



# Agricultural Economic Facts Basebook of Iowa

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#### Foreword

Successful farming was once largely an individual matter. Good management of a farm was sufficient. Success or failure was of the farmer's own making and, accordingly, he took that part of the world which fell outside his line fences for granted and bent all of his efforts to become an effective farm operator.

That generation of Iowans that farmed prior to the World War did not experience any upheavals in prices. They were spared that kind of economic violence. Instead they saw prices generally rise slowly and gradually—a good omen to them as debtors. Farm costs, especially interest and taxes, bore definite and dependable relationship to farm income. The stability in the economic patterns external to the farm placed a premium upon the efficiency of the farmer, his skill, intelligence and initiative.

But the dependability of these economic relationships which are external to the farm disappeared about 20 years ago. First came the extraordinary demand for food arising out of the War, high prices and boom. Then followed the long, painful aftermath of price and income maladjustments. There was the sharp depression in the early twenties. Business recovered but commercial agriculture in the Middlewest only partially so. Europe was too poor to buy from us except with borrowed funds and our tariffs were too high to permit Europe to earn the dollars needed to buy our farm products. Our farm markets abroad vanished.

Then came the drastic dislocations in prices and income following 1930. Depression bred despair and whatever order was left in farm prices and costs gave way to what was equivalent to economic chaos. Prices collapsed, credit stopped, and farm foreclosures became so widespread that considerably more than one-tenth of the farm land of Iowa became the property of corporations, mainly insurance companies. As a consequence, tenancy increased sharply. Farm land was exploited by more corn in the attempt to avoid bankruptcy. Farm capital deteriorated.

In a word, the economic forces outside of the farm thwarted and turned to naught the best laid plans of many able, intelligent and efficient farmers. This experience of the last two decades convinced farmers and farm leaders that good farming is not sufficient. Big crops effectively produced are no assurance against foreclosure.

The purpose of this Basebook is to make available to farmers as well as to students of agricultural affairs, economic facts and figures which pertain to the agriculture of Iowa. The statistics and analyses which make up this book deal with and describe chiefly those economic forces which are outside of the province of any individual farm.

The maladjustments that confront agriculture are indeed many. There is the whole issue of tenancy which has entered an acute stage. There is the misuse of our land resource, that rich inheritance given to us by nature. Diets have changed. People want less fats and many consumers abroad no longer buy our lard. Transportation by rail costs are sixty to seventy percent more than before the war thus forcing livestock and grains onto our roads. Farm debts are out of line with farm earning. A property tax system is in force which has little relation to ability to pay. These are merely illustrative of what agriculture is facing.

Each of these issues is essentially complex and difficult of solution. The facts and figures of this book provide the handles and levers for taking hold and for understanding the realities that are involved. Moreover, any progress that is made in developing desirable farm policies and programs must be based on an intelligent analysis and interpretation of pertinent facts. It is in the hope that constructive farm policies may be formulated that this Basebook has been prepared.

T. W. Schultz, Head Rural Social Science and Economics Section.

March, 1936.

### Agricultural Economic Facts Basebook of Iowa

By LAUREN K. SOTH\*

#### CHAPTER I. IOWA FARM INCOME

HE World War-and its aftermath-left the commercial world as torn and twisted as it left the forests and hillsides of northern France. The little nations set up by the Versailles Treaty in central Europe hardly waited for their soldiers to get back across the frontiers be-fore they raised high tariff barriers to keep out foreign goods. In many of these countries factories had been idle throughout the war; in others farm production had practically ceased. To the east hulking Russia lay embroiled in the difficulties of a revolutionary government while her people starved. In Germany the mark depreciated in value so fast that wheelbarrows displaced pocketbooks. Even England was having monetary and labor troubles.

What effect had all this on Iowa?

To an increasing extent in the preceding 50 years Iowa had become a commercial agriculture state. The days of the spinning wheel and the one-horse plow had passed with the building of the railroads, the growth of large American cities and expansion of industrial Europe. The farmer once depended on two trips to town a year to get some shoes, some tobacco, salt and sugar. But he now lived on a graded highway and drove his own car to town twice a week. Where the price of wheat and hogs used to mean little to this farmer, since he seldom used money, now his whole business was dependent upon the price situation. What the English

housewife was able and willing to pay for lard and bacon became of immense importance to this Iowa farmer.

So the disruption caused by the war did have an effect on Iowa. Encouraged to increase production, put more acres under the plow and raise more pigs during the war, Iowa farmers found their foreign market disappearing. And the excess productive capacity of their farms was building up a surplus of increasing size. Incomes decreased compared with taxes, interest payments and other fixed obligations.

It is with this picture in mind that the estimates on farm income for Iowa are presented. Estimates are not available farther back than 1920, but the United States figures will give an inkling of what was happening in Iowa.

Total farm income for the country is estimated at \$6,238,000,000 for 1914. In 1919 it was in the neighborhood of 17 billions. War time inflation of prices, together with the great increase in production, had resulted in nearly a tripling of the agricultural income of the country.

In 1929, another key year, national farm income was about \$12,000,000,000. In 1932 it was \$5,143,000,000, a little over 43 percent of 1929 income.

Figure 1 illustrates what has happened to Iowa gross farm income in the past 13 years. The depression of 1920 brought sharply

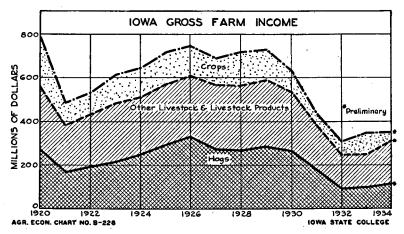


Fig. 1. After dropping off sharply in the depression of 1920, Iowa farm income climbed steadily until a peak was reached in 1929. The 3 years following were ones of greatly reduced incomes as a result of falling prices. In 1933 and 1934 higher prices for farm products brought higher incomes to Iowa farmers. Most of Iowa's farm income is from livestock and livestock products.

Data in table 1.

\*This basebook of economic facts was possible only because of the splendid cooperation given me by various agencies of the national and state governments, as well as by many members of the Lowa State College staff. I am particularly indebted to Mr. Leslie M. Carl, Sr. Agricultural Statistician, United States Bureau of Agricultural Economics, Des Moines, Iowa; Mr. Charles D. Reed and Mr. J. Earl Cook, of the Iowa Weather and Crop Bureau, and Dr. J. E. Brindley, director of research for the Iowa State Board of Assessment and Review.

Mr. Glen Liston, Mr. Harold Graham and Mr. Harold Lewis helped with the work of gathering material from the many sources used, writing cut lines and narrative, reading proof, etc. Mr. Fred E. Ferguson and Mr. Carl Hamilton of the Iowa State College Bulletin Office gave invaluable advice and assistance on printing and make-up. The statistical and stenographic staffs both of the Extension Service and the Department of Economics deserve much credit for the book; they underwont constant checking, re-checking, typing and re-typing without a murmur.

TABLE 1. IOWA FARM VALUE, GROSS INCOME\* AND CASH INCOME\* FROM FARM PRODUCTION, BY COMMODITIES

(In Thousands of Dollars)

							<del></del>						
	1920	1921	1922	1923		1924			1925		,	1926	
		Gross	income		Farm value	Gross income	Cash income	Farm value	Gross income	Cash income	Farm value	Gross income	Cash income
Cattle and calves	152,388 269,760 5,644	105,476 164,127 3,305	199,801	137,444 213,138 3,548	100,669 224,610 4,701	112,990 247,064 4,569	237,585	108,163 291,802 5,711	120,126 295,268 4,941	118,470 280,854 4,879	98,238 327,988 5,700	115,098 323,898 4,070	113,497 308,835 4,008
Total meat animals	427,792	272,908		354,130	329,980	364,623	353,616	405,676	420,335	404,203	431,926	443,066	426,340
Milk	84,686 32,899 17,119	79,619 21,177 11,003	24,135	86,394 27,466 14,271	84,133 36,160 27,571	79,135 34,520 29,257	63,376 26,840 21,971	83,521 42,849 30,516	78,285 40,822 29,817	62,611 32,061 22,080	92,250 44,051 34,329	86,652 42,142 33,800	70,146 34,308 25,949
Total dairy and poultry prod- ucts	134,704	111,799	116,000	128,131	147,864	142,912	112,187	156,886	148,924	116,752	170,630	162,594	130,403
Wool. Honey. Beeswax Horses. Mules					1,822 582 9 4,550 1,296	1,822 582 9 2,057 648	2,057	1,983 545 10 4,180 1,120	1,045	1,045	1,850 512 11 4,324 872	1,850 512 111 1,147 229	1,850 361 11 1,147 229
Total livestock and livestock products	562,496	384,707	428,330	482,261	486,103	512,653	470,749	570,400	573,200	524,733	610,125	609,409	560,341
Corn. Oats. Wheat Barley Rye	137,386 62,584 16,875 2,699	70,170 24,156 7,521 895	73,024 22,743 9,064 746	86,361 30,630 9,082 784	11,016	39,073 38,952 9,621 1,105 549	38,952 9,560 1,105	300,515 82,913 8,774 3,506 442	24,874 7,357 1,262	24,874 7,287 1,262	309,297 70,512 9,920 4,741 1453	63,103 18,333 8,398 1,564 324	62,967 18,333 8,337 1,564 316
Total grains	219,544	102,742	105,577	126,857	425,261	89,300	89,039	396,150	101,158	100,962	394,923	91,722	91,517
Clover seed—red and alsike				•••••	713 332 3,397 1,320	418 183 3,289 170	183 3,289	1,558 479 2,544 1,383	1,246 302 2,436 195	302	741 640 2,610 1,552	370 440 <b>2,</b> 522 277	
Total seeds					5,762	4,060	4,060	5,964	4,179	4,179	5,543	3,609	3,609
Нау					71,355	5,712	5,712	57,144	3,996	3,996	60,246	3,609	3,609
Apples Peaches. Pears. Plums, cherries and apricots Grapes. Strawberries. Small fruits Total Fruits					3,444 8 72 517 373 897 341 5,652	3,323 8 70 498 361 897 341 5,498	16 318 193 880 329	3,480 30 76 522 241 922 350 5,621	3,376 30 75 506 234 922 350 5,493	24 324 115 898	4,200 155 82 630 303 586 223 6,179	4,032 155 78 605 297 586 223	2,744 24 412 122 572 213 4,087
Ruckwheat. Flax seed Popcorn Sweet sorghum forage Potatoes, white Potatoes, sweet Truck crops. Sorghum sirup. Maple sugar and sirup. Forest products. Farm gardens Nursery products Greenhouse products Emmer and spit					101 193 910 134 6,876 499 2,666 396 16 3,371 10,338 532 2,060	85 180 910 5,723 487 2,666 297 16 3,371 10,338 2,060	68 180 910 3,073 466 2,222 178 13 978	777 233 2,730 194 7,687 791 5,477 454 10 3,597 10,555 532 2,060	65 213 2,730 6,171 777 5,477 340 10 3,597 10,555 532 2,060	213 2,730 592 753 4,564 204 8 1,043 532 2,060	3,324 508 15 3,498 9,952 532 2,060	7,778 603 3,324 382 15 3,498 9,952 532 2,060	334 1,173 1,478 583 2,770 229 13 1,014 532 2,060
Total crops					536,122	131,235	113,345	499,276	147,353	125,740	498,660	134,627	113,05
Total livestock and crops	782,040	487,449	533,907	609,118	1,022,225	643,888	584,094	1,069,676	720,553	650,473	1,108,785	744,036	673,396

<sup>\*</sup> Gross income is total income received from farm production. Cash income is gross income minus products used on the farm. Source: 1920-1923, Iowa Agr. Exp. Sta., Agr. Econ. Sect., 1924-1934, U. S. D. A., Bureau of Agricultural Economics.

TABLE 1. IOWA FARM VALUE, GROSS INCOME\* AND CASH INCOME\* FROM FARM PRODUCTION, BY COMMODITIES—Continued (In Thousands of Dollars)

			<del></del>									
		1927	1		1928	,		1929	,		1930	
	Farm value	Gross income	Cash income	Farm value	Gross income	Cash income	Farm value	Gross income	Cash income	Farm value	Gross income	Cash income
Cattle and calves	99,749 287,696 5,430	120,864 277,493 5,856	118,603 265,390 5,798	116,435 259,393 5,781	105,192 271,012 4,325	102,722 261,134 4,247	120,812 278,665 5,767	115,651 285,284 4,657	113,386 274,230 4,555	111,497 271,297 5,010	109,840 266,223 4,728	107,931 255,667 4,704
Total meat animals	392,875	404,213	389,791	381,609	380,529	368,103	405,244	405,592	392,171	387,804	380,791	368,302
MilkEggsChickens.	98,688 37,387 32,476	92,891 35,721 32,060	75,544 28,493 23,668	105,640 45,657 32,632	100,909 43,834 32,917	83,334 35,827 24,721	106,481 46,395 37,160	103,279 44,212 34,913	86,866 36,090 26,830	90,090 40,410 29,225	87,476 38,868 29,613	75,170 31,029 22,588
Total dairy and poultry reoducts	168,551	160,672	127,705	183,929	177,660	143,882	190,036	182,404	149,786	159,725	155,957	128,787
Wool. Honey Beeswar Mules Mules	1,769 684 16 4,750 756	1,769 684 16 1,244 540	1,769 542 16 1,244 540	2,503 588 15 4,378 828	2,503 588 15 1,296 436	2,503 455 15 1,296 436	2,055 675 15 4,594 821	2,055 675 15 930 583	2,055 548 15 930 583	1,528 547 3,550 623	1,528 547  154 222	1,528 438 154 222
Total livestock and livestock products	569,401	569,138	521,607	573,850	563,027	516,690	603,440	592,254	546,088	553,777	539,199	499,431
Corn	321,198 86,414 10,213 9,552 550	50,690 19,875 8,382 2,866 415	50,530 19,875 8,320 2,866 407	353,311 83,215 8,897 14,292 638	82,962 24,133 7,501 4,573 516	82,816 24,133 7,450 4,573 507	309,512 82,039 8,641 8,756 598	60,481 21,330 6,924 2,626 494	60,342 21,330 6,870 2,626 485	200,403 67,631 6,386 6,951 367	33,406 14,879 4,019 904 213	33,307 14,879 3,967 904 208
Total grains	427,927	82,228	81,998	460,353	119,685	119,479	409,546	91,855	91,653	281,738	53,421	53,265
Clover seed—red and alsike Clover seed, sweet. Timothy seed. Soybeans.	1,751 637 1,613 1,147	1,428 523 1,560 218	1,428 523 1,560 218	925 326 734 684	566 220 675 319	566 220 675 319	3,257 119 953 1,169	2,930 69 902 401	2,930 69 902 401	1,726 172 2,477 1,090	1,375 106 2,381 521	1,375 106 2,381 521
Total seeds	5,148	3,729	3,729	2,669	1,780	1,780	5,498	4,302	4,302	5,465	4,383	4,383
Hay	66,093	5,284	5,284	59,474	3,570	3,570	63,901	4,474	4,474	40,122	3,121	3,121
Apples	2,804 127 62 421 298 1,128	2,748 127 60 412 292 1,128 429	1,607 15 241 136 1,106 414	3,343 75 56 501 317 594 226	3,226 75 55 484 311 594 226	2,030 19 304 133 576 219	3,350 82 70 502 320 961 365	3,283 82 68 492 314 961 365	1,735 27 260 180 939 350	1,514 15 86 257 377 1,314 471	1,514 15 86 257 377 1,314 471	251 
Total fruits	5,269	5,196	3,519	5,112	4,971	3,281	5,650	5,565	3,491	4,034	4,034	1,993
Buckwheat. Flan seed. Popcorn. Sweet sorghum forage. Potatoes, white. Potatoes, sweet.	158 454 753 413 7,503 421	137 432 753 6,070 412	125 432 753 1,312	70 376 884 276 5,905	58 363 884 468 577	46 363 884 2,098 561	95 333 1,101 197 8,637	81 292 1,101 7,437 499	66 292 1,101 1,775 481	43 398 1,425 72 6,174 450	33 374 1,425 5,079 419	21 374 1,425 921 403
Potatoes, sweet. Truck crops. Sorghum sirup Maple sugar and sirup. Forest products. Farm gardens.	2,354 161 12 3,408 9,313	2,354 121 12 3,408	1,962 73 10 988	2,863 414 12 3,422	2,863 248 12 3,422 10,616	2,386 145 10 992	551 3,283 448 13 3,545 9,988	3,283 269 13 3,545 9,988	2,736 179 10 1,028	3,861 230	3,861 138	3,608 92 1,014
Nursery products	532 2,060	9,313 532 2,060	532 2,060	10,616 532 2,060	532 2,060	532 2,060	532 2,060	532 2,060	532 2,060	6,962 702 1,732 55.	6,962 702 1,732	702 1,732
Total crops	531,979	122,041	103,173	555,625	156,109	138,187	515,378	135,296	114,180	357,877	88,398	73,054
Total livestock and crops	1,101,380	691,179	624,780	1,129,475	719,136	654,877	1,118,818	727,550	660,268	911,654	627,597	572,485

<sup>\*</sup> Gross income is total income received from farm production. Cash income is gross income minus products used on the farm. Source: U. S. D. A., Bureau of Agricultural Economics.

TABLE 1. 10WA FARM VALUE, GROSS INCOME\* AND CASH INCOME\* FROM FARM PRODUCTION, BY COMMODITIES—Continued
(In Thousands of Dollars)

		1931			1932			19	33	,		1934 (prel	iminary)	
	Farm value	Gross income	Cash income	Farm value	Gross income	Cash income	Farm value	Gross income	Cash income	Benefit pay- ments	Farm value	Gross income	Cash income	Benefit pay- ments
Cattle and calves	81,287 185,064 3,581	76,547 178,931 3,158		63,727 93,807 2,724	59,837 96,100 3,345	58,624 91,490 3,320	61,505 102,522 3,193	53,465 102,384 2,411	97,282		74,082 83,257 4,310	112.151	85,444 106,089 3,586	45,25
Total meat animals	269,932	258,636	250,477	160,258	159,282	153,434	167,220	158,260	151,927		161,649	202,512	195,119	45,25
MilkEggs	67,807 31,513 25,821	65,903 30,381 26,366	56,472 24,145 20,916	51,996 22,736 17,353	50,542 21,864 17,471	43,106 16,944 13,463	54,427 21,793 15,697	52,905 20,868 15,201	16,132		62,312 27,802 17,985	26,753	21,379	
Total dairy and poultry products	125,141	122,650	101,533	92,085	89,877	73,513	91,917	88,974	72,859		108,099	106,783	88,393	
Wool Honey Beeswax	1,030 234	1,030 234	1,030 150	695 294	695 294	695 218	1,630	1,630	1,630		1,659	1,659	1,659	
Horses	2,851 352	660 75	660 75	2,707 256	1,206 88	1,206 88	3,345 248	1,032 184			3,657 281	1,410 485		
Total livestock and livestock products	399,540	383,285	353,925	256,295	251,442	229,154	264,660	250,080	227,632		275,345	312,849	287,066	45,25
Corn. Oats. Wheat Barley. Rye	108,075 36,047 2,928 4,335 203	16,817 5,407 1,786 607 101	16,761 5,407 1,720 607 99	152,852 28,525 1,653 3,473 154	31,898 5,420 993 764 45	31,839 5,420 925 764 43	227,500 41,641 3,356 4,125 270	59,612 6,662 2,376 1,155 76	1.155	431	171,258 28,788 2,786 4,341 271	1,551 1,299		28,63 50
Total grains		24,718	24,594	186,657	39,120	38,991	276,892	69,881	69,628	431	207,444	22,836	22,491	29,13
Clover seed—red and alsike Clover seed, sweet Timothy seed Soybeans	487 119 1,386 371	253 51 1,347 140	253 51 1,347 140	413 31 688 455	307 10 657 136	307 10 657 136	869 72 682 1,436	652 43 622 658	622		276 213 372 2,500	166 165	166 165	
Total seeds	2,363	1,791	1,791	1,587	1,110	1,110	3,059	1,975	1,975		3,361	1,448	1,448	
Нау	28,798	1,683	1,683	26,144	1,274	1,274	31,178	2,443	2,443	<u></u>	42,468	2,528	2,528	
Apples. Peaches Pears Plums, cherries and apricots. Grapes Strawberries Small fruits.	85 256 375	1,507 101 85 256 375 880 314	696 31 40 118 215 765 245	1,315 68 58 224 230 773 272	1,315 68 58 224 230 773 272	616 21 105 127 687 220	1,468 11 55 264 232 542 198	1,468 11 55 264 232 542 198	30 146 132		1,202 58 67 228 202 282 103	1,202 58 67 228 202 282 103	25 30 181 134 237	
Total fruits	3,518	3,518	2,110	2,940	2,940	1,776	2,770	2,770			2,142	2,142		
Buckwheat Flax seed Popcorn Somet sorghum forage Potatoes, white	11 221 477 33 2,888	7 208 477	1 208 477	18 142 312 32	13 129 312	6 129 312	44 295 114 55	29 269 114	269 114		143 239 125 970	125	125	
Polatoes, sweet Truck crops Sorghum sirup Maple sugar and sirup Forest products.	3,291 235	2,295 272 3,291 138	91	102	1,033 60	40	356 1,569 75	16	315 1,466 29		4,075 236 1,172 133	215 1,172 82	51	
rorest products.  Nursery products.  Greenhouse products.  Emmer and spelt	4,341 7,753 884 1,476 35	2,641 7,753 884 1,476	941 884 1,476	3,585 7,762 688 463 25	2,263 7,762 688 463	941 688 463	3,703 7,762 879 704 30	2,286 7,762 704	869 704		3,516 4,470 1,027 526 40	4,470 526	796 526	
Total crops	208,203	51,152	37,752	234,854	59,984	47,904	334,840	94,522	80,360	431	272,087	41,278	31,894	29,13
Total livestock and crops	607,743	434,437	391,677	491,149	311,426	277,058	599,500	344,602	307,992	431	547,432	354,129	318,960	74,39

<sup>\*</sup> Gross income is total income received from farm production. Cash income is gross income minus products used on farm. Source: U. S. D. A., Bureau of Agricultural Economics.

#### SOURCES OF IOWA FARM INCOME

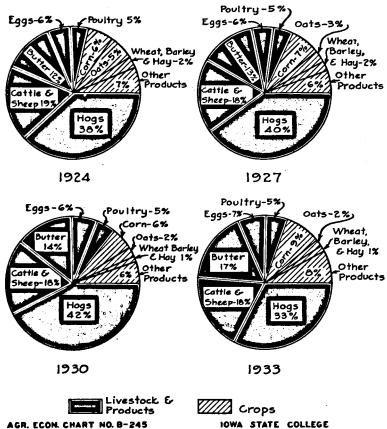


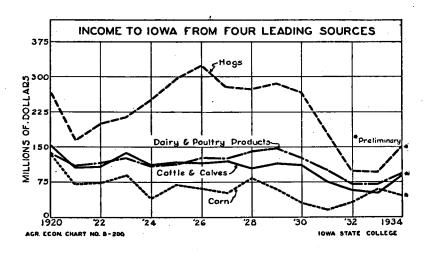
Fig. 2. The charts at left show the proportion of Iowa's farm income which is derived from different products and groups of products. Livestock and livestock products have provided about 85 percent of the income during the period for which figures are available. Of this group, hogs are by far the most important, since they alone are responsible for 40 percent of the income.

Data in table 2.

AGR. ECON. CHART NO. 8-245

Fig. 3. The chart at right shows the trend of income from the four leading farm products of Iowa. Inleading farm products of lowa. Income from hogs rose rapidly during the first part of the last decade, but dropped rapidly during the depression. Corn income fluctuated from year to year more than the others. Income from cattle and dairy products was about constant until the depression.

Data in table 1.



#### PERCENT. U. S. GROSS FARM INCOME WHICH IOWA SUPPLIES

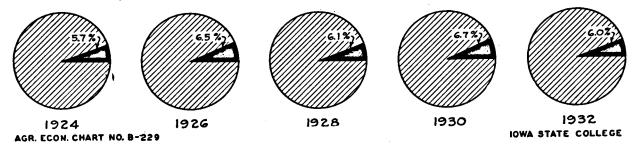


Fig. 4. The charts above show the percentage of national farm income supplied by Iowa for the different years

given. Though I owa usually contributes more than 6 percent of the total income from farming in the country, it

only has 3½ percent of the total land in farms.

Data in table 4.

lower returns to farmers in 1921. Using the years 1924-29 as a base, an index number was made up from the income figures to show the changes more plainly. Income was 111 percent of the base period in 1920 as compared with only 69 percent in 1921. This was a drop of nearly 40 percent.

From this low point, income increased until 1925, and there was little change during the next 4 years. The beginning of the depression in 1930 resulted in greatly reduced incomes until, at the bottom of the depression in 1933, Iowa got only 44 percent as much gross farm income as in the fairly normal years of 1924-29. With gross income cut into less than half, the money which Iowa farmers had left to live on and save from shrank much more. In fact, it became zero for the majority of farm families. Accordingly, farm foreclosures occurred by the thousands. Many farm families dipped into past savings in order to pay operating expenses and buy their necessities.

#### Sources of Iowa Farm Income

Figure 2 shows the sources of Iowa's farm income. Livestock and livestock products furnish about four-fifths of it. In 1931 they brought in 88 percent. Of this group, hogs are by far the most important, supplying on the average more than two-fifths of the total gross income. Cattle are next with around a sixth, while dairy products are not far behind.

TABLE 2. PROPORTION OF IOWA GROSS FARM INCOME CONTRIBUTED BY MAJOR PRODUCTS.

•	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934*
Percent Livestock and Livestock products are of total. Percent Crops are of total. Percent Hogs are of total. Percent cattle is of total. Percent sheep is of total. Percent or is of total.	79.6 20.4 38.4 17.5 .7 6.1	79.5 20.5 41.0 16.7 .7 9.3	81.9 18.1 43.5 15.5 .5 8.5	82.3 17.7 40.1 17.5 .8 7.3	78.3 21.7 37.7 14.6 .6 11.5	81.4 18.6 39.2 15.9 .6 8.3	85.9 14.1 42.4 17.5 .8 5.3	88.2 11.8 41.2 17.6 .7 3.9	80.7 19.3 30.9 19.2 1.1 10.2	72.6 27.4 29.7 15.5 .7	88.3 11.7 31.7 24.5 1.0 5.6
Percent oats is of total. Percent wheat is of total. Percent barley is of total. Percent hay is of total. Percent butter is of total. Percent eggs is of total. Percent opultry is of total. Percent only is of total. Percent other products total.	6.0 1.5 .9 12.3 5.4 4.5 6.5	3.5 1.0 .2 .6 10.9 5.7 4.1 6.3	2.5 1.1 .2 .5 11.6 5.7 4.5 5.9	2.9 1.2 .4 .8 13.4 5.2 4.6 5.8	3.4 1.0 .5 14.0 6.1 4.6 5.4	2.9 1.0 .4 .6 14.2 6.1 4.8 6.0	2.4 .6 .1 .5 13.9 6.2 4.7 5.6	1.2 .4 .1 .4 15.2 7.0 6.1 6.2	1.7 .3 .2 .4 16.2 7.0 5.6 7.0	1.9 .7 .3 .7 15.3 6.1 4.4 7.3	.4 .1 .7 17.1 7.6 5.5 5.5

<sup>\*</sup> Preliminary.

Source: Derived from table 1.

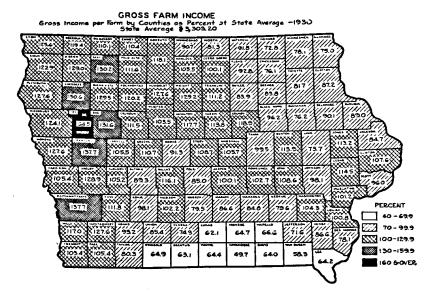


Fig. 5. The map shown here indicates the relative gross farm income of the different Iowa counties. Ida County reported the largest gross income per farm of any county in 1930. Southern Iowa has the smallest gross income, as a section. Data in table 5.

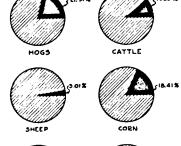
The charts in figure 2 illustrate how Iowa farmers have been increasing their production of dairy products over the last decade. The loss of foreign markets for

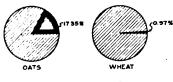
TABLE 8. INDEX NUMBERS OF IOWA GROSS FARM INCOME. (1924-29 = 100.)

Year	Crops	Livestock	Total
1920	158.8	99.5	111.1
1921	74.3	68.0	68.8
1922	76.4	75.7	75.9
1923	91.7	85.3	86.6
1924	94.9	90.7	91.5
1925	106.6	101.4	102.4
1926	97.4	107.8	105.7
1927	88.3	100.6	98.2
1928	112.9	99.6	102.2
1929	97.8	104.7	103.4
1930	63.9	95.4	89.2
1931	37.0	67.8	61.7
1932	43.4	44.5	44.3
1933	42.0	43.9	43.5
1934*	51.0	57.0	56.0

\* Preliminary estimate. Source: Derived from table 1.

PERCENT U.S. CASH FARM INCOME GOING TO IOWA (AV. 1925-29)





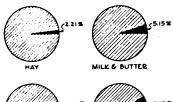




Fig. 6. These charts show the percent of national cash income Iowa supplied for each of the commodities over the period 1924 to 1929.

Data in table 7.

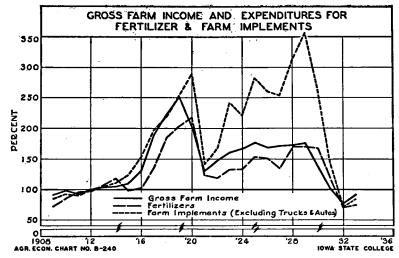


Fig. 7. The fluctuations in farm income during the past 24 years have been translated into fluctuations in purchases of fertilizer and farm implements. The above chart shows how closely purchases of these two commodities used in farm production have followed farm income.

Data in table 6.

hog products has placed the cornhog industry at an increasing disadvantage to other farm products less dependent upon foreign buyers. The growing demand for dairy products operated in the same direction. As a result, Iowa has been slowly increasing her output of butter and other dairy products.

Eggs and poultry are very important sources of Iowa farm income. During the last decade they have contributed far more income to the state than corn sold as grain. Eggs have furnished between 5 and 7 percent during the last 10 years, while poultry has brought in slightly less.

The most important of Iowa's

TABLE 4. CASH INCOME AND GROSS INCOME, IOWA AND UNITED STATES.\*

Year -		Income dollars)		Gross Income (million dollars)			
year -	United States	Iowa	Percent	United States	Iowa	Percent	
1909 1910 1911 1912 1913 1914 1915 1916 1916 1917 1918 1920 1921 1922 1923 1924 1924 1925 1926 1927 1928 1929 1930 1931 1932 1932 1932	9,708 10,160 9,726 9,954 10,055 10,205 7,988 5,795 4,366 5,402 6,261	584 650 673 625 655 660 572 392 277 308 393	6.02 6.40 6.92 6.28 6.47 7.17 6.76 5.70 6.28	6,238 6,643 6,372 6,784 6,975 7,028 7,395 8,914 12,832 15,101 16,935 13,566 8,927 9,944 11,047 11,968 11,480 11,616 11,741 11,918 9,414 6,911 5,143 6,393 7,289	783** 487** 534** 609** 644 721 744 691 719 727 628 434 311 345 429	5.77 5.46 5.37 5.51 5.68 6.02 6.48 5.95 6.67 6.67 6.28 6.05 5.40	

1. Preliminary.
1933 and 1934 figures include benefit payments and government purchases.

Source: \*Bureau of Agricultural Economics, U. S. D. A.

\*\*Iowa Agricultural Experiment Station, Agricultural Economics Section, Circular
104.

crops is, of course, corn. The importance of Iowa's corn is not shown by the charts in figure 2. for corn is the backbone of the gigantic livestock industries of the state. The charts merely show the proportion of Iowa farm income coming from corn sold as grain. The amount of corn sold is fairly elastic, depending upon the relation between livestock and corn prices - particularly the price ratio between corn and hogs. In good crop years when corn prices are likely to be low, a lot of corn is fed. When corn prices are high many farmers decide to sell their corn as grain rather than feed it. Thus the income from corn, and the proportion of total income from that crop have varied considerably over the decade under review. Also, the increasing specialization in livestock production has resulted in a larger proportion of the corn crop being fed on farms.

Oats are affected about the same as corn, but the income furnished by this crop is much less than that from Iowa's most famous product. In 1920 oats furnished about the same proportion of Iowa income as corn, but in every year since then it has been considerably less. During the last 3 years income from this source has been less than 2 percent of the total gross farm in-come. Not only have less oats been marketed, but oat prices have declined more than most other farm products prices because of the decrease in number of horses.

#### Proportion of National Income

Figure 4 illustrates the percentage of national farm income supplied by Iowa and the percentage of national cash farm income supplied by this state. There are 986,771,016 acres of land in farms in the United States. Of this total Iowa has 34,019,332 acres, or 3.45 percent. Yet Iowa has contributed around 6 percent of the gross income of the country from farming since the war, and considerably more than 6 percent

TABLE 5. IOWA FARM INCOME BY COUNTIES.\*

(All Products Sold, Traded or Used by Operator's Family.)

		<del></del>	<del></del>	t	
	Number farms reporting	Gross income per county (dollars)	Average gross income per farm (dollars)	Average gross income per farm as percent of state average	Average net income per farm as percent of state average**
Adair Adams Allamakee Appanoose Audubon Benton Blackhawk Boone Bremer Buchanan	2,010	6,510,838	3,239	98.06	100 1
	1,536	4,727,522	3,078	93.19	91 2
	2,033	5,038,662	2,478	75.02	80 0
	1,957	3,212,479	1,642	49.71	48 0
	1,772	6,156,305	3,474	105.18	107 0
	2,560	9,629,807	3,762	113.90	117 2
	2,313	7,353,780	3,179	96.25	93 9
	2,488	7,505,271	3,016	91.31	97 1
	1,986	5,499,447	2,769	83.83	86 4
	2,250	5,663,671	2,517	76.20	78 4
Buena Vista Butler Calhoun Carroll Cass Cedar Cedar Cerro Gordo Cherokee Chickasaw Clarke	2.071	8,859,639	4,278	129.52	139.4
	2.236	6,178,351	2,763	83.65	87.1
	2.165	7,971,480	3,682	111.45	123.3
	2.199	7,662,586	3,484	105.48	107.8
	2.157	7,964,787	3,692	111.78	111.1
	2.171	8,209,202	3,781	114.47	111.0
	1.920	6,347,594	3,306	100.09	99.2
	1.816	9,033,956	4,975	150.62	153.5
	1.924	4,836,381	2,514	76.11	80.9
	1.427	3,501,013	2,453	74.26	71.2
Clay. Clayton. Clayton Clinton Crawford Dallas Davis Decatur Decatur Des Moines Dickinson.	1,789	7,692,291	4,300	130.18	130.8
	2,944	8,472,274	2,878	87.13	89.7
	2,727	9,690,252	3,553	107.57	101.4
	2,450	11,142,555	4,548	137.69	133.9
	2,267	8,693,841	3,835	116.11	120.1
	1,869	3,948,607	2,113	63.97	64.1
	1,946	4,056,859	2,085	63.12	58.7
	2,204	6,557,083	2,975	90.07	93.6
	1,706	4,400,379	2,579	78.08	72.5
	1,214	4,415,877	3,637	110.11	117.1
Dubuque. Emmet. Fayette. Floyd. Franklin Fremont Greene. Grundy. Guthrie. Hamilton	2,202	6,476,549	2,941	89 04	01 9
	1,279	4,663,405	3,646	110 38	118 6
	2,924	7,889,689	2,698	81 68	83 3
	1,773	5,434,512	3,065	92 79	89 6
	1,987	7,297,202	3,672	111 17	114 8
	1,905	6,507,944	3,416	103 42	100 4
	2,020	7,384,636	3,656	110 69	121 2
	1,768	6,942,729	3,927	118 89	126 7
	2,278	6,722,771	2,951	89 34	93 2
	2,175	8,458,574	3,889	117 74	128 6
Hancock Hardin Harrison Henry Howard Humboldt Ida Iowa Jackson Jasper	1,920	6,694,070	3,486	105 .54	109.5
	2,067	7,768,149	3,758	113 .78	119.2
	2,872	10,003,020	3,483	105 .45	106.3
	1,885	5,392,895	2,861	86 .61	86.1
	1,649	3,962,372	2,403	72 .75	73.5
	1,457	6,140,393	4,214	127 .58	139.7
	1,398	7,597,160	5,434	164 .52	158.4
	2,117	7,595,471	3,588	108 .63	109.3
	2,155	6,031,381	2,799	84 .74	63.5
	2,918	9,643,932	3,305	100 .06	96.5
Jefferson Johnson Johnson Jones Keokuk Kossuth Lee Linn Louisa Lucas Lyon Jones Lyon Jones	1,792	4,234,496	2,363	71. 54	68.7
	2,487	8,055,783	3,239	98. 06	95.4
	2,072	7,747,352	3,739	113. 20	110.3
	2,545	6,691,280	2,629	79. 59	75.6
	3,033	11,833,461	3,902	118. 13	129.5
	1,966	4,165,970	2,119	64. 15	57.9
	3,535	8,603,297	2,434	73. 69	70.6
	1,328	4,422,303	3,330	100. 82	93.3
	1,551	3,182,634	2,052	62. 12	56.2
	1,820	7,546,654	4,146	125. 52	132.0
Madison	2,019	6,818,236	3,377	102 . 24	98 3
	2,659	7,447,575	2,801	84 80	81 3
	2,238	6,404,095	2,862	86 65	81 9
	2,315	8,078,442	3,490	105 . 66	103 9
	1,623	6,272,349	3,865	117 . 01	115 7
	1,667	5,052,582	3,031	91 . 76	84 4
	2,090	8,809,543	4,215	127 . 61	127 2
	1,612	3,442,635	2,136	64 . 67	66 3
	1,570	6,610,654	4,211	127 . 49	123 5
	1,796	5,999,821	3,341	101 . 15	92 7
O'Brien Osceola Page Palo Alto Plymouth Pocahontas Polk Pottawattamie Poweshiek	1,962	8,362,117	4,262	129 03	137 5
	1,261	4,972,338	3,943	119 38	127 6
	2,130	7,418,796	3,483	105 45	100 8
	1,879	6,925,332	3,686	111 60	118 5
	2,760	11,634,665	4,215	127 61	123 1
	2,038	8,093,787	3,971	120 22	133 2
	3,006	8,437,619	2,807	84 98	80 1
	3,934	17,895,045	4,549	137 72	131 3
	2,203	7,488,710	3,399	102 91	103 7
Ringgold	1,912	4,096,511	2,142	64 85	63.0
	1,834	7,969,910	4,346	131 58	133.3
	2,214	7,021,372	3,171	96 00	90.1
	2,136	9,091,607	4,256	128 85	134.2
	2,930	11,894,165	4,059	122 89	122.6

TABLE 5. IOWA FARM INCOME BY COUNTIES -- Continued.

	Number farms reporting	Gross income per county (dollars)	Average gross income per farm (dollars)	Average gross income per farm as percent of state average	Average net income per farm as percent of state average**
Story	2,261	8,116,854	3,590	108.69	114.3
Tame	2,638	8,669,639	3,286	99.49	100.4
Taylor	2,084	5,524,856	2,651	80.26	78.6
Union	1,522	4,294,174	2,821	85.41	82.4
Van Buren	1,845	3,554,696	1,927	58.34	56.1
Wapello	1,929	4,244,261	2,200	66.61	62.9
Warren	2,345	6,161,134	2.627	79.53	27.8
Vashington	2,305	7,939,333	3,444	104.27	99.6
Vayne	1,788	3,804,646	2,128	64.43	61.4
Webster	2,629	8,985,949	3,418	103.48	111.7
Vinnebago	1,604	4,807,722	2,997	90.74	95.9
Vinneshiek	2,810	7,252,889	2,581	78.14	81.4
Voodbury	3,039	12,460,997	4,100	124.13	111.4
Vortb , ,	1,450	3,894,151	2,686	81.32	83.7
Vright	1,952	8,330,326	4,268	129.21	139.3
TOTAL	208,974	690,302,406	3.303		

<sup>\*</sup> The figures on income in this table give a misleading picture of the relative income of different counties unless the reader takes into consideration feeding operations in many counties. Some of the western counties, for instance, sell many thousands of dollars worth of fat cattle each year; yet all of this return is not income. The cost of the feeder cattle should be removed from the gross return. This step, however, is impossible since accurate data are not available.

TABLE 6. UNITED STATES GROSS FARM INCOME AND SELECTED EXPENDITURES. (1910-14 = 100.)

Year	Gross income from farm pro- duction	Ferti- lizer	Farm imple- ments including autos and tractors	Taxes	Interest on mort- gages
1913	103	107	105	100	104
1914	104	117	111	101	109
1915	109	99	123	110	116
1916	132	102	153	116	129
1917	190	136	198	129	149
1918	223	186	221	137	174
1919	251	205	253	172	207
1920	201	219	289	209	236
1921	132 -	124	140	223	240
1922	147	120	168	224	246
1923	163	133	240	228	244
1924	168	134	221	228	245
1925 1926	177 170	155	282	232	246
1920	172	151 136	261 254	232	246
1927	174	172	312	238	246 244
1928	177	172	356	239	244
1930	140	169	263	238	236
1931	103	119	142	218	230
1931	79	71	72	189	229
1933	93	74	84	1631	191

<sup>1</sup>Preliminary. Source: U. S. D. A. Bureau of Agricultural Economics.

of the cash income of the country. Gross income means total income received by farmers, and cash income is gross income minus products consumed on the farm. Iowa receives more cash farm income

than any other state except Texas and California. These two states, both much larger than Iowa, receive about the same cash farm income as Iowa.

Figure 6 on page 11 shows the figures.

proportion of income from different products contributed by Iowa. Iowa's predominance in hogs, cattle, butter, egg, poultry, corn and oat production is shown by the figures.

