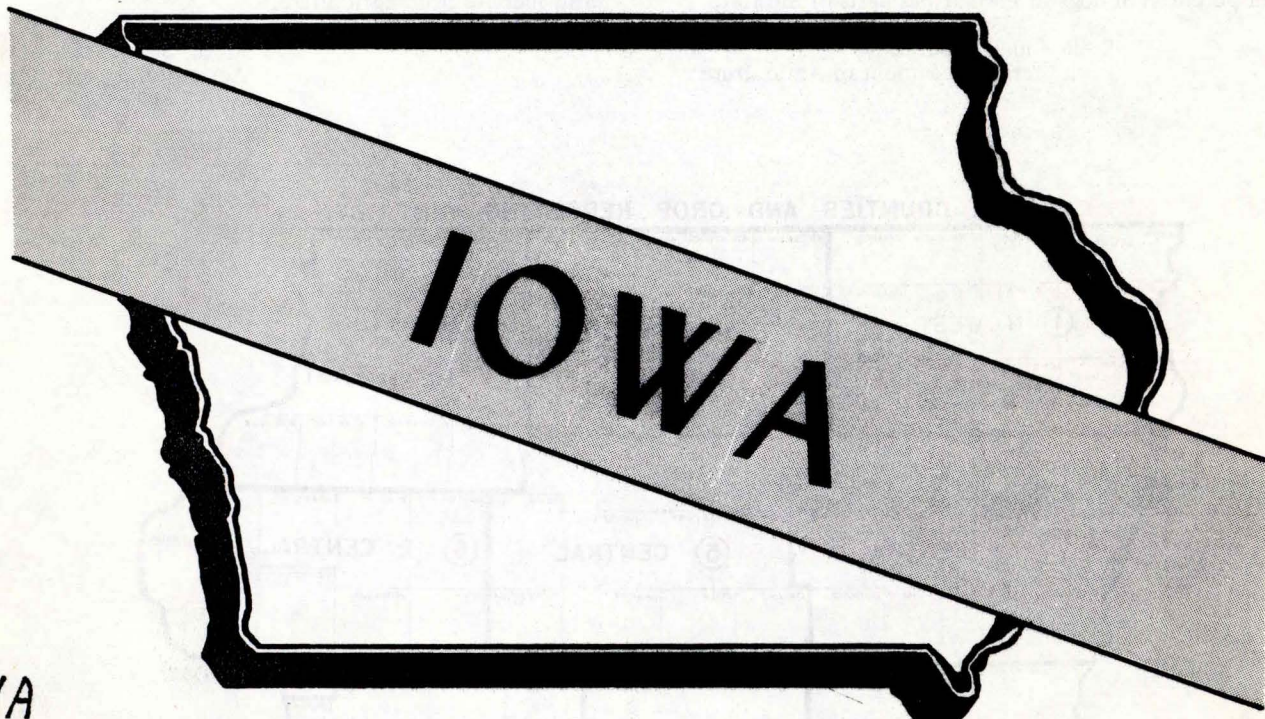


HD
1751
.A5
1966

PIG CROPS

GEOGRAPHIC PATTERNS
IN



IOWA
636.4
IOW
1966

1966

Iowa Crop And Livestock Reporting Service
U. S. DEPARTMENT OF AGRICULTURE | IOWA DEPARTMENT OF AGRICULTURE
Statistical Reporting Service | Division of Agricultural Statistics

Des Moines

September 1967

IOWA STATE TRAVELING LIBRARY
DES MOINES, IOWA

IOWA
636.4
IOW
1966

CROP REPORTING SERVICE BULLETIN

PIG CROPS IN IOWA

unb.

PREFACE

Cooperation between the State Department of Agriculture and the Statistical Reporting Service of the United States Department of Agriculture makes possible the collection, summarization and publication of data in this report.

County estimates of sows farrowing are based primarily on information collected in conjunction with the Annual State Farm Census. Data used to estimate the pig crops on the county level are based on periodic sample surveys of producers by mail and interview.

