEMPE	RAT	URE EX	TREME	S		STA	TEWIDE N	IONTHI	_Y RANK^
MONTH	MAX	-	DAY		TION	MIN TE		DAY		CATIO	N		PERATURE		
JANUARY		58	30th	Shenand	loah		-14	6th	Cresc			28th	warmest	23rd	wettest
							-14 -14	6th	North						
							-14 -14	6th 8th	Cresc						
FEBRUARY		79	22nd	Ottumwa	Arnt		-3	9th	Littl		u v	3rd	warmest	72nd	wettest
MARCH		84	19th	Sidney	AIPU		-9	15th	Esthe				warmest		wettest
MARCII	-	04	I J CII	Staney			-9	15th	Fores			57011	walinest	4001	wellest
	-						-9	15th	Spenc		-				
							-9	15th	Stanl		pe				
APRIL		84	19th	Lamoni			20	7th	Battl	-	ek	23rd	warmest	35th	wettest
MAY		94	8th	Little	Sioux		27	2nd	Chero				coolest		wettest
		94		Shenand			27	2.1.0	011010			0 5 011	0001000	11011	
JUNE		97	13th	Little	Sioux		40	1st	Cresc	0		23rd	warmest	38th	driest
			15th	Lamoni			40	1st	Elkader		2010 Walmebe				
				Little Sioux			40	1st	Grinnell						
							40	27th	Battl	e Cre	ek				
							40	27th	Grinn	ell					
JULY		101	20th	Ottumwa	a Arpt		46	1st	Sheld	on		44th	warmest	51st	driest
		101	21st	Des Moi	nes AP										
AUGUST		93	2nd	Donnell	son		44	12th	Chari	ton		15th	coolest	61st	wettest
		93	10th	Keosauq	lua		44	23rd	Stanl	еу					
SEPTEMBER		95	23rd	Iowa Ci	ty AP		35	7th	Stanl	еу		15th	warmest	45th	driest
							35	30th	Cresc	0					
OCTOBER		88	2nd	Burling	gton		14	28th	Littl	e Sic	ux	34th	warmest	4th	wettest
		88	2nd	Indianc	la		14	31st	Sheld	on					
		88	2nd	Iowa Ci	ty AP		14	31st	Spenc	er Ar	pt				
		88	2nd	Oskaloc	sa										
		88	2nd	Ottumwa	a Arpt										
	1	00					6	22nd	Esthe	rvill	е	68th	warmest	15th	driest
NOVEMBER	<u> </u>	74	24th	Iowa Ci	ty AP		ю	00110							
NOVEMBER			24th	Iowa Ci	ty AP		6	22nd	Littl	e Sic	ux				
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DECEMBER 26.3 30 29	.1 .1 .9.4 .36.1 .38. 	74 70 70 28.9 29.5 28.2 33.3 39 8 3 31.2 38.9	4th 4th State C CC 34.1 29.6 33.0 5 33.0 5 33.0 4.0 3 4.0 3 4.0 3 4.0 3 4.0 3 4.0 3 4.0 3	Indianc Lamoni *Rani Climatolo DUNTY I 32.4 30.3 29.0 28.5 31.2 2 35.7 35. 6.9 34 34.2	xings b gist, low PRECII 28.0 30.2 31.5 9.7 3 .2 33.4 1.4 30. 28.0	ased up ased up 73 Dept. PITATIC 30.9 33.6 31.4 35.1 1.1 3 5 30.7 5 30.7 6 28.8	6 -24 on 1 of A DN - 34. 34. 34. 34. 8 34.8	22nd 31st 45 yek Sgricul TOTA .9 36 0 33 .6 3 5.2 3 30.0 27.7 28.3 3 29	Sioux         ars of         ars of<	City City Cat Land City City City City City City City City	AP A. Stew inch 36 30 30 9.9 7.8 22 22 22	vardsl es) .8 3 .7 : .7 : .7 : .7 : .7 : .34.4 .31.7 .29.9 .29.9	hip 5.9 37.9 35.1 3: 4 36.8 4 31.3 33.7 29.3 2 32.2	8.6 33.8 37	3