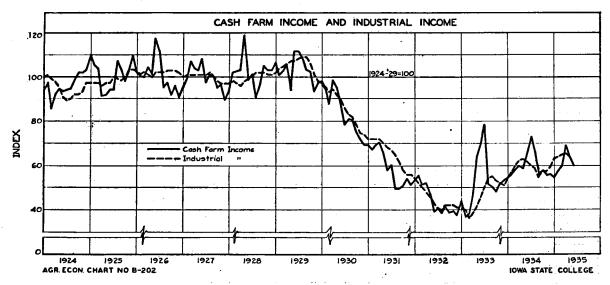


Fig. 8. The above graph illustrates how closely industrial and farm income are dependent upon each other. Rises

in industrial income in the past have been associated with rises in farm income.

Data in tables 8 and 9.

<sup>\*\*</sup> Gross Farm Income-less expenditure for labor, electricity, equipment, fertilizer. Source: U. S. Census, 1980.

TABLE 7. 1	PERCENTAGE	OF U. S. C. (thousands		M INCOME GO	ING TO 10	WA.
Year	(ca	HOGS sh income)			ATTLE	
	United States	Iowa	Percent	United States	Iowa	Percent
1024 1025 1026 1927 1928 1029 1030 1031 1032 1033 1033	1,088,007 1,340,327 1,412,667 1,209,937 1,209,599 1,287,744 1,128,577 767,307 439,536 509,418 697,619	237,585 280,854 308,835 205,390 261,134 274,230 255,667 172,147 91,490 97,282 151,343	21.84 20.95 21.86 21.93 21.59 21.30 22.65 22.44 20.82 19.09 21.69	895, 405 974, 105 981, 241 974, 123 1,046, 780 1,050, 574 930, 843 663, 681 482, 633 460, 626 701, 589	111,517 118,470 113,497 118,603 102,722 113,386 107,931 75,192 58,624 52,275 85,444	12.45 12.16 11.57 12.18 9.81 10.79 11.59 11.33 12.15 11.35
-		SHEEP sh income)		(co	CORN sh income)	
Year	United States	Iowa.	Percent	United States	Iowa	Percent
1924 1925 1926 1927 1928 1929 1929 1930 1931 1932 1933 1934	131, 532 149, 487 153, 004 147, 656 168, 453 168, 573 133, 899 106, 183 74, 456 75, 282 104, 373	4,514 4,879 4,008 5,798 4,247 4,555 4,704 3,138 3,320 2,370 3,586	3.43 3.26 2.62 3.93 2.52 2.70 3.51 2.96 4.46 3.15 3.43	397, 614 362, 152 302, 693 382, 444 409, 235 313, 171 182, 880 125, 698 156, 090 194, 502 222, 725	38,883 67,196 62,967 50,530 82,816 60,342 33,307 16,761 31,839 59,514 48,184	9.78 18.55 20.80 13.21 20.24 19.27 18.21 13.33 20.40 30.58 21.63
	(ca	OATS sh income)			WHEAT	
Year	United States	Iowa	Percent	United States	Iowa	Percent
1924. 1925. 1926. 1927. 1928. 1929. 1930. 1931. 1932. 1933. 1934 <sup>1</sup> .	217, 491 150, 428 117, 264 116, 180 134, 718 108, 992 79, 010 42, 661 34, 809 36, 317 30, 296	38,952 24,874 18,343 19,875 24,133 21,330 14,879 5,407 5,420 6,662 1,551	17,91 16,54 15,63 17,11 17,91 19,57 18,83 12,67 15,57 18,34 5,12	911,316 788,599 848,509 862,172 758,587 685,328 401,994 254,129 194,846 373,960 390,677	9,560 7,287 8,337 8,320 7,450 6,870 3,967 1,720 925 2,657 1,631	1.05 0.92 0.98 0.97 0.98 1.00 0.99 0.68 0.47 0.71
	A (ca	LL HAY		MILI	-BUTTER	
Year	(cash income) United States Iowa Percent		United States	Iowa.	Percent	
1074 1025 1926 1927 1927 1928 1929 1930 1931 1932 1932	236, 131 204, 045 192, 022 179, 619 101, 560 183, 672 100, 005 74, 978 53, 116 65, 311 85, 898	5,712 3,906 3,609 5,284 3,570 4,474 3,121 1,083 1,274 2,443 2,528	2.42 1.96 1.87 2.94 1.86 2.44 3.12 2.24 2.40 3.74 2.94	1,231,776 1,302,654 1,359,099 1,469,154 1,538,256 1,665,731 1,615,363 1,278,531 985,099 988,880 1,114,016	63,376 62,611 70,146 75,544 83,334 86,866 75,170 56,472 43,106 45,012 51,832	5.15 4.81 5.16 5.14 5.42 5.21 4.65 4.42 4.38 4.55 4.05
V	EGG (ca	S (Chicken) sh income)		POULT (ca	RY (Chicken: sh income)	s)
Year	United States	Iowa	Percent	United States	Iowa	Percent
1924. 1925. 1926. 1927. 1928. 1920. 1930. 1931. 1941. 1944.	430,315 519,929 545,934 400,339 569,005 594,019 504,661 357,872 265,198 253,588 309,967	26,840 32,061 34,308 28,403 35,827 36,000 31,029 24,145 16,944 16,132 21,379	6.24 6.17 6.28 5.81 6.30 6.08 6.15 6.74 6.37 6.37	229,574 231,585 274,729 201,350 280,248 297,460 250,212 217,132 157,727 136,016 156,572	21,971 22,080 25,949 23,668 24,721 26,830 22,588 20,916 13,463 11,715 15,182	9.57 9.53 9.45 9.06 8.82 9.02 9.03 9.61 8.54 8.61 9.69

1933 and 1934 figures include purchases by AAA.

1. Proliminary.

Source: Derived from table I.

TABLE 8. INDEXES OF INCOME OF INDUSTRIAL WORKERS. (1924.29 = 100)

				Adju	Adjusted for seasons! variation	r Beas	onel ve	ristion					ľ	
Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	ğ	Nov.	Dec.	Av.	•
1924 1925 1926 1927 1927 1930 1931 1931 1931 1933 1934	00 00 00 00 00 00 00 00 00 00 00 00 00	10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 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INDEX NUMBERS OF U. S. CASH INCOME FROM SALES FARM PRODUCTS.

6

TABLE

(1924-29 = 100)

U. S. D. A. Bureau of Agricultural Economics.

Source:

<sup>1</sup> Weighted average of factory, rallroads, mining and payrolls, Bource; U, S, D, A, Bureau of Agricultural Economics.

BASEBOOK OF IOWA

TABLE 10. PROPORTION OF IOWA FARM INCOME RECEIVED EACH MONTH.\*

	Сгора	Livestock and livestock products	Total
January. February. March April. May June July August September October November December	6.7 6.0 6.3 15.1 16.5	11.3 9.4 8.8 7.7 7.9 7.1 8.3 8.4 7.7 7.8	10.8 9.4 8.7 7.6 7.0 9.0 9.2 8.0 7.5
Total	100.0	100.0	100,00
f933 January, February, March April, May June July August September October November December	3.9 8.8 11.6 21.0 9.1 12.4 11.2 8.7 7.3	7.5 6.4 6.7 10.1 10.0 9.6 7.3 8.2 9.3 8.3	6.5 5.7 5.3 6.3 9.9 11.9 9.5 8.7 9.2 8.1
Total	27.5 17.0 7.0	7.8 7.4 6.9 7.0 8.5 8.7 8.3 8.5 7.7	7.2 6.9 6.6 6.3 7.7 8.1 9.3 11.9 9.4 8.2 9.5
Total	100.0	100.0	100.0
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<sup>\*</sup>Based on receipts from the sale of farm products which contributed 98 percent of total cash income in 1992.

TABLE 11. RECEIPTS FROM THE SALE OF PRINCIPAL IOWA FARM PRODUCTS PLUS RENTAL AND BENEFIT PAYMENTS.

				<u> </u>	<u> </u>
Year and month	Crops	Livestock and livestock products	Total	Rental and benefit payments	Total, including rental and benefit payments
1932—	1,000 dollars	1,000 dollars	1,000 dollars	1,000 dollars	1,000 dollars
January		28,066	29,768	uonars	GOLIGIS
February	2,430	23,494	25,924		
March	2,104	21,972	24,076		
April	1,808	19,203	21,011		
June	1,771 1,574	19,589	21,360 19,115	•••••	
July	1,664	17,541 19,244	20,908		•••••
August	3,986	20,663	24.649		l ::::::
September	4,367	20,906	25,273		1
October	2,893	19,262	22,155		:
November	1,102	19,314	20,416		
December	1,017	19,716	20,733		
Total	26,418	248,970	275,388		
1933—					
January	901	18,797	19,698		
February	1,074	16,093	19,698 17,167		
March	1,049	15,070	16.119		
April	1,951	16,900	18,851 29,942		
May June	4,470 5,864	25,472	32,532		
July	10,658	26,668 25,135	35,793	• • • • • •	
August	4,582	24,118	28,700	785	29,485
September	6,251	18,214	24,465	2,499	26,964
October	5,658	20,603	26,261	285	26,546
November		23,250	27,668	90	27,758
December	3,698	20,986	24,684	91	24,775
Total	50,574	251,306	301,880	3,750	305,630
1934—				· · · · · · · · · · · · · · · · · · ·	1
January		23,226 21,974	25,664	80	25,744
February	3,076	21,974	25,050	23	25,073
March	3,309	21,368	24,677 23,995	10 46	24,687
April	1,637 1,790	22,358	28,838	1,945	24,041 30,783
June	2,904	27,048 27,006	29,910	3,013	32,923
July	10,978	25,550	36,528	1,606	38,134
August	23,017	24,833	47,850	8.471	56,321
AugustSeptember	12,699	26.588	39,287	12,996	52,283
October	4,553	27,091	31,644	3,667	35,311
November	1,945	31,787	33,732	1,000	34,732
December	2,652	33,109	35,761	7,271	43,032
Total	70,998	311,938	382,936	40,128	423,064
1935—				0.220	40 705
January	1,769	29,778	31,547 29,771	9,238	40,785 34,174
February	1,739	28,032 27,486	29,771	4,403 7,618	37,155
March	2,051 2,453	32,065	34,518	9,137	43.655
May	2,672	33,847	36.519	1,476	43,655 37,995 35,703
May- June- July- August September	2,407	31,714	34,121	1.582	35,703
July	2,646	31,629	34,275	2,719	36,994
* August	6,336	27,930	34,266	6,182	40,448
September	5,598	28,102	33,700	5,433	39,133
October	5,135 3,730	29,460	34,595	3,242	37,837
. November	3,730	32,175	35,905	1,683 599	37,588 45,382
December	3,583	41,200	44,783	777	73,302
Total	40,119	373,418	413,537	53,312	466,849
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<sup>\*</sup>Amount actually received each month—not amount due on contracts.

Source: U. S. D. A., Bureau of Agricultural Economics.

Source: U. S. D. A. Bureau of Agricultural Economics.

#### CHAPTER II. IOWA FARM PRICES

THE fluctuations in Iowa farm income have not often been the result of crop failures and other changes in production, but have been mainly the consequence of variations in prices. The price pattern since the World War is not strange to readers of economic history, however. It is much the same pattern that has followed every great war.

Figure 9 traces the trend of wholesale prices in the United States since 1785. The chart shows that since a few years before the American Revolution there have been four major periods of intense price inflation, each of which was accompanied by a major war to which this country was a party. The chart shows that there was a period of sharply rising prices during each of these wars. Following each period of pronounced inflation there have been periods of depressed price levels, broken, on the average, by two periods of recovery before another major inflationary period, that is, a war occurred.

These four major wars have lifted commodity prices far above ordinary levels. In each case these were periods of "great prosperity" brought on by war activities and war demands.

As fig. 9 gives a general picture of the drift of wholesale prices over a long period, so fig. 10 presents a picture of the drift of farm prices for the past 146 years. Farm prices, as with prices of all commodities, have been subjected to four major inflationary periods during great wars. In the last war farm prices rose more than they ever had before. In earlier inflation periods farm prices did not rise as high relatively as did other prices, since farm production was not commercialized to the extent it is today. At the time of the Revolution, for instance, farmers produced enough for their own living and sold very little in the markets. Farming then was practically a TABLE 12. INDEX NUMBERS OF IOWA FARM PRICES. (1910-1914 = 100.)

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1910	102 94 87	105 89 89	116 86 93	114 82 102	108 79 101	107 78 99	103 84 100	100 94 101 105	103 94 103 108	98 90 105 108	94 86 97 105	90 85 94 103
1913 1914	95 108	100 111	105 111	108 107	103 105	106 105	107 108	110	116	108	101	98
/1915	98	99	99	98	104	104	105	103	102	105	95	91
	96	110	120	117	120	121	122	121	130	127	129	130
	137	154	170	178	186	187	187	196	204	204	193	198
	199	203	206	203	205	199	208	216	222	215	212	215
	222	218	217	230	240	235	242	239	213	190	193	186
1920	197	199	201	200	199	204	203	199	200	180	159	121
	120	117	125	110	107	97	108	113	100	98	93	90
	96	110	119	117	120	122	121	110	109	116	112	113
	115	113	114	118	115	108	110	109	125	121	108	103
	105	106	108	110	110	110	115	134	136	146	131	129
1925	141	142	157	153	148	151	161	158	154	149	142	140
	144	147	144	143	146	153	150	140	146	150	146	143
	143	146	141	138	133	127	132	138	146	151	139	131
	128	126	128	134	147	145	155	149	165	152	139	131
	131	140	155	153	153	152	156	151	152	147	136	132
1930	133	139	136	134	130	128	116	120	134	127	118	109
	107	94	99	97	86	82	85	82	81	75	75	63
	60	54	61	58	51	47	63	61	60	51	49	41
	40	42	48	52	66	63	70	65	64	63	60	50
	51	62	65	63	62	68	73	87	101	91	88	88
1935	111	120	125	125	124	120	115	121	128			:

Source: Iowa Agricultural Experiment Station, Agricultural Economics Section. Based on price reports on fifteenth of the month for 10 major Iowa products.

TABLE 13. INDEX NUMBERS OF UNITED STATES FARM PRICES.

(August, 1909-July, 1914 = 100.)

Year	Jan.	Feb.	Mar.	Apr.	Мау	June	July	Aug.	Sept.	Oct.	Nov.	Dec
910	106	105	105	106	103	102	101	100	102	101	99	99
911	99	96	95	95	95	96	98	98	95	93	92	94
912	96	98	100	104	107	104	101	99	98	98	97	97
913	97	97	98	99	98	100	99	102	105	108	107	10:
914	105	105	104	102	103	103	103	102	99	95	94	95
915	97	98	96	99	101	99	97	95	96	100	101	10
916	104	105	107	110	111	113	114	119	125	131	138	144
917	141	148	156	173	185	186	183	181	183	188	189	19
918	198	200	199	197	196	193	197	207	213	209	205	20
919	206	197	197	206	213	213	220	223	215	219	227	22
920	229	228	229	239	244	242	231	213	197	183	165	14
921	142	130	127	118	113	113	116	123	128	134	130	130
922	123	128	130	130	134	136	134	131	129	133	137	14
923	146	144	143	143	141	137	136	137	142	144	147	14
924	148	147	140	139	137	138	139	147	141	147	145	14
925	155	154	156	152	152	156	158	160	155	156	156	15.
926	153	152	149	151	150	148	144	141	143	138	138	13
927	133	132	131	131	134	138	139	142	148	148	147	14
928	149	144	145	148	155	150	152	145	149	148	146	14
929	147	145	146	144	142	142	147	152	150	149	145	14
930	145	140	135	136	134	131	120	118	120	113		١.,
931	101	95	97	97	92	86	86	82	80	113	110	10
932	71	68	69	67	63	58	63	65	66	64	62	7 6
933	60	55	55	58	68	71	83	79	80	78	80	7
34	77	83	84	82	82	86	87	96	103	102	101	10
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Source: U. S. D. A. Bureau of Agricultural Economics. Based on prices for 27 farm products from price reports on the fifteenth of each month. Taken from Crops and Markets.

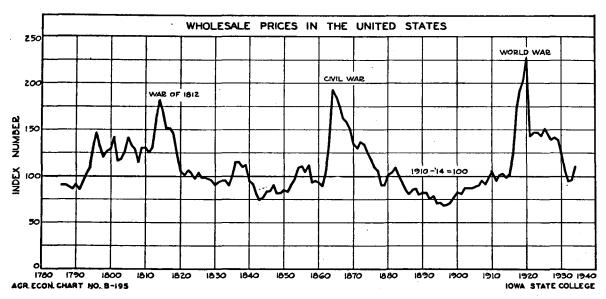


Fig. 9. The economic history of the United States has been punctuated by four periods of intense price inflation. Each period of inflation has been coincident with a major war. This is demonstrated by the graph above showing wholesale prices in the United States since 1785. During

each war there was a rapid rise in prices, and after each war was over, there was a decline which was generally slower than the rise had been.

Data from G. F. Warren and F. A. Pearson, Cornell University, Ithaca, N. Y.

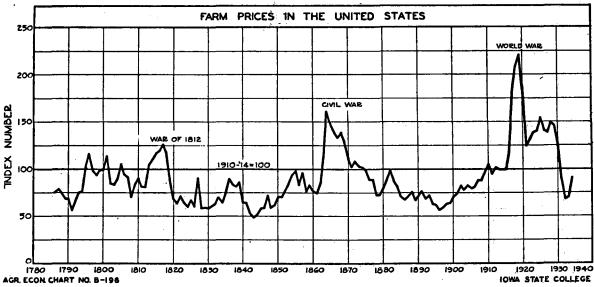


Fig. 10. Farm prices in the United States have followed the same general course since the early days of the Republic that wholesale prices have followed. There is an important difference. If you will examine fig. 11 and fig. 12 you will see that farm prices did not rise nearly as high as other prices during the war periods in the early days. This may be explained by the self-sufficient nature of agriculture at that time. Commercialization of agriculture has been a development of comparatively recent years. At the time of the

Revolution virtually all the hogs the farmer fed were slaughtered for his own family's use or else traded to the shoemaker for boots. The commercialization of agriculture has brought the farmer a much higher standard of living, but it has also exposed him to the same pull and tear of world price fluctuations that affect all other classes in an

industrialized country.

Data from G. F. Warren and F. A. Pearson, Cornell University, Ithaca, N. Y.

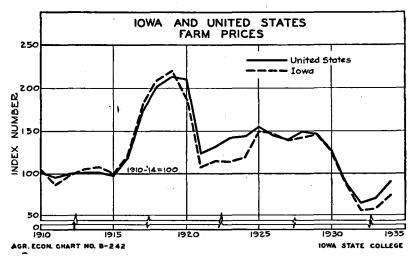


Fig. 11. This chart compares the price levels of Iowa and United States farm products since 1910. In general the two price curves tend to follow the same trends. The war peak was reached at approximately the same time. In the period immediately after the war, up to 1925, the United States farm price level was somewhat higher than the Iowa level.

Data in tables 12 and 13.

self-sufficient enterprise. The commercialization of agriculture has brought with it a vast increase in the standard of living of farmers, but it has also subjected them to the buffeting and grinding of great rises and declines in prices.

Since 1910 production in Iowa has been gradually and steadily increasing. Production itself, besides becoming greater in volume, has become more efficient during the last two decades since the beginning of the World War.

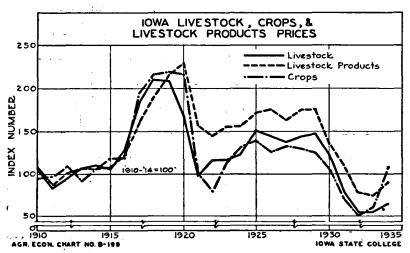


Fig. 12. Since 1919 the price of livestock products, including butter and dairy products, eggs and poultry have been maintained at a higher level than the price of livestock or of crops, when the three groups are compared with their 1910-14 level. Since 1925 livestock and livestock products prices have been considerably higher than crops prices. This is significant when it is realized that these two groups furnish over 85 percent of the total Iowa gross income. During 1934 prices of crops advanced much more than prices of livestock or livestock products because of the drouth which reduced yields.

Data in table 15.

But in spite of a fairly uniform and gradual increase in production, the gross income of the state has not, especially since the war era, maintained the gradual increase that has occurred in production. Instead, it has fluctuated from year to year, and on the whole, especially since 1929, has decreased. On the surface it would seem, during the past 24 years, that if the production of Iowa agriculture was increasing, the income from it should increase.

Production is only one of the income-governing variables, however, price being equally important. The price situation during the past 24 years has been very unstable, so that instead of income increasing in direct relation to production, it has fluctuated considerably.

Occasionally production has declined because of unfavorable weather conditions, but during the 24-year period, 1910-33, Iowa did not experience a crop failure, and the fluctuations from a normal crop were not enough to cause any wide variation in total state income. Because it has a diversified agriculture, and because of its livestock industries, Iowa has made use of available crops, such as soft corn, so that such a failure, though it has been hard felt by individuals, has not curtailed production significantly.

The increases and decreases in Iowa income shown in the chapter on income, are only to a minor extent due to production changes. The differences in Iowa agricultural income have come, in the main, from extreme changes in farm prices. In general, the peak years in farm prices have been peak years in Iowa income, and years of low income have been years of depressed prices.

These wide changes in Iowa farm prices are a part of the broader and universal price changes which have affected the nation since 1910. A comparison of fig. 9 with fig. 10 will point to the fact that changes which affected the general price level also affected farm prices.

The course which the level of Iowa farm prices has followed since 1910 is shown by the dashed line

on fig. 11. In this chart the average annual index of farm prices for Iowa and the United States are shown on the basis of the 1910-14 average set at 100. In other words, the price level of any year is expressed in the percentage that it is of the five pre-war years, 1910-14. Farm prices rose rapidly during the war, but they fell rapidly in the crash in the general price level following the war. By 1921 the index of Iowa farm prices stood at 106, only 6 points above the pre-war level. In 1919 the level of Iowa farm prices was about 120 points higher than the 1910-14 base. Instead of stopping at the 1921 depression level, Iowa farm prices recovered and increased substantially during the twenties until 1929 when economic placidity was again disturbed by the upheaval which sent farm prices, in 3 years, to an unprecedented low. In 1932 the index of farm prices was 55, 45 percent lower than the 1910-14 level.

From 1915 to 1919, inclusive, Iowa farm prices were a trifle ahead of farm prices of the United States. But when the first postwar decline began in 1920, Îowa farm products felt the decline more than the agricultural produce of the country as a whole and the United States level remained slightly higher than Iowa's. This situation obtained until 1925 when both levels were about 150 percent of that of the 5 pre-war years. From 1925 to 1932, Iowa's farm prices were about equal to the national agricultural level. The 1929 level of Iowa farm prices was 146 percent of the 1910-14 level. In 1932, 1933 and 1934 the United States farm price index was higher than Iowa's. The index number of United States farm prices in 1933 was 70. Iowa's index was 13 points lower. The 1932 level was the lowest point ever reached by both Iowa and national farm prices.

#### Iowa Farm Prices by Groups

Figure 12 shows the major trends of three groups of Iowa farm products—livestock, livestock products and crops. The in-

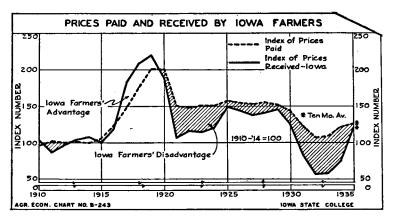


Fig. 13. During the war-time period of inflated prices the prices paid Iowa farmers for their products rose more rapidly than the prices farmers were paying for the commodities they bought. Following the war the prices of farm products dropped far below the level which retail prices maintained. The shaded areas show the farmer's disadvantage. The index of prices paid is prepared by the Bureau of Agricultural Economics of the U. S. D. A. Groups of commodities included are food, clothing, furniture, household operating expense, building materials, farm machinery, fertilizer, seeds, feeds, wages paid to hired labor and equipment and supplies.

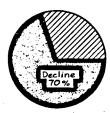
Data in table 14.

dex numbers of these groups, constructed from the annual index numbers of several commodities included in these groups, may be found in table 15. Roughly, they follow the general trend of Iowa farm prices from 1910 to 1933, except for the trend of the livestock products group. This

group of Iowa farm products has followed a path that has been rather advantageous for the Iowa farmer, as is evident by the chart. The price level of this group lagged a trifle behind the others in the war era and did not reach its height until 1920 when it was 227 percent of the average for

## UNEQUAL DECLINES IN PRICES FARMERS PAY AND RECEIVE

FEB. 1929 TO FEB. 1933







Iowa United States Farm Products Prices Prices Farmers Pay AGR. ECON. CHART NO. 8-230

Exchange Value of Iowa Farm Products IOWA STATE COLLEGE

Fig. 14. Prices for Iowa farm products were 70 percent lower in February, 1933, than in the same month in 1929, just before the depression began. Prices farmers pay during the same period declined only 35 percent. Using these figures as a basis, it is estimated that the value of Iowa farm products in terms of what farmers buy declined 54 percent during the 4 years of unequal prices. Data in tables 20 and 16.

TABLE 14. INDEX NUMBERS OF FARM PRICES AND EXCHANGE VALUES OF FARM PRODUCTS.

1	a	1	۸	. 1	4	_	1	^	^	١	

				,	
	· Iowa			Inited Sta	tes
·	Annual index of farm prices	*Ex- change values of farm products	Prices paid by farmers	Annual index of farm prices	bEx- change values of farm products
1910 1911 1912 1913 1914 1915 1916 1917 1918 1919 1920 1921 1922 1923 1924 1925 1926 1927 1929	103 87 98 104 107 120 122 209 220 188 107 114 113 119 156 139 141	105 86 98 103 107 95 97 122 119 109 94 70 77 74 78 96 94 91	98 101 100 101 105 124 149 202 201 152 149 152 157 155 153	102 95 100 101 101 98 118 175 202 213 211 125 132 142 143 156 145 139 149	104 94 100 100 101 93 95 117 105 105 82 89 93 94 99 94
1930 1931 1932 1933 1934	127 86 55 57 74	93 88 69 51 52 61	145 124 107 109 122	126 87 65 70 90	95 87 70 61 64 74

1Weighted annual index.
2Ratio of 1 to 3.
8Index of Bureau of Agricultural Econom-

ics.

4Index of Bureau of Agricultural Econom-

\*Inuca ...

\*Fraction of 4 to 3.

Source: Annual indices of Iowa farm prices and exchange value Iowa Agr. Ex. Sts. Ag. Economics Sec. Other indices from U. S. D. A. Bureau of Agricultural Economics.

TABLE 15. ANNUAL INDEX NUMBERS OF IOWA FARM PRICES FOR THREE MAIN GROUPS.

	(191	0-14 = 100	·.)	
Year	Livestock	Livestock products	Crops	Total
1910	105	106	97	103
1911	84	88	98	87
, 1912	94	101	108	98
1913	105	105	93	104
1914	109	106	105	107
1915	104	106	118	100
1916	128	122	119	120
1917	187	161	195	183
1918	210	190	217	209
1919	209	216	219	219
1920	168	230	216	188
1921	99	156	101	106
1922	116	146	72	114
1923	117	155	113	113
1924	123	155	133	120
1925	150	172	139	150
1926	145	176	127	146
1927	139	164	135	139
1928	147	177	132	142
1929	148	177	124	146
1930	123	137	104	127
1931	80	110	71	85
1932	55	80	52	55
1933	55	75	60	57
1934	66	93	108	75
	1			Ī

Source: Derived from table 18.

1910-14. In 1921, a depression year, the crops index was 101, the livestock 99 and the livestock products 156. In 1929, it was 29 points above the livestock level and 53 points above the crops

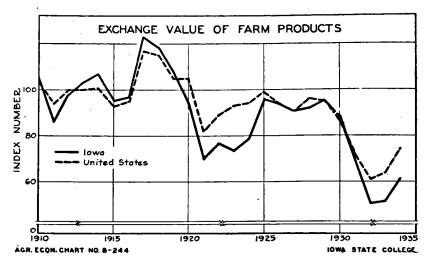


Fig. 15. This chart shows the changing relationship of prices farmers pay and prices farmers receive. By 1917 the Iowa farm price level had reached a point well above the pre-war, 1910-14, level. Prices paid Iowa farmers were rising more rapidly than prices which they were paying, and a given quantity of Iowa farm products would buy over 20 percent more commodities farmers buy than they would have before the war. In the latter part of the war era, retail prices caught up and passed prices paid for farm commodities, forcing down the exchange value of farm products. 1920 to 1928 the exchange value of United States farm products was a trifle higher than that of Iowa. farm products was a trifle higher than that of Iowa.

Data in table 14.

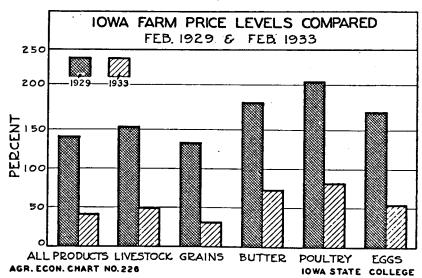


Fig. 16. A four-year period of price deflation in Iowa farm prices, from February, 1929 to February, 1933 shows a reduction of 70 per cent in the price level of Iowa farm products. Grains took the greatest drop, falling to 31 per cent of the base period. Poultry and butter stood up best while the livestock price level fell to approximately half that of the base period.

The index for livestock is an average of the price relatives of hogs, cattle and sheep. The grain index is an average of the price relatives of some set and wheat

sheep. The grain index is an average of the price relatives of corn, oats and wheat.

Data in table 16.

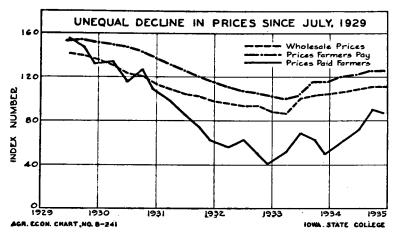


Fig. 17. During periods of price recession, various types of prices decline at different rates. Prices of raw materials, and especially farm products, have declined rapidly since July, 1929. In July, 1933, Iowa farm prices were only 46 percent of the July, 1929 level. Wholesale prices of all commodities retained more stability and were 72 per cent of the July, 1929 level. Retail prices of things farmers buy also maintained a higher level than farm prices, and were 68 percent of the July, 1929 level. Since the low point was reached, farm prices have risen faster than wholesale prices and prices of things farmers buy.

Data in tables 12, 19 and 20.

level. The price trends of these groups show the advantage that dairy and poultry products have had over crops and meat animals during the last few years. In 1933 the livestock products index number was 75 percent of the prewar level while the livestock index was 55 percent and the crops index 60 percent of the 1910-14 level.

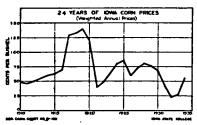


Fig. 19. In general, the curve of corn prices has followed that of the farm price level of the state during the 24-year period, 1910-1933. The highest price paid for Iowa corn was in August, 1917, when the average price for that month was \$1.84 per bushel. Since 1920 there have been three periods of severe decline in corn prices, 1921, 1926 and 1929-33. The lowest price paid for corn in 1933 was during January when the average price was 12 cents per bushel.

Data in table 17.

#### Prices Paid and Received by Iowa Farmers

Figure 13 shows the relationship of prices Iowa farmers pay to the prices paid them for the farm products which they sell. This relationship is of great importance to any producer because if there is a drastic difference between the two, that is, if the prices producers pay are much higher than those they receive, they will have a difficult time making ends meet.

The data for prices paid by farmers is based on retail prices for the whole United States. They are probably fairly accurate indicators of prices Iowa farmers pay, however.

It is assumed that the base period here used, 1910-14, was one of equilibrium when the relationship between prices paid and received was equitable. Taxes, interest, rent, wages and insurance are not included in the index of prices paid, so a completely accurate picture of the relationship between what the farmer sells and buys is not shown. It should further be pointed out that this price relationship is not neces-

sarily a picture of agricultural well-being. Changes in productive efficiency are not taken into consideration. For instance, if farm efficiency increased faster than industrial efficiency, then the old price relationships would not be expected to hold.

The farmer produces raw material, but he buys retail products. He produces corn, wheat, beef or pork and sells it on the wholesale market. His expenditures are almost wholly made in retail markets. If changes in the general price level affected retail and farm product prices identically, the farmer's trouble, especially during the past dozen years, would not have been so acute.

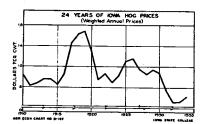


Fig. 18. Variations in the price of hogs have a tremendous effect on Iowa agriculture, for income from hogs amounts to about 40 percent of Iowa's total gross farm income. From 1915 to 1919 there was a great rise in the price of hogs. The highest price paid for Iowa hogs was in July, 1919, when the average monthly price was \$20.80 per hundred. After 1921 there was a slump, but prices recovered and gradually increased until 1926 when a downward trend began.

Data in table 17.

But it is a well known fact that when there is a general increase in prices, those of raw materials, such as farm products, tend to rise faster than retail prices. Similarly, in a period of falling prices, those of farm products tend to fall faster than retail prices.

This is what happened to the relationship between Iowa farm and retail prices from 1910 to date.

For 4 years, 1916 to 1920, Iowa farmers found themselves with a considerable advantage in the price situation, for retail prices during this period lagged in the inflationary movement. Not until 1920 did the farmer's margin

TABLE 16. MONTHLY INDEX OF IOWA FARM PRICES BY COMMODITIES.

Mon	thly I	ıdex o	lows	Farm	Price	of Ho	gs (19	10-191	4 = 10	00.1			Ma		Indo-	obiti	. Wa-	n Dala			10101	4 10	۰.		
Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	D			1			1			ı	4 = 10	ī		
						June	- July	Aug.	<b>зер</b> г.	- Oct.	Nov.	Dec.	Yевг	Jan.	Feb.	Мат.	Apr.	Мау	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1910	107 103 77 95 105	111 95 78 103 110	131 88 82 111 111	130 79 99 116 111	118 74 97 105 107	121 74 95 110 103	112 81 95 114 110	104 95 104 108 116	115 90 107 105 114	108 81 112 104 99	100 78 99 100 93	95 77 96 97 89	1910	125 99 86 98 106	113 96 89 106 104	125 99 91 118 100	135 101 101 118 111	128 100 105 113 106	121 94 100 106 104	121 93 93 104 100	104 88 95 91 113	107 87 91 102 104	104 82 93 93 104	103 81 90 100 111	101 82 93 100 109
1915	88 85 134 214 225	85 103 156 210 226	85 123 189 222 238	89 123 210 225 256	95 125 207 227 267	96 121 203 216 264	95 125 199 223 285	88 127 215 246 275	92 136 231 252 212	101 123 231 233 183	84 125 216 225 185	79 123 222 225 168	1915	106 118 189 228 222	113 138 200 239 220	120 146 211 242 253	126 146 215 255 271	124 151 244 264 275	118 142 215 279 226	120 144 191 248 204	111 133 186 251 206	106 138 233 251 193	115 135 251 217 191	111 146 220 213 160	115 164 213 206 177
1920 1921 1922 1923 1924	185 115 93 105 88	189 115 121 103 86	190 126 133 101 89	188 105 129 101 92	185 101 131 96 90	183 96 131 82 .88	192 114 130 88 89	192 125 118 90 119	200 95 108 108 119	189 95 112 96 137	160 84 101 85 116	114 82 101 84 112	1920. 1921. 1922. 1923.	220 102 98 142 140	233 84 135 142 140	215 100 157 144 155	239 100 157 144 166	253 118 151 131 155	206 104 129 142 146	169 95 133 135 138	153 98 115 124 144	138 80 115 129 155	138 84 120 149 155	131 84 113 140 157	109 84 133 144 162
1925	130 148 149 104 111	134 162 155 101 123	173 160 149 100 145	167 156 140 107 148	153 164 126 123 140	152 178 110 120 136	171 174 112 136 145	170 153 122 140 140	157 160 131 159 129	149 163 138 129 122	141 152 120 114 115	140 148 107 108 116	1925	173 173 140 151 157	177 160 151 162 173	177 169 164 162 171	157 173 169 162 164	164 175 166 173 153	140 173 149 153 162	162 137 144 149 140	144 160 133 149 138	146 151 151 164 137	160 137 146 155 131	160 133 142 151 131	189 144 140 149 131
1930	120 97 47 33 39	133 88 44 38 52	134 93 52 44 52	126 93 47 44 47	125 84 37 56 41	125 74 34 55 49	112 82 58 54 55	116 81 53 51 66	131 71 49 49 85	121 60 41 56 70	111 56 38 49 70	100 47 33 37 70	1930	131 84 44 39 61	137 84 49 47 83	133 89 58 45 79	129 91 58 45 75	120 80 44 59 67	120 75 42 53 67	100 55 42 49 61	84 55 42 52 52	91 49 44 50 51	87 51 44 53 51	82 55 43 49	89 49 37 59
935		104		112		120	121	149			l	<u></u>	1935	82	84	86	93	91	82	77	78				
Month	ly Ind	ex of 1	ows F	arm P	rice of	Beef (	lattle (	(1910-	1914 =	100.)			Mon	thly I	ndex o	f Iowa	Farm	Prices	of Bu	tter (1	1910-1	4 = 10	0).		
Year	Jan.	Feb.	Mar.	Apr.	Мау	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year	Jan.	Feb.	Mar.	Apr.	May	June	l i		l e l	Oct.	Nov.	Dec.
1910	76 88 86 102	80 89	98	104	102	100													June	July	Aug.	Sept.	0	1104.	
	110	90 106 114	91 93 111 116	91 98 116 116	87 99 111 114	86 99 111 116	94 87 101 113 121	92 88 101 110 122	92 88 103 113 121	90 85 102 111 116	86 84 98 111 110	84 83 98 108 108	1910	118 94 118 114 114	110 87 110 110 114	110 83 102 110 98	102 79 102 114 94	98 79 102 110 94	94 75 94 102 94	94 79 94 98 98	102 87 94 98 98	102 94 94 102 102	102 94 102 106	106 102 110 110 110	106 110 114 114 110
1915		90 106	93 111	98 116	99 111	86 99 111	87 101 113	88 101 110	88 103 113	85 102 111	84 98 111	83 98 108	1911 1912 1913	94 118 114	87 110 110	83 102 110	79 102 114	98 79 102 110	94 75 94 102	94 79 94 98	102 87 94 98	102 94 94 102	102 94 102 106	106 102 110 110	110 114 114
1915	110 105 108 128 155	90 106 114 102 113 139 161	93 111 116 102 119 136 163	98 116 116 103 116 158 186 221 169 108 102 116 117	99 111 114 110 125 160 199 213 157 106 105 111	86 99 111 116 114 133 161 197	101 113 121 122 128 160 200	101 110 122 116 122 160 193	88 103 113 121 111 127 166 202	85 102 111 116 113 122 163 186	98 111 110 106 122 158 186	83 98 108 108 105 124 152 183	1911 1912 1913 1914 1915 1916 1917	94 118 114 114 114 110 138 169	87 110 110 114 114 114 138 181	83 102 110 98 110 106 142 173	79 102 114 94 102 114 138 161	98 79 102 110 94 102 114 150 158	94 75 94 102 94 98 106 146	94 79 94 98 94 98 102 134 158	102 87 94 98 98 94 106 138 161	102 94 94 102 102 98 110 146 161	102 94 102 106 106 106 98 118 158 201	106 102 110 110 106 102 126 169 209	110 114 114 110 106 142 173 216
1915. 1916. 1917. 1918. 1919. 1920. 1921. 1922. 1923.	110 105 108 128 155 194 174 110 91	90 106 114 102 113 139 161 200 164 99 94 110	93 111 116 102 119 136 163 211 169 114 100 105	98 116 116 116 158 186 221 169 108 102 116 117 139 127 133 160 171	99 111 114 110 125 160 199 213 157 106 105 111 119 128 121 135 160 175	86 99 111 116 114 133 161 197 186 186 96 110 124	87 101 113 121 122 128 160 200 193 166 100 119 121 114 146 124 141 178 185	88 101 110 122 116 122 160 193 197 163 108 113 117	88 103 113 121 111 127 166 202 185 171 96 114 128	85 102 111 116 113 122 163 186 158	84 98 111 110 106 122 158 186 180 141 89 114 110	83 98 108 108 105 124 152 183 182 110 91	1911 1912 1913 1914 1915 1916 1917 1918 1919 1920 1920 1921 1921 1922	94 118 114 114 110 138 169 236 252 181 150 181	87 110 110 114 114 114 138 181 201 232 169 118 165	110 98 110 106 142 173 171 228 158 122 169	79 102 114 94 102 114 138 161 193 224 153 126 169	98 79 102 110 94 102 114 150 158 212 224 146 126	94 75 94 102 94 98 106 146 153 205 212 98 126	94 79 98 98 94 102 134 158 189 205 106 126 146	102 87 98 98 98 106 138 161 201 209 130 122	102 94 102 102 102 98 110 146 161 201 205 142 126 153	102 94 102 106 106 106 118 118 201 209 212 146 134	106 102 110 110 106 102 126 169 209 228 212 158 150	110 114 114 110 106 142 173 216 248 216 158 165 185
1915 1916 1917 1918 1919 1920 1921 1922 1923 1924 1925 1926 1927 1927	110 105 108 128 155 194 174 110 91 110 110 116 125 124	90 106 114 102 113 139 161 200 164 99 94 110 111 114 125 127 166	93 111 116 102 119 136 163 211 169 114 100 105 113 125 127 130 161	98 116 116 103 116 158 186 221 169 108 102 116 117	99 111 114 110 125 160 199 213 157 106 105 111 119 128 121 135 160	86 99 111 116 114 133 161 197 186 96 110 124 117 133 125 136 166	87 101 113 121 122 128 160 200 193 166 100 119 121 114 146 124 141 178	88 101 110 122 116 122 160 193 197 163 108 113 117 122 150 124 144 182	88 103 113 121 111 127 166 202 185 171 96 114 128 119 146 128 159	85 102 111 116 113 122 163 186 158 153 94 124 119 125 146 131 152	84 98 111 110 106 122 158 186 180 141 110 117 130 122 158 174	83 98 108 108 105 124 152 183 182 110 91 114 110 111	1911 1912 1913 1914 1915 1916 1917 1918 1919 1920 1921 1922 1923 1924 1925 1925 1926 1927	94 118 114 114 110 138 169 236 252 181 150 181 185 165 177 181	87 110 114 114 114 138 181 201 232 169 118 165 181 146 165 177 185	83 102 110 98 110 106 142 173 171 228 158 152 169 171 153 165 181	79 1024 94 102 114 138 161 193 224 153 126 158 157 181	98 79 102 110 94 102 114 150 158 212 224 146 1268 142 153 157 177	94 75 94 102 94 106 146 153 205 212 98 126 153 142 146 161 163 177	94 79 94 98 98 98 102 134 158 189 205 146 146 150	102 87 94 98 98 94 106 138 161 201 209 130 122 142 146 161 153 161 177	102 94 94 102 102 98 110 146 161 201 205 142 126 153 142 161 161 161 168	102 94 102 106 106 118 118 158 201 209 212 146 134 165 177 189	106 102 110 110 106 102 126 169 209 228 212 158 150 169 150	110 114 114 110 106 142 173 216 248 216 158 165 185 161 181 185 189 193

#### Monthly Index of Iowa Farm Price of Poultry (1910-14 = 100). Monthly Index of Iowa Farm Price of Corn (1910-14 = 100). Year Jan. Feb. Mar. Dec. Feb. | Mar. Apr. May June July Aug. Sept. Oct. Nov. Year Jan. Apr. | May | June | July | Aug. | Sept. Oct. Nov. Dec. 88 88 98 107 90 92 96 104 90 102 68 102 70 108 70 106 72 106 1912 95 104 112 96 108 118 99 114 112 102 123 123 1911..... 133 91 115 98 98 96 96 125 1912..... 100 121 76 110 112 106 112 114 120 123 108 107 1913..... 112 129 123 133 1914..... 1914..... 115 151 198 202 130 161 225 235 108 118 153 120 163 208 230 142 182 239 235 117 170 127 271 261 1915..... 1916..... 1917..... 166 202 245 159 155 235 245 179 158 1916. 1917. 159 193 238 286 257 310 339 269 331 348 280 318 272 290 238 231 174 209 223 219 1918..... 215 235 204 1918..... 246 235 248 278 1919..... 1919...... 1920..... 225 184 171 166 194 184 184 182 91 64 215 184 204 184 174 173 194 194 174 181 174 174 174 179 215 184 174 163 153 163 188 163 148 87 78 87 87 80 91 133 125 53 102 1922 184 154 153 95 144 199 1921..... 95 136 129 95 140 178 95 140 193 98 144 191 87 110 184 188 1923..... 172 187 174 119 125 127 180 - 146 1923..... 1924..... 1925..... 209 198 190 212 209 197 187 215 213 195 189 216 218 190 191 224 215 171 218 182 201 227 196 183 212 199 186 183 1925..... 108 112 144 148 138 180 168 163 114 108 161 180 144 117 167 178 153 131 170 168 170 127 197 186 208 224 174 197 223 179 219 220 1926..... 1926..... 131 1927.... 136 134 153 148 145 159 1927.... 1928..... 144 142 228 180 1928..... 134 131 1929..... 1929..... 1930..... 126 93 77 110 1930..... 89 47 89 96 81 47 70 127 70 40 68 134 53 26 45 134 66 25 61 142 109 80 87 113 76 94 107 92 96 89 82 95 102 92 104 110 86 103 88 69 77 68 1931..... 111 55 23 68 55 25 70 51 38 68 47 59 72 44 57 89 23 66 170 1932.... 75 78 83 129 23 70 1933..... 1933..... 95 1934..... 1934..... 1935.....l 1935.... Monthly Index of Iowa Farm Price of Oats (1910-14 = 100). Monthly Index of Iowa Farm Price of Eggs (1910-14 = 100).