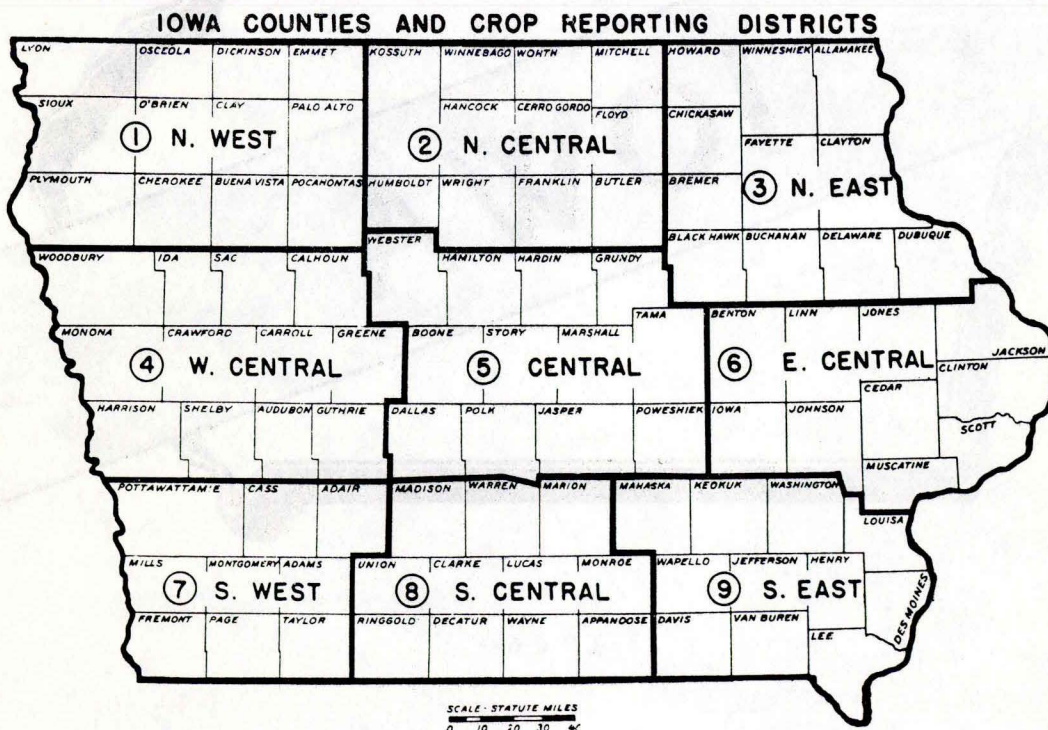
This publication is made possible by State funds. It is useful in providing background material in the evaluation of changes that may occur in the supply and the market potential of hogs in the various parts of the State.

L. B. Liddy, Secretary
Iowa State Department of Agriculture

This is the eighth in a series of publications entitled Pig Crops in Iowa which show the geographic patterns and distribution of sow farrowings and pig crops which indicate areas of production. The bulletin is issued annually with the initial publication containing data on 1959 sow farrowings and pig crops by counties. Data for the years 1959 through 1965 are combined into a single issue and is available upon request.

Iowa is one of the leading livestock States in the Nation ranking "Number One" in hog production. For the past seventeen years the annual pig crop has ranged between 18 and 21 million head. Six out of every ten farmers in the State produce hogs. A large part of the State's huge corn crop is used each year to fatten hogs. Cash receipts from the annual sale of hogs normally account for a fourth to a third of the State's annual cash farm income from agriculture.

R. H. Sutherland
Agricultural Statistician



This publication is in part made possible under the auspices of the Iowa State Department of Agriculture and the Statistical Reporting Service, U. S. Department of Agriculture, with the aid of funds authorized by the Agricultural Marketing Act of 1946.

PIG CROPS IN IOWA - 1966

Prepared by Lloyd C. Stuber

Iowa produced about one-fifth of the Nation's pig crop in 1966. The 1966 Iowa pig crop totaled 20,754,000 head, about 85 percent more than the next largest pork producing State and 16 percent more than the next two largest States combined. Iowa's 1966 pig crop was 11 percent larger than the 1965 crop and 3 percent larger than the 1961-65 average of 20,074,000 head. In the past 42 years of records, the pig crop has ranged from a low of 9.6 million in 1934 to a high of 21.3 million reached in 1951 and 1955. Hogs accounted for 41 percent of cash receipts from livestock and livestock products in 1966 and 30 percent of cash receipts from marketings of all agricultural commodities produced in Iowa.

Geographically, the east central district produces the most hogs, 14.9 percent of the State total, followed by the northeast district with 13.5 percent. The 10 leading counties in hog production in Iowa in 1966, based on pig crop numbers, were Delaware, Plymouth, Washington, Cedar, Sioux, Johnson, Benton, Kossuth, Jones and Clinton. These 10 counties produced 19.0 percent of the 1966 pig crop. Four counties each produced over 400,000 pigs and 16 counties over 300,000 head.

The pig crop for the period December 1966 through May 1967 totaled 11,361,000 head, nearly the same as produced during the comparable period a year earlier and average for the period.

Expected farrowings, as reported on June 1, 1967, indicate that 1,271,000 sows will farrow during the period of June 1 - November 30, 1967, about 2 percent less than farrowed during the same period a year earlier. If intentions for fall farrowings are carried out and the litter size is near average, the total 1967 pig crop will be 1 percent below 1966.