DECEMBER 26.3 30 29	.1 .1 .9.4 .36.1 .38. 	74 70 70 28.9 29.5 28.2 33.3 39 8 3 31.2 38.9	4th 4th State C CC 34.1 29.6 33.0 5 33.0 5 33.0 4.0 3 4.0 3 4.0 3 4.0 3 4.0 3 4.0 3 4.0 3	Indianc Lamoni *Rani Climatolo DUNTY I 32.4 30.3 29.0 28.5 31.2 2 35.7 35. 6.9 34 34.2	xings b gist, low PRECII 28.0 30.2 31.5 9.7 3 .2 33.4 1.4 30. 28.0	ased up ased up 73 Dept. PITATIC 30.9 33.6 31.4 35.1 1.1 3 5 30.7 5 30.7 6 28.8	6 -24 on 1 of A DN - 34. 34. 34. 34. 8 34.8	22nd 31st 45 yek Sgricul TOTA .9 36 0 33 .6 3 5.2 3 30.0 27.7 28.3 3 29	Sioux         ars of         ars of<	City City Cat Land City City City City City City City City	AP A. Stew inch 36 30 30 9.9 7.8 22 22 22	vardsl es) .8 3 .7 : .7 : .7 : .7 : .7 : .34.4 .31.7 .29.9 .29.9	hip 5.9 37.9 35.1 3: 4 36.8 4 31.3 33.7 29.3 2 32.2	8.6 33.8 37	3
DECEMBER 26.3 30 29	.1 .1 .9.4 .36.1 .38. 	74 70 70 28.9 29.5 28.2 33.3 39 8 3 31.2 38.9	4th 4th State C CC 34.1 29.6 33.0 5 33.0 5 33.0 4.0 3 4.0 3 4.0 3 4.0 3 4.0 3 4.0 3 4.0 3	Indianc Lamoni *Rani Climatolo DUNTY I 32.4 30.3 29.0 28.5 31.2 2 35.7 35. 6.9 34 34.2	xings b gist, low PRECII 28.0 30.2 31.5 9.7 3 .2 33.4 1.4 30. 28.0	ased up ased up 73 Dept. PITATIC 30.9 33.6 31.4 35.1 1.1 3 5 30.7 5 30.7 6 28.8	6 -24 on 1 of A DN - 34. 34. 34. 34. 8 34.8	22nd 31st 45 yek Sgricul TOTA .9 36 0 33 .6 3 5.2 3 30.0 27.7 28.3 3 29	Sioux         ars of         ars of<	City City Cat Land City City City City City City City City	AP A. Stew inch 36 30 30 9.9 7.8 22 22 22	vardsl es) .8 3 .7 : .7 : .7 : .7 : .7 : .34.4 .31.7 .29.9 .29.9	hip 5.9 37.9 35.1 3: 4 36.8 4 31.3 33.7 29.3 2 32.2	8.6 33.8 37	3
DECEMBER 26.3 30 29	.1 .1 .9.4 .36.1 .38. 	74 70 70 28.9 29.5 28.2 33.3 39 8 3 31.2 38.9	4th 4th State C CC 34.1 29.6 33.0 5 33.0 5 33.0 4.0 3 4.0 3 4.0 3 4.0 3 4.0 3 4.0 3 4.0 3	Indianc Lamoni *Rani Climatolo DUNTY I 32.4 30.3 29.0 28.5 31.2 2 35.7 35. 6.9 34 34.2	ela kings b gist, low PRECII 28.0 30.2 31.5 9.7 3 4.4 30.2 33.0 33.0	ased up ased up 73 Dept. PITATIC 30.9 33.6 31.4 35.1 1.1 3 5 30.7 5 30.7 6 28.8	6 -24 on 1 of A DN - 34. 34. 34. 34. 8 34.8	22nd 31st 45 ye Agricul TOTA 9 30 0 3 0 3 5.2 3 30.0 27.7 28.3 9 31 29 31 30.0 27.7	Sioux         ars of         ars of<	City City Cat Land City City City City City City City City	AP A. Stew inch 36 30 30 9.9 7.8 22 22 22	vardsl es) .8 3 .7 : .7 : .7 : .7 : .7 : .34.4 .31.7 .29.9 .29.9	hip 5.9 37.9 35.1 3: 4 36.8 4 31.3 33.7 29.3 2 32.2	8.6 33.8 37	3