Year	Jan.	Feb:	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1910	142 166 136	142 106 154 118 154	118 83 118 101 130	106 83 101 89 95	106 83 95 89 95	95 71 95 95 95	89 71 95 89 95	95 77 95 83 95	106 95 106 95 112	124 106 118 112 124	142 130 142 136 124	154 154 142 171 154	1910	78	119 75 128 81 99	119 75 133 81 99	113 75 142 84 99	107 81 145 87 99	104 93 136 93 102	104 102 116 99 99	93 104 87 99 90	81 110 75 104 113	81 116 81 104 116	78 119 81 99 113	78 119 81 99 119
1915 1916 1917 1918 1919	166 207 248	177 160 213 278 266	130 130 195 225 177	95 101 148 177 201	101 106 177 183 219	95 124 183 166 225	89 130 160 166 201	89 130 166 195 219	95 124 189 195 219	118 130 201 231 242	136 136 207 248 301	160 142 231 301 337	1915	125 104 133 206 186	139 125 148 220 157	145 113 148 241 157	148 110 162 244 168	145 110 183 238 186	139 107 177 200 180	122 104 180 206 189	125 102 197 194 203	93 113 148 180 183	87 119 157 186 174	90 f31 157 180 177	93 139 183 186 186
1920	331 236 236	313 272 160 154 183	248 154 130 136 106	219 106 118 130 106	219 101 124 124 112	213 95 124 106 118	201 118 106 106 124	225 148 101 118 148	242 160 106 160 183	272 177 171 189 213	312 242 225 254 242	361 284 260 242 266	1920	107	218 93 78 104 116	218 99 87 110 119	238 90 84 107 119	264 81 87 113 119	270 87 89 110 122	278 78 87 107 133	191 73 78 87 125	171 61 73 90 119	139 67 81 96 128	122 61 93 102 122	104 67 102 107 139
1925 1926 1927 1928 1929	189 195 213	195 148 160 154 171	130 130 112 130 154	136 148 118 136 130	142 148 112 148 142	148 148 89 136 148	154 142 112 142 148	166 142 124 148 160	160 171 154 165 183	207 201 195 177 201	248 236 219 195 236	260 260 236 230 254	1925	104 113 136	148 99 113 142 122	131 99 116 148 119	110 99 113 154 116	119 102 122 171 116	128 99 131 171 107	116 96 125 154 110	102 99 116 90 107	96 93 116 93 113	93 102 122 101 116	93 102 122 102 110	99 104 133 110 110
1930. 1931. 1932. 1933.	106 83 108	160 65 63 52 78	112 100 49 50 77	118 89 52 56 74	106 68 57 70 74	95 70 51 46 64	89 74 59 66 65	100 88 77 57 87	124 89 85 72 110	118 110 118 99 115	154 137 141 120 148	136 130 159 103 146	1930	78 61 29	110 75 61 29 84	104 75 61 29 81	107 75 61 29 75	102 70 55 52 78	99 67 49 58 104	84 61 41 104 110	93 49 35 78 122	93 49 35 78 136	87 49 28 61 139	75 61 29 78 142	81 61 29 78 154
1935	1	143	105	117	124	1. 115	119	121	l	l	l	l <u>.</u>	1935	154	154	151	142	130	104	78	64	<u> </u>	<u> </u>	<u> </u>	<u> </u>

TABLE 16. MONTHLY INDEX OF IOWA FARM PRICES BY COMMODITIES-Continued.

Monthly Index of Iowa Farm Price of Wheat (1910-14
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Year	Jan.	Feb.	Mar.	Apr.	Мау	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1910	113	114	114	113	111	108	111	112	108	106	102	99
1911	101 10 <b>5</b>	99 106	94 108	96 111	96 114	96 115	107	94 99	100 96	105 95	105 94	104 91
1913	189	94	93	93	94	94	96	92	92	91	88	89
1914	89	91	93	93	94	95	91	86	106	111	113	113
1915	121	148	161	148	160	154	124	122	108	102	105	102
1916	114	121	115	112	114	111	111	119	148	160	182	183
1917	- 173	193	188	211	271	278	253	271	239 234	235 236	231 232	234 235
1918	234 239	238 238	239 239	245 246	243 260	242 251	238 246	235 239	232	229	232	235
1919	239	230	239	240	200	201	1.0					
1920	248	256	252	252	268	278	278	253	243	239	208	163
1921	159	158	163	141	126	140	125	118	111	115 106	102 108	104 116
1922	105	106 115	132	127 119	134 124	128 120	114 107	109 94	98	104	109	105
1923	119 109	112	116 112	107	107	108	122	132	129	140	144	153
							٠			153	160	176
1925	174	195	192	162	171	171 165	155 146	168 146	166 140	143	142	146
1926	185 145	180 145	171 143	166 138	167 145	151	149	145	142	139	135	139
1928	138	139	142	148	163	155	143	115	109	119	116	119
1929	120	122	124	119	109	108	119	134	132	132	122	126
1930	126	119	109	109	105	102	85	91	86	81	74	78
1931	74	73	74	74	74	71	47	44	44	44	56	51
1932	49	49	51	51	. 48	46	40	44	44	41	40	38
1933	40	40	42	52	68	71	103	88	85	75	86	83
1934	83	87	85	82	82	98	98	109	113	109	109	116
1935	112	110	105	109	109	96	92	100		١	1	l

Monthly Index of Iowa Farm Prices of Hay (1910-14 = 100).

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1910		96	94	88	81	81	82	86	90	91	92	91
1911	. 92	88	85	83	84	84	111	132	121	116	120	117
1912	. 120	134	134	152	160	149	122	92	83	81	86	86
1913	. 99	95	89	98	91	93	86	80	92	96	98	98
1914	. 100	102	97	100	102	106	102	96	105	105	102	103
1915	. 109	119	123	131	128	126	114	93	91	91	91	89
1916	. 91	95	93	94	96	100	97	85	85	86	89	92
1917 <i></i>	. 97	103	105	111	126	144	147	134	148	148	161	171
1918	. 193	212	200	183	168	158	157	142	157	174	175	185
1919	. 186	192	198	199	215	219	196	171	171	168	169	177
1920	. 189	198	214	212	227	227	220	183	181	182	158	165
1921		115	126	121	117	114	105	100	104	100	92	95
1922	. 98	97	100	100	102	103	102	96	99	98	97	102
923	. 110	104	108	112	114	117	116	113	113	118	118	127
1924	. 127	132	137	143	142	137	132	120	119	112	115	102
1925	. 108	1111	107	118	109	106	113	116	112	111	127	.130
1926		137	140	136	148	144	136	147	141	144	150	149
927		160	160	158	158	153	127	118	114	117	117	124
1928	122	119	119	119	127	132	123	122	121	119	122	127
1929	. 129	139	147	142	137	131	104	105	97	93	102	97
1930	. 97	96	92	92	92	93	86	95	100	99	100	99
1931		88	82	83	83	81	83	83	83	79	80	88
932	. 83	89	94	102	100	88	72	71	65	66	59	58
1933	. 54	49	47	50	49	50	53	56	61	59	63	60
1934	. 61	65	71	75	82	106	119	146	142	147	155	160
1935	. 163	172	176	169	168	140	85	68	١		١	١

disappear, and by the end of 1920 the relationship was reversed. The index of retail prices during that year was 13 points above the index for Iowa farm prices. Since then the price relationship has been more or less unfavorable to farmers. During the years between 1925 and 1929 the farmer was in a fairly good position in the price structure, due chiefly to favorable livestock prices, but retail prices remained at a level slightly higher than farm prices. Since 1929 the principle that retail goods lag in price movements, especially in comparison with farm prices, has been re-verified. Farm prices were among the first to feel the depression and have shown an extremely sharp decline since then. Retail prices have declined also but at a more moderate rate, and the disparity between

the prices paid farmers and the prices they pay for commodities became wider than ever.. The index of Iowa farm prices for 1933 was 57. For prices farmers pay, or retail prices, it was 109, a margin of 52 points of disadvantage to the farmer.

#### Exchange Value of Iowa Farm **Products**

The exchange value or purchasing power of farm products illustrates more accurately than farm prices the periods of good and bad times for farmers. The index of Iowa exchange value is determined by finding the ratio of prices Iowa farmers receive to prices United States farmers pay. The index of exchange value for the whole country is determined by finding the ratio of the index of United States farm prices to the index of prices paid.

Figure 15 shows the trend of exchange value of Iowa and United States farm prices since 1910 to 1933. The exchange values of Iowa and United States farm prices for the 5-year period before the World War have been taken as 100 percent. In 1917 the relationship had changed somewhat, and the value of Iowa farm products had been so far enhanced that the farmer could buy over 20 percent more with a fixed quantity of farm goods than he could with the same quantity in the pre-war

period.

Since 1920 the exchange value of both national and Iowa farm products has been below that which prevailed from 1910-14.

#### Iowa Farm Price Levels Compared

In February 1929, the year preceding the depression, the Iowa farm price level was 40 percent higher than the 1910-14 level. Four years later, February 1933, the state's price level had dropped 58 percent below the pre-war level. In comparison, the February 1929 farm price level for the whole United States was 45 percent higher than the pre-war level. By February 1933 it was 45 percent below the pre-war price level. During this 4-year period, February, 1929-33, the price level of Iowa's farm products had been reduced 70 percent. The national price level had similarly been reduced 62 percent.

Figure 16 shows the price change of Iowa farm products since 1929, and changes for these products grouped into livestock, grains, butter, eggs and poultry.

In comparing the two important groups of farm commodities, livestock and grains, the grain group shows the sharpest decline, falling from 131 to 31 percent of the base period, a decline of 76 percent. The corn price decline exceeded by far that of the other two grains, oats and wheat. It declined 84 percent in the 4-year period. The price level of wheat during the same time declined 67 percent, and the oat price level dropped 76 percent.

In February 1929, the corn price level was 148 percent of the 1910-14 average. In 1933 it was 23 percent of the level for the same period. The index of the oat price level for February 1929 was 122 percent of the 1910-14 level, and in February 1933 it had declined to 29 percent of the prewar level. The wheat price level in February 1929 was 122 percent of the 1910-14 average, and for the same date 4 years later, the price level had declined to 40 percent of pre-war.

During the 4-year period since February 1929, the price level of Iowa eggs declined 70 percent. In February 1929 the price level of Iowa eggs was 171 percent of the pre-war level and in the same month of 1933 it had declined until it was only 52 percent of the 1910-14 level.

In the 4-year period from February 1929 to February 1933 the level of Iowa poultry prices declined 62 percent. In February 1929 the price level of Iowa poultry was 212 percent of the prewar level, and in the same month of 1933, it had declined to 80 percent of the 1910-14 average.

For the same period the price level of butter also declined 62 percent. In February 1929 the

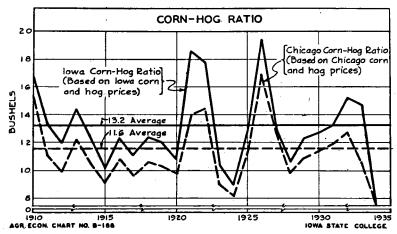


Fig. 20. During the 24-year period, 1910-1933, it required an average of 13.2 bushels of corn to buy 100 pounds of live hogs in Iowa. The average ratio of corn to hog prices at Chicago was 11.9 in this period. Data in tables 21 and 22.

level of butter prices in Iowa stood at 185 percent of the five-year (1910-14) average of 100. In 1933, the same month, the price level had declined to 71 percent of the pre-war level.

Of the 10 leading Iowa farm products, cattle, poultry and butter declined the least during this 4-year period. Iowa corn showed the highest percentage of decline. Iowa hogs, furnishing annually approximately 44 percent of the state's gross income, declined 69 percent. The seriousness of this

decline in hog prices has been brought home to the Iowa farmer during the past 4 years.

#### Unequal Decline in Prices Since July 1929

Various types of prices decline at different rates during periods of recession. Figure 17 shows the downward trend of wholesale, retail and farm prices from July 1929 to July 1933.

Prices of raw materials, especially farm prices, are extremely sensitive to influences which affect

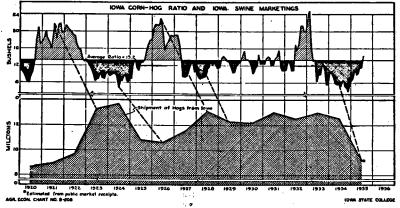


Fig. 21. This chart shows the relationship between the corn-hog ratio in Iowa, the number of bushels of corn that will buy 100 pounds of hog, to swine marketings from Iowa. After periods in which it takes more than the average number of bushels of corn to purchase 100 pounds of hog there appear periods of increased swine marketings and vice versa. Data in Tables 22 and 29.

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			<u>, , , , , , , , , , , , , , , , , , , </u>	logs (	Dollar.	s per	100 P	ounds)	<u>:</u>						_			Corn	(Cen	ts per	Bushe	el).					
Year	Annual	Jan.	Feb.	Mar.	Арт.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year	Annual	Jan.	Feb.	Mar.	Apr.	Мау	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1910 1911 1912 1913	8.17 6.20 6.82 7.67 7.66	7.50	8.10 6.90 5.70 7.50 8.00	6.40 6.00 8.10	7.20	5.40 7.10 7.70	8.80 5.40 6.90 8.00 7.50	8.20 5.90 6.90 8.30 8.00	6.90 7.60 7.90	7.80 7.70	7.90 5.90 8.20 7.60 7.20	7.30 5.70 7 20 7.30 6.80	6.90 5.60 7.00 7.10 6.50	1908 1909 1910 1911	49	.48 .51 .52 .36 .54	.49 .53 .53 .37 .56	.52 .56 .52 .38 .58	.56 .60 .50 .40	.61 .64 .49 .42 .70	.64 .66 .52 .46	.66 .66 .54 .52	.69 .63 .56 .56	.69 .60 .52 .56 .64	.60 .56 .44 .57	.52 .50 .38 .55	.52 .50 .36 .52
1915 1916 1917 1918 1919	8.63 14.43 16.39	6.20 9.80 15.60	7.50 11.40 15.30	9.00 13.80 16.20	9.00 15.30 16.40	9.10 15.10 16.60	14.80	9.10 14.50 16.30	18.00	9.90 16.90 18.40	9.00 16.90 17.00	16.40	16.20 16.40	1913 1914 1915 1916 1917	.61	.37 .57 .62 .60 .84	.38 .56 .66 .62	.40 .58 .64 .63 1.02	.43 .59 .66 .66 1.26	.48 .61 .68 .67 1.43	.51 .63 .68 .68 1.51	.53 .64 .70 .71 1.79	.60 .68 .71 .75 1.84	.66 .70 .68 .76 1.68	.63 .65 .62 .77 1.53	.60 .58 .55 .79 1.22	.59 .56 .54 .80
1920 1921 1922 1923 1924	13.02 7.61 8.52 6.91 7.34	8.10 6.80 7.70	13.80 8.40 8.80 7.50 6.30	9.20 9.70 7.40	7.70 9.40 7.40	7.40 9.60 7.00	7.00 9.60 6.00 6.40	8.30 9.50 6.00	9.10 8.60 6.60	6.90 7.90 7.90	6.90 8.20 7.00	11.70 6.10 7.40 6.20 8.50	8.30 6.00 7.40 6.10 8.20	1918 1919 1920 1921 1922	1.33 1.41 1.21 .41 .48	1.21 1.30 1.26 .48 .34	1.28 1.24 1.28 .46 .41	1.35 1.31 1.34 .46 .46	1.38 1.47 1.47 .42 .46	1.38 1.58 1.61 .42 .48	1.36 1.64 1.68 .44 .50	1.42 1.75 1.51 .45 .50	1.48 1.76 1.36 .42 .50	1.44 1.50 1.15 .38 .50	1.26 1.22 .80 .32 .52	1.18 1.16 .56 .28 .54	1.29 1.22 .49 .31 .58
1925 1926 1927 1928		10.80 10.90	11.80 11.30 7.40	11.70 10.90 7.30	11.40 10.20	12.00 9.20 9.00	13.00 8.00 8.80	12.70 8.20	11.20 8.90 10.20	11.70 9.60 11.60	11.90		10.80 7.80	1923 1924 1925 1926 1927	.67 .82 .86 .60 .74	.58 .63 1.08 .60 .58	.60 .66 1.10 .57 .59	.62 .66 1.03 .54 .57	.66 .67 .91 .53 .58	.70 .66 .98 .56 .69	.72 .68 1.03 .57 .85	.74 .94 .99 .62 .88	.74 1.02 .98 .73 .95	.76 1.05 .88 .69 .90	.76 1.01 .70 .67 .83	.70 .95 .61 .58 .69	.60 1.03 .57 .57
1930	8.80 5.64 3.21 3.37 4.23	8.80 7.10 3.40 2.40 2.85	9.70 6.40 3.20 2.80 3.80	6.80 3.80 3.20		6.10 2.70 4.10	8.20 5.40 2.50 4.00 3.60	6.00 4.20 3.95	5.90 3.90 3.70	5.20 3.55 3.60	8.80 4.40 3.00 4.10 5.10	8.10 4.10 2.80 3.60 5.10	7.30 3.40 2.40 2.70 5.10	1928 1929 1930 1931 1932	.77	.72 .71 .69 .56 .32	.76 .78 .69 .51	.81 .78 .64 .50	.85 .76 .69 .48 .27	.98 .75 .68 .47	.95 .76 .68 .45 .23	.94 .81 .68 .47 .25	.89 .86 .84 .43 .25	.89 .90 .85 .37 .21	.77 .84 .74 .28 .14	.76 .71 .56 .35	.66 .69 .59 .32 .12
1935		7.20	7.60	8.60	8.83	8.40	8.80	8.80	10.90			••••		1933 1934 1935	.26 .55	.12 .37 .87	. 12 . 36 . 84	.13 .37 .80	.20 .36 .83	.31 .38 .82	.30 .47 .77	.47 .51 .76	.37 .67 .76	.36 .71	.24 .71	.32 .75	.35 .90

Reef Cartle	/Dallana	-am 100	Donadal

Year	Annual	Jan.	Feb.	Mar.	Apr.	Мау	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1910 1911 1912 1913 1914	5.85 5.57 6.17 7.02 7.33	5.40 5.10 5.40 6.50 7.00	5.00 5.00 5.40 6.80 7.30	5.80 5.00 5.60 7.10 7.40	6.20 5.10 6.00 7.40 7.40	5.90 4.90 6.20 7.10 7.30	5.60 4.90 6.20 7.10 7.40	5.30 4.80 6.50 7.20 7.70	5.10 5.20 6.80 7.00 7.80	5.20 5.00 6.80 7.20 7.70	5.00 5.10 6.80 7.10 7.40	4.90 5.10 6.40 7.10 7.00	4.70 5.20 6.70 6.90 6.90
1915 1916 1917 1918	6.94 7.53 9.72 11.70 12.45	6.70 6.90 8.20 9.90 12.40	6.50 7.20 8.90 10.30 12.80	10.40	6.60 7.70 10.10 11.90 14.10	7.00 8.00 10.20 12.70 13.60	7.30 8.50 10:30 12.60 11.90	7.80 8.20 10.20 12.80 12.30		7.10 8.10 10.60 12.90 11.80	7.20 7.80 10.40 11.90 10.10	6.80 7.80 10.10 11.90 11.50	6.70 7.90 9.70 11.70 11.60
1920 1921 1922 1923 1924	10.24 6.48 6.83 7.30 7.40	11.10 7.00 5.80 7.00 7.00	10.50 6.30 6.00 7.00 7.10	10.80 7.30 6.40 6.70 7.20	10.80 6.90 6.50 7.40 7.50	10.00 6.80 6.70 7.10 7.60	11.90 6.10 7.00 7.90 7.50	10.60 6.40 7.60 7.70 7.30	10.40 6.90 7.20 7.50 7.80	10.90 6.10 7.30 8.20 7.60	9.80 6.00 7.90 7.60 8.00	9.00 5.70 7.30 7.00 7.50	7.00 5.80 7.30 7.00 7.10
1925 1926 1927 1928 1929	8.43 7.98 8.92 10.85 10.78	7.40 8.00 7.90 10.60 10.30		8.00 8.10 8.30 10.30 10.40	8.90 8.10 8.50 10.20 10.90		8.50 8.00 8.70 10.60 11.20		9.60 7.90 9.20 11.60 11.40		9.30 8.40 9.70 11.80 10.70	8.30 7.80 10.10 11.10 10.20	8.20 7.90 10.20 10.70 10.30
1930 1931 1932 1933	9.24 6.54 4.91 4.32 5.17	10.30 7.90 5.00 3.90 4.00	10.30 7.10 4.40 3.90 4.55	10.50 6.90 4.80 4.10 4.65	10.10 7.00 4.80 4.10 4.85	9.80 6.30 4.30 4.70 5.50	8.30 6.00 4.30 4.70 5.50	8.30 6.10 5.90 4.70 5.30	7.70 6.30 5.90 4.70 5.30	8.70 6.30 6.00 4.60 6.30	8.50 6.10 5.30 4.55 5.60	8.20 6.60 5.00 4.25 5.50	7.90 5.40 4.10 4.00 5.00
1935	••••	7.10	8.00	8.50	8.90	9.00	8.20	7.90	8.40	<b> </b> .			

				Oate	(Cen	ts per	Bushe	1).					
Year	Annual	Jan.	Feb.	Mar.	Apr.	Мау	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1908		.42	.42	.44	.46	.46	.44	.44 .46	.44	.43	.42	.42	.42
1910 1911 1912	.34 .34 .36	.40 .27	.41 .26 .44	.41 .26 .46	.39 .26 .49	.37 .28 .50	.36 .32 .47	.36 .35	.32 .36 .30	.28 .38 .26	.28 .40 .28	.27 .41 .28	.27 .41 .28
1913 1914	.33 .36	.28	.28 .34	.28	.30	.31 .34	.33	.34	.35	.36 .40	.35	.34 .40	.34
1915 1916 1917	.41 .40 .57	.46 .40 .48	.49 .41 .51	.50 .38 .54	.50 .38 .60	.49 .38 .62	.45 .36 .62	.42 .36 .65	.38 .37 .60	.31 .40 .52	.30 .43 .54	.32 .46 .58	.34 .47 .67
1918 1919	.70 .62	.74 .59	.80 .54	.84 .56	.83	.76	.70 .64	.69	.64 .66	.63 .62	.63 .60	63	.64 .67
1920 1921 1922	.68 .27 .29	.72 .34 .26	.75 .33 .28	.78 .32 .30	.86 .30 .30	.92 .29 .30	.94 .28 .30	.81 .26 .28	.62 .23 .26	.54 .22 .26	.45 .22 .30	.39 .22 .34	.36 .24 .36
1923 1924 1925	.35 .42 .39	.36 .38 .51	.37 .40 .51	.38 .41 .45	.38 .41 .38	.38 .41 .41	.38 .42 .44	.34 .46 .40	.30 .43 .35	.32 .41 .33	.34 .44 .32	.36 .42 .32	.37 .48 .34
1926 1927	.41	.36	.34	.34	.34	.35	.34	.33	.34	.32	.35	.35	.36
1928 1929 1930	.43 .39 .33	.47 .39 .38	.49 .42 .38	.51 .41 .36	.53 .40 .37	.59 .40 .35	.59 .37 .29	.53 .38 .29	.31 .37 .32	.32 .39 .32	.35 .40 .30	.35 .38 .26	.38 .38 .28
1931 1932	.15	.27	.26	.26	.26	.19	.17	.14	.17	.17	.17	.21	.21
1933 1934 1935	.21 .37	.10 .28 .53	.10 .29 .53	.10 .28 .52	.13 .26 .49	.18 .27 .45	.20 .36 .36	.36 .38 .27	.27 .42 .22	.27	.21 .48	.27	.27 .53
		l	I	ŀ	١	l	Ι .	ŀ	l	I .	ļ	1	1

#### Sheep (Dollars per 100 Pounds).

Year	Annual	Jan.	Feb.	Mar.	Apr.	Мау	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
929 930 931 932 933 934	4.64 2.86 1.96 2.25 2.87	7.10 5.90 3.80 2.00 1.75 2.75 3.70	7.80 6.20 3.80 2.20 2.10 3.75 3.80	7.70 6.00 4.00 2.60 2.05 3.55 3.90	7.40 5.80 4.10 2.60 2.05 3.40 4.20	6.90 5.40 3.60 2.00 2.65 3.00 4.10	7.30 5.40 3.40 1.90 2.40 3.00 3.70	6.30 4.50 2.50 1.90 2.20 2.75 3.45	6.20 3.80 2.50 1.90 2.35 2.35 3.50	6.20 4.10 2.20 2.00 2.25 2.30	5.90 3.90 2.30 2.00 2.40 2.30	5.90 3.70 2.50 1.95 2.20 2.45	5.90 4.00 2.20 1.60 2.60 2.90

#### Wheat (Dollars per Bushel).

#### Hay (Dollars per Ton).

Year	Annual	Jan.	Feb.	Mar.	Apr.	Мау	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
929 930 931 932 1933 1934	7.60	9.50 9.60 8.20 5.30 6.00	9.40 8.60 8.70 4.80 6.40	14.40 9.00 8.10 9.20 4.60 7.00 17.30	13.80 9.00 8.20 10.00 4.90 7.40 16.60	9.00 8.20 9.80 4.80 8.10	12.90 9.10 8.00 8.60 4.90 10.40 13.80	10.20 8.40 8.20 7.10 5.20 11.70 8.30	10.30 9.30 8.20 7.00 5.50 14.30 6.70	9.50 9.80 8.20 6.40 6.00 13.90	9.10 9.70 7.80 5.90 5.80 14.40	10.00 9.80 7.90 5.80 6.20 15.20	9.50 9.70 8.60 5.70 5.90 15.70

#### Butter (per Pound).

1929	.48 .47 .39 .37 .29 .27 .21 .18 .19 .23 .32 .38	.49 .47 .46 .36 .38 .37 .29 .28 .24 .22 .21 .19 .17 .19 .22 .25 .23 .23 .33 .35 .28	.45 .44 .44 .34 .33 .36 .23 .24 .25 .21 .22 .25 .21 .24 .25 .25 .24 .25 .25 .24 .25	.28 33 .31 .20 .19 .20 .22 .22 .23 .25 .26 .29	.44 .33 .30 .22 .21 .29
------	----------------------------------------------------------------	-------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------	---------------------------------------------------------	----------------------------------------

#### Eggs (per Dosen).

Year	Annual	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
929 930 931 932 933 934	.26 .19 .14 .11 .11 .159	.28 .34 .18 .141 .182 .15	.29 .27 .11 .107 .088 .132 .242	.26 .19 .17 .083 .085 .131	.22 .20 .151 .088 .094 .126	.24 .18 .115 .096 .118 .125 .209	.25 .16 .119 .086 .077 .109	.25 .15 .125 .099 .122 .110 .201	.27 .17 .149 .130 .096 .148 .205	.31 .21 .150 .143 .122 .186	.34 .20 .186 .20 .168 .195	.40 .26 .232 .238 .203 .25	.43 .23 .22 .269 .174 .247

#### Poultry (per Pound).

Prices received as of 15th of month. Source: U. S. D. A. Bureau of Agricultural Economics.

TABLE 18. WEIGHTED ANNUAL FARM PRICES OF IOWA FARM PRODUCTS.

	Hogs dollars per cwt.	Cattle dollars per cwt.	Sheep per cwt.	Corn per bu.	Oats per bu.	Wheat per bu.	Hay per ton	Butter per lb.	Eggs per doz.	Poultry per lb.
1910	\$8.17 6.20 6.82 7.67 7.66	\$5.85 5.57 6.17 7.02 7.33	\$5.01 4.04 4.15 4.54 4.81	\$ .49 .47 .50 .57	\$ .34 .34 .36 .33 .36	\$ .94 .85 .87 .75 .85	\$8.61 10.18 11.23 9.11 9.98	\$ .26 .22 .26 .27 .26	\$ .18 .14 .18 .16 .18	\$ .098 .085 .094 .106 .107
1915	6.49 8.63 14.43 16.39 16.87	6.94 7.53 9.72 11.70 12.45	5.10 6.37 9.58 9.99 9.07	.64 .70 1.29 1.33 1.41	.41 .40 .57 .70	1.06 1.17 2.03 2.03 2.05	10.55 8.98 13.07 17.28 18.36	.26 .29 .37 .44 .52	.18 .21 .30 .33 .37	.106 .130 .157 .194 .204
1920	13.02 7.61 8.52 6.91 7.34	10.24 6.48 6.83 7.30 7.40	7.46 4.09 5.61 6.29 6.81	1.21 .41 .48 .67 .82	.68 .27 .29 .35 .42	2.08 1.17 .96 .92 1.09	19.10 10.96 9.68 11.21 12.34	.55 .36 .34 .41 .39	.40 .23 .22 .23 .23	.211 .180 .163 .156
1925	11.08 11.62 9,49 8.61 9.48	8.43 7.98 8.92 10.85 10.78	7,48 6,84 6,57 6,94 6,49	.86 .60 .74 .81	.39 .34 .41 .43 .39	1.44 1.26 1.22 1.09 1.07	11.23 13.98 13.69 12.05 10.66	.41 .42 .44 .46 .46	.27	180 195 180 198
1930	8.80 5.64 3.21 3.37 4.23	9,25 6,54 4,91 4,32 5,17	4.64 2.86 1.96 2.25 2.87	.69 .44 .23 .26 .55	.33 .21 .15 .21 .37	.79 .47 .37 .64 .83	9.34 8.32 7.60 5.36 10.87			

TABLE 19. INDEX NUMBERS OF U. S. WHOLESALE PRICES OF ALL COMMODITIES. (1910-14 = 100.)

Year	Jan.	Feb.	Mar.	Apr.	Мау	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1929 1930 1931 1932 1933 1933 1934	140 135 114 98 89 105 115	139 134 112 97 87 107 116	140 132 111 96 88 108	139 131 109 96 88 107 117	138 130 107 94 92 108 117	139 127 105 93 95 109 116	141 123 105 94 101 109 116	141 123 105 95 101 112 118	140 123 104 95 103 113	139 121 103 94 104 112	137 119 103 93 104 112	136 116 100 91 103 112

Source: U. S. Department of Labor, Bureau of Labor Statistics.

them; finished goods are less flexible and do not react to changes quickly.

Evidence that farm prices are flexible in their reactions to influences upon them is found in the fact that in July 1933 farm prices were only 46 percent of the July 1929 level, 4 years before. In comparison, wholesale prices of all commodities and retail prices of things farmers buy were more stable.

In July 1933, wholesale prices were 70 percent of the July 1929 level, according to computations based on the wholesale index number compiled by the Bureau of Labor Statistics.

Retail prices of commodities farmers buy have fluctuated about the same as wholesale prices during this period. In July 1929 the index number of retail prices paid by farmers was 153; in July 1933 it was 107, 70 percent of the 1929 level.

#### Iowa Corn and Hog Prices Since 1910

Because swine furnish about 40 percent of Iowa's gross income and corn is the state's most im-

TABLE 20. INDEX OF PRICES U. S. FARMERS PAY. (1910-14 = 100.)

	Mar. 15	June 15	Sept. 15	Dec. 15
1923	152	153	151	150
1924	152	150	152	154
1925	158	158	155	155
1926	156	156	155	154
1927	152	154	153	152
1928	154	156	155	154
1929	155	153	154	152
1930	150	148	144	138
1931	132	127	121	117
1932	112	108	106	103
1933	100	103	116	116
1934	120	122	126	126
1935	127	127	125	

Source: U. S. D. A. Bureau of Agricultural Economics.

portant cash crop, the prices of these two commodities are of particular importance in this state.

Any variation in the price of hogs is reflected directly on the prosperity of Iowa farmers. From 1915 to 1919, shown in fig. 18, hog prices experienced a sharp rise. From January 1915 to July 1919, the price of hogs rose from \$6.40 per hundred to \$20.80 per hundred. The latter price is the highest reached during the 24-year period.

In 1921 hog prices dropped sharply. This sudden decline was followed by a comparatively gradual recovery period which reached its peak in 1926. Since then prices have not recovered to the 1921 level.

The 1933 hog price index number was 54 percent below the 1910-14 level. This price was approximately 20 percent of the 1918 level, the index number of which, on the basis of 1910-14 equal to 100, was 224. The 1933 hog price level was 35 percent of the '29 level. Considerably higher hog prices were received by Iowa producers in 1934, as a result of the drought and the cornhog program.

In general, Iowa corn prices have followed prices of hogs and all other farm products. From 1915 to 1919, corn prices experienced the same phenomenal rise as hog prices. The highest price paid for Iowa corn during the war years was in August 1917 when the monthly average price was \$1.84.

The lowest price paid for corn (see fig. 19) during the 24-year period since 1910 was during the early months of 1933 and the last few months of 1932. For a 3-

months' period, December 1932 to February 1933, the price paid for corn, on the average, was 12 cents per bushel. The drought of 1934 and the corn-hog reduction program brought sharply higher prices for corn. By December of that year, the average farm price was 90 cents a bushel.

#### Corn-Hog Ratios

The ratio between corn and hog prices affords a measure of the profitableness in feeding corn to hogs. Since most of Iowa's corn is disposed of through hogs, these ratios are of prime concern to Iowa. The corn-hog ratio is the number of bushels of corn required to purchase 100 pounds of live hog. Figure 20 shows graphically the corn-hog ratios for Iowa farm prices and the average for the whole country.

The average number of bushels of corn required to buy 100 pounds of live hog in Iowa during the past 24 years has been 13.2. The ratio was highest, for a yearly average, in 1926 when it reached 19.4; it has been higher than that for single months, having touched 24.6 in March, 1933. In 1926 hog prices were in a relatively better position than corn prices, and the number of hogs marketed was declining. Thus it was extremely profitable to market corn in the form of hogs. The sharp rise in the ratio during early 1933 was a result not so much of high hog prices as of extremely low corn prices. It can hardly be called profitable to feed corn to hogs when hog prices are around \$3.00 even if corn prices are very low. It is better to say that it was more profitable to feed the corn than to sell it as cash grain. The cornhog ratio tells only the relative profitableness of feeding or selling the grain, not the absolute profitableness of Corn Belt agriculture.

The average ratio for the whole country was 11.9 during the 24 years when the Iowa ratio was 13.2. The difference in ratios is due to freight rates which make it cheaper to feed corn to hogs in Iowa than to sell it as grain. The ratio is wider in western Iowa

#### BASEBOOK OF IOWA

PURCHASING POWER OF IOWA FARM PRODUCTS
1934 AS % OF 1918-14 PURCHASING POWER



Fig. 22. The above chart shows the 1934 purchasing power of corn and hogs in Iowa as compared with the 1910-14 purchasing power. It will be seen that corn was nearest the former level with 84 percent of the purchasing power it had in 1910-14.

Data in table 23.

than it is in the eastern section. In South Dakota the ratio is wider than in Iowa. The United States ratio has been wider than the Iowa figure only one year since 1910. That year, 1919, the farm prices were all so high because of war inflation that no ordinary re-

lationships held.

In 1924 the ratios were very narrow, 9.0 for Iowa and 8.2 for the United States. Swine slaughter was around 79.5 million head that year and the year before and hog prices sank compared with corn prices. Figure 21 compares the corn-hog ratio in Iowa with swine marketings from Iowa. The crosshatched area shows the years during which the number of bushels required to buy 100 pounds of hog was above the average for the 24year period. The black areas show the years during which the ratio was below 13.2. In general, periods during which the number of bushels of corn required to pur-

TABLE 23. INDEX NUMBERS OF PURCHASING POWER OF IOWA HOGS AND CORN. (1910-14 = 100.)

Year	Hog prices	Pur- chasing power of hogs	Prices things farmers buy	Corn prices	Pur- chasing power of corn
1920	178	88.6	201	228	113.4
1921	104	68.4	152	78	51.3
1922	117	78.5	149	90	60.4
1923	95	62.5	152	127	83.6
1924	101	66.4	152	156	102.6
1925	152	96.8	157	162	103.2
1926	159	102.6	155	114	73.5
1927	130	85.0	153	140	91.5
1928	118	76.1	155	153	98.7
1929	130	85.0	153	146	95.4
1930	120	82.8	145	131	90.3
1931	77	62.1	124	83	66.9
1932	44	41.1	107	44	41.1
1933	46	42.2	109	49	45.0
1934	58	47.5	122	103	84.4

Source: Derived from tables 16 and 14.

TABLE 21. CORN-HOG RATIO: CHICAGO PRICES.

(Based on averages of corn and bog prices of the month.)

(Number of bushels of corn required to equal value of 100 pounds of live hogs—based on Chicago prices.)