IOWA: PIG CROP NUMBERS - 1966

Rank of First Ten Counties Shown by Number Within County

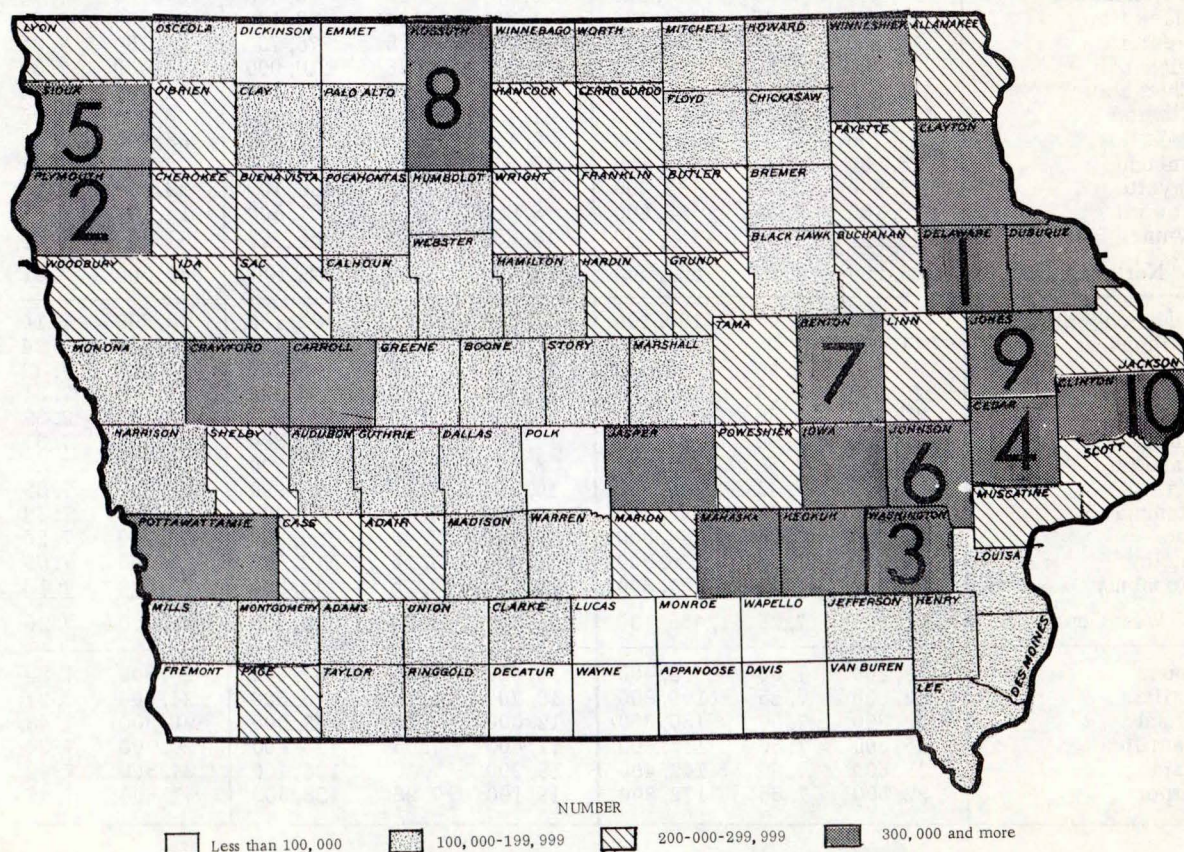


Table 1. -- Pig Crop: Number of sows farrowing, pigs per litter and pig crop -- by counties, Iowa, 1966