Year	Yearly Average	Jan.	Feb.	Mar.	Apr.	Мау	June .	July	Aug.	Sept.	Oct.	Nov.	Dec.
1910 1911 1912 1913	11.1 9.9 12.2	12.2 15.3 9.1 13.6 10.8	12.0 14.4 8.8 13.9 11.3	13.6 13.7 8.6 14.4 11.2	14.4 12.1 9.0 14.4 10.9	13.3 10.7 8.4 12.7 10.3	12.9 9.8 8.1 12.3 9.9	12.2 9 4 8.3 12.1 10.1	11.7 9.9 9.1 11.1 10.3	13.0 9.9 10.1 10.2 10.2	14.2 9.3 12.0 10.4 10.0	15.1 9.3 13.2 10.5 10.4	14.9 9.3 14.1 10.3
1915 1916 1917 1918	10.7 9.7 10.6	9.5 9.8 9.9 11.2 11.1	8.6 10.5 10.5 10.3 11.3	8.4 11.4 11.5 10.1 11.2	8.5 11.5 10.3 10.2 11.1	8.7 11.4 8.8 10.3 10.8	8.7 11.0 8.3 10.0 10.2	8.7 10.9 7.4 9.9 10.5	8.5 10.6 7.7 10.1 10.2	9.2 11.1 9.0 10.8 9.3	10.8 10.4 10.1 11.0 9.7	10.6 10.1 11.2 11.5 9.2	10.1 9.8 12.0 11
1920 1921 1922 1923 1924	14.0 14.4 9.0	9.3 13.5 15.4 11.1 9.0	9.2 13.5 16.5 10.9 8.5	8.9 14.3 15.8 10.2 8.6	8.4 13.0 15.7 9.8 8.6	7.6 12.5 15.0 8.8 8.5	7.1 11.6 14.7 7.9 8.1	7.8 13.1 14.7 7.5 6.7	8.5 14.8 13.7 7.7 8.0	10.1 14.0 13.4 8.5 7.7	13.0 15.9 13.4 8.8 8.7	15.0 16.0 12.8 8.2 8.7	13.1 15.1 11.1 9.0
1925 1926 1927 1928	16.9 12.7 9.9	8.3 15.8 17.1 10.3 10.2	8.4 17.2 16.8 9.6 10.2	10.6 17.5 16.7 8.7 11.3	11.2 17.5 15.9 8.4 11.7	10.0 17.8 12.9 8.6 11.6	9.7 18.7 9.4 8.5 11.3	11.5 17.7 9.3 9.4 11.3	11.4 14.7 9.5 10.2 10.7	11.6 15.8 10.3 11.7 9.8	13.4 16.2 11.6 11.3 9.9	14.3 17.3 12.2 11.3 10.5	14 .0 17 .0 10 .0 10 .0
1930	11.9 12.6 10.5	11.4 11.8 11.2 14.0 7.0	12.2 11.6 10.9 15.2 8.5	12.8 12.0 12.1 15.6 8.2	11.7 12.0 11.4 11.4 7.4	11.6 11.3 9.8 10.0 6.5	11.5 10.6 9.6 9.9 6.3	10.9 11.5 14.1 7.2 6.7	9.5 12.3 13.4 7.8 6.3	10.3 12.6 13.5 8.0 7.8	10.7 14.1 15.0 10.7 6.8	12.4 11.9 15.7 9.1 6.7	11. 10. 14. 7. 6.
935		8.1	8.4	9.8	9.2	9.3	10.0	10.2					

Source: U. S. D. A. Bureau of Agricultural Economics.

chase 100 pounds of hog exceeded the average are followed by periods of greater-than-average hog marketings. Periods which gave the advantage to selling corn or feeding it to other livestock rather than feeding it to hogs are followed by periods of lower swine marketings. The price relationships during these times indicate that Iowa farmers switch from feeding hogs to selling corn or feeding it to other livestock, depending upon which has the advantage in price. Iowa is so important in the hog industry that what Iowa does influences the hog market markedly.

TABLE 22. CORN-HOG RATIO IN IOWA.

(Number of bushels of corn required to equal value of 100 pounds of live hogs—based on Iowa farm prices.)

Year	Yearly Average	Jan.	Feb.	Mar.	Apr.	Мау	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1910 1911 1912 1913	16.7 13.2 12.0 15.3 12.6	15.0 20.8 10.4 18.6 13.5	15.3 18.6 10.2 19.7 14.3	18.5 16.8 10.3 20.3 14.0	19.0 14.5 11.1 19.8 13.7	17.6 12.9 10.1 16.0 12.8	16.9 11.7 10.1 15.7 11.9	15.2 11.3 10.5 15.7 12.5	13.6 12.3 11.5 13.2 12.5	16.2 11.8 12.2 11.7 11.9	18.0 10.4 14.6 12.1 11.1	19.2 10.4 17.1 12.2 11.7	19.2 10.8 19.4 12.0 11.6
1915 1916 1917 1918	10.1 12.3 11.2 12.3 12.0	10.3 10.3 11.7 12.9 12.6	9.4 12.1 12.7 12.0 13.3	9.7 14.3 13.5 12.0 13.3	9.8 13.6 12.1 11.9 12.7	10.1 13.6 10.6 12.0 12.3	10.3 12.9 9.8 11.6 11.8	9.9 12.8 8.1 11.5 11.9	9.0 12.4 8.5 12.2 11.4	9.9 13.0 10.1 12.8 10.3	11.9 11.7 11.0 13.5 11.0	11.1 11.5 13.0 13.9 11.6	10.7 11.3 14.2 12.7 10.1
1920 1921 1922 1923 1924		10.7 17.5 20.0 13.3 10.2	10.8 18.3 21.5 12.5 9.5	10.4 20.0 21.1 11.9 9.8	9.3 18.3 20.4 11.2 10.0	8.4 17.6 20.0 10.0 10.0	8.0 15.9 19.2 8.3 9.7	9.3 18.4 19.0 8.7 6.9	10.3 21.7 17.2 8.9 8.5	12.7 18.2 15.8 10.4 8.3	17.3 21.6 15.8 9.2 9.9	20.9 21.8 13.7 8.9 8.9	16.9 19.4 12.8 10.2 8.0
1925 1926 1927 1928	19.4	8.8 18.0 18.8 10.6 11.4	8.9 20.7 19.2 9.7 11.5	12.2 21.7 19.1 9.0 13.6	13.4 21.5 17.6 9.2 14.2	11.4 21.4 13.3 9.2 13.6	10.8 22.8 9.4 9.3 13.0	12.6 20.5 9.3 10.5 13.0	12.7 15.3 9.4 11.5 11.9	13.1 17.0 10.7 13.0 10.4	15.6 17.6 12.2 12.2 10.6	16.9 19.1 12.8 12.6 11.8	17.9 18.9 10.5 12.0 12.3
1930	12.7 13.1 15.1 14.7 7.7	12.8 12.7 10.9 20.0 7.7	14.1 12.5 11.0 23.3 10.6	15.3 13.6 13.1 24.6 10.3	13.3 14.2 12.6 16.0 9.4	13.4 13.8 10.8 13.2 7.9	13.2 12.0 10.9 13.3 7.7	12.1 12.2 16.8 8.4 7.8	10.1 13.7 15.6 10.0 7.2	11.3 14.0 16.9 10.0 8.7	11.9 15.7 21.4 17.1 7.2	14.4 11.7 21.5 11.2 6.8	12.3 10.9 20.0 7.7 5.7
1935		8.3	9.0	10.8	9.9	10.2	11.4	11.6	14.3				

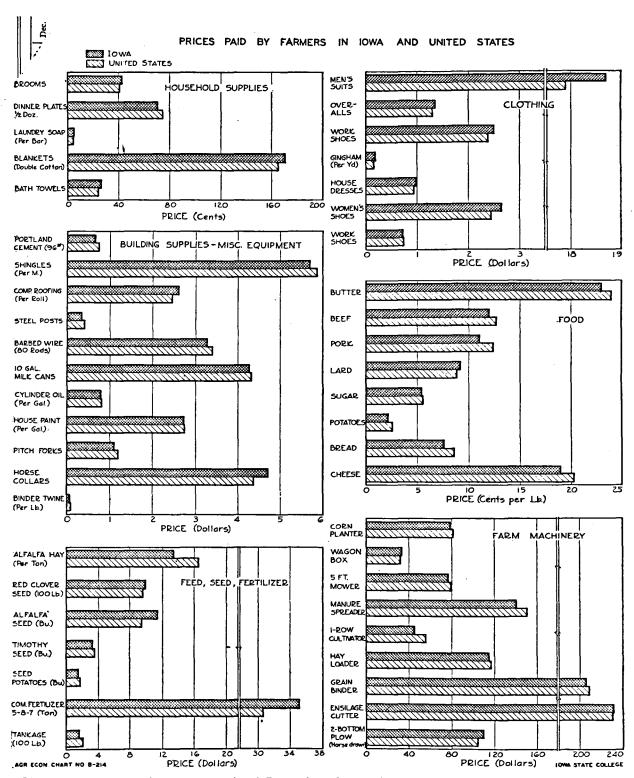


Fig. 23. The data for this chart are the results of a CWA survey conducted in 1934 and were compiled by the Division of Crop and Livestock Estimates of the United States Bureau of Agri-

cultural Economics. Over a three to four day period several thousand enumerators in all parts of the country checked up on the prices that farmers pay for clothing, food, machinery and other articles used on the farm. This chart compares the Iowa prices with the average of those paid over all of the United States.

#### CHAPTER III. IOWA FARM PRODUCTION

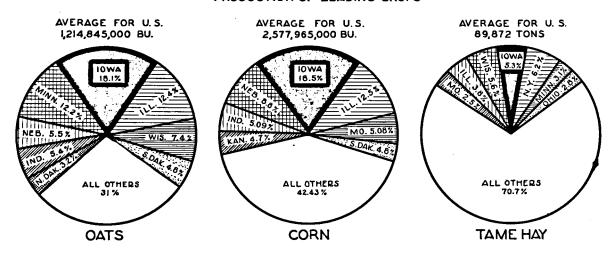
HOUGH other states may argue with Iowa on the right to the title, "leading farm state of the Union," there can be no arguments if the basis for that

title is limited strictly to production of foodstuffs. Located where temperature and moisture are ideally combined for grain crops and blessed with a large area of

productive soil, Iowa farms furnish sustenance for many other states and foreign countries.

In the pioneer days of the state, Iowa was one of the leading wheat

## IOWA'S SHARE IN NATIONAL FARM PRODUCTION (5 YEAR AV. 1929-33) PRODUCTION OF LEADING CROPS



#### NUMBERS OF LIVESTOCK ON FARMS

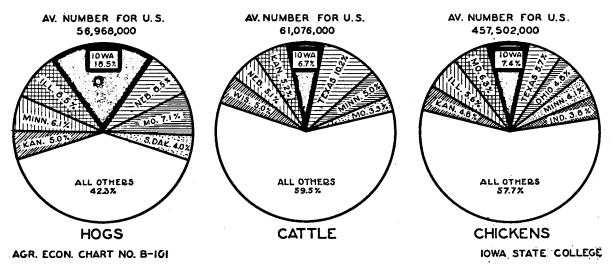


Fig. 24. Iowa is one of the foremost agricultural states oats, hogs and chickens. It ranks second in the production of cartne and tame hay.

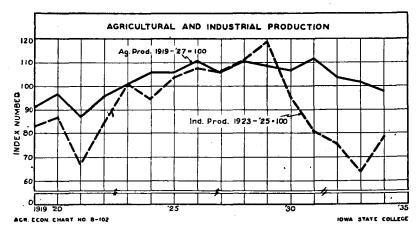


Fig. 25. Farm production did not decrease as much as industrial production after the price crash of 1929. Because of high fixed costs, it was impossible for an individual farmer to cut his production. If the farmer could get returns on his current expenses and any compensation for the use of his fixed capital, he kept on producing.

Because a large percentage of the cost of industrial production is for labor, raw material and other current expenses, business men decreased their production more than farmers. It was more profitable for them to sell their goods for about the same as before the price decline and have most of their plant idle than to keep up their production and sell their goods at less than current expenses.

Data in table 25.

TABLE 24. PERCENT OF ANNUAL FARM PRODUCTION MARKETED EACH MONTH.

	Hogs	Cattle	Sheep	Corn	Oats	Wheat	Hay	Butter	Eggs	Poultry
January	12.6	9.6	13.5	11.1	6.7	4.1	8.1	7.7	2.9	9.3
February	10.5	8.0	8.5	10.2	6.0	4.0	7.8	7.4	4.3	5.0
March	8.6	8.4	4.8	7.0	6.4	3.2	8.0	8.1	11.5	3.4
April	6.8	8.0	2.8	4.7	5.7	2.6	7.9	7.8	18.5	2.2
May		9.0	3.0	5.8	5.6	2.8	6.1	10.2	19.8	
June	8.0	8.9	4.5	7.5	5.1	4.9	6.5	11.1	13.9	3.1 5.7
July	7.4	8.0	5.7	7.8	7.7	19.3	9.9	9.5	9.5	5.7
August	6.5	7.7	8.0	8.ŏ	23.4	19.9	10.3	9.6	7.7	5.8
September	5.9	7.6	8.7	9.2	11.0	16.4	8.6	7.8	5.5	8.2
October	6.2	7.5	10.8	9.8	10.5	10.6	9.9	7.6	3.6	13.3
November	8.4	7.6	13.3	7.2	5.1	6.7	8.5	6.6	1.4	19.1
	11.8		16.4		6.8	5.5		6.6		19.2
December	11.8	9.7	10.4	11.7	0.5	3.3	8.4	0.0	1.4	19.4
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

Source: Iowa Agr. Exp. Sta. Bul. 336, Gertrude M. Cox.

areas of the United States. But it was soon apparent that the Great Plains had an advantage in bread grains while Iowa was unsurpassed in corn and oats, the two leading feed grains. From the Civil War until the World War, Iowa's feed grain acreage and livestock production increased steadily. During the war even larger acreages were sown to corn and oats, and feed lots and pastures were expanded to the limit.

After the war there was no decline in production, though demand from foreign countries declined considerably. It was not until the drouth of 1934 and the corn-hog program of the AAA effectively combined to cut corn production in

half that any real reduction in Iowa agricultural output occurred. The chart (fig. 25) shows graphically how industrial production was reduced during the depression in order to maintain prices, while agricultural production remained at a constant level and prices dropped ruinously low.

#### Livestock

Livestock is the backbone of Iowa agriculture. Hog production is by far the most important agricultural enterprise in the state, while cattle feeding, dairying and poultry husbandry all contribute large amounts of income. Iowa has about 9 percent of all livestock on farms in the

TABLE 25. INDEX NUMBER OF AGRI-CULTURAL AND INDUSTRIAL PRODUCTION.

Year	Agricultural production 1919-27 = 100	Industrial production 1923–25 = 100
1919	91 97 87 96 101 106 111 106 111 107 111 109 107 112 104 102 98	83 87 67 85 101 95 104 108 110 111 119 96 81 64 76

Source: Agricultural Production, Bureau of Agricultural Economics, U. S. D. A. Industrial Production, Federal Reserve Board.

United States. Altogether, Iowa's livestock and livestock products furnish over three-fourths of the annual income of the state. (See Chapter I for income statistics.)

Iowa's leadership in livestock production has resulted in a concentration of marketing facilities, particularly for hogs, in this state. No other producing area is so completely surrounded by large stockyards markets as Iowa. Chicago, East St. Louis, St. Joseph, Kansas City, Omaha, Sioux City and St. Paul are all within easy shipping distance.

Besides the stockyards markets, a number of packing plants are located in Iowa. These plants specialize in hogs, although a few of them have begun to slaughter beef during recent years. Livestock marketed at these interior plants, as they are called, do not pass through stockyards, but are sold directly to the packer. In many cases the packer comes right to the farmer's yard to purchase hogs, and sales made over the telephone are a commonplace.

Besides establishing packing plants out in the heart of the hog country, the packing companies have also found another way to simplify the marketing of livestock. They have established concentration points along major railroad lines. By buying up livestock at a concentration point it is possible to economize on shipments to the large packing establishments, as a single farmer might not have enough hogs or cattle to fill out a car.

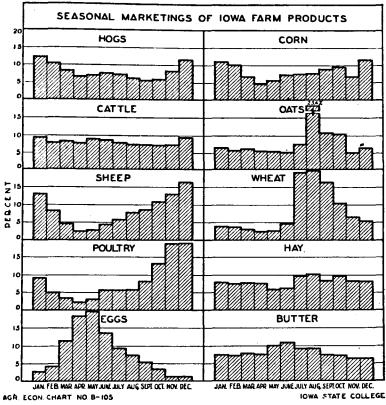


Fig. 26. From this chart it is possible to trace the marketing trends of Iowa's various farm products. It will be seen that hog marketings are heaviest in December and the first two months of the year. The corn movement is also heavy in December and January. Most of the oats and wheat move to market at threshing time.

Data in table 24.

TREND OF LIVESTOCK PRODUCTION IN 10WA (NUMBERS ON FARMS AS OF JAN. I.) HOGS ALL CATTLE HE AD SHEEP MILK A COWS I 15 MILLIO 3 Ξ CHICKENS HORSES & MULES 30 23 ACR ECON CHART NO 8-238 IOWA STATE COLLEGE Direct selling of hogs in Iowa has grown from about one-third of all marketings in 1920 to about two-thirds now. Only 2 percent of the cattle and calves of Iowa were sold direct in 1920 while more than 20 percent are now sold that way.

#### Hogs

Iowa stands alone as a hog producing state with nearly 20 percent of the hogs of the country. Nebraska, which ranks second, has only 9 percent and Illinois, third, only 8 percent. About 40 percent of the annual farm income of the state comes from the sale of hogs. Since the World War there has been an average of around 10 million hogs on Iowa farms on Jan. 1. Marketings have ranged from 11 to 13 million annually. Assuming average local slaughter and death losses, the annual hog population in Iowa ranges from 22 to 25 million head.

The periodic surveys of the rural mail carriers of the Post Office Department indicate an average of about 90 hogs to the farm in June and 75 in December. Some counties in Iowa have average shipments of 90 hogs per farm each year.

In recent years there has been a marked movement of the hog industry toward the northwest Corn Belt which includes Iowa. Figure 35 illustrates this change. For the 5

Fig. 27. Hogs—The trend in hog production had been upward since 1867 until the downward movement in 1933 and 1934, which was due to the AAA and the drouth.

Cattle—The trend in cattle has been slightly upward since 1867. Due to the time it takes to build up a herd, there is not the variation in numbers of cattle that is found in some of the other classes of livestock.

Horses and Mules—Since 1919, horses have been gradually decreasing. Automobiles and tractors are doing some of the work formerly done by horses and mules.

Sheep — Sheep numbers decreased from 1867 to 1880 to less than one-third their former total. Since then, the trend has been upward.

Chickens — Chicken numbers fluctuate greatly due to the short time it takes to go into and out of production. The general trend since 1920 has been upward.

Data in table 26.

years, 1928-32, seven of the Corn Belt states had more than half of the hogs in the nation, and Iowa alone had 18.5 percent. This movement of hogs has followed the increase in corn acreage in these states. The maps in figs. 30 and 62 show the remarkable concentration of the corn-hog industry as well as the close relationship between corn acreage and hog numbers.

It will be noticed in the chart of livestock numbers that hog numbers fluctuate much more rapidly than do numbers of other livestock. This is a result of the farmer's ability to increase or decrease his production of hogs quickly and easily. It is much harder for the cattleman to rearrange his business in this fashion. Also the large proportion of Iowa cattle used for dairy purposes tends to give stability to cattle numbers in this state. The response of farmers to changes in the profitableness of feeding hogs is shown in Chapter II in the charts dealing with the corn-hog ratio.

#### Cattle

Beef cattle furnish about 16 percent of the total cash farm income of Iowa and are the most important source of farm income other thanhogs. Iowa ranks second to the huge state of Texas in cattle numbers. For the 5 years, 1928-32, Texas averaged 10.2 percent of all the cattle of the country, while Iowa averaged 6.7 percent. But in production of grain-fed beef, Iowa clearly leads the nation. On the average, nearly half of the beef steer receipts at Chicago are furnished by Iowa producers.

About one-third of the finished cattle sold from Iowa farms are brought into the state from western ranges as feeder stock. The other two-thirds are home-raised stock. A large proportion of the farmers of the state fatten out a few head of cattle each year, but the number who specialize in cattle feeding, particularly of the fancy grades, is comparatively small. These big cattle feeders are experienced "hands" at putting smooth layers of flesh on well-bred steers and their business is more or less a specialty affair. For the bulk of the farmers cattle

TABLE 26. NUMBER OF LIVESTOCK ON FARMS IN THE UNITED STATES. (In thousands)

Year	Horses	Mules	All Cattle	Milk Cows	Chickens	Stock Sheep	Hogs
930	13,742 13,195 12,664 12,291 12,052 11,861 11,637	5,382 5,273 5,148 5,046 4,945 4,822 4,685	61,003 63,030 65,770 70,214 74,262 68,529 68,529	23,106 23,885 24,982 26,030 27,059 26,236 25,622	470,000 460,000 451,000 462,000 455,000 412,000	45,577 47,720 47,754 47,324 48,454 46,640 46,380	55,705 54,835 59,301 62,127 58,621 39,004 42,541

<sup>1</sup>Preliminary. Source: U. S. D. A. Bureau of Agricultural Economics.

TABLE 27. ANIMALS ON IOWA FARMS. (000) omitted.

		Horses	<u> </u>		Mules	L
Year	(000) Numbers	Price per head	Total valuation	(000) Numbers	Price per head	Total valuation
		<del></del>			<u>  -                                   </u>	
1867	390,000	\$ 60.58	\$ 23,626,396	15,400 .	\$ 72.24	\$1,115,374
1870	514,000	66.78	34,320,725	32,500	73.69	2,395,033
1880 1890	778,000	55.19	42,959,896	44,700	70.85	3,166,995
1900	1,095,700 979,400	72.70 49.84	79,626,009 48.810,774	42,300 31,200	78.96 54.72	3,341,065 1,708,906
	•		60.640.600	1	<b>63.00</b>	1
1901	1,167,800	59.63 65.19	69,640,688	47,300	63,00	2,981,266
1903	1,156,100 1,144,600	69.69	75,366,322 79,760,061	46,400 45,900	68.69 74.06	3,185,561 3,400,365
1904	1,156,000	72.41	83,712,676	45,000	72.00	3,239,722
1905	1,144,500	74.49	85,250,746	44,000	80.05	3.529.755
1906	1,247,500	86.31	107.674.248	43.600	90.48	2 040 005
1907	1,390,900	100.00	139,178,490	43,600	108.00	3,949,925
1908	1,419,000	99.00	140,481,000	44,000	108.00	4,702,541 4,752,000
1909	1,419,000	103.00	146,157,000	46,000	112.00	5.152.000
1910	1,492,000	120.00	179,040,000	56,000	123.00	6,888,000
1911	1,537,000	121.00	185.977.000	57,000	126.00	7,182,000
1912	1,568,000	113.00	177,184,000	57,000	119.00	6.783.000
1913	1,568,000	120.00	188.160.000	56,000	124.00	6,944,000
1914	1,584,000	118.00	186,912,000	57,000	123.00	7.011.000
1915	1,600,000	105.00	168,000,000	58,000	111.00	6,438,000
1916	1,584,000	105.00	166,320,000	61.000	110.00	6,710,000
1917	1.552.000	107.00	166,064,000	68,000	116.00	7.888,000
1918	1,583,000	104.00	164,632,000	69,000	116.00	8,004,000
1919	1,536,000	95.00	145,920,000	70,000	113.00	7,910,000
1920	1,387,000	93.00	129,124,000	82,000	113.00	9,302,000
1921	1,338,000	85.00	114,138,000	84,000	104.00	8,736,000
1922	1,300,000	74.00	96,564,000	96,000	84.00	8.064.000
1923	1,266,000	80.00	101,715,000	97,000	88,00	8,530,000
1924	1,240,000	75.00	93,353,000	99,000	86.00	8,512,000
1925	1,180,000	72.00	84,714,000	97,000	83.00	8,035,000
1926	1,149,000	74.00	85,026,000	98,000	85.00	8,330,000
1927	1,126,000	74.00	83,324,000	101,000	83,00	8,383,000
1928	1,106,000	75.00	82,950,000	95,000	84.00	7,980,000
1929	1,073,000	79.00	84,767,000	90,000	86.00	7,740,000
1930	1,058,000	80.00	84,556,000	85,000	90.00	7,678,000
1931	1,026,000	68.00	69,768,000	82,000	76.00	6,232,000
1932	970,000	56.00	54,320,000	79,000	64.00	5,056,000
1933	931,000	59.00	54,929,000	77,000	64.00	4,928,000
1934	912,000	73.00	66,576,000	74,000	79.00	5,846,000
1935	903,000	83.00	74,949,000	67,000	89.00	5,963,000
1936	885,000	107.50	95,138,000	67,000	120.60	8 082,000

		Chickens	. 1		Dairy Cows			
	No. chickens (000)	Value cents per head	Value	No. head (000)	Average price	Value		
867				345	\$23,29	\$ 8,038,108		
870		1 ::	1	416	28.78	11.958,042		
880		1		725	24.20	17,532,900		
890		::		1,332	19.79	26,358,064		
900		::		1,263	34.90	44,088,577		
001		١		1.378	31.87	43.915.553		
902		l ::	1	1,350	29.52	39,863,808		
003		i ::	1	1,391	30.03	41.769.087		
04		1	1	1,363	29.09	39,652,404		
005				1,336	27.90	37,269,713		
06		١	1	1.429	29.85	42,665,799		
007				1.555	32.00	49.769.600		
008		::	1	1.555	30.50	47,428,000		
909		l ::	1	1,586	34.00	53.924.000		
910*	32,063	1 ::	[	1.407	36.00	50.652.000		

TABLE 27. ANIMALS ON IOWA FARMS-Continued.

			e			
		Chickens		]	Dairy C	ows
	No. chickens (000)	Value cents per head	Value	No. head (000)	Average price	Value
1011 1912 1913 1914 1915	33,069 36,002 36,092 37,465 28,116	::		1,407 1,393 1,337 1,350 1,377	40.00 40.80 50.30 60.50 57.00	56,280,000 56,834,000 67,251,000 81,675,000 78,486,000
1916	35,755 35,760 25,400 26,277 26,478	::		1,391 1,405 1,405 1,381 1,094	58.50 66.50 76.70 86.00 88.00	81,374,000 93,432,000 107,764,000 118,766,000 96,272,000
1921 1922 1923 1924 1924	25,629 27,344 30,790 32,554 30,275	73 78	23,764,000 23,615,000	1,072 1,115 1,160 1,280 1,321	62.00 53.00 58.00 60.00 58.00	66,464,000 59,095,000 67,280,000 69,600,000 76,618,000
1926. 1927. 1928. 1929.	31,183 31,806 32,340 32,005 35,600	89 90 84 90 85	28,753,000 28,625,000 27,166,000 28,805,000 30,260,000	1,336 1,352 1,368 1,384 1,400	63.00 66.00 76.00 86.00 85.00	84,168,000 89,232,000 103,968,000 119,024,000 119,000,000
1931 1932 1933 1934 1935 1936	35,030 34,150 33,875 35,335 31,915	66 56 43 37 49	23,120,000 19,124,000 14,566,000 13,074,000 15,638,350	1,414 1,471 1,503 1,610 1,580 1,533	59.00 38.00 29.00 27.00 28.00 51.00	83,426,000 55,898,000 43,587,000 43,470,000 44,240,000 78,183,000

<sup>\*1910-1923-</sup>from Assessors' Reports.

		Hog	5		Catt	le		Shee	P
	No. head	Av. price per head	Value	No. head	Av. price per head	Value	No. head	Av. price per head	Value
1867	1,666	\$ 3.76	\$ 6,258,282	944	\$19.80	\$ 18,680,081	1,709	\$ 2.23	\$ 3,811,070
1870	2,500	6.65	16,632,317	1,163	23.95	27,848,978	1,062	1.29	1,369,980
1880	2,778	5.36	14,892,224	2,095	21.10	44,173,476	455	2.54	1,154,176
1890	5,805	5.94	34,481,700	3,909	18.60	72,813,463	476	2.80	1,330,382
1900	3,238	6.69	21,654,856	3,442	34.00	117,019,365	619	4.02	2,487,816
1901	8,815	8.00	70,481,679	4,990	26.90	134,235,371	997	3.89	3,876,453
1902	7,669	9.88	75,794,533	4,853	25.50	123,651,955	907	3.85	3,492,377
1903	7,439	8.97	66,724,735	4,965	25.05	124,313,752	898	3.58	3,211,571
1904	7,364	6.39	47,057,673	4,866	24.05	117,047,861	862	3.31	2,856,886
1905	7,291	6.71	48,920,094	4,803	21.80	104,617,723	698	3.80	2,652,483
1906	7,947	7.20	57,216,823	4,862	23.45	113,965,717	670	4.59	3,073,707
1907	8,584	9.50	81,552,750	5,515	25.40	140,057,600	704	5.32	3,747,574
1908	8,413	6.50	54,684,000	5,436	23.70	128,929,000	718	4.97	3,568,000
1909	7,908	8.00	63,264,000	5,428	25.85	140,369,000	747	4.60	3,436,000
1910	7,546	11.30	85,270,000	4,448	26.55	118,162,200	1,146	5.30	6,074,000
1911	9,055	11.60	105,038,000	4,326	29.30	126,627,900	1,226	5.07	6,216,000
1912	9,689	9.80	94,952,000	4,166	30.30	126,159,000	1,201	4.30	5,164,000
1913	8,720	12.00	104,640,000	3,944	38.85	153,282,000	1,249	5.10	6,370,000
1914	6,976	12.60	87,898,000	3,905	46.55	181,831,000	1,249	5.30	6,620,000
1915	8,720	11.00	95,920,000	4,060	44.10	179,098,500	1,249	5.60	6,994,000
1916	9,069	9.30	84,342,000	4,128	45.10	186,201,100	1,240	6.30	7,812,000
1917	9,370	14.70	137,739,000	4,159	51.10	212,404,800	1,200	8.80	10,560,000
1918	10,307	24.20	249,429,000	4,324	57.25	247,584,100	1,224	13.80	16,891,000
1919	10,822	27.50	297,605,000	4,242	63.50	269,254,600	1,270	13.70	17,399,000
1920	8,114	21.80	199,604,000	4,558	58.00	250,234,000	1,092	12.10	13,234,000
1921	8,265	14.50	135,546,000	4,347	40.30	166,055,000	1,059	6.90	7,281,000
1922	8,928	11.00	110,707,000	4,311	34.80	142,263,000	852	5.40	4,604,000
1923	11,602	12.80	168,229,000	4,545	39.80	171,346,000	840	8.40	7,083,000
1924	11,415	10.30	132,414,000	4,533	40.30	173,161,000	900	8.30	7,448,000
1925	9,098	17.00	154,666,000	4,372	37.50	163,950,000	870	11.20	9,698,000
1926	9,260	18.70	173,440,000	4,193	42.40	177,657,000	914	11.80	10,749,000
1927	10,069	20.20	203,595,000	3,999	44.00	175,916,000	1,070	11.20	10,935,000
1928	11,124	14.40	160,186,000	3,758	54.30	204,059,000	983	10.80	10,616,000
1929	10,244	15.10	154,684,000	3,858	61.90	238,810,000	1,085	11.00	11,935,000
1930	10,200	16.00	162,784,000	3,983	61.30	243,993,000	1,000*	9.90	9,900,000
1931 1932 1933 1934 1935 1936	10,509 10,700 10,140 10,200 6,250 7,250	13.40 6.40 4.50 4.70 8.00 15.80	140,821,000 68,480,000 45,630,000 47,940,000 50,000,000 114,313,000	4,063 4,200 4,380 4,617 4,570 4,661	42.40 26.70 20.60 19.50 20.50 36.80	172,271,000 112,041,000 90,228,000 90,031,500 93,685,000 171,476,000	1,010* 1,060* 1,015* 1,077* 1,193 1,253	3.30 2.90	5,555,000 3,498,000 2,943,500 4,631,100 5,607,100 8,989,000

<sup>\*</sup> Stock sheep and lambs—does not include lambs on feed Jan. 1. Source: U. S. D. A., Bureau of Agricultural Economics.

feeding is merely a part of the farm business along with hog raising, dairying, poultry raising and crop production.

Most of the feeder cattle brought into Iowa for fattening are purchased through the livestock markets of Omaha, Kansas City, Sioux City and St. Paul. Of these, Omaha and Sioux City, located on the western border of the state and near its largest feeding area, are the most important.

#### Dairy Cows

Though dairying is not ordinarily thought of as one of Iowa's leading industries, this state ranks third, behind Minnesota and Wisconsin, in numbers of dairy cows and fourth, behind those two and New York, in total milk production. Iowa ranks second in butter production, Minnesota ranking first.

Iowa's dairy industry is very closely connected with beef production. Unlike New York or Wisconsin, Iowa has a large proportion of dual purpose cows-35 percent of the dairy cows, according to the 1930 census-compared with 4 percent for Wisconsin and 3 percent for New York. When prices favor butter rather than beef, Iowa farmers raise more heifer calves for milk production. And when beef prices favor beef production they feed out the calves for market. Since the war dairying has been in a more favorable position than any of the other farm enterprises of Iowa, with the exception of poultry and eggs. Therefore emphasis has been placed upon milk production.

Very little of Iowa's milk goes into consumption as market milk. Cream is usually sold for butter making and the skimmilk fed to hogs or calves.

#### Chickens

Poultry production has grown from a sideline of little importance to one of the greatest sources of cash income to the state. In most cases the poultry enterprise is still a sideline, but in the aggregate the income is considerable. In the

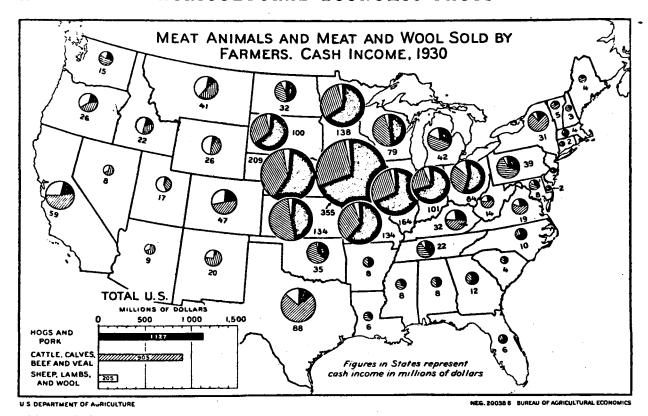


Fig. 28. This map shows that the north central states are the heaviest producers of meat animals. Iowa is the leading

meat producing state. The western states produce more wool. Notice the concentration of hog production in Iowa.

years 1928-32, Iowa had more chickens on farms than any other state, with 7 percent of the country's total. Missouri was second.

Specialized poultry producers, like specialized dairymen, are few in Iowa. The bulk of the eggs of the state are produced on general farms where the housewife manages the flock. In some cases the flocks have been expanded to 1,000 or more hens and have become a major part of the farm business. More than 95 percent of the farms of the state reported poultry in the 1930 census.

## Sheep

Sheep raising is not very important in Iowa, nor is Iowa very

important in the national sheep industry. Less than 1 percent of the state's annual farm income comes from sheep and wool. In the early days of the state sheep were of considerable utility to the pioneers, since they provided not only food, but clothing. But with the development of commercial corn-hog farming, the sheep has been forced out of Iowa to the grazing lands of the West.

Iowa farmers still feed out a number of lambs, both natives and western feeders. In certain parts of the state, particularly southern Iowa, considerable numbers of sheep are still raised and large amounts of wool clipped.

### Horses and Mules

To provide power for cultivating the thousands of acres of tillable land, Iowa has the most horses and mules of any state. On Jan. 1, 1936, the Bureau of Agricultural Economics reported about 885,000 head of horses and mules. This represents a steady decline since the World War. Mule numbers increased until 1927 before declining, but horses started declining in 1919.

A big factor in this decline has been, of course, the increase in tractors. Horse numbers are now at such low ebb, however, that it is probable they will increase for several years.

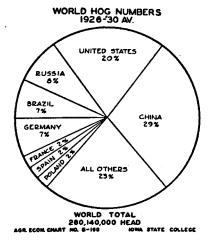


Fig. 29. The United States ranks second in world hog numbers. She produced from 1926 to 1930, an average of 20 percent of the total. China, Russia, Brazil and Germany were the other leading hog producers.

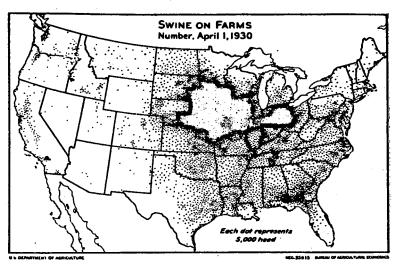


Fig. 30. The map shows that Iowa is in the center of swine production in the United States.

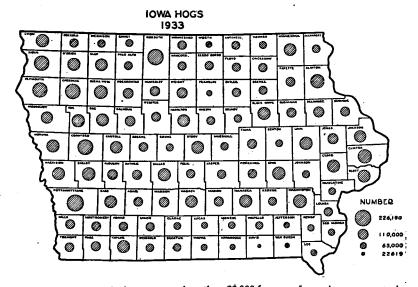


Fig. 31. Although there are not less than 22,000 hogs on farms in any county in Iowa, there is considerable variation among counties and areas in the state. The Western Livestock Area and the East Central Livestock Area have the most hogs on farms.

Data in table 28.

TABLE 28. HOGS RAISED TO DISPOSAL AGE (FARM AND MARKETING).

I_		1932			1933	
County	Spring	Fall	Total	Spring	Fall	Total
32.4	125 747	24,264	150,031	132,894	28,143	161,037
Buena Vista Cherokee	125,767 140,531	29,104	169,753	144,655	29,085	173,720
~loss	97,206	20,066	117,273	102,204	22,045	124,249
Dickinson Emmet you D'Brien	59,614	12,350	71,964	63,216 57,410	13,999	77,215 72,900 129,165
Emmet	54,410	13,658	68,068	57,410	15,490	72,900
Lyon	117,157	12,597	129,754	116,173 103,022	12,992 18,306	121,328
O'Brien	104,673	18,406 10,862	123,079 84,858	72,880	11,323	84,203
J8CEO18	73,996	17,636	102,197	88,581	21,256	109,837
Palo Alto	84,561 141,638	22 983	164,621	147,605	22,306	169,911
Plymouth Pocahontas	97,805	22,997	102,802	102,239	22,628	124,867
Sioux	175,640	20,189	195,829	172,938	20,401	193,339
Butler	57,529	17,144	74,673	59,117	15,850	74,967
Cerro Gordo	58,291	16,057	74,348	61,780	17,328	79,108
floyd	64,093	20,011	84,104	67,514	20,455	87,969
ranklin	39,826	9,836	49,662 104,721	41,616 82,477	9,783 21,979	51,399 104,456
Hancock	82,335	22,386 25,742	109,108	86,720	18,223	104,943
Humboldt	83,366 181,985	42,490	224,475	185,317	41.327	226,644
Mitchell	59,408	19,287	78.695	65.464	41,327 21,366	86,830
Vinneham	69,920	18,117	88.037	71,319	19,982	91,301
Winnebago	44,227	11,565	55,792	48,641	12,545	61,186
Wright	89,643	23,058	112,701	95,650	21,253	116,903
Mlamakee	56,714	13,046	69,760	59,085	11,187	70,272
Black Hawk	98,400	35,869	134,269 79,789	105.614	37.912	143,526
Bremer	59,283	20,506	79,789	61,620 79,212	18,874	80,494
Buchanan,	74,661	34,896	109,557	/9,212 66 010	34,155	113,367
hickasaw	61,948	22,327 28,914	84,275 175,019	66,018 148,480	21,687 25,953	87,705 174,433
Delaware	106,105 82,883	22,328	105,211	86,363	23,160	100 523
Dubuque	80,311	16.487	96,798	85,119	14,685	109,523 99,804
ayette	81,173	27,058	108,231	87,071	27,870	114,941
loward	49,572	19,277	68,849	51,561	18,819	70,380
Winneshiek	107,153	24,817	131,970	112,553	22,835	135,388
i	•					
Audubon	80,553	23,399 22,770	103,952 102,090	83,107 81,006	23,704 24,006	106,811 105,012
Calhoun Carroll	79,320 124,042	23,737	147,779	128,882	148,897	103,012
rawford	157,932	22,759	180,691	166,570	23.980	190,550
Greene.	69,052	18,288	87,340	74,112	19,445 29,205	93,557 115,319
Outhrie	79,272	29,947	109,219	86,114	29,205	115,319
Harrison	90,175	31,550	121,725	92,405	29,236	121,640
da	108,752	18,586	127,338	115,343	20,753	136,096
Monona	100,873	22,495 18,917	123,368	104,001 124,973	23,557 19,073	127,558 144,046
ac	112,660 108,375	26,918	131,577 135,293	111,628	24,575	136,203
Woodbury	116,749	26,416	143,165	117,611	25,464	143,074
Boone	73,589	23,307	. 96,896	78,000	21,934	99,934
Dallas	90,008	29,663	119,671	96,207	28,554	124,762
Grundy	55,629	14,766	70,395	55,934	14,770	70,704
Iamilton	94,908	23,992	118,900	100,142	22,421	122,563
łardin	59,509	16,908	76,417	63,134	15,029	78,163
asper	56,594	22,589	79,183	59,716	20,125	79,841
Marshall	74,280	27,674 28,910	101,954	80,618 79,519	25,054 29,557	105,672 109,076
Polk	76,519 72,195	35,826	105,429 108,021	76,186	36,488	112,674
oweshiek.	91,874	33,262	125,136	98,830	35,481	134,311
ſama	87,630	22,349	109,979	92,283	23,446	115,729
Vebster	87,876	20,827	108,703	91,207	20,427	111,634
Benton	52,029	14.846	66,875	54,147	15,908	70,055
edar	96,672	14,846 45,724	142,396	101,285	43,212	144.497
linton	130,779	33,260	164,029	138.815 I	43,212 32,717	171,532
owa	102,667	33,260 43,529	146,196	109,532	42,935	171,532 152,467
ackson	88,132	27,062	115, 194	109,532 92,760	26,261	119,021
ohnson	60,959	38,680	99,639	62,200	37,086	99,286
ones	83,884	28,024	111,908	87,989	27,272	115,261
inn.	96,513	46,009	142,522 95,978	107,672	48,820 34,353	156,492 99,845
Auscatine	62,007 104,044	33,971 33,745	137,789	65,492 106,659	30,780	137,439
		1				
Adair	75,652 54,311	31,680 28,636	107,332 82,947	80,573 55,623	30,819 26,026	111,392 81,649
damsass	107,725	45,221	82,947 152,946	35,623 113,421	42,467	155,888
remont	61,137	24,324	85,461	63,776	21.021	84,797
Aills	68,134	20,880	89,014	69,829	17,695	87,524
Montgomery	77,400	29,638	107,038	82,369	25,569	107,936
age	73,380	35,997	109,357	72,137	32,664	104,801
Pottawattamie	176,194 76,809	49,996 44,015	226,190 120,824	181,172 78,535	40,129 37,239	221,301 115,774
•					·	
Appanoose	27,633	17,075	44,708	30,461	17,696	48,157
larke	38,303 44,311	22,226 25,744	60,529 70,055	43,061 51,114	23,464 27,224	66,525 78,338
Decatur	32,057	18.618 I	50,675	34,127	21,065	55,192
	69,656	39,403	109,059	76,015	37,519	113,534
			207,007	10,010	5.,515	-40,00
Madison	71,354	38,706 I	110,060	72,402	37.018	110.020
Madison	71,354 36,088	39,403 38,706 21,792	57,880	39,698	37,618 23,796	110,020 63,490
Madison	71,354 36,088 47,215	21,792 25,632	57,880 72,847	39,698 53,621	37,618 23,796 25,326	63,490 78,947
Madison	71,354 36,088	21,792	57,880	39,698	37,618 23,796 25,326 24,331 49,200	63,490

TABLE 28. HOGS RAISED TO DISPOSAL AGE (FARM AND MARKETING)-Continued.