County and District	December-May			June-November			Annual		
	Sows Farrowed	Pigs per Litter	Pig Crop	Sows Farrowed	Pigs per Litter	Pig Crop	Sows Farrowed	Pigs per Litter	Pig Crop
	Number of Head			Number of Head			Number of Head		
Buena Vista	18,800	7.65	143,900	15,400	7.15	110,100	34,200	7.43	254,000
Cherokee	18,800	7.26	136,400	14,100	7.05	99,400	32,900	7.17	235,800
Clay	12,500	7.26	90,700	8,600	7.15	61,500	21,100	7.21	152,200
Dickinson	7,000	7.66	53,600	5,600	6.13	34,300	12,600	6.98	87,900
Emmet	7,100	7.76	55,100	5,600	7.34	41,100	12,700	7.57	96,200
Lyon	17,800	7.46	132,700	11,900	7.04	83,800	29,700	7.29	216,500
O'Brien	17,300	7.55	130,700	13,100	7.25	95,000	30,400	7.42	225,700
Osceola	9,600	7.16	68,700	7,000	7.36	51,500	16,600	7.24	120,200
Palo Alto	11,800	7.45	87,900	8,800	7.25	63,800	20,600	7.36	151,700
Plymouth	38,300	7.15	273,900	28,000	7.05	197,300	66,300	7.11	471,200
Pocahontas	14,500	7.26	105,200	10,600	7.25	76,900	25,100	7.25	182,100
Sioux	31,700	7.45	236,300	21,800	7.15	155,800	53,500	7.33	392,100
Northwest Dist.	205,200	7.38	1,515,100	150,500	7.11	1,070,500	355,700	7.27	2,585,600
Butler	18,500	7.25	134,200	16,600	7.55	125,400	35,100	7.40	259,600
Cerro Gordo	20,300	7.66	155,400	12,900	7.25	93,500	33,200	7.50	248,900
Floyd	10,700	7.65	81,900	8,700	7.25	63,100	19,400	7.47	145,000
Franklin	18,900	7.56	142,900	15,200	7.15	108,700	34,100	7.38	251,600
Hancock	18,400	7.15	131,600	12,500	7.45	93,100	30,900	7.27	224,700
Humboldt	10,200	7.15	72,900	6,600	7.55	49,800	16,800	7.30	122,700
Kossuth	27,400	7.46	204,300	19,000	7.56	143,600	46,400	7.50	347,900
Mitchell	12,200	7.15	87,200	10,400	7.36	76,500	22,600	7.24	163,700
Winnebago	12,100	7.15	86,500	11,100	7.25	80,500	23,200	7.20	167,000
Worth	11,000	7.55	83,100	9,100	7.15	65,100	20,100	7.37	148,200
Wright	17,000	7.15	121,600	12,400	7.56	93,700	29,400	7.32	215,300
North Cent. Dist.	176,700	7.37	1,301,600	134,500	7.38	993,000	311,200	7.37	2,294,600
Allamakee	14,700	7.55	111,000	12,300	7.36	90,500	27,000	7.46	201,500
Black Hawk	13,700	7.45	102,100	11,800	7.04	83,100	25,500	7.26	185,200
Bremer	12,800	7.35	94,100	10,300	7.35	75,700	23,100	7.35	169,800
Buchanan	17,700	7.25	128,300	16,300	7.36	119,900	34,000	7.30	248,200
Chickasaw	12,300	7.05	86,700	9,800	7.26	71,100	22,100	7.14	157,800
Clayton	25,100	7.05	177,000	21,100	7.05	148,700	46,200	7.05	325,700
Delaware	33,700	7.56	254,700	30,100	7.35	221,300	63,800	7.46	476,000
Dubuque	25,900	7.46	193,100	18,600	7.25	134,900	44,500	7.37	328,000
Fayette	18,500	7.16	132,400	17,700	7.35	130,100	36,200	7.25	262,500
Howard	10,100	7.45	75,200	8,600	7.15	61,500	18,700	7.31	136,700
Winnesiek	22,400	7.46	167,000	18,800	7.25	136,300	41,200	7.36	303,300
Northeast Dist.	206,900	7.35	1,521,600	175,400	7.26	1,273,100	382,300	7.31	2,794,700
Audubon	14,200	7.05	100,100	11,600	7.25	84,100	25,800	7.14	184,200
Calhoun	11,000	7.05	77,600	9,400	7.45	70,000	20,400	7.24	147,600
Carroll	24,900	7.45	185,600	19,300	7.15	138,000	44,200	7.32	323,600
Crawford	25,400	7.35	186,700	18,800	7.25	136,300	44,200	7.31	323,000
Greene	10,300	7.55	77,800	8,800	7.15	62,900	19,100	7.37	140,700
Guthrie	12,500	7.35	91,900	11,000	7.25	79,800	23,500	7.31	171,700
Harrison	10,400	7.56	78,600	8,800	7.25	63,800	19,200	7.42	142,400
Ida	16,800	7.45	125,200	10,900	7.15	77,900	27,700	7.33	203,100
Monona	13,000	7.25	94,300	7,700	7.45	57,400	20,700	7.33	151,700
Sac	19,900	7.25	144,300	16,600	7.25	120,400	36,500	7.25	264,700
Shelby	20,800	7.05	146,700	16,300	7.15	116,500	37,100	7.09	263,200
Woodbury	22,000	7.15	157,300	15,900	7.25	115,300	37,900	7.19	272,600
West Cent. Dist.	201,200	7.29	1,466,100	155,100	7.24	1,122,400	356,300	7.26	2,588,500
Boone	11,300	7.56	85,400	9,500	7.05	67,000	20,800	7.33	152,400
Dallas	13,900	7.25	100,800	10,700	7.15	76,500	24,600	7.21	177,300
Grundy	17,300	7.56	130,800	12,000	7.25	87,000	29,300	7.43	217,800
Hamilton	15,300	7.56	115,600	11,400	7.05	80,400	26,700	7.34	196,000
Hardin	18,600	7.66	142,400	18,900	7.15	135,100	37,500	7.40	277,500
Jasper	22,500	7.66	172,300	19,100	7.25	138,500	41,600	7.47	310,800

Table 1. -- Pig Crop: Number of sows farrowing, pigs per litter and pigs saved -- by counties, Iowa, 1966

County and District	December-May			June-November			Annual		
	Sows Farrowed	Pigs per Litter	Pig Crop	Sows Farrowed	Pigs per Litter	Pig Crop	Sows Farrowed	Pigs per Litter	Pig Crop
	Number of Head			Number of Head			Number of Head		
Marshall	15,900	7.15	113,700	11,100	7.14	79,300	27,000	7.15	193,000
Polk	7,000	7.46	52,200	6,200	7.05	43,700	13,200	7.27	95,900
Poweshiek	16,300	7.15	116,500	15,700	7.25	113,800	32,000	7.20	230,300
Story	12,300	7.46	91,700	10,500	7.26	76,200	22,800	7.36	167,900
Tama	23,100	7.15	165,200	16,900	7.15	120,800	40,000	7.15	286,000
Webster	10,400	7.65	79,600	7,300	7.45	54,400	17,700	7.57	134,000
Central Dist.	183,900	7.43	1,366,200	149,300	7.18	1,072,700	333,200	7.32	2,438,900
Benton	26,100	7.15	186,700	23,700	7.25	171,900	49,800	7.20	358,600
Cedar	29,400	7.15	210,200	28,500	7.04	200,700	57,900	7.10	410,900
Clinton	25,800	7.26	187,200	21,400	7.15	153,000	47,200	7.21	340,200
Iowa	22,700	7.55	171,400	20,800	7.04	146,500	43,500	7.31	317,900
Jackson	17,600	7.15	125,900	14,600	7.15	104,400	32,200	7.15	230,300
Johnson	25,600	7.25	185,600	25,700	7.25	186,400	51,300	7.25	372,000
Jones	24,500	7.45	182,600	22,700	7.15	162,300	47,200	7.31	344,900
Linn	18,100	7.35	133,100	15,900	7.04	112,000	34,000	7.21	245,100
Muscatine	13,500	7.66	103,400	14,100	7.35	103,600	27,600	7.50	207,000
Scott	19,100	7.55	144,200	18,100	7.15	129,400	37,200	7.35	273,600
East Cent. Dist.	222,400	7.33	1,630,300	205,500	7.15	1,470,200	427,900	7.25	3,100,500
Adair	16,100	7.05	113,500	14,300	6.94	99,300	30,400	7.00	212,800
Adams	9,300	7.35	68,400	9,300	7.25	67,400	18,600	7.30	135,500
Cass	16,500	6.95	114,600	12,900	7.36	94,900	29,400	7.13	209,500
Fremont	5,800	7.34	42,600	4,300	7.23	31,100	10,100	7.30	73,700
Mills	8,800	7.06	62,100	5,800	7.03	40,800	14,600	7.05	102,900
Montgomery	14,500	6.94	100,700	11,700	6.95	81,300	26,200	6.95	182,000
Page	15,400	7.35	113,200	13,200	7.45	98,400	28,600	7.40	211,600
Pottawattamie	24,000	7.35	176,500	17,300	7.15	123,700	41,300	7.27	300,200
Taylor	11,200	7.25	81,200	10,200	7.34	74,900	21,400	7.29	156,100
Southwest Dist.	121,600	7.18	872,800	99,000	7.19	711,800	220,600	7.18	1,584,600
Appanoose	4,900	7.06	34,600	4,400	7.14	31,400	9,300	7.10	66,000
Clarke	7,000	7.56	52,900	7,300	7.36	53,700	14,300	7.45	106,600
Decatur	5,500	7.05	38,800	5,200	7.06	36,700	10,700	7.06	75,500
Lucas	6,800	7.56	51,400	6,800	7.04	47,900	13,600	7.30	99,300
Madison	13,300	7.05	93,800	13,000	7.25	94,300	26,300	7.15	188,100
Marion	14,700	7.55	111,000	14,900	7.15	106,500	29,600	7.35	217,500
Monroe	6,500	7.45	48,400	5,400	7.15	38,600	11,900	7.31	87,000
Ringgold	8,300	7.25	60,200	7,300	7.36	53,700	15,600	7.30	113,900
Union	8,100	7.15	57,900	7,100	7.35	52,200	15,200	7.24	110,100
Warren	10,800	7.35	79,400	9,600	7.25	69,600	20,400	7.30	149,000
Wayne	6,600	7.05	46,500	5,800	7.26	42,100	12,400	7.15	88,600
South Cent. Dist.	92,500	7.30	674,900	86,800	7.22	626,700	179,300	7.26	1,301,600
Davis	6,800	7.16	48,700	6,200	7.47	46,300	13,000	7.31	95,000
Des Moines	8,800	7.56	66,500	7,300	7.25	52,900	16,100	7.42	119,400
Henry	12,800	7.45	95,400	12,900	7.15	92,200	25,700	7.30	187,600
Jefferson	9,000	7.56	68,000	9,000	7.36	66,200	18,000	7.46	134,200
Keokuk	20,800	7.45	155,000	21,300	7.15	152,300	42,100	7.30	307,300
Lee	9,500	7.45	70,800	10,400	7.25	75,400	19,900	7.35	146,200
Louisa	11,200	7.25	81,200	11,500	7.15	82,200	22,700	7.20	163,400
Mahaska	21,300	7.36	156,700	20,300	7.25	147,100	41,600	7.30	303,800
Van Buren	6,400	7.14	45,700	6,000	7.35	44,100	12,400	7.24	89,800
Wapello	6,000	7.15	42,900	6,800	7.25	49,300	12,800	7.20	92,200
Washington	28,000	7.55	211,500	29,200	7.35	214,600	57,200	7.45	426,100
Southeast Dist.	140,600	7.41	1,042,400	140,900	7.26	1,022,600	281,500	7.34	2,065,000
State	1,551,000	7.34	11,391,000	1,297,000	7.22	9,363,000	2,848,000	7.29	20,754,000