County	<del> </del>	1933			1932	
	Spring	Fall	Total	Spring	Fall	Total
Davis Des Moines Henry Jefferson Keokuk Lee Louisa Mahaska Van Buren Wapello Washington	13,296 36,273 35,814 28,357 47,956 31,205 51,703 93,630 20,997 42,003 94,122	9,195 20,516 21,014 19,731 30,592 21,524 29,400 51,060 12,677 24,355 64,914	22,491 56,789 56,828 48,088 78,548 52,739 81,103 144,663 33,674 66,385	12,970 36,563 36,107 29,129 51,969 32,848 53,939 96,066 20,927 43,377 95,744	9,152 20,399 21,814 18,768 30,768 22,255 28,384 52,329 13,429 24,369 60,853	22,122 56,962 57,921 47,897 82,737 55,104 82,323 148,395 34,356 67,746

Source: Iowa Corn-Hog Board of Review. Office of Leslie M. Carl, Des Moines, Iowa.

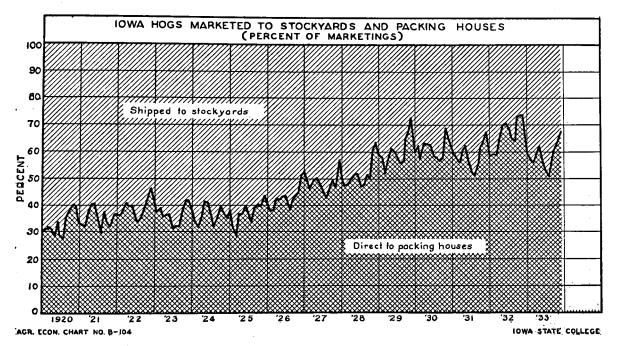


Fig. 32. The chart shows that there is a trend toward direct marketing of hogs. In 1920 only 32.6 percent of Iowa hogs were marketed direct to packing houses. By 1932, there were over twice as many, or 66.1 percent directs. The chief reasons for this increased direct

marketing are found in the transportation developments, both rail and motor truck, as they affect convenience and costs of moving livestock direct and through public markets and of trans-porting live animals as compared with livestock products; in comparative la-

bor costs among packers in different areas; in differences between direct and public market channels with respect to costs of marketing, including shrinkage, commission charges, yardage fees and other marketing costs.

Data in table 29.

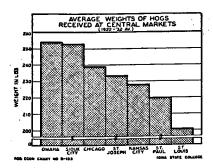


Fig. 33. The chart shows that there is a variation in weights in the hogs received at the central markets. Part of this variation is due to the difference in farm feed supplies and farm management in the territory surrounding the markets. Some markets also build up a reputation for various weight hogs. This is especially true of St. Louis, with a reputation for light shipping hogs and Omaha for heavier hogs.

Data in table 30.

TABLE 29. MARKETINGS OF HOGS FROM IOWA FARMS ANNUALLY AND MONTHLY 1920-1933.

							A FAILES AND					-	
	Total	Monthly	Stock 3	ards	Packing	houses		Total	Monthly	Stock y	ards	Packing	houses
	movement	percent	Numbers	Percent	Numbers	Percent		movement	percent	Numbers	Percent	Numbers	Percent
January February March April May June July August September October November December	701,924 802,643 613,554 866,714 837,378 688,553 587,473	13.0 8.1 9.3 6.9 10.0 9.7 7.9 6.8 5.1 6.9 10.8	789,842 482,885 549,610 422,486 621,646 556,806 492,899 426,261 295,159 269,119 360,594 569,988	70.1 68.8 68.5 68.9 71.7 66.5 71.6 64.2 61.2 59.9	337,072 219,039 253,033 191,068 245,068 280,572 195,654 161,212 164,851 170,333 241,589 368,838	29.9 31.2 31.5 31.1 28.3 33.5 28.4 27.4 35.8 38.8 40.1 39.3	1926 January. February March. April. May June. July. August September. October November. December	759,616 845,080 851,929 811,099 671,039 610,052 795,709	12.3 9.5 9.7 7.4 7.1 7.9 8.0 7.6 6.3 5.7 7.5 11.0	768,844 628,750 637,866 450,577 440,881 476,431 478,932 497,715 384,843 339,761 436,583 571,637	58.4 62.0 61.6 57.3 58.0 56.4 56.2 61.4 57.4 55.7 54.9	548,585 384,890 398,018 335,334 318,735 368,649 372,997 313,384 286,196 270,291 359,126 606,454	41.6 38.0 38.4 42.7 42.0 43.6 43.8 38.6 44.3 45.1 51.5
Annual	8,665,624	100.0	5,837,295	67.4	2,828,329	32.6	1	10,675,479	100.0	6,112,820	57.3	4,562,659	42.7
January February March April May June July August September October November December	701,313 661,187 648,198 848 927	11.5 10.5 7.8 7.4 7.2 9.4 8.1 7.1 6.1 5.8 7.7	690,824 641,017 478,961 415,189 387,946 504,921 471,260 450,779 340,764 344,444 476,156 645,195	67.0 67.6 68.3 62.8 59.8 59.5 65.0 70.5 62.6 66.3 68.4 63.3	340,688 307,602 222,352 245,998 260,252 344,006 253,240 188,954 203,259 175,215 219,876 374,821	33.0 32.4 31.7 37.2 40.2 40.5 35.0 29.5 37.4 33.7 31.6	January January March April May June July August September October November December	1,116,551 745,923 932,557 1,166,677 944,529 936,776 599,794 645,688 897,085	11.6 8.4 9.6 6.5 8.1 10.1 8.2 8.1 5.6 7.8 10.8	632 .815 496 .777 602 .603 375 .636 463 .547 605 .726 519 .799 3317 .979 324 .289 478 .346 535 .334	47.2 51.1 54.0 50.4 49.7 51.9 55.0 57.3 53.0 50.2 53.3 42.8	709,404 475,543 513,948 370,287 469,010 560,951 424,730 400,037 281,815 321,399 418,739 715,637	52.8 48.9 46.0 49.6 50.3 48.1 45.0 42.7 47.0 49.8 46.7 57.2
Annual	8,983,719	100.0	5,847,456	65.1	3,136,263	33.9	Annual	11,551,090	100.0	5,889,590	51.0	5,661,500	49.0
January February March April May June July August September October November December	785,194 577,760 763,057 914,746	10.8 9.2 8.1 6.0 7.9 9.4 8.1 6.9 6.5 6.1 8.3 12.7	665,512 571,664 487,861 342,523 461,591 554,647 509,161 444,261 406,641 361,822 458,414 664,487	63.5 63.9 62.1 59.3 60.5 60.6 65.2 66.6 64.3 60.9 56.9 53.8	382,098 322,916 297,333 235,237 301,466 360,099 272,136 222,789 225,820 232,052 347,002	36.5 36.1 37.9 40.7 39.5 39.4 34.8 33.4 35.7 39.1 43.1	Javan	803,111 1,019,777 987,223 854,480 691,429 572,639 783,664 1,004,947	11.9 13.3 12.0 6.6 7.8 7.5 6.5 5.3 4.4 6.0 7.6	792,228 922,704 812,880 435,776 486,127 471,884 451,780 360,871 276,758 391,831 391,332 529,358	50.6 52.7 51.6 50.4 47.7 47.8 52.9 52.2 48.3 50.0 38.9 36.4	772,492 827,610 762,484 429,335,533,650 515,339 402,700 330,558 295,881 391,833 613,815 926,030	49.4 47.3 48.4 49.6 52.3 52.2 47.1 47.8 51.7 50.0 61.1 63.6
Annual	9,698,594	100.0	5,928,584	61.1	3,770,010	38.9	Annual	13,125,056	100.0	6,323,329	48.2	6,801,727	51.8
January February March April May June July August September October November December	961,597 958,816 1,101,494 1,176,015 1,024,311 780,052 909,364 1,166,771 1,467,416	10.2 9.1 7.2 7.2 8.3 8.8 7.7 5.8 6.8 8.8 11.0	798,818 754,449 739,334 617,808 612,251 697,631 807,866 693,408 531,344 554,900 678,797 850,922	58.8 62.5 61.3 64.2 63.9 63.3 68.7 67.7 68.1 61.0 58.2 58.0	558,978 452,594 466,338 343,789 346,565 403,863 368,149 330,903 248,708 354,464 487,974 616,494	41.2 37.5 38.7 35.8 36.1 36.7 31.3 32.3 31.9 39.0 41.8 42.0	January January February March April May June July August September October November December	789, 194 863, 114 918, 030 1,018, 381 814, 805 735, 294 829, 873 1,045, 135 1,477, 928	12.8 11.2 7.2 6.4 7.0 7.4 8.3 6.6 5.9 6.7 8.5	639,339 583,016 426,022 340,432 331,419 366,386 429,780 360,071 316,540 292,080 335,722 402,091	40.8 42.2 48.0 43.1 38.4 39.9 42.2 44.2 43.0 35.2 32.1 27.2	927,393 797,049 462,050 448,762 531,695 551,644 588,601 454,734 418,754 537,793 709,837	59.2 57.8 52.0 56.9 61.6 60.1 57.8 55.8 57.0 64.8 67.9
	13,316,347	100.0	8,337,528	62.6	4,978,819	37.4	!	12,326,623	100.0	4,822,898	39.1	7,503,725	60.9
January February March April May June July August September October November December	788,055 652,178 780,896 1,328,043	11.1 10.5 9.2 6.8 6.9 8.0 8.2 5.7 4.7 5.7 9.7	954, 135 950,092 852,939 601,869 554,119 648,503 715,824 539,393 424,386 470,487 832,928 1,199,382	62.3 65.8 68.2 64.1 58.2 59.0 63.2 68.4 65.1 60.2 62.7 64.9	577,628 493,271 397,119 336,317 398,049 451,199 416,745 248,662 227,792 310,409 495,115 649,954	37.7 34.2 31.8 35.9 41.0 36.8 31.6 34.9 39.8 37.3 35.1	1930 January February March April May June July August September October November December	1,577,915 1,178,667 954,166 870,308 913,306 1,021,100 948,764 792,221 698,187 798,310 1,063,164 1,363,852	12.9 9.7 7.8 7.2 7.5 8.4 7.8 6.5 5.7 6.6 8.7	634,629 443,557 406,101 314,335 331,533 378,785 393,763 334,731 303,754 336,926 329,399 492,978	40.2 37.6 42.6 36.1 36.3 37.1 41.5 42.3 43.5 42.2 31.0 36.1	943,286 735,110 548,065 555,973 581,773 642,315 555,001 457,490 394,433 461,384 733,755 870,874	59.8 62.4 57.4 63.9 63.7 62.9 58.5 57.7 56.5 57.8 69.0 63.9
Annual	13,746,317	100.0	8,744,057	63.6	5,002,260	36.4	Annual	12,179,960	100.0	4,700,501	38.6	7,479,459	61.4
January February March March April May June July August September October November December	1,693,670 1,228,479 789,044 686,603 697,462 896,961 725,954 617,561 632,634 705,731 927,089	15.5 11.3 7.3 6.3 6.4 8.2 6.7 5.7 5.8 6.5 8.5	1,054,884 844,979 567,487 426,307 432,971 539,468 459,979 411,701 383,133 423,043 560,523 722,886	62,3 68.8 71.9 62.1 62.1 60.1 63.4 66.7 60.6 59.9 60.5 56.4	638,786 383,500 221,557 260,296 264,491 357,493 265,975 205,860 249,501 282,688 366,566 558,438	37.7 31.2 28.1 37.9 39.9 36.6 33.3 39.4 40.1 39.5 43.8	January January February March April May June July August September October November December	1,736,993 1,333,894 1,084,734 896,808 919,634 943,369 760,596 760,596 1,190,630 1,717,613	13.3 10.2 8.3 6.9 7.0 7.2 6.6 5.5 5.8 7.0 9.1	696,467 558,659 475,230 352,129 344,210 414,427 404,739 353,166 337,417 355,489 430,769 553,707	40.1 41.9 43.8 39.3 37.4 43.9 47.1 48.8 44.4 39.1 36.2 32.2	1,040,526 775,235 609,504 544,679 575,424 528,942 455,035 370,503 423,179 552,605 759,861 1,163,906	59.9 58.1 56.2 60.7 62.6 56.1 52.9 51.2 55.6 60.9 63.8 67.8
Annual	10,882,512	100.0	6,827,361	62.7	4,055,151	37.3	1	13,075,808	<del></del>	5,276,409		7,799,399	-

TABLE 29. MARKETINGS OF HOGS FROM IOWA FARMS ANNUALLY AND MONTHLY 1920-1933—Continued.

	Total	Monthly	Stocky	urds	Packing	houses	1
	movement	percent	Numbers	Percent	Numbers	Percent	ı
1932							ı
January	1,790,212	14.3	740,847	41.4	1,049,365	58.6	1
February	1,540,997	12.3	622.531	40.4	918,466	59.6	Į
March	1,081,187	8.6	446.704	41.3	634,483	58.7	ı
April	889,826	7.1	311.576	35.0	578,250	65.0	ı
May	946,867	7.6	282,058	29.8	664,809	70.2	ı
June	851,297	6.8	244,756	28.8	606,541	71.2	١
July	750,525	6.0	236,221	31.5	514,304	68.5	1
August	804,335	6.4	276,577	34.4	527,758	65.6	1
September	787,352	6.3	282,176	35.8	505,176	64.2	1
October	806,065	6.4	216,833	26.9	589,232	73.1	ł
November	897,449	7.2	230,520	25.7	666,929	74.3	1
December	1,372,250	11.0	352,121	25.7	1,020,129	74.3	1
Annual	12,518,362	100.0	4,242,920	33.9	8,275,442	66.1	ı
1933	1			[		ļ	١
January	1,736,993	13.3	696,467	40.1	1,040,526	59.9	1
February	1,333,894	10.2	558,659	41.9	775,235	58.1	1
March	1,084,734	8.3	475,230	43.8	609,504	56.2	١
April	896,808	6.9	352,129	39.3	544,679	60.7	1
May	919,634	7.0	344,210	37.4	575,424	62.6	1
June	943,369	7.2	414,427	43.9	528,942	56.1	1
July	859,774	6.6	404,739	47.1	455,035	52.9	1
August	723,669	5.5	353,166	48.8	370,503	51.2	1
September	760,596	5.8	337,417	44.4	423,179	55.6	- 1
October	908,094	7.0	355,489	39.1	552,605	60.9	ſ
November	1.190.630	9.1	430,769	36.2	759,861	63.8	1
December	1,717,613	13.1	553,707	32.2	1,163,906	67.8	1
Annual	13,075,808	100.0	5,276,409	40.4	7,799,399	59.6	1

	Total	Monthly	Stocky	ards	Packing	ing houses	
	movement	percent	Numbers	Percent	Numbers	Percent	
1934							
January	1,659,919	13.4	569.487	34.3	1.090.432	65.7	
February	1.076.198	8.7	432,439	40.2	643,759	59.8	
March	878,014	7.1	312,969	35.6	565.045	64.3	
April	889.814	7.2	269,699	30.3	620,115	69.7	
May	1,097,053	8.8	333,262	30.4	763,791	69.6	
June	1.003.185	8.1	322,393	32.1	680.792	67.9	
July	986,058	8.0	317,922	32.2	668,136	67.8	
August	760,910	6.1	241,260	31.7	519,650	68.3	
September	661,995	5.3	183.654	27.7	478,341	72.3	
October	894.055	7.2	286.250	32.0	607.805	68.0	
November	1,199,915	9.7	370.497	30.9	829,418	69.1	
December	1,286,560	10.4	389,576	30.3	896,984	69.7	
Annual	12,393,676	100.0	4,029,408	32.5	8,364,268	67.5	

Source: U. S. D. A., Bureau of Agricultural Economics, Office of Leslie M. Carl, Des Moines, Iowa.

TABLE 80. AVERAGE WEIGHT OF HOGS.

	TABL	E 00. 2	VERAGI	2 WEIGE	IT OF H	UGB.		
	Chicago <sup>1</sup>	Kansas City <sup>1</sup>	Omaha <sup>1</sup>	St. Louis <sup>1</sup> .	St. Joseph <sup>1</sup>	Sioux City <sup>1</sup>	St. Paul <sup>1</sup>	Slaughtered under Federal inspection <sup>2</sup>
1934	228	217	236	210	222	237	215	221
1933	243	231	260	215	236	258	223	231
1932	240	229	253	210	230	254	211	230
1931	233	228	257	206	228	255	219	233
1930	236	223	255	202	228	262	231	' 231
1929	238	231	1 254	204	232	253	234	232
1928	235	235	254	205	237	257	225	229
1927	239	235	261	208	240	260	217	233
1926	247	237	258	212	241	240	215	235
1925	234	233	243	211	229	236	218	235
	234	233	245	200			218	
1924					231	243	213	222
1923	238	218	256	186	233	256	214	225
1922	239	• • • •	256	181	235	259	221	226
1921	234		257	185	235	252	212	226
1920	235		246	183	235	246	218	
1919	233		245		227	251		
1918	234		249		230	248		
1917	213				228	225		
1916	210				219	231		
1915	219				}	,		
1914	231		1	l :::	:::	l :::	1	
1913	228	1		1 :::	1 :::		1	
1912	226					t		
1911	228			:::	1	• • • • • • • • • • • • • • • • • • • •		
	235	• • • •			}			
1910	218	• • •						• • • •
1909	216	•••		• • • •	• • • •		• • • • •	
1908		•••				1		
1907	231	• • • •						
1906	226		• • • •	• • • •				
1905	222	•••						
1904	220		1					
1903	227					ł		
1902	220							
1901	226			l	١	l	l	١
1900	223		l			l	l	l
1899	237			l	1	1	l	I
1898	234		:::	l :::	l :::	1	l :::	l :::
1897	242		:::	l :::	:::	:::	1 :::	:::
1896	246		l :::	l :::	l :::	:::	1 :::	1
	230		i ::: ı		} :::	l :::	1 :::	1 :::
1895	233							1
1894	240	• • • •	• • • •		i	1		
1893	223	• • • •	• • • •					
1892		• • • •	•••					
1891	221	• • • •				١ ٠٠٠		
1890	234		• • • •			• • • • •	• • • •	
1889	248							
1888	229	• • • •						} ···
1887	228							
1886	228							
1885	239			1			١	
1884	240					l <b>.</b>		
1883	248			l	۱	l	l	l
1882	232			l		l		
1881	240		:::	l :::	:::	1 :::	1	;;
	246						1	1
1880	248	•••		:::	• • • • • • • • • • • • • • • • • • • •		1 :::	:::
1879	440	•••	•••			• • • • • • • • • • • • • • • • • • • •	ı	ı

Source: 1. Drovers Journal Yearbook of Figures 1934 Edition.
2. U. S. D. A. Bureau of Agricultural Economics, "Livestock, Mears and Wool Market Statistics and Related Data, 1934."

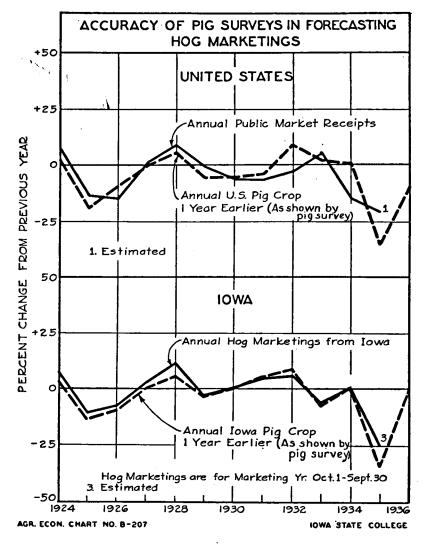


TABLE 31. POUNDS OF HOGS MARKETED FOR EACH POUND OF HOGS SLAUGHTERED ON FARMS.

Regions	1924-28	1929	1930	1931
United States North Atlantic States North Central States North East Central Northwest Central Northwest Central Owa South Atlantic States South Central States Western States	0.62 8.34 5.14 11.49 22.21 0.31	3.75 0.82 8.72 5.11 12.30 24.62 0.32 0.62 3.08	3.64 0.76 8.49 4.86 11.96 24.81 0.30 0.52 2.66	4.17 0.63 9.47 5.30 13.16 25.34 0.27 0.42 3.28

Source: Based on the figures for "Shipments and Local Slaughter" and "Farm Slaughter" reported in the "Preliminary Report on Farm Value, Gross Income and Cash Income from Farm Production," Part 1, U. S. D. A., Bur. of Ag. Ec. (Summarized Annually in Yearbook of Agriculture.)

Fig. 34. The chart shows that estimates based on pig surveys are fairly accurate in forecasting the number of hog marketings. The forecasts for Iowa were more accurate than for the United States.
Data in table 32.

TABLE 32. ACCURACY OF PIG SURVEYS IN FORECASTING HOG MARKETINGS.

	Iowa		
Marketing Year	Hog marketing in percentage of previous year	Pig Crop Year	I'ig crop in percentage of previous year
1923-24 1924-25 1925-26 1925-27 1927-28 1928-29 1930-31 1931-32 1933-34 1934-35 1935-36	107.4 89.5 92.3 103.0 111.3 96.7 100.8 104.7 105.6 93.5 99.9 75.01	1923 1924 1925 1926 1927 1928 1929 1930 1931 1932 1933 1934 1935	103.1 86.1 90.6 100.8 105.8 105.6 100.8 105.4 108.5 92.1 100.4 66.8 99.02
	United Stat	es	
1923-24 1924-25 1924-26 1926-27 1926-27 1927-28 1928-29 1929-30 1930-31 1931-32 1931-32 1932-33 1933-34 1934-35 1934-35	106.9 85.4 85.0 101.4 109.0 99.5 93.4 93.3 97.1 105.4 84.2 79.0	1923 1924 1925 1926 1927 1928 1929 1930 1931 1932 1933 1933 1934 1935	102.5 81.0 90.0 100.0 106.0 94.0 94.6 96.0 109.0 109.6 65.0 90.0

<sup>1</sup>Estimated.

<sup>2</sup>Est. from June 1, 1935 pig survey and breeding intentions for fall of 1935.

Source: "Livestock in Iowa Agriculture,"
Lealie M. Carl, Sr. Ag. Statistician, U. S. D. A., Des Moines, Iowa.

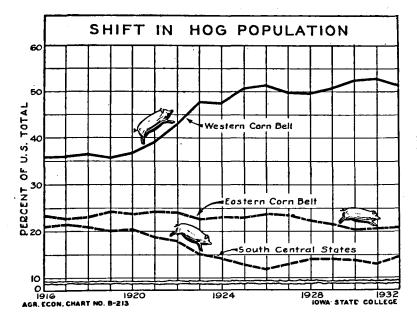
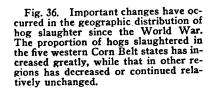


Fig. 35. Most of the increase in hog numbers in the United States since 1914 occurred in the western Corn Belt states. The other Corn Belt states lost approximately what the western states grained.



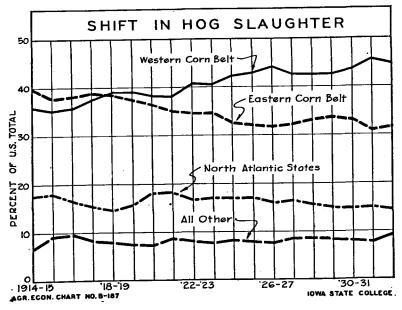


TABLE 38. LIVESTOCK ON FARMS IN IOWA

=	TABLE 33.				if .		RMS IN I			}	Mules	
	H	ogs	All C	Cattle		d Heifers d and over	She	жр ,	Ho	rses		
	1935	1930	1935	1930	1935	1930	1935	1930	1935	1930	1935	1930
State		10,055,591	1 '	3,516,914	2,030,527		1,782,906	1,557,517	902,512	1,040,479	67,320	84,515
Adair		113,209 76,422 54,105 30,485 94,237 129,104 94,959 80,306 77,718 87,829	40,659 29,220 49,462 27,511 46,255 69,737 54,848 44,171 42,284 48,692	37,732 28,733 45,004 24,420 36,651 50,466 40,507 31,718 36,714 35,204	19,605 13,647 24,984 15,563 19,213 28,584 27,001 18,488 26,262 24,011	16,459 13,042 20,486 11,843 14,904 21,897 19,204 14,192 23,197 17,371	12,826 10,490 10,993 29,887 10,893 12,210 17,767 5,557 5,142 12,789	22,763 17,611 14,249 36,200 11,699 10,440 7,646 5,604 7,036 9,103	9,228 6,177 8,449 5,957 7,997 12,181 8,595 9,489 8,768 9,974	10,243 7,338 9,242 6,819 9,742 15,135 9,730 11,582 9,571 10,667	686 656 138 514 690 567 366 922 220 476	967 886 172 800 823 858 695 978 206 622
Buena Vista Butler Calhoun Carroll Cass Cedar Cerro Gordo Cherokee Chickasaw Clarke		132,519 90,621 76,382 121,211 120,470 179,892 90,563 136,837 65,817 55,173	59,196 52,754 39,737 55,444 46,759 59,753 52,694 59,967 45,145 23,839	36,666 41,309 25,690 40,219 37,878 42,895 38,454 35,639 36,042 24,096	21,064 24,951 16,734 22,640 19,899 24,595 22,929 18,413 24,044 11,857	14,983 20,170 11,625 16,572 14,530 17,705 17,854 13,090 18,398 10,676	29,080 17,539 11,680 10,032 13,410 29,812 24,645 37,001 9,423 7,816	10,304 8,956 8,851 9,897 20,533 22,143 8,118 8,595 11,177 17,568	10,028 10,687 9,984 10,094 9,008 9,480 9,375 9,688 9,118 5,503	11,543 11,679 12,029 12,076 10,648 11,067 11,024 11,123 9,575 7,200	528 232 933 819 1,327 771 301 461 145 387	657 340 1,007 929 1,493 798 380 520 210 626
Clay Clayton Clinton Crawford Dalias Decatur Delaware Des Moines Dickinson	62,515 61,952 87,939 92,431 57,183 14,833 24,530 69,826 43,685 36,276	90,237 137,849 142,209 190,389 103,565 32,909 50,587 120,943 72,276 52,807	55,605 63,122 71,403 65,212 38,312 23,108 31,593 52,370 30,203 35,311	35,962 57,878 51,206 54,915 32,308 22,938 28,735 42,560 21,602 21,110	19,462 36,957 24,780 26,223 17,110 13,350 16,690 30,188 14,537 13,827	15,625 31,224 20,344 20,491 12,603 11,539 12,895 22,984 10,522 9,518	30,674 9,555 7,327 8,193 8,599 65,248 14,995 13,707 9,239 22,505	15,149 13,350 7,380 8,247 14,180 85,747 23,928 9,715 11,144 8,259	9,389 12,128 11,704 12,467 8,836 5,921 6,507 9,935 6,819 6,511	10,411 13,133 13,265 14,249 10,383 7,136 7,831 10,138 7,429 7,423	383 337 473 958 898 494 728 549 432 285	611 494 453 1,115 1,190 671 1,193 589 586 414
Dubuque Emmet Fayette Floyd Franklin Fremont Greene Gundy Hamilton	59,426 37,588 60,598 50,900 82,872 41,755 54,446 65,674 41,983 64,827	96,603 53,393 98,839 79,701 110,609 67,016 78,627 100,899 88,821 104,940	52,692 34,679 64,823 42,438 58,422 25,838 45,347 50,658 41,064 45,890	47,259 21,040 54,619 32,097 40,874 20,399 29,602 40,350 36,772 30,964	30,179 14,152 36,072 17,833 23,076 10,329 19,073 20,595 19,965 17,649	24,151 10,179 27,613 13,862 16,741 8,026 12,662 16,936 16,423 12,856	5,597 14,064 14,551 29,455 27,324 1,269 10,601 17,153 10,568 16,372	8,527 4,988 19,976 11,147 9,390 1,506 11,049 7,994 17,600 8,264	9,447 6,610 12,681 8,048 10,588 6,660 9,780 9,039 9,212 9,870	10,596 7,357 12,960 9,339 12,020 8,701 11,658 10,519 11,393 12,703	313 431 309 200 298 1,964 900 336 800 617	385 551 371 285 549 2,347 1,009 392 996 712
Hancock Hardin Harrison Henry Howard Humboldt Ida Iowa Jackson Jasper	60,701 75,111 63,149 39,518 36,345 56,938 63,360 63,495 48,651 85,396	96,713 104,083 126,632 76,912 51,294 81,197 111,417 126,817 87,459 159,971	51,286 51,195 47,360 32,556 45,237 36,753 38,894 49,348 51,751 54,901	35,788 36,374 36,052 26,691 35,532 23,994 31,556 42,088 47,331 45,283	22,462 22,121 20,142 15,245 22,844 13,835 14,161 22,713 25,627 24,394	16,210 15,894 15,132 11,278 17,058 10,034 9,684 18,328 21,231 18,893	18,417 26,196 5,751 23,738 17,305 11,115 14,006 11,190 11,162 15,405	7,928 12,306 10,791 32,882 11,721 4,618 4,641 19,143 12,620 26,574	10,303 9,924 11,547 6,931 8,015 7,477 7,913 9,133 8,135 11,356	11,391 11,348 13,897 8,759 8,212 7,977 9,307 10,519 9,316 14,163	460 572 1,971 625 149 434 733 777 705	574 785 2,439 743 208 502 819 982 826 1,235
Jefferson Johnson Jones Keokuk Kossuth Lee Linn Louisa Lucas Lyon	1	67,961 178,768 104,346 148,760 169,049 46,761 114,118 71,873 45,849 118,036	27,957 49,907 59,926 36,973 80,197 30,309 62,376 26,300 22,315 58,047	23,806 40,780 49,956 33,644 49,341 24,154 45,742 19,660 21,786 34,080	13,595 24,636 26,542 18,504 33,824 16,254 30,406 10,768 12,294 20,579	9,663 19,766 21,917 15,443 23,163 11,841 22,205 7,801 10,562 15,349	22,705 16,666 10,917 24,661 33,028 31,483 15,275 7,147 19,372 42,486	27,883 21,075 12,188 33,032 10,685 36,399 12,708 9,058 27,593 8,795	6,629 9,649 8,839 9,778 17,231 6,845 11,589 5,800 5,793 10,881	7,696 11,758 10,137 11,325 18,749 7,244 13,278 6,558 6,637 11,768	511 1,161 532 1,066 778 649 695 438 648 311	704 1,337 671 1,438 1,043 802 803 489 937 272
Madison Mahaska Marion Marshall Mills Mitchell Monona Monroe Montgomery Muscatine		115,714 147,585 117,495 113,601 70,706 60,236 116,237 42,289 103,345 89,712	32,532 35,345 29,622 55,852 28,574 48,456 45,263 19,050 31,541 37,106	34,535 33,637 30,185 38,934 23,832 34,558 30,663 21,231 26,406 26,945	16,379 19,126 16,503 23,072 11,074 19,711 17,188 11,214 13,210 16,874	14,631 15,755 13,890 16,621 8,354 14,786 12,295 9,452 9,785 12,484	15,080 27,639 -26,126 28,039 2,958 24,135 8,623 12,335 5,280 7,955	32,574 42,989 37,354 15,685 5,948 10,235 3,738 22,832 8,293 7,883	7,703 8,977 8,088 10,222 6,272 8,167 9,507 4,862 6,666 6,705	9,779 10,738 10,199 11,775 7,650 8,401 11,729 5,608 7,797 8,243	644 1,266 853 564 1,301 160 1,233 791 1,131 611	958 1,471 1,084 604 1,570 298 1,509 1,130 1,348 585
O'Brien Osceola Page Palo Alto Plymouth Pocahontas Polk Pottawattamie Poweshiek Ringgold	73,321 43,914 69,455 63,765 106,858 64,696 46,049 119,087 58,797 28,814	145,761 58,256 119,721 81,052 221,083 89,294 79,958 215,193 139,376 61,562	59,284 37,994 41,635 47,268 80,274 45,891 38,845 80,633 44,804 35,297	36,051 21,592 33,548 29,773 56,115 26,864 33,136 65,667 38,734 30,825	21,521 14,333 17,262 19,091 31,672 17,362 19,684 29,672 21,057 17,548	14,687 9,983 13,345 13,451 24,675 11,562 15,079 22,451 16,857 14,673	51,557 28,879 12,094 19,259 39,023 16,770 5,779 10,804 13,153 14,439	12,167 11,330 11,607 5,447 15,638 5,425 7,058 17,372 19,450 23,643	9,805 7,270 8,604 9,668 14,591 10,001 8,045 15,418 8,366 7,401	10,740 8,191 9,871 11,317 17,070 11,850 10,048 17,579 10,999 8,557	374 273 1,553 547 899 670 1,009 2,132 746 717	453 322 1,836 663 959 682 1,274 2,831 960 1,206

TABLE 83. LIVESTOCK ON FARMS IN IOWA-Continued.

	н	ogs	All Cattle		Cows and Heifers 2 years old and over		Sheep		Horses		Mules	
	1935	1930	1935	1930	1935	1930	1935	1930	1935	1930	1935	1930
Sac Scott Shelby Sioux Story Tama Traylor Union Van Buren Wapello .	72,444 75,448 97,255 58,264 91,138 45,261 29,610 17,846	110,065 109,494 143,391 230,517 95,127 141,622 91,467 62,474 34,478 58,441	53,920 48,472 59,988 80,932 45,273 72,521 39,010 28,992 26,772 24,207	33,072 37,273 47,761 54,514 32,576 59,196 29,587 28,844 22,700 20,873	21,197 23,575 24,575 30,570 18,716 30,851 18,168 14,771 14,690 13,683	14,285 18,913 19,342 23,507 13,681 26,300 13,561 12,906 10,789 10,613	19,599 4,742 6,660 54,383 7,548 29,077 18,689 7,536 42,938 19,840	8,651 5,312 11,236 18,207 5,682 16,333 27,184 13,282 62,041 26,073	10,220 8,578 11,370 15,860 9,942 11,773 8,805 5,989 6,260 5,236	11,301 9,234 12,919 17,320 11,859 13,425 9,836 7,426 6,843 6,513	924 676 873 462 854 636 795 516 530 564	977 663- 1,283 553- 961 912- 1,221 702- 683 712
Warren Washington Wayne. Webster Winnebago Winneshiek Woodbury Worth Wright	95,426 23,909 64,327 41,207 65,201 98,767 40,298	109,763 161,387 45,665 92,292 70,008 115,500 162,861 54,523 109,246	33,366 42,016 32,403 48,188 38,151 67,566 71,260 41,701 48,981	33,908 34,065 27,976 31,620 27,043 59,034 47,917 28,931 33,928	17,616 18,081 17,377 20,688 18,752 34,469 24,622 18,561 18,538	15,455 14,006 13,417 14,806 13,840 28,810 17,124 14,561 13,528	16,453 20,894 18,559 9,420 9,787 15,629 39,058 22,643 15,511	28,323 20,446 25,924 4,114 6,164 21,375 17,494 4,370 9,965	7,824 8,821 7,124 11,656 7,929 12,479 13,553 7,085 9,970	10,148 10,587 8,030 13,356 8,017 13,077 16,315 7,614 11,802	818 945 650 753 316 306 1,532 162 521	988 1,227 1,049 811 298 325 2,077 188 713

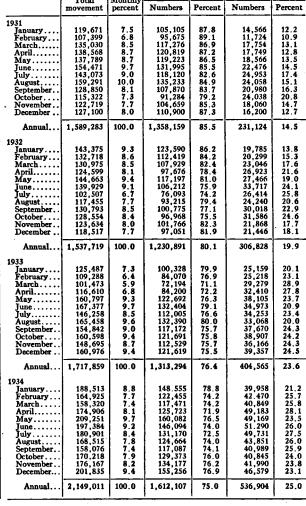
Source: U. S. Farm Census, 1935.

TABLE 34. MARKETING OF CATTLE FROM 10 WA FARMS ANNUALLY AND MONTHLY 1920-1934.

	Total	Month	Stock y	ards	Packing !	houses		Takal	Manak	Stock y	ards	Packing houses	
	Total movement	Monthly percent	Numbers	Percent	Numbers	Percent		Total movement	Monthly percent	Numbers	Percent	Numbers	Percent
January January February March April May June July August September October November December	231,743 171,384 164,280 157,157 177,954 149,440 109,007 95,913 100,735 75,801 119,099 151,090	13.6 10.1 9.6 9.2 10.5 8.8 6.4 5.6 4.4 7.0 8.9	229,234 168,252 161,429 152,872 174,546 146,270 106,288 93,509 98,919 74,115 116,425 149,245	98.9 98.2 98.3 97.3 98.1 97.9 97.5 97.5 98.2 97.8 97.8	2,509 3,132 2,851 4,285 3,408 3,170 2,719 2,404 1,816 2,674 1,845	1.1 1.8 1.7 2.7 1.9 2.1 2.5 2.5 1.8 2.2 2.2	1924 January February March April May June July August September October November December	211,713 162,348 172,968 150,677 156,379 144,842 155,185 126,862 126,819 131,550 140,523 229,878	11.1 8.5 9.1 7.9 8.2 7.6 8.1 6.6 6.6 6.9 7.4	201,915 155,409 165,140 140,872 147,453 136,917 144,802 120,092 120,107 124,269 133,862 221,996	95.4 96.4 95.5 93.5 94.3 94.5 93.3 94.6 94.7 94.5 95.3	9,798 5,939 7,828 9,805 8,926 7,925 10,383 6,770 6,712 7,281 6,661 7,882	4.6 3.6 4.5 5.7 5.5 6.7 5.4 5.5 4.7 3
Annual	1,703,603	100.0	1,671,104	98.1	32,499	1.9	Annual	1,909,744	100.0	1,813,834	95.0	95,910	5.0
January February March April May June July August September October November December	207,240 133,689 161,970 144,221 142,028 158,333 97,242 118,182 100,832 101,485 122,709 142,812	12.7 8.2 9.9 8.7 9.7 5.9 7.5 6.2 7.5 8.7	204,418 130,739 159,245 141,989 139,173 155,171 94,878 115,039 104,410 99,474 120,740 140,685	98.6 97.8 98.3 98.5 98.0 97.6 97.7 98.0 98.4 98.5	2,822 2,950 2,725 2,232 2,855 3,162 2,364 3,143 2,422 2,011 1,969 2,127	1.4 2.2 1.7 1.5 2.0 2.4 2.7 2.3 2.0 1.6	J25 January February March April May June July August September October November December	195,732 149,577 173,583 136,017 151,447 131,117 113,566 102,476 96,006 112,368 151,266 223,372	11.3 8.6 10.0 7.8 8.7 7.6 6.4 5.5 6.5 8.7	188,836 144,632 167,588 128,495 144,247 123,818 106,712 97,603 92,165 108,522 146,305 212,111	96.5 96.7 96.5 94.5 95.3 94.4 94.0 95.2 96.6 96.7	6,896 4,945 5,995 7,522 7,209 6,854 4,873 3,841 3,846 4,961 11,261	3.5 3.5 5.5 4.7 5.6 6.0 4.0 3.4 3.3 5.1
Annual	1,636,743	100.0	1,605,961	98.1	30,782	1.9	Annual	1,736,527	100.0	1,661,034	95.6	75,493	4,4
January January February March April May June July August September October October December	169,535 135,994 150,816 121,815 183,806 155,562 129,499 120,309 112,013 113,651 118,362 162,778	10.1 8.1 9.0 7.3 11.0 9.3 7.7 7.2 6.7 6.8 7.1 9.7	167,254 133,304 147,782 119,599 180,788 151,807 124,941 117,218 109,489 101,573 115,993 160,655	98.7 98.0 98.2 98.4 97.6 96.5 97.7 98.2 98.0 98.7	2,281 2,690 3,034 2,216 3,018 3,755 4,558 3,091 2,524 2,078 2,369 2,123	1.3 2.0 2.0 1.8 1.6 2.4 3.5 2.6 2.3 1.8 2.0	Jayan Jayan Jayan Jayan Jayan Juyan Jayan	197,358 153,069 163,873 136,970 164,024 178,341 151,581 139,423 139,338 126,474 151,830	10.4 8.1 8.6 7.2 8.6 9.4 8.0 7.3 7.3 6.7 8.0	189,574 147,279 158,126 128,554 152,342 167,773 141,728 129,465 129,146 115,943 142,458 185,692	96.0 96.2 96.5 93.8 92.9 94.0 93.5 92.8 92.7 91.7 93.8 94.2	7,784 5,790 5,747 8,416 11,682 10,568 9,853 9,958 10,192 10,531 9,372	4.0 3.8 3.5 6.2 7.1 6.0 6.5 7.2 7.3 8.3 6.2 5.8
Annual	1,674,140	100.0	1,640,403	98.0	33,737	2.0	Annual	1,899,405	100.0	1,788,080	94.2	111,325	5.8
January February March April May June July August October November December	188,361 147,631 131,976 177,193 174,797 160,242 161,020 138,655 125,221 144,981 130,798 198,921	10.0 7.9 7.0 9.4 9.3 8.5 8.6 7.4 6.7 7.7 6.9	181,425 140,345 124,959 168,798 164,944 149,892 149,996 129,952 119,753 136,500 123,305 191,216	96.3 95.1 94.7 95.3 94.4 93.5 93.2 93.7 95.6 94.1 94.3 96.1	6.936 7,286 7,017 8,395 9,853 10,350 11,024 8,703 5,468 8,481 7,493 7,705	3.7 4.9 5.3 4.7 5.6 6.8 6.3 4.4 5.7 3.9	1927 January January Hebruary March April May June July August September October November December	200,471 152,430 159,480 132,002 191,386 180,213 145,416 159,838 107,180 115,731 133,181 147,294	11.0 8.3 8.7 7.2 10.5 9.8 7.9 8.7 5.8 6.3 7.3 8.5	181,518 140,489 146,251 121,279 177,836 163,934 131,301 146,420 95,185 103,427 122,203 136,670	90.5 92.2 91.7 91.9 92.9 91.0 90.3 91.6 88.8 89.4 91.7 92.8	18,953 11,941 13,229 10,723 13,550 16,279 14,115 13,418 11,995 12,304 10,978 10,624	9.5 7.8 8.3 8.1 7.1 9.0 9.7 8.4 11.2 10.6 8.3 7.2

TABLE 34. MARKETING OF CATTLE FROM IOWA FARMS ANNUALLY AND MONTHLY 1920-1934—Continued.