Table 2. -- Pig Crop - December-May: Number of sows farrowing, pigs per litter and pig crop -- Iowa, by Crop Reporting Districts, 1965, 1966 and 1967

District	Sows Farrowing			Pigs per Litter			Pig Crop		
	1965	1966	1967	1965	1966	1967	1965	1966	1967
	Number of Head			Number of Head			Number of Head		
Northwest	192,100	205,200	207,000	7.35	7.38	7.25	1,411,400	1,515,100	1,501,300
North Central	167,100	176,700	177,400	7.23	7.37	7.43	1,208,000	1,301,600	1,317,900
Northeast	196,600	206,900	215,400	7.21	7.35	7.17	1,418,200	1,521,600	1,544,200
West Central	194,000	201,200	206,000	7.09	7.29	7.26	1,375,300	1,466,100	1,495,200
Central	179,300	183,900	179,700	7.31	7.43	7.20	1,311,200	1,366,200	1,293,300
East Central	216,000	222,400	226,800	7.23	7.33	7.07	1,560,700	1,630,300	1,604,300
Southwest	115,600	121,600	126,200	7.07	7.18	7.37	817,600	872,800	930,700
South Central	87,000	92,500	91,900	7.03	7.30	7.22	611,600	674,900	663,300
Southeast	139,300	140,600	141,600	7.14	7.41	7.14	995,000	1,042,400	1,010,800
State	1,487,000	1,551,000	1,572,000	7.20	7.34	7.23	10,709,000	11,391,000	11,361,000

Table 3. -- Pig Crop - June-November: Number of sows farrowing, pigs per litter and pig crop -- Iowa, by Crop Reporting Districts, 1965, 1966 and 1967

District	Sows Farrowing			Pigs per Litter			Pig Crop		
	1965	1966	1967 ^{1/}	1965	1966	1967	1965	1966	1967 ^{2/}
	Number of Head			Number of Head			Number of Head		
Northwest	127,300	150,500	----	7.19	7.11	----	915,100	1,070,500	----
North Central	113,300	134,500	----	7.11	7.38	----	806,000	993,000	----
Northeast	147,600	175,400	----	7.39	7.26	----	1,091,000	1,273,100	----
West Central	133,500	155,100	----	7.35	7.24	----	980,700	1,122,400	----
Central	130,700	149,300	----	7.32	7.18	----	956,500	1,072,700	----
East Central	178,100	205,500	----	7.15	7.15	----	1,274,300	1,470,200	----
Southwest	85,100	99,000	----	7.06	7.19	----	601,000	711,800	----
South Central	75,700	86,800	----	6.96	7.22	----	526,800	626,700	----
Southeast	126,700	140,900	---	7.27	7.26	----	920,600	1,022,600	---
State	1,118,000	1,297,000	1,271,000	7.22	7.22	7.16	8,072,000	9,363,000	9,200,000

^{1/} As indicated by breeding intentions as of June 1, 1967.^{2/} Average number of pigs per litter with allowance for trend used to compute indicated number of fall pigs. Number rounded to nearest 100,000 head.