-	T-4-1	36433-	Stock y	ards	Packing	houses		Total	Monthly	Stock y	ards
	Total movement	Monthly percent	Numbers	Percent	Numbers	Percent		movement	percent	Numbers	Perc
J928 January February March April May June July August September October November December	147,552 130,289 122,594 128,163 137,252 136,503, 122,768 90,284 94,400 91,092 96,807 138,305	10.3 9.1 8.5 9.9 9.6 9.5 8.6 6.3 6.7 9.6	134,621 117,184 111,016 114,709 123,172 121,625 109,065 77,269 83,086 86,351 84,373 127,720	91.2 89.9 90.6 89.5 89.7 89.1 88.8 85.6 88.0 94.8 87.2 92.3	12,931 13,105 11,578 13,454 14,080 14,878 13,703 13,015 11,314 4,741 12,434 10,585	8.8 10.1 9.4 10.5 10.3 10.9 11.2 14.4 12.0 12.8 7.7	1931 January February March April May June July August September October November	119,671 107,399 135,030 138,568 137,789 154,471 143,073 159,291 128,850 115,322 122,719 127,100	7.5 6.8 8.5 8.7 9.7 9.0 10.0 8.1 7.3 7.7	105, 105 95, 675 117, 276 120, 819 119, 223 131, 995 118, 120 135, 233 107, 870 91, 284 104, 659 110, 900	87 89 86 87 86 85 82 84 83 79 85
Annual	1,436,009	100.0	1,290,191	89.8	145,818	10.2	Annual	1,589,283	100.0	1,358,159	85
January February March April May June July August October November December	158,957 115,413 124,085 125,450 122,573 127,795 136,222 113,726 131,634 14,654 94,957 143,650	10.5 7.7 8.2 8.3 8.1 8.5 9.0 7.6 8.7 7.6 6.3 9.5	146,296 106,445 114,649 113,683 106,293 112,431 120,827 102,460 118,065 100,955 85,433 129,294	92.0 92.2 92.4 90.6 86.7 88.0 88.7 90.1 89.7 88.1 90.0	12,661 8,968 9,436 11,767 16,280 15,364 15,395 11,266 13,569 9,524 14,356	8.0 7.8 7.6 9.4 13.3 12.0 11.3 9.9 10.3 11.9 10.0	January January February March April May June July August September October November December	143,375 132,718 130,975 124,599 144,663 139,929 102,507 117,455 130,793 128,554 123,634 118,517	9.3 8.6 8.5 8.1 9.4 9.1 6.7 7.7 8.4 8.0	123,590 112,419 107,929 97,676 117,197 106,212 76,093 93,215 100,775 96,968 101,766 97,051	86 84 82 78 81 75 74 79 77 75 82 81
Annual	1,509,116	100.0	1,356,831	89.9	152,285	10.1	Annual	1,537,719	100.0	1,230,891	80
January February March April May June July August September October November December	125,563 110,774 117,342 116,654 133,301 146,624 136,805 122,547 148,303 108,900 102,995 159,947	8.2 7.2 7.7 7.6 8.8 9.6 8.9 8.0 9.7 7.1 6.7 10.5	112,315 98,798 101,885 100,116 118,658 129,831 120,870 104,698 129,397 94,014 87,910 138,753 1,337,245	89.4 89.2 86.8 85.8 87.7 88.5 87.3 86.3 85.4 86.8	13,248 11,976 15,457 16,538 16,643 16,793 15,935 17,849 18,906 14,886 15,085 21,194	10.6 10.8 13.2 14.2 12.3 11.5 11.6 14.5 12.7 13.7 14.6 13.2	1933 January February March April May June July August September October November December	116,610 160,797 167,377 146,258	7.3 6.4 5.9 6.8 9.3 9.7 8.5 9.6 9.4 8.7 9.4	100,328 84,070 72,194 84,200 122,692 132,404 112,005 132,390 117,172 121,691 112,529 121,619	79 76 71 72 76 79 76 80 75 75 75
Source: [	U. S. D. A. Leslie M. C	Bureau arl, Des	of Agricul Moines, Io	tural Ec	onomics, Of	fice of	1934 January February	188,513 164,925	8.8 7.7	148.555 122,455	78



Packing houses

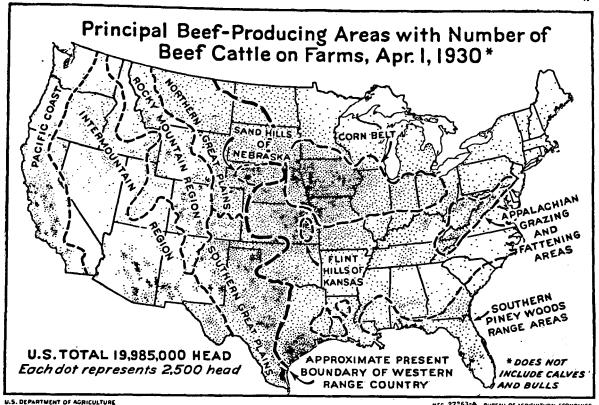
WORLD CATTLE NUMBERS 1926-30 AV 9% EU55IA BEAZIL 63 INDIA 23% ARGENTINA 5% NATIVE STATES INDIA GERMANY 3% ALL OTHERS 39% WORLD TOTAL 870,800,000 HEAD AGR. ECON. CHART MO. 8-181 IOWA STATE COLLEGE

Fig. 37. The United States ranks third in world production of cattle, averaging 9 percent for 1926-30.

TABLE 85. SHIPMENTS OF STOCKER AND FEEDER CATTLE INTO IOWA. 1926-1930

	Om	aha	Kansa	s City	Sioux	City	St.	Paul
Month	Five-year average	Percent of annual average	Five-year average	Percent of annual average	Five-year average	Percent of annual average	Five-year average	Percent of annua average
January. February. March. April May. June July September October November	10,865 8,681 7,769 5,169 3,852 3,091 3,608 12,913 33,886 45,257 24,731 12,983	6.3 54.5 3.0 2.8 2.1 7.5 19.2 14.3 17.5	4,739 4,452 4,819 4,330 3,513 3,837 4,737 9,907 13,777 14,002 6,700 4,517	6.0 5.6 6.1 5.5 4.8 6.0 12.5 17.6 8.4 5.7	9,432 7,822 8,426 5,693 5,664 6,324 7,629 13,534 27,450 38,670 21,263 11,528	5.8 4.8 5.1 3.5 3.9 4.7 8.3 16.8 23.7 13.0	2,823 2,288 2,202 1,828 1,326 1,648 2,863 5,171 7,433 9,182 5,604 2,733	6.3 5.1 4.9 4.0 2.9 3.6 6.3 11.5 16.5 20.4 12.4
Annual	172,804	100.	79,331	100.	163,434	100.	45,101	100.

Source: U. S. D. A. Bureau of Agricultural Economica, from reports of the Bureau of Animal Industry.



U.S. DEPARTMENT OF AGRICULTURE

NEG. 27263-A BUREAU OF AGRICULTURAL ECONOMICS

Fig. 38. The map shows that Iowa is a leading state in beef production. Although it did not have the largest number of cattle on farms, it ranked first in the value of pro-

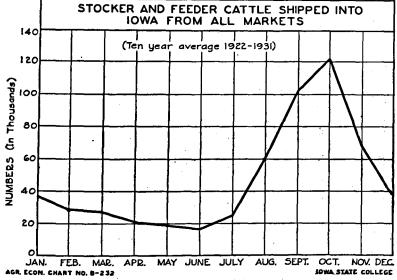


Fig. 39. The chart shows that a large percentage of the stocker and feeder cattle are shipped into Iowa in August, September, October and November.

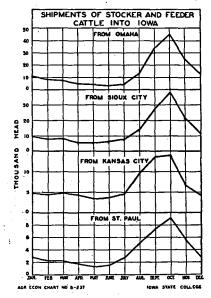


Fig. 40. Over a 5-year period from 1926-30, Omaha sent more stocker and feeder cattle into Iowa than any other market. Sioux City was a close second, with Kansas City, third. Data in table 35.

# STATE ORIGIN OF CATTLE RECEIPTS AT CHICAGO

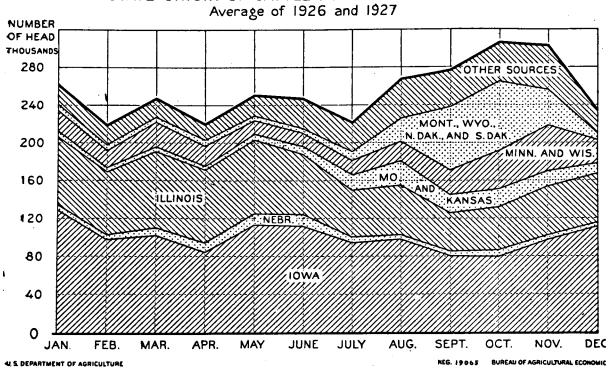


Fig. 41. The chart shows when Iowa and other states market their cattle.

TABLE 36. FIVE-YEAR AVERAGES—SHIPMENTS OF BEEF STEERS—IOWA TO CHICAGO.

		IOWA TO	CHICAGO.			
	Average all grades	Choice and prime	Good	Medium	Common	Cheap
1925-29						
January	59,280	2,333	14,128	29,452	12,241	926
February	46,109	1.981	11,875	24,518	7,282	454
March	47,110	2,140	13,265	22,838	8.304	562
April	45,601	3,936	14,202	21.874	5,171	418
Мау	58,184	5,177	20,081	27,038	5,337	552
June	58,608	9,476	26,186	19,020	3,107	819
July	49,538	11,414	22,409	12,503	2,712	500
August	51,159	8,995	27,708	11,807	2,409	240
September	45,041	6,741	23,589	10,716	3,668	329
October	41,008	6,046	20,814	9,005	4,675	467
November	46,054	4,486	17,413	16,231	7,353	571
December	54,657	3,543	17,160	22,352	10,802	711
Totals	602,350	66,268	228,830	227,354	73,260	6,548
1922-26						
january	72,799	1,670	12.124	38,286	10 776	0 1/1
February	56,853	1,483	9.120	30,789	18,556 14,206	2,163
March	58,222	2.160	11,136	30,769	12.888	1,255
April	58,263	3.657	12.731	31.187	9,439	1,367 1,249
May	72,983	4.963	20,666	35,912	9,923	1,519
June	68,258	10,186	22,437	28.534	5.704	1,319
July	60,152	9,712	22,948	21.935	4,382	1.175
August	58,200	10,312	26,357	17.866	3.052	613
September	51,625	8.035	26,005	13,369	3,473	743
October	51,490	10,262	18.965	14,809	6.377	1.077
November	56,707	5.501	15.778	23,892	10.236	1.300
December	76,639	3,988	14,457	37,252	19.017	1,925
Totals	742,191	71.929	212.724	324.502	117,253	15,783
	•		•			,
1923–27	1	i i			The state of the s	
January	70,289	2,299	1,432	36,441	15,822	1,406
February	55,981	2,135	11,615	29,455	11,951	825
March	55,641	2,208	12,755	27,891	11,784	1,003
April	56,098	3,709	14,491	28,251	8,640	1,007
May	69,459	4,844	19,886	34,183	9,373	1,172
June	68,743	9,400	25,616	28,018	4,669	1,039
July	59,536	8,852	23,825	21,847	4,152	860
August	61,087	9,535	29,797	18,109	3,179	468
September	49,937	6,368	25,169	14,069	3,762	571
October	47,866	8,195	17,379	15,144	6,198	950
November December	53,949 70,473	5,330 3,966	15,123	22,672	9,686	1,139
Totals		66,842	15,004 224,978	32,469	17,183	1,681
IULBIB	1 119,039	1 00,042	444,910	308,629	106,399	12,121

TABLE 36. FIVE-YEAR AVERAGES—SHIPMENTS OF BEEF STEERS—
10WA TO CHICAGO—Continued.

	Average all grades	Choice and prime	Good	' Medium	Common	Cheap
1924-28						
January	64.621	2.426	14,654	31,713	14.593	1.235
February	51,572	2.083	12.070	27,325	9,440	653
March	52,432	2.101	13.159	26,284	10.088	799
April	48,971	3.312	13.866	25,029	6.172	592
May	63,909	4,584	19,792	32,306	6,542	685
June	63,686	9,037	26,218	24,052	3,555	860
July	52,964	9,955	21,368	17,772	3,313	556
August	53,341	9,713	26,614	14,422	2,316	276
September	45,373	7,632	21,861	11,724	3,753	403
October	41,971	8,196	17,479	10,382	5,351	563
November	49,941	5,113	15,136	19,968	8,884	841
December	63,838	3,827	15,531	29,936	13,809	1,385
Totals	652,838	67,978	217,748	270,373	87,780	8,847
		10-Year totals	Prime and choice	Good	Medium	Common and cheap
1922-31						
January			16,001	133,454	299,115	145,183
February		470,923	13,176	99,255	251,684	106,808
March		485,014	16,743	116,810	246,264	105,197
April		501,324	31,252	134,668	254,252	81,152
May		625,284	44,646	203,506	290,468	86,664
June	••••	615,484	89,210	245,563	223,579	57,132
July	•••••	539,254	103,185	233,195	158,240	44,634
August	• • • • • • • • • • • • • • • • • • • •	539,778	95,406	269,104	139,542	35,726
September	• • • • • • • • • • • • • • • • • • • •	485,218	86,174	253,449	104,988	40,607 58,702
October	•••••	444,917	84,589	192,973	108,653 177,858	87.329
November	• • • • • • • • • • • • • • • • • • • •	477,607	50,755	161,665		146,903
December	• • • • • • • • • • • • • • • • • • • •	605,414 6,383,970	34,564	154,429 2,198,071	269,518 2.524,161	996.037
Totals	•••••	0,363,970	665,701	4,190,011	4,344,101	>>0,031

Source: U. S. D. A., Bureau of Agricultural Economics, Office of Leslie M. Carl, Des Moines, Iows.

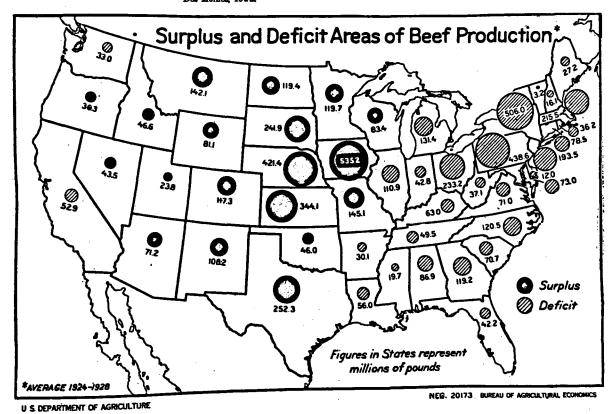


Fig. 42. The chart shows that Iowa is the leading state in the production of beef in excess of consumption. A large

percentage of Iowa's beef goes to the east where there is a deficit in production.

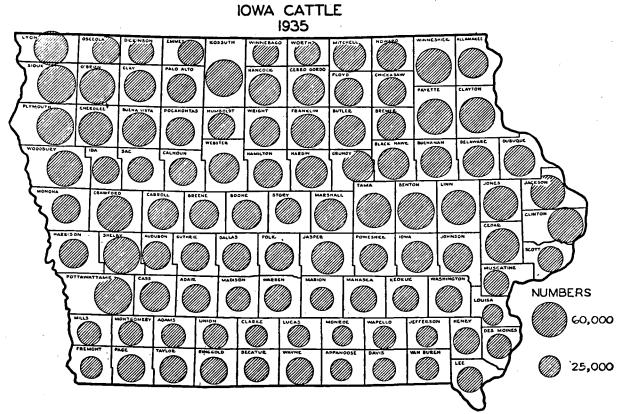


Fig. 43. The map shows the variation in cattle numbers among counties.

Data in table 33.

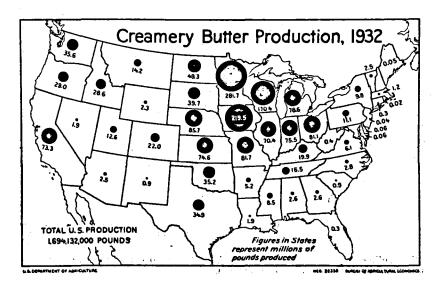


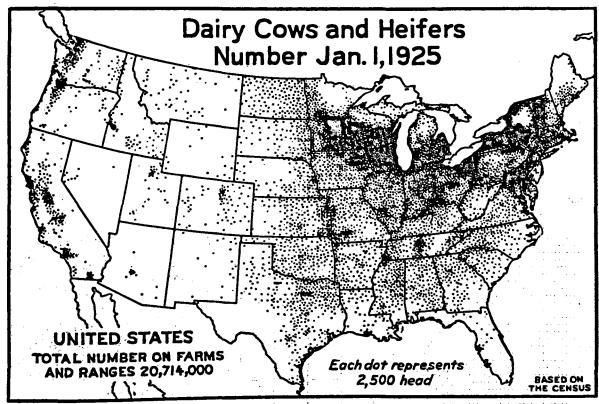
Fig. 44. The map shows that Iowa is in the center of the production of creamery butter. It ranks second only to Minnesota in production of creamery butter.

# PERCENT GROSS DAIRY INCOME IS OF GROSS FARM INCOME (1929-132 AV.)



Fig. 45. Iowa, though an important dairy state, gets only a small part of its farm income from dairy products when compared with other important dairy states. Wisconsin and

New York get about half their farm income from dairy products and sales of calves.



U.S. DEPARTMENT OF AGRICULTURE

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Fig. 46. The chart shows that the eastern half of the United States, especially the northeastern part, has the most

dairy cows and heifers on farms. The northeastern part of Iowa has a larger number of cattle than any other part,

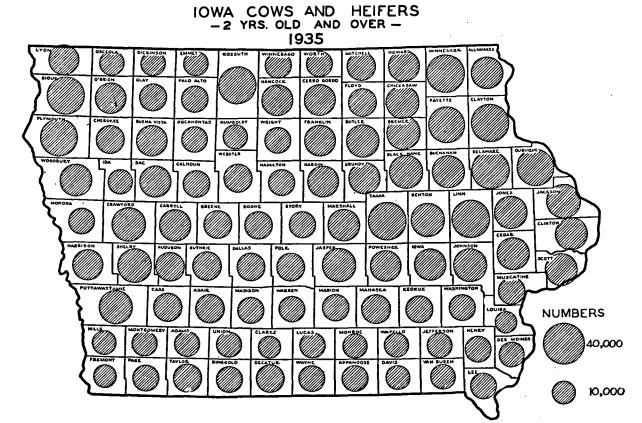
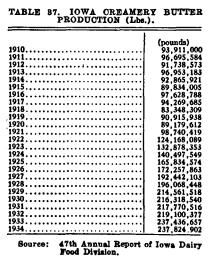


Fig. 47. The chart shows the variation among counties in the number of dairy cows on farms in Iowa.

Data in table 33.



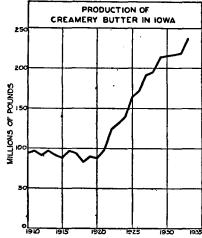


Fig. 48. Creamery butter production has increased sharply since 1920. Since that time butter prices have been relatively higher than most other Iowa products, so that farmers have found it profitable to go into dairying more intensely than before. As a result both butter and milk production have doubled in the last 14 years.

Cows kept for milk have increased in

Cows kept for milk have increased in the state by approximately half a million animals since 1900. This has of course increased the total production of dairy produce. Another factor in this increase was increased production per

cow. Data in table 37.

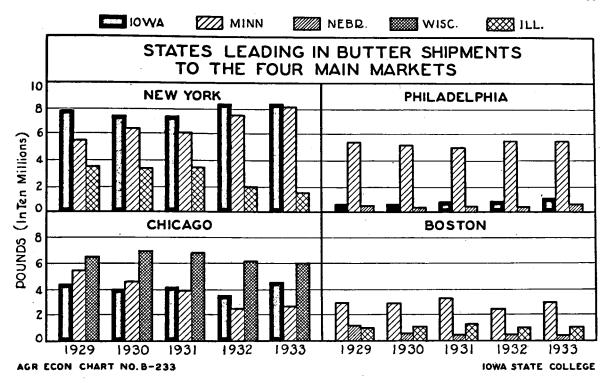


Fig. 49. Iowa ships more butter to New York than any other state. Wisconsin leads in supplying the Chicago mar-



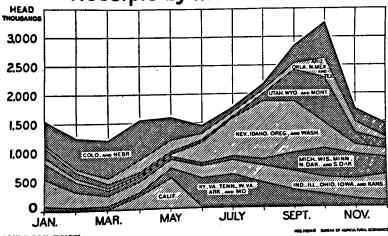


Fig. 50. The chart shows that there is considerable variation in the months when the various states market their sheep. The largest numbers of sheep are marketed in September and October.

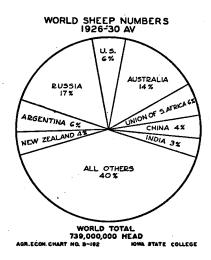


Fig. 51. The United States had 6 percent of the world sheep on the average in 1926-30.

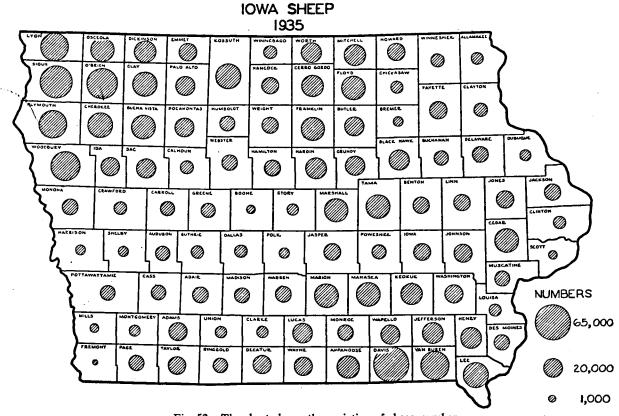


Fig. 52. The chart shows the variation of sheep numbers among counties and that the southern part of Iowa has the most sheep.

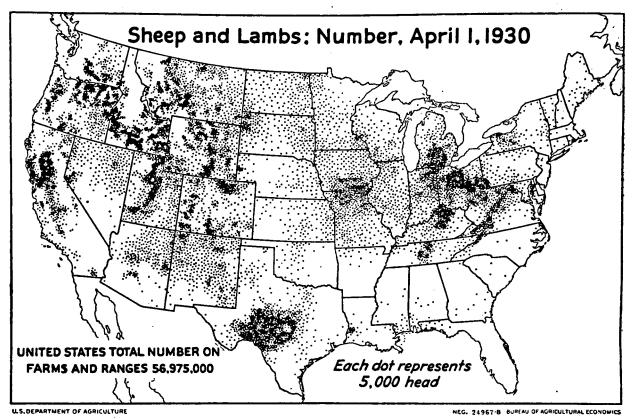
Data in table 33.

TABLE 38. MARKETING OF SHEEP FROM IOWA FARMS, ANNUALLY AND MONTHLY 1920-1933.

	Total	Monthly	Stock ya	rds	Packing	houses		T-4-1	Monthly	Stock ya	ırds	Packing	houses
	movement	percent	Numbers	Percent	Numbers	Percent		Total movement	percent	Numbers	Percent	Numbers	Percent
1920							1922						
January	163,745	17.0	163,406	99.8	339	.2	January	93,470	13.4	92,500	99.0	970	1.0
February	99,754	10.4	99,530	99.8	224	.2	February	42,866	6.1	42,352	98.8	514	1.2
March	20,452	2.1	20,401	99.8	51	2	March	15,136	2.2	14,888	98.3	248	1.7
April	15,087	1.6	14,860	98.5	227	1.5	April	13,912	2.0	13,628	98.0	284	2.0
May	18,383	1.9	17,631	95.9	752	4.1	May	17,397	2.5	16,866	96.9	531	3.1
June	37,461	3.9	36,879	98.4	582	1.6	June	46,601	6.7	45,627	i 97.9 i	974	2.1
July	49,568	5.1	48,836	98.5	732	1.5	July	58,798	8.4	57,955	98.6	843	1.4
August	51,153	5.3	50,381	98.5	772	1.5	August	70,089	10.0	68,988	98.4	1,101	1.6
September	89,166	9.2	88,480	99.2	686	.8	September.	81,835	11.7	80,202	98.0	1,633	2.0
October	93,418	9.7	92,705	99.2	713	l .š	October	78,905	111.3	78,275	99.2	630	.8
November	139,227	14.4	138,518	99.5	709	l .š	November	90,414	12.9	89,891	99,4	523	.6
December	186,560	19.4	185,734	99.5	826	.5	December	90,229	12.8	89,875	99.6	354	.8 .6 .4
Annual	963,974	100.0	957,361	99.3	6,613	.7	Annual	699,652	100.0	691,047	98.8	8,605	1.2
1921				<b>!</b> !		ł	1923					,	1
January	175,498	17.3	174,299	99.3	1,199	.7	January	80,736	11.5	80,251	99.4	485	.6
February	77,257	7.6	76,289	98.7	968	1.3	February	56,942	8.1	56.840	99.8	102	.6 .2 .3 .4
March	42,275	4.2	41,669	98.6	606	1.4	March	24,512	3.5	24,448	99.7	64	.3
April	17,479	1.7	17,002	97.3	477	2.7	April	17.682	2.5	17,609	99.6	73	.4
Мау	27,650	2.7	27,249	98.5	401	1.5	May	20.095	2.9	19,718	98.1	377	1.9
June	63,748	6.3	62,863	98.6	885	1.4	June	32,832	4.7	32,206	98.1	626	1.9
July	41,917	4.1	41,028	97.9	889	2.1	July	39.878	5.7	39.379	98.7	499	1.3
August	86,023	8.5	85,222	99.1	801	9.5	August	54,537	7.8	53,605	98.3	932	1.7
September	81,076	8.0	80,019	98.7	1,057	1.3	September	57,997	8.3	57,393	99.0	604	1,0.
October	114,387	11.3	113,436	99.2	951	š	October	65,700	9.4	64,829	98.7	871	1.3
November	155,589	15.4	155,165	99.7	424	.3	November	106,792	15.3	106,156	99.4	636	.6
December .	130,508	12.9	130,008	99.6	590	.4	December	141,772	20.3	141,407	99.7	365	.6 .3
Annual	1,013,407	100.0	1,004,249	99.1	9,158	.9	Annual	699,475	100.0	693,841	99.2	5,634	.8

	Total	Monthly	Stock y	ırds	Packing	houses		m		Stock ye	ırds	Packing !	houses
	movement	percent	Numbers	Percent	Numbers	Percent		Total movement	Monthly percent	Numbers	Percent	Numbers	Percer
1924							1930						
January	120,204	14.1	119,807	99.7	397	.3	January	121,671	10.9	117,555	96.6	4,116	3.4
rebruary	59,767	7.0	59.245	99.1 99.7	522	.9	February	95,269	8.5	89.338	93.8	5.031	6.2
March	20,131	2.4	20,073	99.7	58	.3	March	66.854	6.0	61,161	91.5	5,931 5,693	8.5
April	20,569	2.4	20,447	99.4	122	.6	April	35,050 37,051	3.1	89,338 61,161 31,728 34,869 39,023 39,580	90.5	3,322	6.2 8.5 9.5 5.9 16.5
Мау	25,103	2.9	25,091 28,784 39,406 59,214	100.0	12	1	May	37,051	3.3	34,869	94.1	1 7 192	5.9
June	29,547	3.5	28,784	97.4	763	2.6	June	46,706	4.2	39,023	83.5	7,683	16.5
July	40,147 59,942	4.7 7.0	39,406	98.1	741	1.9 1.2	July	54,627	4.9	39,580	72.5	13,04/	47.3
August	68,046		59,214	98.8	728	1.2	August	84,424	7.5	03,323	75.0	21,099	25.0
September October	110,487	7.9 12.9	67,385 109,926 117,503	99.0	661	1.0	September	77,781	6.9	62,504	80.4	15,277	19.6
November	117,816	13.8	109,920	99.5 99.7	561	.5	October	130,209	11.6	103,617	79.6	26,592	20.4
December	183,373	21.4	182,966		313	.5 .3 .2	November	151,773 217,391	13.6	134,149 201,352	88.4	26,592 17,624	20.4 11.6 7.6
			102,900	99.8	407	.2	December	217,391	19.5	201,352	92.4	16,624	7.6
Annual	855,132	100.0	849,847	99.4	5,285	.6	Annual	1,119,391	100.0	978,201	87.4	141,190	12.6
1925	ľ	•		[ :	1		1931		Í		1		ļ
January	86,021	11.6	85,818 51,749	99.8	203	٠,	January	176 114	15.2	159,881	90.8	16,233	9.2
February	51,810	7.0	51.749	99.9	61	.2 .1 .2	February	176,114 97,721	8.4	87,623	89.7	10,098	10.3
March	23,118	3.1	23.063	99.8	Š5	۶ ا	March	51,893	4.5	46,428	89.5	5,465	10.3
April	21,149	2.9	21.027	99.4	122	.6	April	35,287	3.1	30,736	87.1	4,551	12.9
April May	22.194	3.0	21,027 21,789	98.2	405	1.8	May	28,145	2.4	30,736 21,950	78.0	1 6 105	22.0
June	39,342 46,034	5.3 6.2	38,410 44,786	97.6	932	2.4	June	58,114	5.0	1 42.864	73.8	15,250 25,552 29,447 27,387 38,415	26 3
July	46,034	6.2	44,786	97.3	1,248	2.4 2.7	July	74 755	6.5	40,203	65.8	25,552	34
August	68,016	9.2	67,052	98.6	964	1.4	August	74,755 107,735	9.3	49,203 78,288	65.8 72.7	20,332	34. 27.
September	75,917	10.3	75,294	99.2	623	*.*	August September	02 112	7.9	64 724	70.2	27,327	29.
October	75.391	10.2	74,146	98.3		.8 1.7	October	92,113 127,860	11.0	64,726 89,445	70.3 70.0	38 415	20
November	103 160	13.0	102,416	99.3	1,245	1 4.4	October	121,800	1 12.0	110 022	10.0	26,413	30.
December	103,169 126,957	17.2	126,173	99.4	753 784	.7 .6	November	144,167 163,944	12.5 14.2	118,033 145,126	81.9 88.5	26,134 18,818	18. 11.
Annual	739,118	100.0	731,723	99.0	7,395	1.0		1,157,848	100.0	934,303	80.7	223,545	19.
	,05,110	200.0	,01,725	22.0	2,393	1.0	Annual	1,137,040	100.0	934,303	80.7	223,343	19.3
1926				l i			1932		1				Ì
January	111,260	12.9	110,767	99.5	493	.5	January	200,282	17.2 11.7	175,552 122,748	87.7	24,730 13,415 11,837 8,734 7,316	12.
February	64,060	7.4 4.8	63,517	99.2	543		February	136,163	11.7	122,748	90.2	13,415	9.
March	40,942	4.8	40,495	98.9	447	1.1	March	79,258 37,347	6.8	67,421	85.1	11,837	14.
April	17,368	2.0	17,227	99.2	141		April	37.347	3.2	28,613	76.6	8.734	23.4
May	26,743	3.1	26,403	98.7	340	1.3	May	31,211	2.7	23,895	76.6	7.316	23. 34.
June1	26,743 30,719	3.6	30,017	97.7	702	2.3	June	55,966	4.8	36,824	65.8	19.142	34
July	47.421	5.5	46 562	98.2	859	1.8	July	53,420	4.6	29,680	55.6	19,142 23,740	44.
August	75.369	5.5 8.7	73.962	98.1	1,407	l i o	August	69,394	6.0	41.011	59.1	28.383	40.
September	75,369 63,599	7.4	73,962 62,493 99,661	98.3	1,106	1.9 1.7	September	116,606	10.0	41,011 77,226	66.2	28,383 39,380	33.
October	100,591	11.7	99,661	99.1	930	۱۰۰٬۵	October	119,312	10.2	74,846	66.2 62.7	44 466	37.
November	119,239	13.8	118,391	99.3	848	.,,	November	125,312	11.6	106,023	79.0	44,466 28,495	21.
December	164,478	19.1	163,716	99.5	762	.9 .7 .5	December	135,418 131,171	11.2	106,923 102,739	78.3	28,432	21.
	861,789	100.0	853,211	99.0	8,578				100.0		76.2	278,070	23.8
Annual	601,769	100.0	633,211	99,0	0,310	1.0	Annual	1,165,548	100.0	887,478	70.2	210,010	23.6
927							1933			•			
January	145,553	14.6	144,464 113,296 60,497	99.2	1,089	.8	January	117,660	10.2 7.7 6.0	90,695	77.1	26,965 17,708 23,770	22.
February	114,309	11.5	113,296	99.1	1,013	.9	February	88,569	1 7.7	70,861	80.0	17,708	20.
March	61,223	6.2	60,497	98.8	726	1.2 1.5	March	68,884	6.0	45,114	65.5	23,770	34.
April	21,636	2.2	21 325	98.5	311	1.5	April	51,844	4.5	29,673	57.2	22,1/1	42,
May	24,082	2.4	23,545 37,503	97.8	537	2.2 2.7	May	66,212	5.8	48,047	72.6	18,165	27.
June	38,554	3.9	37,503	97.3	1,051	2.7	June	69,263	6.1	46,424	67.0	22,839	33.
July	48,001	4.8	46,503 76,725	96.9	1,498 2,295	3.1	July	87,959	7.6	51.073	58.1	36,886	41.
August	79,020	7.9	76,725	97.1	2,295	2.9	August	103,382	9.0	63,115 65,570	61.0	40,261	39.
September	81.363	8.2	79.694	97.9	1 669	2.1	September	110.726	9.6	65.570	59.2	45,156	40.
October	97,262	9.8	95.453	98.1	1,809	1.9	October	104.671	9.1	67.622	64.6	37,049	35.
November	146,634	14.7	95,453 146,016	99.6	618	.4	November	104,671 133,664	11.6	67,622 85,444	64.6 63.9	48,220	35. 36.
December	136,722	13.7	135,800	99.3	922	.4 .7	December	147,174	12.8	109,272	74.2	45,156 37,049 48,220 37,902	25.
Annual	994,359	100.0	980,821	98.6	13,538	1.4	Annual	1,150,008	100.0	772,910	67.2	377,098	32.
928	,	1	•				1934	'		l '	1		
January	108,023	12.6	107,126	99.2	897	.8 .3	January	163,998	11.1 7.7 6.0	116,448	71.0	47,550 38,776 27,847	29.
February	53 058	6.3	53 772	99.7	186	.3	February	113,906	7.7	75.130	66.0	38.776	34
March	53,958 25,024	2.9	53,772 24,793	99.1	231	آهُ ا	March	88,033	1 6.0	75,130 60,186	68.4	27,847	31
April	14,935	1.8	14,684	98.3	251	1.7	April	53,262	3.6	33,153	62.2	20,100	37
April	21 500		21 160	98.1	420	1.9	May	57,867	3.9	32,754	56.6	20,109 25,113	43
May	21,580	2.6	21,160 38,530	97.7	905.	2.3	June	93,680	6.4	48,911	52.2	44,769	47
June	39,435	4.6	35,330		1,673	2.0	Jule	76,967	5.2	32 220	43.2	42 720	56
July	44,576	5.2	42,903	96.2	1,0/3	3.8	July	132,653	9.0	33,238 54,568	41.1	43,729 78,085	58
August	63,933	7.5	61,866	96.8	2,067	3.2	August		7.7	24,300	40.7	10,000	
September	78,148	9.1	74,985	96.0	3,163	4.0	September	112,021	7.6	54,595	48.7	57,426	51
October	113,556	13.3 15.0	109,992	96.8	3,564 3,050	3.2	October	162,539	11.0	73,406	45.2	89,133	54
November	127,963	15.0	124,913	97.6	3,050	2.4	November	171,122	11.6	97,063	56.7	74,059	43
December	163,603	19.1	162,106	99.1	1,497	.9	December	247,613	16.8	180,892	73.0	66,721	26
Annual	854,734	100.0	836,830	98.0	17,904	2.0	Annual	1,473,661	100.0	860,344	58.4	613,317	41.
929		: 1					Source: U.	S. D. A.,	Bureau	of Agricul	tural Ec	onomics, O	ffice c
January	133,059	14.5	131,733	99.0	1,326	1.0	Le	slie M. Ca	rl, Des l	Moines, Iow	78.		
February	74 249	8.1	73,225	98.6	1,024	1.4	1			-			
March	74,249 30,565	3.3	30,221	98.9	344	1.1	1						
April	23,951	2.6	23,679	98.9	272	1.1	1						

Annual... 914,554 100.0



'Fig. 53. The map shows that the western states and Texas are the important sheep producing states. Iowa has a little above the average number of sheep on farms.

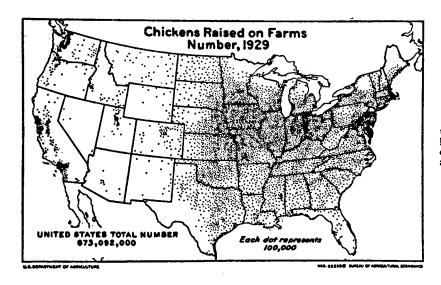


Fig. 54. The map shows that most of the chickens are raised in the eastern half of the United States. Iowa, however, has more chickens on farms than any other state.

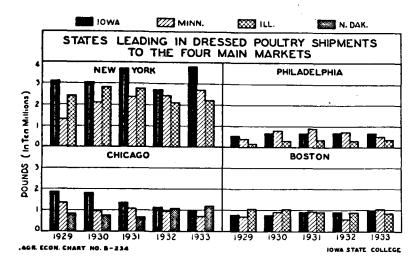
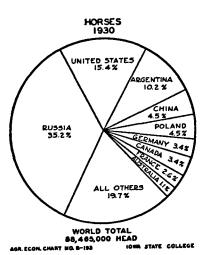


Fig. 55. As is shown in the chart, Iowa shipped more dressed poultry to New York than any other state. Iowa formerly ranked first in Chicago but has been decreasing its shipments to the latter market and now ranks second. Iowa also ships some poultry to Philadelphia and Boston.

Fig. 56. Iowa ranks first in shipment of eggs to New York, Chicago and Boston.



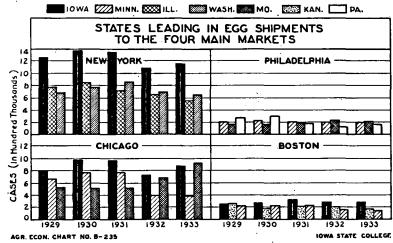


Fig. 57. Horses are widely distributed throughout the world. The United States has 15.4 percent of the world total horse population, being exceeded only by Russia with an estimated total of 35.2 percent.

# IOWA HORSES & MULES

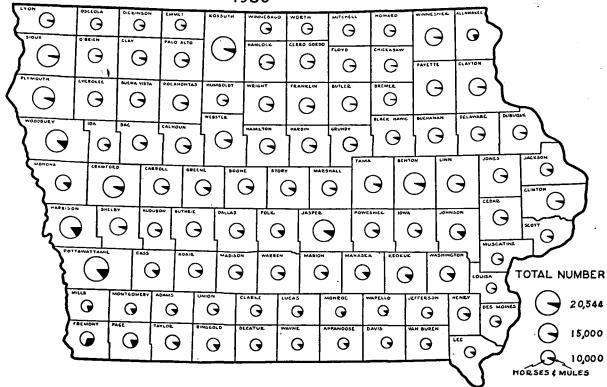


Fig. 58. The map shows the variation among counties in the number of horses and mules.

Data in table 33.

### Crops

Iowa leads the nation not only in livestock production, but also in production of feed grains. Most of Iowa's farm land is devoted to producing feed for the herds and flocks. About a third of the land in farms in the state is planted to corn alone. A relatively small proportion of the crops produced in Iowa are shipped out in their original form. Most of them go out in the form of hogs, beef, pork or lard.

The chart shown here in fig. 59 illustrates the changes in acreages of the leading crops during the past 34 years. Before 1900 wheat was one of the most important cash crops of Iowa, but since that time it has gradually diminished in acreage and has been replaced by corn and oats. Corn and oats are the leading cash crops of the state, as well as the main feeds produced on farms.

Corn brings in more income than all other Iowa crops combined. In the 5 years from 1928 to 1932 Iowa farmers produced nearly a fifth of the corn in the United States, while Illinois, the second largest producing state, harvested one-eighth of the country's crop. Seven states in the Corn Belt produced over half of the nation's corn during this 5-year period.

Second to corn as a cash crop and second in acreage is oats. Iowa also leads the United States as an oat producer with Illinois second and Minnesota third.