Table 4. -- Annual Pig Crop: Number of sows farrowing, pigs per litter and pig crop -- Iowa, by Crop Reporting Districts, 1965, 1966 and 1967

District	Sows Farrowing			Pigs per Litter			Pig Crop		
	1965	1966	1967	1965	1966	1967	1965	1966	1967 ^{3/}
	Number of Head			Number of Head			Number of Head		
Northwest	319,400	355,700	----	7.28	7.27	----	2,326,500	2,585,600	----
North Central	280,400	311,200	----	7.18	7.37	----	2,014,000	2,294,600	----
Northeast	344,200	382,300	----	7.29	7.31	----	2,509,200	2,794,700	----
West Central	327,500	356,300	----	7.19	7.26	----	2,356,000	2,588,500	----
Central	310,000	333,200	----	7.32	7.32	----	2,267,700	2,438,900	----
East Central	394,100	427,900	----	7.19	7.25	----	2,835,000	3,100,500	----
Southwest	200,700	220,600	----	7.07	7.18	----	1,418,600	1,584,600	----
South Central	162,700	179,300	----	7.00	7.26	----	1,138,400	1,301,600	----
Southeast	266,000	281,500	----	7.20	7.34	----	1,915,600	2,065,000	----
State	2,605,000	2,848,000	2,843,000	7.21	7.29	7.23	18,781,000	20,754,000	20,561,000

^{3/} Sum of farrowings, December through May and intended farrowings, June through November and average pigs per litter with allowance for trend.

CROP REPORTING SERVICE BULLETIN - PIG CROPS IN IOWA

Table 5. -- Sows Farrowed by Months -- Iowa, 1946 to Date

Year	December-May							June-November							Total Year	
	Prec. Dec.	Jan.	Feb.	Mar.	Apr.	May	Total	June	July	Aug.	Sept.	Oct.	Nov.	Total		
	Thousand Head															
1946	5	7	44	399	872	423	1,750	114	40	112	236	95	17	614	2,364	
1947	8	13	107	561	911	342	1,942	121	62	139	235	81	7	645	2,587	
1948	7	10	58	392	752	451	1,670	167	72	141	247	114	20	761	2,431	
1949	18	32	100	541	872	441	2,004	166	77	174	307	111	17	852	2,856	
1950	11	21	119	616	922	435	2,124	184	68	200	350	141	28	971	3,095	
1951	15	31	159	630	921	453	2,209	197	81	217	343	147	25	1,010	3,219	
1952	11	25	144	513	779	428	1,900	226	101	202	293	116	22	960	2,860	
1953	14	39	166	498	673	358	1,748	188	96	231	245	92	22	874	2,622	
1954	19	47	262	589	617	336	1,870	189	110	252	267	103	32	953	2,823	
1955	30	100	280	550	671	370	2,001	182	145	254	291	127	40	1,039	3,040	
1956	51	102	238	476	545	289	1,701	156	118	231	286	120	45	956	2,657	
1957	47	95	214	451	506	269	1,582	170	119	210	276	137	54	966	2,548	
1958	70	116	274	433	466	270	1,629	198	152	259	337	158	65	1,169	2,798	
1959	107	155	275	469	495	275	1,776	235	162	249	327	151	68	1,192	2,968	
1960	80	113	205	378	464	270	1,510	221	145	218	329	175	68	1,156	2,666	
1961	94	130	219	381	494	283	1,601	238	154	216	323	182	89	1,202	2,803	
1962	89	136	231	395	450	284	1,585	239	152	243	353	181	82	1,250	2,835	
1963	98	144	223	364	505	305	1,639	242	183	228	338	181	85	1,257	2,896	
1964	96	144	197	342	478	319	1,576	280	166	220	322	182	82	1,252	2,828	
1965	111	133	184	349	424	286	1,487	247	143	183	305	158	82	1,118	2,605	
1966	107	133	188	359	449	315	1,551	253	193	219	354	190	88	1,297	2,848	
1967	112	135	202	359	449	315	1,572	1/247	1/170	1/235	---	---	---	---	---	

1/ June, July and August 1967 and June-November total as indicated by breeding intentions.