Iowa's third ranking crop is hay. Most of it is fed to animals on farms, and only small quantities are sold. Alfalfa production has shown consistent increases in acreage for some time, although mixed timothy and clover still is the most popular hay crop. Soybeans are rapidly becoming more popular, not only as a

hay crop, but as a source of protein supplement in the form of the harvested beans. The chinch bug menace of the last 2 years has increased soybean acreage tremendously, since this crop is immune to the bug's ravages.

Though these three crops stand head and shoulders above the others, Iowa produces a variety of other crops. Rye, barley and wheat are all fairly important and many minor crops, such as popcorn, seed crops, potatoes and sugar beets rank high in certain sections of the state. Ida and Sac counties, for instance, have large acreages in popcorn and produce a big portion of the nation's total. Iowa leads all other states in production of timothy seed. Onions, cabbages, fruits and even tobacco are grown in Iowa. The accompanying and following charts, maps and tables give statistics concerning the more important ones.

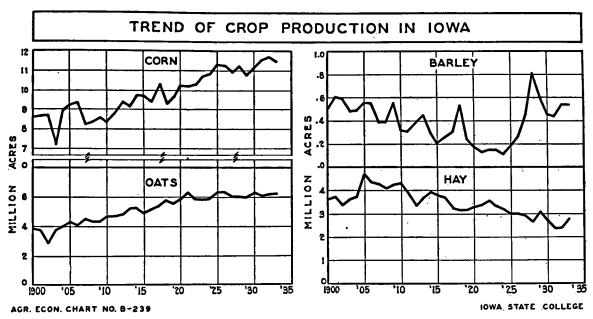


Fig. 59. The trend of corn and oat acreage has been upward since 1900. Barley acreage decreased from 1900 to

1924. Since then the trend has been upward. The trend in hay acreage has been downward since 1905.

Data in table 39.

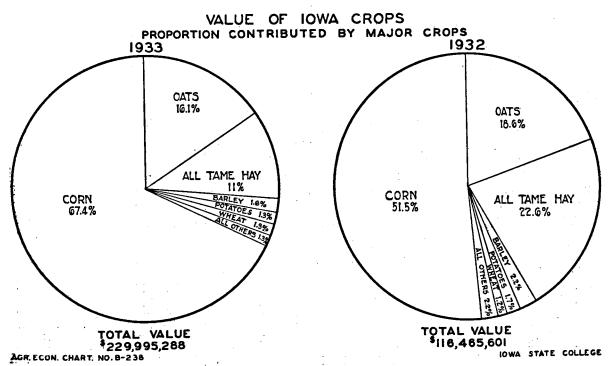


Fig. 60. Corn is the leading crop in Iowa, followed by oats and tame hay. Barley, potatoes, wheat and other crops are of minor importance. Iowa crops were worth \$229,-

995,000 in 1933. Of this, 67.4 percent was from corn, 16.1 percent from oats and 11 percent from tame hay.

Data in table 41.

	(	orn				Bar	ley			Winter Wheat				
		omitte	d)			(000 0					(000 on			<u> </u>
Year	Acres	Yield	Produc- tion	Value	Year	Acres	Yield	Produc- tion	Value	Year	Acres	Yield	Produc- tion	Value
1880	10,225 10,364 10,776 10,875 11,234 11,170 10,901 11,202	41.0 40.0 40.0 34.1 35.5 35.5 35.5 35.5 35.5 35.5 35.5 35	230, 633 239, 675 345, 055 227, 909 296, 950 230, 511 323, 853 345, 853 308, 037 334, 374 326, 661 419, 907 342, 158 397, 117 267, 904 331, 582 371, 1583 404, 474 471, 533 440, 404 474, 471, 533 440, 404 474, 612 465, 915 436, 432 304, 828 492, 648 492, 658 378, 238 492, 658 378, 238 880, 005 460, 988 429, 658 378, 238 880, 626 500, 214 199, 880	\$ 57,658 98,267 93,165 113,954 83,146 82,984 113,349 121,055 128,155 108,635 157,099 120,375 176,397 150,375 218,415 120,557 268,582 360,491 390,627 473,234 221,621 132,031 251,594 270,588 283,490 275,883 243,794 262,203 308,862 300,760 219,378 133,919 60,050 155,066 159,904	1880	200 153 502 605 594 493 566 559 397 563 325 313 389 300 265 538 176 115 115 115 115 115 115 115 115 115 11	23. 0 24. 0 25. 3 25. 9 7 25. 0 26. 7 26. 7 27. 5 20. 8 24. 9 31. 4 28. 2 28. 4 28. 2 28. 3 31. 3 31. 3 31. 3 29. 3 25. 7 28. 6 29. 3 31. 4 29. 3 29. 3 31. 4 31. 5 29. 3 31. 5 29. 3 31. 5 29. 3 31. 5 29. 3 31. 5 29. 3 31. 5 29. 3 31. 5 31.	4,600 3,664 12,654 15,381 15,381 15,568 16,630 10,630 10,630 10,630 10,630 10,630 10,630 10,630 10,630 10,630 10,630 10,630 10,630 10,630 10,630 10,630 10,630 10,630 10,630 10,630 10,630 10,630 10,630 10,630 10,630 10,630 10,630 10,630 10,630 10,630 10,630 10,630 10,630 10,630 10,630 10,630 10,630 10,630 10,630 10,630 10,630 10,630 10,630 10,630 10,630 10,630 10,630 10,630 10,630 10,630 10,630 10,630 10,630 10,630 10,630 10,630 10,630 10,630 10,630 10,630 10,630 10,630 10,630 10,630 10,630 10,630 10,630 10,630 10,630 10,630 10,630 10,630 10,630 10,630 10,630 10,630 10,630 10,630 10,630 10,630 10,630 10,630 10,630 10,630 10,630 10,630 10,630 10,630 10,630 10,630 10,630 10,630 10,630 10,630 10,630 10,630 10,630 10,630 10,630 10,630 10,630 10,630 10,630 10,630 10,630 10,630 10,630 10,630 10,630 10,630 10,630 10,630 10,630 10,630 10,630 10,630 10,630 10,630 10,630 10,630 10,630 10,630 10,630 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		Oats omitte	d)			A11 :		ı	,		Spring (000 o			
Year	Acres	Yield	Produc- tion	Value	Year	Acres*	Yield*	Produc- tion* (tons)	Value*	Year	Acres	Yield	Produc- tion	Value
1880	1,180 2,759 3,999 2,997 4,019 4,019 4,636 4,432 4,698 4,735 5,205 4,985 5,905 5,793 5,793 5,793 5,793 5,794 6,221 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 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6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004 6,004	35.0 29.0 34.8 31.0 29.5 34.1 25.5 25.5 25.5 25.5 36.0 26.0 34.7 36.2 36.2 36.2 36.2 36.2 36.2 36.2 36.2	41, 289 80, 003 1314, 8832 114, 884 92, 908 99, 913 118, 436 146, 439 142, 037 111, 190 112, 830 111, 190 112, 830 112, 830 112, 830 112, 830 120, 819 184, 501 184, 501 188, 721 188, 721 188, 721 189,	\$ 9,496 30,401 27,766 40,209 22,298 29,704 30,793 36,610 38,350 48,517 40,979 45,686 50,215 56,111 62,730 73,116 60,391 93,039 138,924 146,709 123,739 82,026 37,869 77,252 103,560 77,252 103,560 77,967 68,667 80,377 83,090 81,821 64,133 39,596 21,705 37,140 29,835	1880	3,390 3,633 3,939 3,831 3,728 3,183 3,228 3,356 3,428 3,585 3,238 3,024 3,238 3,024 3,238 3,024 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246 3,246	1. 32 1. 34 1. 64 1. 75 1. 66 1. 47 1. 62 1. 67 1. 67 1. 67 1. 17 1. 18 1. 19 1. 18 1. 19 1. 18 1. 19 1. 10 1. 10	4,762 4,980 5,643 6,408 5,591 7,791 6,004 6,290 7,048 4,663 4,970 3,976 4,763 4,763 4,970 3,808 3,522 5,188 4,655 3,692 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408 4,408	\$34, 141 \$34, 141 36, 807 36, 807 35, 891 30, 197 41, 535 42, 806 41, 535 42, 806 41, 615 41, 607 37, 261 42, 425 42, 430 46, 140 46, 141 69, 248 67, 106 69, 219 74, 958 41, 451 53, 983 39, 188 44, 451 53, 983 39, 188 44, 934 53, 15, 124 53, 15, 124 53, 15, 124 54, 125 56, 126 57, 106 57, 106 58, 126 58, 127 58, 127	1880	276 300 148 172 165 610 570 144 78 57 43 21 30 36 41 41	14.3 13.0 13.0 13.0 13.1 15.4 15.0 13.1 11.6 15.0 13.8 12.9 10.6 14.3 17.3 19.3 10.6 14.9 14.9 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3	20,280 17,429 12,681 9,481 7,080 5,156 5,604 4,968 3,809 6,774 6,238 4,138 3,783 2,112 3,178 10,527 5,241 1,528 823 824 549 308 4,549 308 4,620 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763 6,763	\$12,168 10,458 6,594 6,163 3,712 3,530 4,273 3,530 4,273 3,506 4,334 3,103 3,506 4,334 3,103 3,600 1,734 3,600 1,734 3,752 6,165 20,949 9,906 2,131 478 392 551 646 644 777 598 599 595 139 305 139 139 139 139 139 139 139 139 139 139

<sup>\*</sup> The data on crops are taken from Assessors' reports compiled by the Iowa-Weather and Orop Bureau, unless otherwise indicated.

<sup>\*</sup> Not including alfalfa hay.

TABLE 39. PRODUCTION AND VALUE OF IOWA CROPS, 1880-1984-Continued.

	Rys (000 emitted)					Soybeans (Total sown alone)					Potatoes (000 omitted)				
Year	Acres	Yield	Produc- tion	Value	Year	Acres	Yield	Produc- tion	Value	Year	Acres	Yield	Produc- tion	Value	
1880	41 101 104 54 52 123 100 632 52 30 42 37 73 72 37 48 69 87 39 38 89 31 31 31 43 44 44 41 41 41 41	14.0 16.0 15.8 17.0 17.5 17.5 17.1 13.8 14.2 12.5 14.2 12.5 16.1 17.5 12.4 14.0 14.5 14.5 14.5 14.5 14.5 14.5 14.5 14.5	574 1,609 1,622 860 883 1,923 1,511 1,284 1,093 900 869 1,322 1,179 1,025 886 1,322 1,179 1,025 886 1,322 1,179 1,025 886 1,322 1,179 1,088 900 1,389 631 631 643 643 643 643 643 643 643 643 643 643	\$ 218 821 697 413 353 846 819 667 525 549 548 334 248 807 696 683 530 116 1,273 1,847 739 455 773 555 417 739 546 319 546 319 547 549 549 549 549 549 549 549 549 549 549	1880			94 145 1421	217‡ 340 370±	1880	107 170 150 136 138 113 113 1117 119 138 138 120 120 89 100 97 766 766 769 773 550 550 550 550 550 550 550 550 550 55	95. 0 48. 9 772. 4 87. 0 53. 6 125. 9 84. 0 101. 4 83. 9 90. 0 75. 3 75. 3 94. 0 95. 2 98. 4 84. 6 85. 9 86. 6 87. 9 84. 3 111. 9 84. 3 111. 9 84. 3 101. 4 85. 9 86. 6 87. 9 88. 9 89. 9 89. 9 103. 3 104. 9 105. 9 106. 9 107. 9 108. 9 109. 9	10, 165 8, 322 10, 85 12, 052 6, 083 14, 256 6, 083 14, 256 9, 847 10, 658 12, 428 9, 987 9, 12, 428 9, 12, 428 11, 278 7, 072 11, 278 12, 428 4, 132 8, 218 4, 132 8, 218 4, 132 8, 218 4, 132 8, 218 4, 132 8, 218 8, 218	\$ 3,558 6,749 4,589 4,088 4,086 3,992 5,615 6,105 6,288 6,794 4,962 4,985 4,903 4,962 4,985 4,936 7,232 119,349 6,712 4,518 4,518 4,525 8,430 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,145 6,	

Alfalfa (000 omitted) Tons

				<del></del>
	۱.	l <b></b>	Produc-	l <b></b>
Year	Acres	Yield	tion	Value
	_			
4000	i	- 1	1	
1880		• • • • • • • • • • • • • • • • • • •		
1900		2.72		
1901	l <b>.</b>		1	
1902				
1903				
1904				. <i>.</i>
1905	10	2.48	26	\$ 107
1906				
1907		[		
1908				
1909	23	2.86	66 66	559
1910	24 30	2.72	71	
1911	47	2.27	106	
1912	80	2.37	189	
1914	132	2.08	275	3.443
1915	153	2.41	368	4.113
1916	143	2.78	396	4.641
1917	115	2.22	255	5,978
1918	120	2.03	244	5,848
1919	158	3.22	507	11,712
1920	180	3.01	544	10,458
1921	187	2.93	550	7,102
1922	192	2.61	500	7,401
1923	230	3.00	691 842	11,221 11,156
1924	276 245	3.05 2.41	590	10,331
1925 1926	272	2.30	626	12,207
1927	301	2.82	850	13,596
1928	336	2.84	954	15,743
1929	405	3.08	1.248	18,714
1930	451	2.70	1,220	18,910
1931	486	1.89	918	11,020
1932	537	2.80	1,504	12,029
1933	609	2.30	1,404	11,582
1934	663	1.76	1,163	22,101
				!

\* Data obtained from the Census. ‡ Estimated. \*\*\* Data unreliable.

Flax Seed (000 omitted)

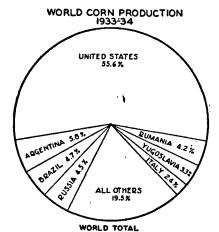
			Produc-	
Year	Acres	Yield	tion	Value
				<del></del>
1880	103	10.0	1,034	\$1,034
1890	284	10.5	2,979	3,277
1900	109	11.2	1,223	1,834
1901	104	8.8	917	1,183
1902	95	8.0	755	755
1903	41	8.7	355	277
1904	51	11.5	591	679
1905	18	9.8	174	156
1906	19 .	10.7	205	199
1907	43	10.8	462	453
1908	41	11.3	462	466
1909	17	10.0	174	224
1910	20	8.6	170	388
1911	39	4.5	179	357 312
1912	24 15	9.9	238 122	166
1913	16	7.9 7.4	115	139
1914	6	6.9	45	70
1915 1916	8	8.5	65	134
1917	8	9.9	83	237
1918	15	8.2	123	401
1919	ii	9.4	107	418
1920	ii	10.5	115	207
1921	-8	8.8	73	111
1922	6	10.4	60	. 124
1923	6	9.4	60	126
1924	7	9.9	72	162
1925	10	10.5	103	226
1926	15	11.1	162	315
1927	19	10.2	192	374
1928	19	9.7	188	372
1929	13	8.5	109	300 349
1930	20	11.4	225 171	205
1931	23	7.5	170	139
1932	19	9.1	174	270
1933	28 16	6.2 5.5	87	146
1934	10	3.3	1 81	1 140

TABLE 40.

10-Year Average Yield of Iowa's Leading Crops.
1921-80

	Iowa	United States
Corn. Oats. Barley. Wheat (winter). All tame hay.	35.2 28.6 19.8	29.6 bushels per acre 22.8 bushels per acre

Source: U. S. D. A. Yearbook of Agriculture.



WORLD TOTAL
4,234,000,000 BU.
AGR. ECOM. CHART NO. 8-248

Fig. 61. The United States has a

Fig. 61. The United States has a unique position in the world's production of corn, with a production of 55.6 percent. Argentina, the second ranking country, produced less than one-ninth as much.

TABLE 41. VALUE OF IOWA FARM CROPS, AS OF DECEMBER 1, 1932, and 1933.

	Value i	n dollars	Percentage		
	1932	1933 -	1932	1933	
Corn	\$ 60,050,089	\$155,066,475	Corn51.5 percent	67.4	
Oats	21,704,594	37,140,100	Oats18.6 percent	16.1	
Tame hay	26,274,664	25,238,469	All tame hay 22.6 percent	11.0	
Barley	2,554,177	3,648,191	Barley 2.2 percent	1.6	
Potatoes	1,959,665	2,888,900	Potatoes 1.7 percent	1.3	
Wheat	1,351,055	2,922,409	Wheat 1.2 percent	1.3	
Wild hay	934,974	804,130	Rye, wild hay,		
Timothy seed	712,021	807,798	apples, soybeans,		
Apples		432,044	and timothy	ı	
Soybeans		807,798	seed 2.2 percent	1.3	
Rye	122,266	238,974	•		
Total	\$116,465,601	\$229,995,288	100.0 percent	100.0	

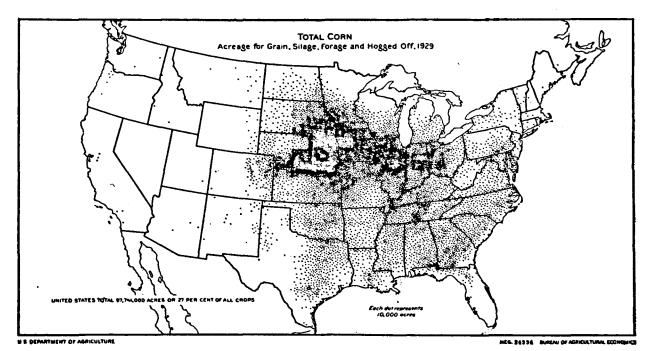


Fig. 62. The map shows that Iowa is in the center of the corn producing area.

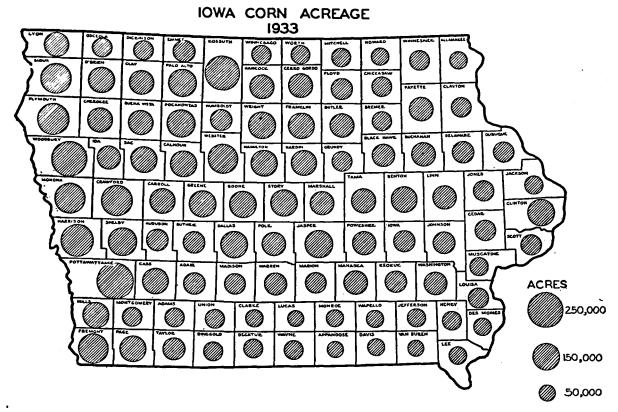


Fig. 63. The above map shows Iowa's corn acreage in 1933. Every county in the state is a heavy producer. Acre-

age in corn is more concentrated in the north central section than in the rest of the state.

Data in table 42.

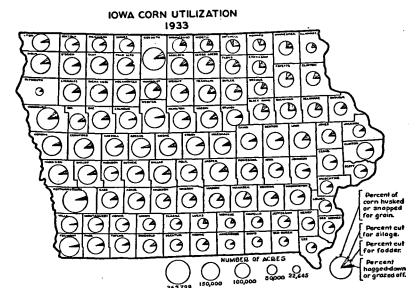


Fig. 64. In keeping with the livestock program of the state, most of the corn crop is husked or snapped for grain. Usually over 90 percent of the grain is harvested in this manner. This does not mean that 90 percent of the crop is sold as grain. On the contrary, most of it is fed to livestock and marketed indirectly in this manner. The balance of the crop is cut for silage or fodder or hogged-down.

The amount of corn husked for grain varies over the state according to the livestock set-up. In the dairy section more of the corn is utilized as fodder or silage, and a correspondingly smaller amount is husked.

Data in table 42.

# AGRICULTURAL ECONOMIC FACTS

TABLE 42. IOWA CORN PRODUCTION 1982-83.

	<u> </u>			932	··········			<del></del>	····		933			
			¦		Utilizatio	n percent			<del></del>	<del>                                     </del>		Utilizatio	n percent	
County	Acres	Bushels per acre	Production	Husked	Cut for silage	Cut for fodder	Hogged- down or grained	Acres	Bushels per acre	Production	Husked	Cut for silage	Cut for fodder	Hogged- down or grained
Buena Vista Cherokee Clay Dickinson Emmet Lyon O'Brien Osceola Palo Alto Plymouth	144,184 136,957 85,738 93,273 143,074 142,776	36.8 35.4 41.7 39.5	6,447,871 5,363,645 5,491,976 3,343,782 3,432,446 5,064,820 5,953,759 3,847,576 5,157,546 6,692,722	91 89 93 94 93	2 2 2 2 2 1 1 1 2 2	3 2 4 4 4 4 3 3	3 5 3 5 2 2 2 2 4	146,847 142,507 137,189 86,610 97,187 141,322 138,340 95,450 138,545 221,645	45.2 46.6 44.0	6,769,647 6,469,818 6,050,035 3,914,772 4,528,914 6,218,168 6,280,636 4,276,160 6,082,126 8,178,700	93 91 92 92 92 94 94 94 94 92	2 2 2 2 2 2 1 1 1 2 3	2 3 4 4 3 3 3 4 3	3 4 3 2 2 2 2 2 2 2 2 2 3
Pocahontas. Sioux Butler Cerro Gordo Floyd Franklin Hancock Humboldt Kossuth Mitchell	124,797 125,161 106,250 147,374	40.8 36.1 40.4 40.0 39.5 43.6 37.9 43.8 40.3	6,313,596 7,024,482 5,041,799 5,006,440 4,196,875 6,425,506 4,992,112 4,945,458 9,563,351 3,321,600	91 84 82 81 82 87 93	1 3 4 6 6 5 4 2 3	2 4 9 9 11 9 5 3 3	2 3 3 2 4 4 2 2 3	155,026 195,312 123,101 123,928 103,188 142,821 135,772 113,538 240,039 83,503	48.1 45.6 40.1 43.0 43.2 46.6 48.3 48.9 44.4	7,456,751 8,906,227 4,936,350 5,328,904 4,457,722 6,655,459 6,557,788 5,552,008 10,657,732 4,401,545	95 91 86 84 84 84 88 92 91 70	1 3 4 5 5 4 4 3 3	2 4 7 9 8 5 3 4 18	2 2 3 2 2 4 3 2 2 2 2 2 2 2 2 2 2 2 2 2
Winnebago Worth Wright Allamakee Black Hawk Bremer Buchanan Chickasaw Clayton Delaware	85,936 73,885 151,658 48,384 117,871 77,470 119,926 81,772 88,967 104,721	42.1 38.9 44.2 47.1 45.7 43.8 40.1 38.3 47.2	3,617,906 2,874,126 6,703,284 2,278,886 5,386,705 3,393,186 4,809,033 3,131,868 4,199,242 4,722,917	77 90 84	67 28 68 38 97	4 11 5 5 8 8 19 17 2	4 5 3 3 2 2 2 4 4	86,730 73,626 151,565 50,856 114,710 77,454 114,881 84,325 91,285 104,162	44.3 47.0 50.1 40.2 42.3 43.9 41.0 41.3 42.4	3,842,139 3,460,422 7,593,406 2,044,411 4,852,233 3,400,231 4,710,121 3,482,622 3,870,484 4,593,544	86 83 92 84 83 83 77 78 84 84	6 6 1 10 7 8 3 7 10	4 8 5 3 7 7 17 13 3 8	4 3 2 3 3 2 3 2 3 3 2 3 3
Dubuque Fayette Howard Winneshiek Audubon Clahoun Caroll Carroll Crawford Greene Guthrie	78,442 111,399 67,996 90,337 103,427 149,833 143,309 168,737 160,675 127,708	40.5 42.9 36.3 46.2 45.2 45.3 41.1 41.7 44.2	3,176,901 4,779,017 2,468,255 4,173,569 4,674,900 6,787,435 5,890,000 7,036,333 7,101,835 5,491,444	85 77 63 74 95 97 95 94 93	5 8 10 9 1 0 1	8 12 24 11 1 1 2 1 5 3	2 3 6 3 2 2 5 2 2	78,913 112,712 68,274 90,106 102,648 150,851 144,959 168,528 159,353	46.0 38.4 42.6 39.2 44.4 50.0 48.2 28.4 50.6 42.1	3,629,998 4,328,141 2,908,472 3,532,155 4,557,571 7,542,550 6,987,024 4,786,195 8,063,262 5,215,053	89 81 73 78 95 97 94 89 95	5 9 8 10 1 1 1 1 0	4 8 17 8 2 1 3 5 4	2 2 2 4 2 1 2 5 1 2
Harrison Ida. Monona. Sac Sac Shelby Woodbury. Boone. Dallaa Grundy Hamilton	195,116 114,657 179,413 146,208 155,347 235,299 144,920 151,379 117,276 151,102	40.9 38.5 40.3 42.3 48.3 37.0 44.8 44.4 48.5	7,980,244 4,114,294 7,230,344 6,184,598 7,503,260 8,706,063 6,492,416 6,721,228 5,687,886 6,361,394	97 93 96 93 96 94 93 90 92	0 1 0 1 1 1 2	1 1 3 1 1 4 6 4	2 5 3 3 4 2 3 2 3	195,306 117,110 184,529 150,316 155,510 238,000 141,336 145,326 113,693 148,950	32.8 36.1 35.3 46.0 41.8 35.0 50.5 48.6 47.9 52.2	6,406,037 4,227,671 6,513,874 6,914,536 6,500,318 8,330,000 7,137,468 7,062,844 5,445,895 7,775,190	94 90 94 93 94 89 94 91 94	1 0 1 3 1 1 2	3 6 3 3 3 5 4 6 2 4	2 3 3 3 2 3 1 2 2 2 2 2
Hardin Jasper Marshall Polk Poweshiek Story Tama Webster Benton	142,574 165,516 131,761 123,287 126,105 159,356 141,517 172,195 156,727 113,910	44.8 47.1 47.8 44.8 47.4 46.2 47.5 45.0 48.4 55.4	6,387,315 7,795,804 6,298,176 5,523,258 5,977,377 7,362,247 6,722,058 7,748,775 7,585,587 6,310,614	89 92 92 94 94 94 96 92 93	2 1 2 1 1 2 1 2 1 2 1	5533432133	42323222333	138,940 154,207 124,808 117,052 116,796 153,332 135,747 172,984 147,197	46.6 41.5 48.8 48.0 39.4 50.8 47.6 49.4 46.7 53.9	6,474,604 6,399,590 6,090,630 5,618,496 4,601,762 7,789,266 6,461,557 8,545,410 6,874,100 5,889,976	90 93 93 90 94 94 97 93	2 1 2 2 2 2 2 1 2 1	5 7 2 4 5 3 2 1 2	32313122133
Clinton Jowa Jackson Johnson Jones Linn Muscatine Scott Adair Adams	139,417 106,601 73,074 111,197 94,104 135,345 79,295 83,842 123,975 91,145	45.3 49.7	7,082,384 5,298,070 3,310,252 5,526,491 4,714,610 6,239,404 3,877,526 4,711,920 5,330,925 3,682,258	88 93 84	2231542211	3 2 6 3 8 10 4 2 3	24533332245	137,236 102,601 72,187 108,460 89,023 125,967 75,476 82,500 119,216 82,584	50.2 42.9 46.1 48.1 48.9 44.3 46.4 54.3 43.0 46.2	6,889,247 4,401,583 3,327,821 5,216,926 4,353,225 5,580,338 3,502,086 4,479,750 5,126,288 3,815,381	87 87 92 94	1 2 3 1 5 3 2 2 2 1 0	2 3 1 6 8 4 1 3 3	2 3 2 3 2 2 2 2 3 4 3
Cass Fremont. Mills Montgomery Page. Pottawattamie Taylor Appanoose. Clarke Decatur	131,739 163,554 126,684 112,228 137,837 259,501 111,366 50,200 63,463 68,474	46.4 44.4 38.5 32.9 34.0	5,941,429 7,163,665 5,434,744 5,263,493 6,395,637 11,521,844 4,287,591 1,651,580 2,157,742 1,937,814	94 96 94 93 93	100000000000000000000000000000000000000	2 0 1 1 2 1 3 4 5 8	4 2 3 4 3 3 3 2 2	130,557 165,649 127,721 108,495 132,850 265,799 104,268 48,340 61,629 68,355	45.2 46.3 45.5 45.6 40.7 24.5 33.7	5,783,675 6,841,304 5,772,989 5,023,318 6,044,675 12,120,434 4,243,708 1,184,330 2,076,897 2,173,689	92	1 0 0 0 0 1 0	3 0 1 1 1 2 4 6	4 2 3 2 3 2 3 4 1

TABLE 42. IOWA CORN PRODUCTION 1932-33-Continued.

1932					1933									
		i		Utilization percent					Utilization percent					
County	Acres	Bushels per acre	Production	Husked	Cut for silage	Cut for fodder	Hogged- down or grained	Acres	Bushels per acre	Production	Husked	Cut for silage	Cut for fodder	Hogged- down or grained
Lucas		44.4	1,939,393 4,683,845	91	2 1	6 5	4 3	54,995 100,209		1,413,372 4,509,405	90	3	12 6	4 3
Marion	107,295 50,561 88,770	35.2 32.5	4,678,062 1,779,747 2,885,025	91 89	1 1 1	3 6 7	2 2 3	103,210 49,956 82,445	24.2 34.8	3,705,239 1,208,935 2,869,086	83 92	2 2 0	12 6	3 2
Union	76,159 103,510 75,172 51,795	41.9 30.3	3,053,976 4,337,069 2,277,712	91 93	1 2 0	3 4	3 4 3	69,236 97,899 71,242	42.8 20.8	2,935,606 4,190,077 1,481,834	89 90	1 2 1	6	3 3
Des Moines	71,697 76,769	48.8	1,657,440 3,498,814 3,800,066	94	0	2	3	50,127 67,419	40.3	1,463,708 2,716,986	92	1	3	4
Jefferson Keokuk Lee	69,406 110,714 59,265	40.9 45.3	2,838,705 5,015,344 2,293,556	93 93	0 1 1	3 4 3	3 2 3	72,929 67,029 104,826	39.2 40.0	3,318,270 2,627,537 4,193,040	91 91	1 1 3	5 5	3 3
Louisa Mahaska Van Buren	74,580 120,184 48,268	48.0 44.3	3,579,840 5,324,151		1 1	3 5	2 4	55,950 70,132 114,159	41.5 35.5	1,947,060 2,910,478 4,052,644	92 86	2 1	4 9	2 4
Wapello Washington	62,433 111,958	39.3	1,708,687 2,453,617 5,765,837	91 93	1 2 1	3 2	4 4	48,234 60,611 105,549	37.1	1,630,309 2,248,668 5,055,797	90	2 1	4 2	3
Total	11,720,280	42.7	500,417,407	90.7	2.1	4.2	3.0	11,527,166	43.6 5	00,214,435	90.9	2.2	4.4	2.5

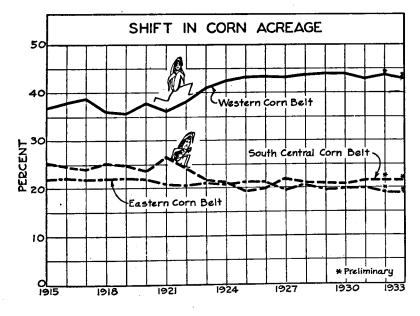


Fig. 65. The chart shows that there has been a shift in the corn acreage from the south central and eastern Corn Belt to the western Corn Belt.

TABLE 43. IOWA OATS.									
<u></u>				1933					
Districts and counties	Acres	Bus. per acre	Total bushels	Acres	Bus. per acre	Total bushels			
Northwest Buena Vista Cherokee	63.235	37.1 36.8	3,488,909 2,327,647 3,173,664	97,628 69,146	18.6 21.4	1,815,520 1,482,618			
Clay	52,320	29.9 31.5		97,628 69,146 85,876 53,511 67,291 95,687 81,253	14.0 16.6 19.9	1,482,618 1,202,096 886,608 1,336,882			
LyonO'BrienOsceolaPalo Alto	60,754 100,492 80,202 69,230 101,952 92,695 113,897 117,293	40.6 39.9 39.3 34.8	1,814,393 1,911,419 4,078,178 3,202,032 2,718,336 3,546,003 3,060,995 4,180,767 4,700,041	95,687 81,253 67,676 105,496	24.1 23.3 29.1 14.6	1,336,882 2,309,451 1,890,502 1,966,641 1,538,496			
Plymouth Pocahontas Sioux	92,695 113,897 117,293	32.9 36.7 40.1	3,060,995 4,180,767 4,700,041	67,676 105,496 99,484 118,449 114,736	17.4 19.6 20.3	1,538,496 1,735,881 2,318,527 2,326,960			
For district		37.0	38,202,384		19.7	20,810,182			
North Central Butler Cerro Gordo Floyd Franklin	76,046 82,110 75,325 84,297 92,612	31.5 35.9 36.1 37.5	2,392,888 2,945,267 2,721,445 3,157,325	83,666 87,887 81,080 90,476	26.8 26.8 25.6 29.7	2,238,992 2,352,225 2,078,277 2,687,311			
Hancock	92,612 76,476 184,149 74,470	37.5 32.3 38.8 35.9 37.7	3,157,325 2,989,442 2,964,825 6,606,178 2,804,886	90,476 101,141 81,754 189,972 78,239 65,202 67,905	29.7 25.2 21.2 18.9 23.7	2,546,427 1,729,304 3,584,090 1,857,525 1,461,992			
Wright	76,476 184,149 74,470 61,110 61,734 96,617	35.9 37.7 37.4 32.6 37.1	2,804,886 2,286,025 2,011,246 3,580,265	65,202 67,905 104,573	22.4 29.1 28.1	1,461,992 1,976,391 2,935,142			
For district Northeast	964,946	35.7	34,459,792	1,031,895	24.7	25,447,676			
Allamakee Black Hawk Bremer Buchanan	45,452 62,864 56,135 65,450	36.6 36.9 37.1 36.1	1,662,234 2,318,133 2,085,232 2,359,647 2,102,624	42,779 67,499 59,381 70,516 68,685	25.6 31.3 31.8 30.4	1,093,440 2,112,138 1,888,761 2,141,284			
ChickasawClaytonDelawareDubuque	65,043 79,577 64,985 57,326 83,122	32.3 42.4 40.5 38.2	2,102,624 3,370,584 2,632,073 2,188,755 3,107,260	68,685 79,120 67,894 59,332	30.4 21.3 27.3 31.3 30.0	1,462,620 2,157,559 2,128,318 1,778,387			
Fayette Howard Winneshiek	83,122 66,161 80,697	37.4 37.3 34.0	3,107,260 2,466,614 2,739,983	86,823 69,972 77,989	27.7 20.2 18.6	2,403,942 1,413,276 1,452,614			
For district	726,812	37.2	27,033,139	749,990	26.7	20,032,339			
West Central Audubon Calhoun Carroll Crawford	52,558 116,842 77,416 79,858	29.0 39.1 32.1 30.4	1,525,435 4,565,401 2,482,762 2,426,218	49,694 120,016 78,237	10.1 20.8 15.4 7.7 25.9	501,229 2,497,386 1,203,963 480,379			
Greene	90,539 59,921 46,285 50 147	40.1 30.9 28.7 32.6	1,853,915 1,326,976	120,016 78,237 62,699 95,253 59,903 27,704 52,923	25.9 12.9 8.7 11.4	2,464,967 774,251 239,648 604,050			
Monona Sac Shelby Woodbury	42,266 75,299 74,423 74,335	32.9 30.8 30.2 31.0	1,389,752 2,320,932 2,251,076 2,301,670	39,409 78,338 64,811 74,002	17.1 16.9 9.1 13.1	673,184 1,327,445 589,158 972,961			
For district		33.0	27,705,507	802,989	15.4	12,328,621			
Central Boone Dallas	87,618 71,963	38.0 39.8 35.6	3,333,364 2,863,211 2,560,854	90,516 76,104 75,845	29.3 22.3	2,655,981 1,700,512 2,523,837			
Grundy Hamilton Hardin Jasper Marshall	71,945 105,546 78,099 70,216 64,837	33.3 33.6 36.7	2,560,854 3,518,337 2,621,636 2,580,116 2,220,347		33.3 30.6 29.8	3,401,354 2,523,854 2,019,813			
Poweshiek Story	64,837 54,228 58,361 90,315 76,283 136,541	34.2 36.2 36.3	2,220,347 1,962,880 2,121,344 3,200,986 2,701,329	84,675 75,936 67,722 58,023 62,341 93,870	30.6 22.7 27.4 29.8	2,070,111 1,317,486 1,707,973 2,794,447 2,442,771 3,592,363			
Tama	76,283 136,541	35.4 39.8	3,430,007	141,099	31.1 25.5				
For district	965,952	36.4	35,115,071	1,015,770	28.3	28,750,502			

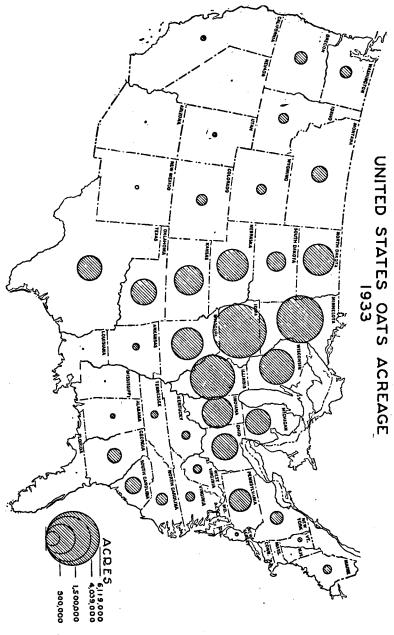


Fig. 66. Iow is in the center of oat production in the United States and ranks first in its production. Illinois, Minnesota and Wisconsin are other important states.

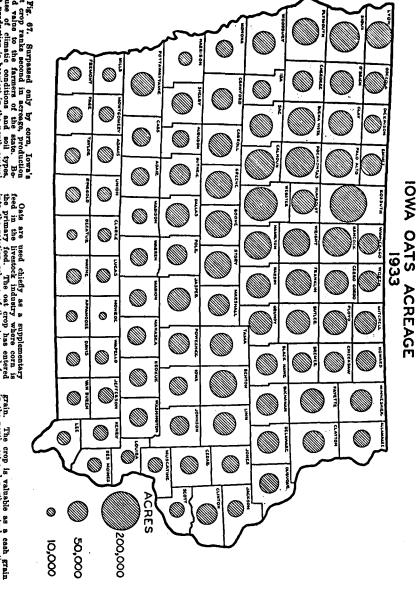
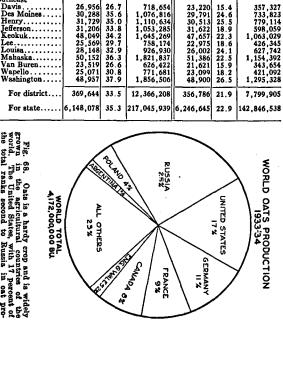


Fig. 67. Surpassed only by corn, Iowa's ost crop ranks second in acreage, production and value to the farmers of the state. Because of climatic conditions and soil types, ost production is heaviest in the north central and northwest sections of the state.

Oats are to feed in the lethe primary into the rotat many years h used chiefly as a supplementary bivestock industry where corn is y feed. The oat crop has entered tation scheme of the state and for has been Iowa's most reliable small

grain. in the : Data The crop northwest a a in table 41 valuable as a l north central



. 68. Oats is a hardy crop and is widely in the agricultural countries of the The United States, with 17 percent of tall ranks second to Russis in oat protal.

East Central Benton......

Clinton..... Iowa.....

Jackson..... ohnson.....

ones...... Linn..... Muscatine.... Scott.....

For district...

Adair.....

Adams.....

Cass..... Fremont.....

Mills.....

Montgomery . . .

Page..... Pottawattamie..

Taylor....

South Central

For district...

Appanoose.....

Decatur.....

Lucas.....

Madison.....

Marion.....

Monroe.....

Ringgold.... Union

Warren..... Wayne.....

For district...