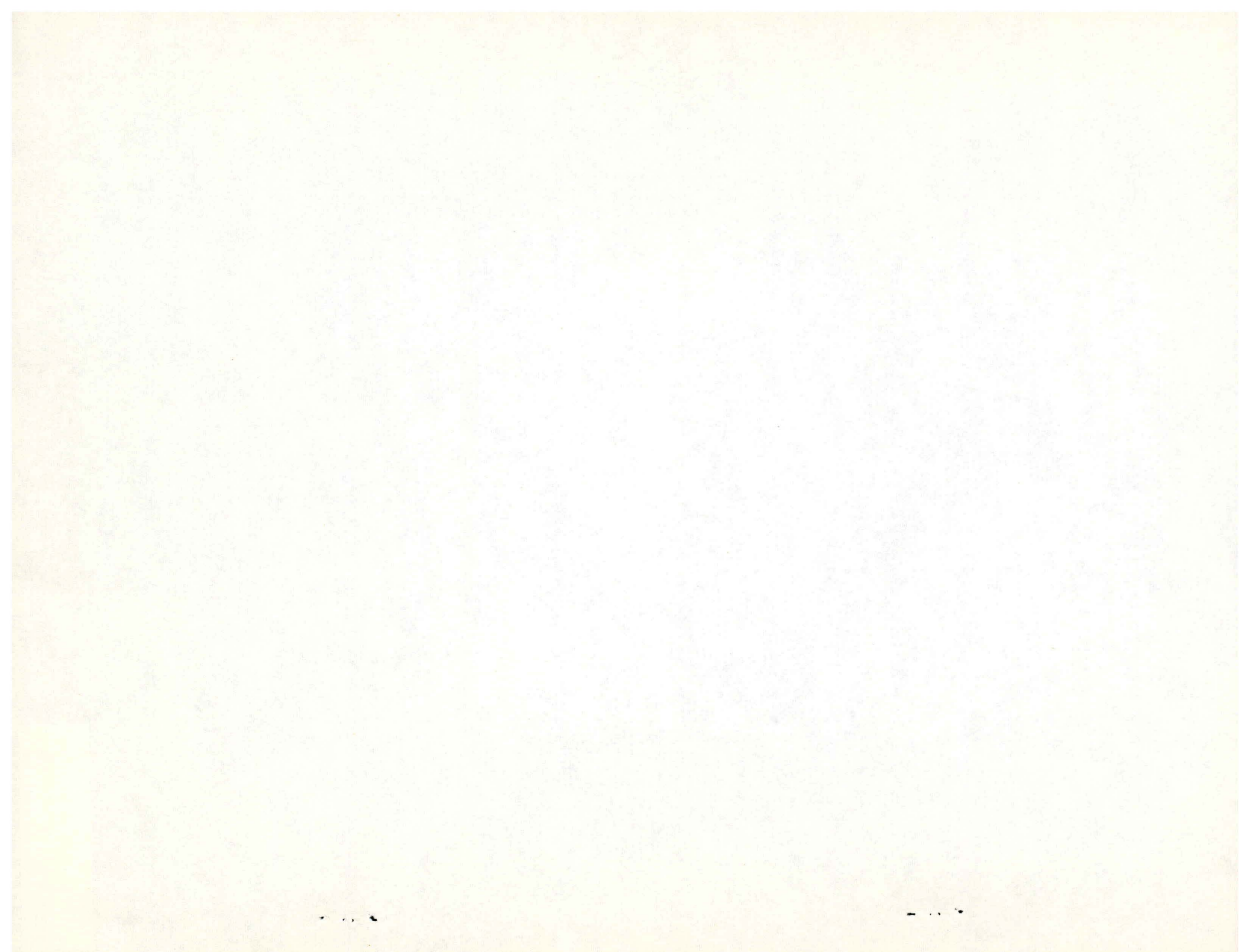
Table 6. -- Pig Crops: December and May, June and November, Total and December-May as a Percent of Total, Iowa, 1946 to Date

Year	Pig Crop				Year	Pig Crop			
	Dec. - May	June - Nov.	Total	Dec. - May percent of total		Dec. - May	June - Nov.	Total	Dec. - May percent of total
Thousand Head					Thousand Head				
1946	11,515	4,059	15,574	74	1957	11,738	7,081	18,819	62
1947	11,904	4,044	15,948	75	1958	11,778	8,499	20,277	58
1948	11,089	5,023	16,112	69	1959	12,752	8,320	21,072	61
1949	13,146	5,538	18,684	70	1960	10,691	8,023	18,714	57
1950	13,742	6,564	20,306	68	1961	11,623	8,582	20,205	58
1951	14,557	6,747	21,304	68	1962	11,143	8,950	20,093	55
1952	12,939	6,499	19,438	67	1963	11,802	9,002	20,804	57
1953	12,219	5,847	18,066	68	1964	11,527	8,962	20,489	56
1954	13,146	6,519	19,665	67	1965	10,709	8,072	18,781	57
1955	14,147	7,179	21,326	66	1966	11,391	9,363	20,754	55
1956	12,281	6,835	19,116	64	1967	11,361	1/9,200	20,561	55

1/ Based on fall sow intentions reported as of June 1, 1967 and average number of pigs per litter with allowance for trend. Rounded to nearest 100,000 head.

Table 7. -- Ten leading states in pig crop numbers, 1965 and 1966 (Order of rank - 1966)

State	Sows farrowing		Pig crop		State	Sows farrowing		Pig crop	
	1965	1966	1965	1966		1965	1966	1965	1966
Thousand Head					Thousand Head				
1. IOWA	2,605	2,848	18,781	20,754	6. Nebraska	580	605	4,240	4,451
2. Illinois	1,507	1,561	10,722	11,220	7. Ohio	483	521	3,583	3,847
3. Indiana	842	902	5,906	6,690	8. Wisconsin	417	457	3,080	3,417
4. Missouri	822	905	6,220	6,518	9. S. Dakota	340	381	2,449	2,768
5. Minnesota	680	723	4,902	5,345	10. Kansas	272	301	2,016	2,234



STATE LIBRARY OF IOWA



3 1723 02106 6204