Southeast

Southwest

89,047 38.4 49,924 41.6 58,048 39.2 46,851 35.8

40,764 35.0 49,902 35.9 46,166 41.6 67,616 38.4 29,931 37.3 40,171 44.5

518,420 38.7

32,519 31.6 31,298 32.7 75,452 28.0 40,780 32.2

360,192 30.2

24,644 32,234 30,380 27,428

31.7 33.3 28.8

25.6 28.2

27.5 24.4 30.4 36.9 35.0 27.6 27.6 31.8 33.0

46,362 35.0 20,495 27.6 38,149 27.6 30,213 31.8 38,952 33.0 40,074 26.6

368,916 30.3

49.923

35,280 52,990 18,338 23,612 32,519

3,416,180 2,076,511 2,275,527 1,677,970

1,677,970 1,427,101 1,793,421 1,921,972 2,595,543 1,115,755 1,788,336

20,088,316

1,583,562 1,173,175 1,524,822 468,767 665,814 1,027,448 1,023,833 2,109,662 1,311,788

10,888,871

697,288

884,963 742,780 833,034

1.475.800

1,475,800 1,621,438 565,345 1,052,731 961,980 1,284,151 1,067,141

11,186,651

92,819 53,719 61,019 51,032 943,868 26,65 55,511 30,4 47,635 32,9 71,088 33,2 29,927 38,991 34,2

544,609 32.3

52,278 13.7 33,358 17.5 53,989 14.1 21,340 18.0 26,642 16.1 34,629 17.3

33,692 20.9 72,627 12.6 37,623 14.9

366,178 15.4

19,864 13.0 27,132 9.8 17,744 10.0 22,174 10.9 37,335 13.8

37,335 13.8 45,944 21.9 16,459 10.9 31,810 9.7 28,488 14.5 40,778 16.0 34,467 11.4

322,195 13.7

3,256,649 1,981,824 1,897,481 1,495,352 1,164,961

1,685,238 1,567,418 2,358,292 868,748

1,334,644

17,610,607

716,848 584,648 763,195

429,589 600,573

703,092 914,351 560,067

5,656,770

258,227

265,189 177,418 241,724

514,916

,008,210 178,801 308,906

413,001 651,174 392,370

4,409,936

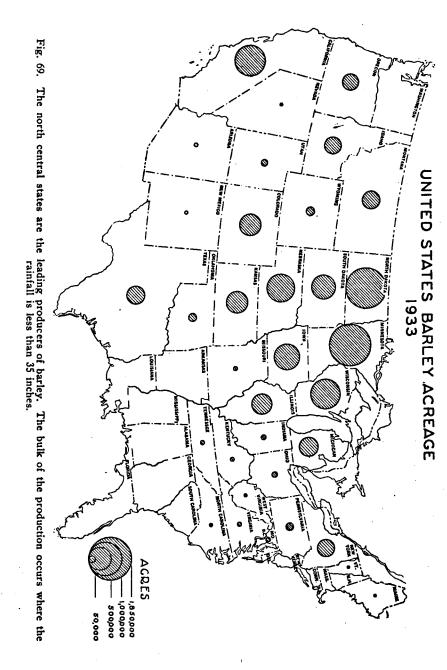
AGRICULTURAL

ECONOMIC

FACTS

TABLE 44. IOWA BARLEY

	1932			1933			
Districts and counties	Acres	Bushels per acre	Total bushels	Acres	Bushels per acre	Total bushels	
Northwest Buena Vista Cherokee. Clay Dickinson. Emmett Lyon. O'Brien. Osceola. Palo Alto. Plymouth. Pocahonias. Sioux.	8,700 24,916 15,066 16,870 11,856 17,459 25,018 12,948 5,717 32,201 2,723 23,871	23.3 25.5 25.1 22.5 18.4 30.7 28.3 27.7 20.7 24.5 21.5 29.6	202,592 634,301 378,005 380,003 217,903 535,830 706,773 358,428 118,619 788,137 58,642 707,400	7,668 24,627 15,799 17,585 11,152 22,890 27,842 16,047 5,600 36,481 2,556 28,430	14.2 15.9 12.6 12.9 13.9 15.1 17.4 22.3 11.2 13.2 14.6 14.2	108,892 302,671 199,322 226,928 154,964 345,442 484,053 357,872 62,458 481,531 37,314 403,364	
For district		24.0	5,086,633	216,677	15.0	3,254,811	
North Central Butler Cerro Gordo Floyd Franklin Hancock Humboldt Kossuth Mitchell Winnebago Worth Wright	2,359 5,476 3,956 6,108 4,245 4,409 5,821 5,059 5,064 2,139 4,847	20.1 24.7 22.5 23.1 19.8 24.7 22.6 26.5 25.4 24.4 20.6	47,441 135,235; 88,861 140,828 83,959; 108,751 131,587 134,145 128,557 52,119	2,268 4,854 3,746 5,128 3,995 3,196 5,182 3,264 3,832 2,908 4,282	19.7 21.3 18.2 22.4 21.2 15.3 13.5 19.4 16.9 23.0 21.9	44,609 103,178 68,010 114,648 84,637 48,744 69,909 63,215 64,692 66,912 93,973	
For district	49,483	23.3	1,151,295	42,655	19.3	822,527	
Northeast Allamakee Black Hawk Bremer Buchanan Chickasaw Clayton Delaware Dubuque Fayette Howard	8,324 3,758 1,018 1,144 2,670 6,639 2,622 3,905 4,151 4,348 11,962	30.3 22.4 23.1 23.1 21.1 31.4 33.2 27.7 26.0 25.0 26.3	252,572 84,162 23,562 26,371 56,251 208,546 87,032 108,105 108,042 108,799 314,598	3,036	19.8 24.0 23.1 18.7 15.4 20.0 24.9 19.7 19.7 16.6 15.9	146,341 73,000 16,981 19,258 32,834 137,532 63,908 79,594 77,864 62,580 155,372	
For district	50,541	27.3	1,378,040		19.1	865,264	
West Central Audubon. Calhoun Carroll Crawford Greene Guthrie Harrison Ida Monona Sac Shelby Woodbury	4,369 1,181 6,317 12,360 1,291 4,138 2,710 14,959 5,314 14,946 6,292 9,812	19.6 19.8 21.3 20.2 22.9 17.9 18.7 18.8 21.4 21.4 22.6	85,532 23,392 134,569 249,103 29,575 74,019 50,762 280,534 112,491 260,266 134,369 221,855	4,395 1,718 6,915 7,800 1,212 3,960 2,721 13,265 7,336 13,056 5,602 12,192	8 8 14.7 12.6 4.4 19.5 9.1 9.3 7.2 15.6 11.7 9.1 11.8	38,539 25,296 87,428 34,366 23,676 35,977 25,386 95,986 114,231 153,011 51,150 143,506	
For district	83,689	19.8	1,656,467	80,172	10.3	828,552	
Central Boone Dallas Grundy Hamilton Hardin Jasper Marshall Polk Poweshiek Story Tama Webster	1,872 1,757 4,046 1,768 4,461 4,254 8,727 1,993 2,480 1,730 10,343 1,411	24.2 22.8 23.5 22.2 21.8 21.4 20.4 21.2 22.7 19.5 21.9 25.2	45,217 40,017 94,935 39,201 97,035 91,048 178,090 42,320 56,400 33,672 226,664 35,510	4,843 1,742 3,696	22.1 10.1 23.5 23.1 22.8 15.9 22.6 14.3 18.4 21.4 22.7 19.3	50,394 16,162 113,729 40,250 84,119 52,271 140,182 23,501 56,063 41,191 223,393 51,278	
For district	44,842	21.9	980,109	42,757	20.9	892,533	



# AWOI BARLEY 1933 ACRE, AGE

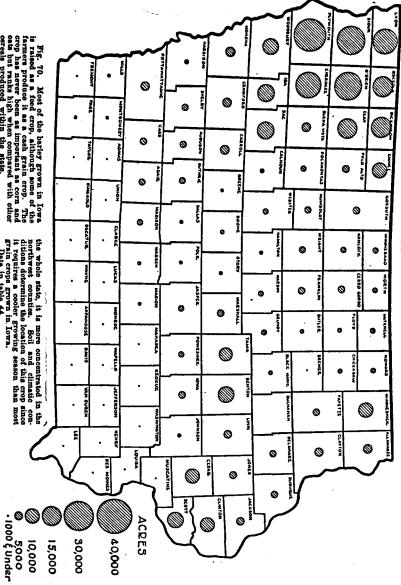


Fig. 70. Most of the barley grown in lows is raised as a feed crop, although some of the farmers produce it as a cash grain crop. The crop has never been as important as corn and oats but rants high when compared with other coreals produced within the state.

Although barley production is scattered over

285,502 201,954 163,615 82,083 74,835 37,364 145,683 97,984 51,741 229,252

370,113

33,989 15,646

15,046 55,086 13,447 23,936 29,400 35,495 61,917 8,640

277,556

2,508 128 3,501 39,653 27,487 2,073 386 13,164 24,952 350

114,218

80 2,739 3,283 2,440 13,325 229 4,667 13,160 287 3,358 15,022

58,590

the whole state, it is more concentrated in the northwest counties the lossifier and climatic conditions determine the lossifier of the requires a cooler growing season than most grain crops grown in Lowa.

Data in table 44.

12,770,884 15.9 For state ..... 536,569 23.8 532,584 484,164 S INDIA WORLD BARLEY PRODUCTION 20% WORLD TOTAL ALL OTHERS SPAIN 5%

Fig. 71. The United States and Germany rank second in world barley production. In 1983-84 the United States produced 155,835. 1000 bushels or 9 percent of the world production. Because it a a hardy crop, it is widely grown throughout the world.

East Central

Southwest

Cedar..... Clinton.... Iowa.....

Jackson..... ohnson..... ones..... 

Scott..... For district.....

Adair.....

Adams.....

Fremont..... Montgomery . . . . .

Page..... Pottawattamie....

Taylor.....

For district.....

Appanoose.....

Decatur..... Lucas.....

Madison.....

Monroe....

Ringgold.....

Union.....

Warren....

For district.....

Des Moines.....

Henry.....Jefferson.....

Keokuk..... 

Mahaska..... Van Buren.....

Wapello.....

Washington .....

| For district.....

Southeast

South Central

Cass.....

9,920 7,642 7,094 4,145 4,085 1,717 4,726 3,923 2,295 8,135

53,682

3,736 1,345 7,009 863 2,705 2,215 3,220 8,580

31,652

636 1,366 611 1,565 5,191 2,098 796 1,032 2,499 2,479

6,193

23.2 26.6 26.6 23.1 25.1 25.2 31.6 22.1 24.0 29.5

26.0

24.3 17.4

18.9 17.5 22.8

23.6 17.0

19.2

14.2 16.2 10.8 18.9 23.9 26.1 18.9 13.5 19.5

12.5

20.8 24.6 19.4 22.8 13.1 24.5 20.9 20.5 21.0 22.4

20.7

230,459 203,606 188,979 95,923

102,355 43,283 149,421

86,795 55,185 239,623

1,395,629

69,795 32,659 122,261 16,292 47,356 50,500 76,052 146,103

45,332

606,350

9,058 22,110 6,620 29,534 124,252 54,720 15,045 13,889 48,619 53,390 10,876

388,113

3,933 3,702 2,113 5,361 37,157 8,471 8,135 24,006 637 15,664 19,069

128,248

12,310 9,322 9,364 4,436

4,217 1,716 5,683 4,276 3,278 11,752

66,354

3,527 1,144 5,028 777 2,038 1,885 2,179 6,005 916

23,499

74 1,447 2,001 46

10,758

4,377

23.2 21.7 17.5 18.5 17.8 21.8 25.6 22.9 15.8 19.5

20.6

11.0 17.3 11.7 15.6 16.3 10.3 9.4

11.8

0.8 3.9 9.1 7.5 9.9 18.0 3.9 5.2 9.1 12.5 7.6

10.6

5.0 11.1 13.5 12.0 13.4 12.1 13.8 13.0 9.2 15.6

13.4

UNITED

STATES WINTER WHEAT ACREAGE

TABL	E 45.	IOWA	WINTER	WHEA	т.	
		1932			1933	
Districts and counties	Acres	Bushels per acre	Total bushels	Acres	Bushels per acre	Total bushels
Northwest Buena Vista. Cherokee. Clay Dickinson. Emmett Lyon. O'Brien. Osceola. Palo Alto. Plymouth. Pocahontas. Sioux.	74 47 218 509 832 147 19 39 724 2,341 345 588	11.9 25.0 14.2 14.2 17.4 26.1 27.4 12.0 13.7 18.3 18.0 23.0	877 1,175 3,097 7,245 14,473 3,835 520 468 9,883 42,803 6,203 13,517	22 32 59 151 178 167 8 75 540 950 171 303	15.7 17.3 10.5 10.8 15.3 18.0 16.3 11.2 10.5 18.6 15.9 12.3	345 552 618 1,633 2,725 3,005 130 838 5,695 17,692 2,726 3,723
For district	5,883	17.7	104,096	2,656	14.9	39,682
North Central Butler Cerro Gordo Floyd Franklin Hancock Humboldt Kossuth Mitchell Winnebago Worth Wright	357 344 270 68 287 294 645 626 264 514	9.9 13.0 16.6 16.9 17.5 16.2 10.4 10.8 14.1 19.4	3,534 4,465 4,483 1,151 5,022 4,765 6,740 6,755 3,713 9,994 3,936	193 53 117 49 29 76 141 66 21 416 33	14.9 13.0 14.2 18.9 14.0 12.4 9.1 11.0 15.7 9.3 11.8	2,877 729 1,657 924 405 946 1,289 724 330 3,859 3859
For district	3,869	14.1	54,558	1,194	11.8	14,129
Northeast Allamakee. Black Hawk Bremer Buchanan. Chickasaw Clayton. Delaware Dubuque Fayette. Howard Winneshiek	560 306 144 373 602 384 210 143 838 255 410	18.7 18.7 19.0 13.0 16.8 20.4 18.3 20.7 13.1 16.1 17.9	10,490 5,727 2,733 4,850 10,140 7,819 3,853 2,962 10,955 4,094 7,335	337 280 201 427 109 502 150 173 330 134 307	10.8 17.3 12.7 11.8 8.6 13.4 13.8 15.4 15.0 9.4	3,628 4,836 2,562 5,029 933 6,709 2,068 2,670 4,942 1,253 2,692
For district	4,225	16.8	70,958	2,950	12.7	37,322
West Central Audubon. Calhoun Carroll Crawford Greene Guthrie Harrison Ids Monona Sac Shelby Woodbury	361 133 872 1,546 235 1,061 7,572 30 26,664 122 462 16,594	18.5 13.8 18.1 18.5 17.5 14.5 14.0 21.7 14.0 15.6 17.4	6,661 1,830 15,815 28,556 4,113 15,385 105,647 650 373,763 1,909 8,025 242,786	462 197 1,108 1,040 148 1,472 10,111 21,368 126 475 13,528	15.0 13.0 15.2 8.6 19.6 14.2 19.4 8.0 19.8 8.5 11.9	6,933 2,566 16,816 8,970 2,900 20,851 195,723 88 422,232 1,070 5,651 221,820
For district	55,652	14.5	805,140	50,046	18.1	905,620
Central Boone Dallas Grundy Hamilton Hardin Jasper Marshall Polk Story Tama Webster	595 5,478 91 129 91 3,701 928 6,547 464 820 1,264	16.5 18.6 19.8 20.6 12.4 19.6 19.0 20.2 16.7 15.6 18.7	9,803 101,860 1,800 2,663 1,130 72,398 17,621 132,249 7,753 12,760 23,578 2,069	574 6,084 56 374 82 3,747 1,512 7,682 464 901 1,157	21.6 18.1 16.5 22.9 19.2 20.1 20.7 19.3 18.1 20.4 18.1 16.2	12,418 110,154 926 8,582 1,576 75,432 31,276 148,485 8,420 18,349 20,961 1,939
For district	20,234	19.1	385,684	22,753	19.3	438,518

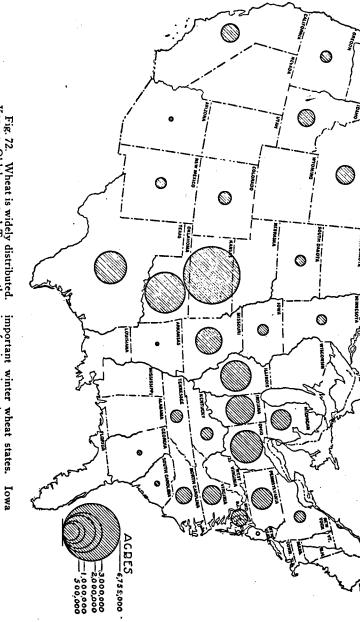
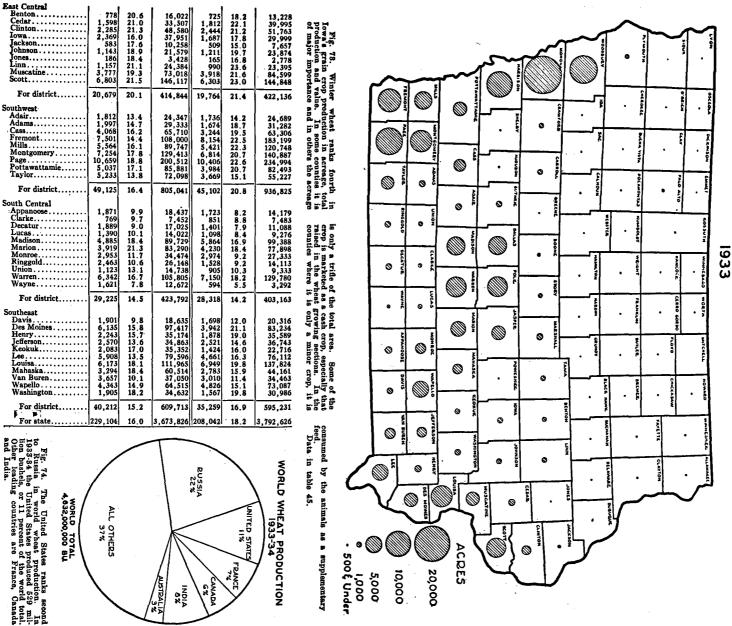


Fig. 72. Wheat is widely distributed. Kansas, Oklahoma, and Texas are the

important winter wheat states. is of minor importance.

# OWA WINTER WHEAT ACREAGE



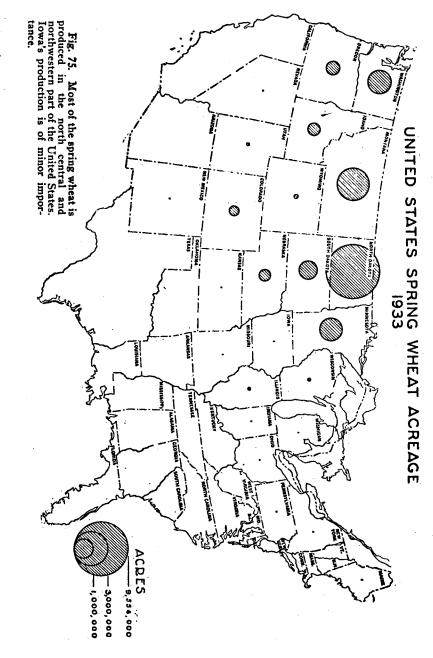
AGRICULTURAL

ECONOMIC

FACTS

TABLE 46. IOWA SPRING WHEAT

Districts and counties		1932	)		1933	
Buena Vista	nties	per		Acres	per	Total bushels
Cherokee	١				اميدا	
Clay			1,380		12.8	1,196 2,028
Dickinson	10		1 696		10.7	3,396
Emmett. 47 18.3 800 90 9.5. Lyon. 276 19.8 5,458 303 12.9 O'Brien. 101 16.5 1,664 193 16.5 Oecola. 136 16.7 2,268 480 10.1 Palo Alto. 26 20.2 524 76 10.5 Palo Alto. 1397 11.7 16.292 1,535 12.7 Pymouth. 1,397 11.7 16.292 1,535 12.7 Pymouth. 257 18.0 4,633 526 12.5  For district. 2,983 14.4 42,833 4,110 12.3  North Central Butler. 150 13.3 1,999 212 14.2 Cerro Gordo. 128 15.9 2,038 172 11.2 Franklin. 158 15.2 2,405 245 16.0 Franklin. 158 15.2 2,405 245 16.0 Hancock. 159 16.0 2,538 118 12.1 Humboldt. 114 15.7 1,789 155 15.3  Kossuth. 115 12.5 1,432 189 12.6 Mitchell. 321 14.8 4,747 691 13.5 Winnebago. 73 13.8 1,007 229 15.3 Worth. 245 14.4 3,538 298 14.3 Wright. 3,112 13.3 4,145 256 17.9  For district. 1,867 14.4 26,801 2,649 14.3  Northeast Allamakee. 458 19.6 8,964 609 13.0  Rortheast Allamakee. 158 12.8 2,029 162 11.5  Rorener. 120 13.8 1,652 153 12.8  Bremer. 120 13.8 1,652 153	30		4.539			2,331
Lyon. 276   19.8   5.488   303   12.9   O'Brien. 101   16.5   1.664   193   16.5   Oecola   136   16.7   2.268   480   10.1   Palo Alto   26   20.2   524   76   10.1   Plymouth.   1,397   11.7   16.202   1,535   12.7   Pocahontas.   132   15.1   1,989   150   12.9   Sioux.   257   18.0   4,633   326   12.5   For district.   2,983   14.4   42,833   4,110   12.3   North Central   150   13.3   1,999   212   14.2   Cerro Gordo.   128   15.9   2,038   172   11.2   Floyd.   92   12.6   1,163   84   12.5   Franklin.   158   15.2   2,405   245   16.0   Hancock.   159   16.0   2,538   118   12.1   Humboldt.   114   15.7   1.789   155   15.3   Kossuth.   315   12.5   1,432   189   12.6   Mitchell.   321   14.8   4,747   691   13.5   Worth.   245   14.4   3,538   298   14.3   Wright.   3,112   13.3   4,145   256   17.9   For district.   1,867   14.4   26,801   2,649   14.3   Northeast   Allamakee.   458   19.6   8,964   609   13.0   Brunen.   129   16.1   2,071   126   12.6   Chickasaw   158   12.8   2,029   162   11.5   Clayton.   6069   18.7   12.944   867   15.4   Brunen.   120   31.8   1.652   153   12.8   Brunen.   120   13.8   1.652   153   12.8   Brune	4					892
OBecols 136 16.5 1,664 193 16.5 Coscols 136 16.7 2,268 480 10.1 Palo Alto 26 20.2 524 76 10.5 Plymouth 1,307 11.7 16.292 1,535 12.7 Pocahontas 132 15.1 1,989 1.50 12.9 Sioux 257 18.0 4,633 526 12.5 For district 2,983 14.4 42,833 4,110 12.3 North Central Butler 150 13.3 1,999 212 14.2 Cerro Gordo 128 15.9 2,038 172 11.2 Franklin 158 15.2 2,405 245 16.0 Hancock 159 16.0 2,538 118 12.1 Humboldt 114 15.7 1,789 155 15.3 Kossuth 151 12.5 1,432 158 118 12.1 Humboldt 114 15.7 1,789 155 15.3 Kossuth 151 12.5 1,432 158 118 12.1 Humboldt 132 14.8 4,747 691 13.5 Winnebago 73 13.8 1,007 229 15.3 Worth 245 14.4 3,538 298 14.3 Wright 3,112 13.3 4,145 256 17.9 For district 1,867 14.4 26,801 2,649 14.3 Northeast Allamakee 458 19.6 8,964 609 13.0 Rortheast Allamakee 158 12.8 12.9 14.8 Rortheast 158 12.8 2,029 162 17.9 Chickasaw 158 12.8 12.8 2,029 162 11.5 Chickasaw 158 12.8 2,029 162 11.5 Chickasaw 159 15.3 3,953 312 12.4 Howard 253 12.4 3,343 255 15.5 For district 3,631 16.2 58,936 4,487 13.6 West Central Audubon 120 15.9 1,905 169 5.8 Carroll 573 15.0 8,589 591 11.2 Crawford 1,909 14.8 1,467 137 16.6 Green 99 14.8 1,467 137 16.6 Green 99 14.8 1,467 137 16.5 Green 99 14.8 1,467 137 16.6 Green 99 14.8 1,467 137 16.5 Green 99 14.8	27	6 19.8				3,907
Palo Alto	10	1   16.5	1,664		16.5	3,192
Plymouth			2,268		10.1	4,831 800
Pocahontas   132   15.1   1,989   150   12.9		0 20.2	16 202		10.5	19,527
Sioux	1,39		1 080	1,333		1,928
For district					12.5	6,598
North Central   Butler		_  -				50,626
Butler	1	<b>'</b>	42,633	1,110	12.3	30,020
Cerro Gordo         128         15.9         2,038         172         11.2           Floyd         92         12.6         1,163         84         12.5           Franklin         158         15.2         2,405         245         16.0           Hancock         159         16.0         2,538         118         12.5           Humboldt         114         15.7         1,789         15.5         15.3           Kossuth         115         12.5         1,432         189         12.6           Mitchell         321         14.8         4,747         691         13.5           Worth         245         14.4         3,538         298         14.3           Worth         245         14.4         3,538         298         14.3           Wright         3,112         13.3         4,145         256         17.9           For district         1,867         14.4         26,801         2,649         14.3           Northeast         41.8         19.6         8,964         609         13.0           Remer         12.0         13.8         12.1         1,671         308         14.8 <td< td=""><td></td><td>0   13 2  </td><td>1 000</td><td>212</td><td>14.2</td><td>3,003</td></td<>		0   13 2	1 000	212	14.2	3,003
Floyd		8 15 9	2.038		11.2	1 032
Franklin         158         15.2         2,405         245         16.0           Hancock         159         16.0         2,538         118         12.1           Humboldt         114         15.7         1,789         155         15.3           Kossuth         115         12.5         1,432         189         12.6           Mitchell         321         14.8         4,747         691         13.5           Worth         245         14.4         3,538         298         14.3           Worth         245         14.4         3,538         298         14.3           Wright         3,112         13.3         4,145         256         17.9           For district         1,867         14.4         26,801         2,649         14.3           Northeast         Allamakee         458         19.6         8,964         609         13.0           Remer         120         13.8         1,652         153         12.8           Bremer         120         13.8         1,652         153         12.8           Buchanan         129         16.1         2,071         126         12.6           <	······		1.163			1,049
Hamcock	15		2,405		16.0	3,931
Kossuth	15		2,538		12.1	1,429
Mitchell         321         14.8         4,747         691         13.5           Winnebago         73         13.8         1,007         229         15.3           Worth         245         14.4         3,538         298         14.3           Wright         3,112         13.3         4,145         256         17.9           For district         1,867         14.4         26,801         2,649         14.3           Northeast         41         13.8         12.1         1,671         308         14.8           Allamakee         458         19.6         8,964         609         13.0           Black Hawk         138         12.1         1,671         308         14.8           Bremer         120         13.8         1,652         15.3         12.8           Buchanan         129         16.1         2,071         126         12.6         12.6         12.6         12.6         12.6         12.5         12.5         12.499         162         11.5         12.6         12.6         12.6         12.6         12.6         12.6         12.6         12.6         12.6         12.6         12.6         12.6         12.6			1,789		15.3	2,374
Winnebago         73         13.8         1,007         229         15.3           Worth.         245         14.4         3,538         298         14.3           Wright         3,112         13.3         4,145         256         17.9           For district         1,867         14.4         26,801         2,649         14.3           Northeast         458         19.6         8,964         609         13.0           Rlack Hawk         138         12.1         1,671         308         14.8           Bremer         120         13.8         1,652         15.3         12.8           Buchanan         129         16.1         2,071         126         15.3         12.8           Clayton         669         18.7         12.494         867         15.4           Delaware         272         17.0         4,635         30.3         15.8           Fayette         258         15.3         3,953         312         12.4           Howard         253         12.4         3,343         284         10.5           For district         3,631         16.2         58,936         4,487         13.6			1,432		12.6	2,375
Worth.         245         14.4         3,538         298         14.3           Wright.         3,112         13.3         4,145         256         17.9           For district.         1,867         14.4         26,801         2,649         14.3           Northeast         Allamakee.         458         19.6         8,964         609         13.0           Black Hawk.         138         12.1         1,671         308         14.8           Bremer.         120         13.8         1,652         153         12.8           Buchanan.         129         16.1         2,071         126         12.6         12.6         12.6         12.6         12.6         12.6         12.6         12.6         12.6         12.6         12.6         12.6         12.6         12.6         12.6         12.6         12.6         12.6         12.6         12.6         12.6         12.6         12.6         12.6         12.6         12.6         12.6         12.6         12.6         12.6         12.6         12.6         12.6         12.6         12.6         12.6         12.6         12.6         12.6         12.6         12.6         12.6         12.6 <td< td=""><td></td><td>1 14.8</td><td>4,747</td><td></td><td></td><td>9,327</td></td<>		1 14.8	4,747			9,327
Wright         3,112         13.3         4,145         256         17.9           For district         1,867         14.4         26,801         2,649         14.3           Northeast         41,867         14.4         26,801         2,649         14.3           Northeast         458         19.6         8,964         609         13.0           Black Hawk         138         12.1         1,671         308         14.8           Bremer         120         13.8         1,652         153         12.8           Buchanan         129         16.1         2,071         126         12.6           Clayton         669         18.7         12,494         867         15.4           Delaware         272         17.0         4,635         303         15.6           Dubuque         520         17.6         9,159         738         15.8           Fayette         253         12.4         3,953         312         12.4           Howard         253         12.4         3,534         10.5           Winneshiek         056         14.0         9,174         625         10.5           For district         <	····· 34		3 5 3 8		13.3	3,497 4,261
For district.         1,867         14.4         26,801         2,649         14.3           Northeast Allamakee         458         19.6         8,964         609         13.0           Black Hawk         138         12.1         1,671         308         14.8           Bremer         120         13.8         1,652         153         12.8           Buchanan         129         16.1         2,071         126         12.6         Chickasaw         158         12.8         2,029         162         11.5         Calvton         669         18.7         12,494         867         15.4         Delaware         272         17.0         4,635         303         15.6         Delaware         272         17.0         4,635         303         15.6         Delaware         272         17.0         4,635         303         15.6         Delaware         252         17.6         9,159         738         15.8         18.8         18.8         18.8         18.8         18.8         18.8         18.8         18.8         18.8         18.8         18.8         18.8         18.8         18.8         18.8         18.8         18.8         18.8         18.8         18.8	17		4 145		17 0	4.580
Northeast Allamakee. 458 19.6 8,964 609 13.0 Black Hawk. 138 12.1 1,671 308 14.8 Bremer. 120 13.8 1,652 15.3 12.8 Buchanan. 129 16.1 2,071 126 12.6 Chickasaw 158 12.8 2,029 162 11.5 Clayton. 669 18.7 12,494 867 15.4 Delaware. 272 17.0 4,635 303 15.6 Dubuque. 520 17.6 9,159 7,38 15.8 Fayette. 258 15.3 3,953 312 12.4 Howard. 253 12.4 3,134 284 10.5 Winneshiek. 656 14.0 9,174 625 10.5 For district. 3,631 16.2 58,936 4,487 13.6 West Central Audubon. 37 18.9 698 80 12.0 Carroll. 573 15.0 8,589 591 11.2 Carword. 1,699 11.5 19,548 1,722 5.3 Crawford. 1,699 11.5 19,548 1,722 5.3 Guthrie. 107 13.2 1,414 288 9,7 Greene. 99 14.8 1,467 137 16 6 Guthrie. 107 13.2 1,414 288 9,7 Harrison 7,689 8.8 67,879 5,132 11.8 Ida. 42 12.7 533 8,55 8,7 Monons. 5,701 7.8 44,562 4,836 14.5		_				37.758
Allamakee 458 19.6 8,964 609 13.0 Black Hawk 138 12.1 1,671 308 14.8 Bremer 120 13.8 1,652 15.3 12.8 Bremer 120 15.8 1.2 0.7 15.5 12.8 Buchanan 129 16.1 2,071 126 12.6 Chickasaw 15.8 12.8 2,029 162 11.5 Clayton 609 18.7 12,494 867 15.4 Delaware 272 17.0 4,635 303 15.6 Dubuque 520 17.6 9,159 738 15.8 Fayette 288 15.3 3,953 312 12.4 Howard 253 12.4 3,134 284 10.5 Winneshiek 656 14.0 9,174 625 10.5 For district 3,631 16.2 58,936 4,487 13.6 West Central Audubon 37 18.9 698 80 12.0 Carroll 573 15.0 8,589 80 12.0 Carroll 15,73 15.0 8,589 80 12.0 Carroll 15,73 15.0 8,589 80 12.0 Carroll 17,699 11.5 19,548 1,722 5.3 Greene 99 14.8 1,467 137 16.6 Guthrie 107 13.2 1,414 288 9,7 Harrison 7,689 8.8 67,879 5,132 11.8 16a 42 12.7 533 15.5 8,7 Monona 5,701 7.8 44,652 4,836 14.5	1,80	'   14.4	20,801	2,049	14.3	31,130
Black Hawk	45	ایما	9 044	400		7,932
Bremer         120         13.8         1,652         153         12.8           Buchanan         129         16.1         2,071         126         12.6           Chickasaw         158         12.8         2,029         162         11.5           Clayton         669         18.7         12.494         867         15.4           Delaware         272         17.0         4,635         303         15.6           Dubuque         520         17.6         9,159         738         15.8           Fayette         258         15.3         3,953         312         12.4           Howard         253         12.4         3,134         284         10.5           Winneshiek         656         14.0         9,174         625         10.5           For district         3,631         16.2         58,936         4,487         13.6           West Central         Audubon         120         15.9         1,905         169         5.8           Calhoun         37         18.9         698         80         12.0         1           Caroll         573         15.0         8,889         591         11.2			8,904			4,548
Buchanam         129         16.1         2.071         126         12.6         12.6         12.6         12.6         12.6         12.6         12.6         12.6         12.6         12.6         12.6         11.5         12.6         11.5         12.6         12.6         11.5         12.6         11.5         20.02         16.2         18.7         12.494         867         15.4         20.02         12.6         15.4         20.02         12.4         4.635         30.3         15.6         20.02         15.9         7.38         15.8         15.8         15.8         15.8         15.8         15.8         15.8         15.8         15.8         15.8         15.8         15.8         15.8         15.8         15.8         15.8         15.8         15.8         15.8         15.8         15.8         15.8         15.8         15.8         15.8         15.8         15.8         15.8         15.8         15.8         15.8         15.8         15.8         15.8         15.8         15.8         15.8         15.8         15.8         15.8         15.8         15.8         15.8         15.8         15.8         15.8         15.8         15.8         15.8         15.8         15.8		12.4	1,652			1,959
Chickasaw         158         12.8         2.029         162         11.5           Clayton.         669         18.7         12.494         867         15.4           Delaware.         272         17.0         4.635         303         15.6           Dubuque.         520         17.6         9.159         738         15.8           Fayette.         258         15.3         3,953         312         12.4           Howard.         253         12.4         3,134         284         10.5           Winneshiek         656         14.0         9,174         625         10.5           For district.         3,631         16.2         58,936         4,487         13.6           West Central         Audubon.         120         15.9         1,905         169         5.8           Calhoun.         37         18.9         698         80         12.0         Caroll.         15.9         1,905         169         5.8           Carroll.         1,699         11.5         19,548         1,722         5.3         3         11.2         1,447         137         16.6           Greene.         99         14.8						1,585
Clayton. 669 18.7 12.494 867 15.4 Delaware. 272 17.0 4,635 303 15.6 Dubuque. 550 17.6 9,159 738 15.8 Fayette. 258 15.3 3,953 312 12.4 Howard. 253 12.4 3,134 284 10.5 Winneshiek 656 14.0 9,174 625 10.5  For district 3,631 16.2 58,936 4,487 13.6  West Central Audubon. 120 15.9 1,905 169 5.8 Cainoun 37 18.9 698 80 12.0 Carroll 573 15.0 8,589 591 11.2 Crawford 1,699 11.5 19,548 1,722 5.3 Greene. 99 14.8 1,467 137 16.6 Guthrie. 107 13.2 1,414 288 9,7 Harrison 7,689 8.8 67,879 5,132 11.8 Ida. 42 12.7 533 55 8,7 Monona. 5,701 7.8 44,562 4,836 14.5		8 12.8			11.5	1,865
Delaware         272         17.0         4,635         303         15.6           Dubuque         520         17.6         9,159         738         15.8           Fayette         258         15.3         3,953         312         12.4           Howard         253         12.4         3,134         284         10.5           Winneshiek         656         14.0         9,174         625         10.5           For district         3,631         16.2         58,936         4,487         13.6           West Central         Audubon         120         15.9         1,905         169         5.8           Caihoun         37         18.9         698         80         12.0         12.0         12.0         15.9         1,905         169         5.8         25.3         12.0         13.6         12.0         13.6         12.0         13.6         12.0         13.6         12.0         13.6         13.6         13.6         13.6         13.6         13.6         13.6         13.6         13.6         13.6         13.6         14.6         12.0         13.6         13.6         13.6         13.6         13.6         13.6         13.6		9   18.7	12.494		15.4	13,311
Fayette.         258         15.3         3,953         312         12.4           Howard.         253         12.4         3,134         284         10.5           Winneshiek         656         14.0         9,174         625         10.5           For district.         3,631         16.2         58,936         4,487         13.6           West Central         120         15.9         1,905         169         5.8           Calhoun.         37         18.9         698         80         12.0           Carvoll.         573         15.0         8,589         591         11.2           Crawford         1,699         11.5         19,548         1,722         5.3           Greene.         99         14.8         1,467         137         16.6           Guthrie.         107         13.2         1,414         288         9.7           Harrison         7,689         8.8         67,879         5,132         11.8           Ida.         42         12.7         533         55         8.7           Monona.         5,701         7.8         44,562         4,836         14.5	27		4,635		15.6	4,719
Howard	52		9,159		15.8	11,683
Winneshiek         656         14.0         9,174         625         10.5           For district         3,631         16.2         58,936         4,487         13.6           West Central         120         15.9         1,905         169         5.8           Caihoun         37         18.9         698         80         12.0           Carroll         573         15.0         8,589         591         11.2           Crawford         1,699         11.5         19,548         1,722         5.3           Greene         99         14.8         1,467         137         16.6           Guthrie         107         13.2         1,414         288         9.7           Harrison         7,689         8.8         67,879         5,132         11.8           Ida         42         12.7         533         55         8.7           Monona         5,701         7.8         44,562         4,836         14.5	25		3,953		12.4	3,875 2,982
West Central         120         15.9         1,905         169         5.8           Calhoun         37         18.9         698         80         12.0           Carroll         573         15.0         8,589         591         11.2           Crawford         1,699         11.5         19,548         1,722         5.3           Greene         99         14.8         1,467         137         16.6           Guthrie         107         13.2         1,414         288         9.7           Harrison         7,689         8.8         67,879         5,132         11.8           Ida         42         12.7         533         55         8.7           Monona         5,701         7.8         44,562         4,836         14.5			9,174		10.5	6,540
Audubon         120         15.9         1,905         169         5.8           Calhoun         37         18.9         698         80         12.0           Carroll         573         15.0         8,589         591         11.2           Crawford         1,699         11.5         19,548         1,722         5.3           Greene         99         14.8         1,467         137         16.6           Guthrie         107         13.2         1,414         288         9.7           Harrison         7,689         8.8         67,879         5,132         11.8           Ida         42         12.7         533         55         8.7           Monona         5,701         7.8         44,562         4,836         14.5	ct 3,63	1 16.2	58,936	4,487	13.6	60,999
Calhoun         37         18.9         698         80         12.0           Carroll         573         15.0         8.589         591         11.2           Crawford         1,699         11.5         19.548         1,722         5.3           Greene         99         14.8         1,467         137         16.6           Guthrie         107         13.2         1,414         288         9.7           Harrison         7,689         8.8         67,879         5,132         11.8           Ida         42         12.7         533         55         8.7           Monona         5,701         7.8         44,562         4,836         14.5	,,		1 005	160	اء	979
Carroll.         573         15.0         8,589         591         11.2           Crawford         1,699         11.5         19,548         1,722         5.3           Greene.         99         14.8         1,467         137         16.6           Guthrie.         107         13.2         1,414         288         9.7           Harrison         7,689         8.8         67,879         5,132         11.8           Ida.         42         12.7         533         55         8.7           Monona.         5,701         7.8         24,562         4,836         14.5						959
Crawford         1,699         11.5         19,548         1,722         5.3           Greene         99         14.8         1,467         137         16.6           Guthrie         107         13.2         1,414         288         9.7           Harrison         7,689         8.8         67,879         5,132         11.8           Ida         42         12.7         533         55         8.7           Monona         5,701         7.8         44,562         4,836         14.5		3 15.0	8.589			6,613
Greene.         99         14.8         1,467         137         16.6           Guthrie.         107         13.2         1,414         288         9.7           Harrison.         7,689         8.8         67,879         5,132         11.8           Ida.         42         12.7         533         55         8.7           Monona.         5,701         7.8         24,562         4,836         14.5	1,69	9 11.5	19,548	1,722	5.3	9.179
Guthrie     107     13.2     1,414     288     9.7       Harrison     7,689     8.8     67,879     5,132     11.8       Ida     42     12.7     533     55     8.7       Monona     5,701     7.8     44,562     4,836     14.5	9	9 i 14.8 i	1,467	137	16.6	2,272 2,783
Ida	10	7   13.2	1,414		9.7	2,783
Monona		9   8.8	67,879		11.8	60,358
MONONB		4   12.7	44 563	A 835		70,235
Sac		2   10.5	890	67	16.3	1,090
Sac						3,191
Woodbury 485 10.0 4,860 565 15.6			4.860		15.6	8,832
For district		-!	<u> </u>	<b></b>		166,971



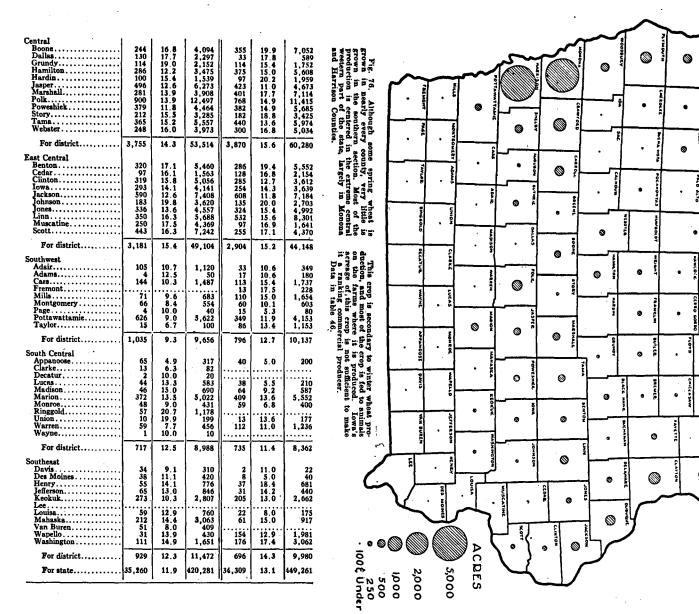
## IOWA SPRING WHEAT ACREAGE 1933

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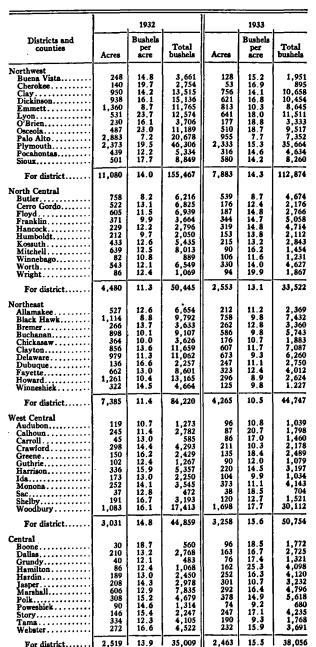


Fig. 77. Rye is with North Dakot consin, Nebraska, widely distributed, a, Minnesota, Wis-and South Dakota UNITED the leading importance. S TATE states. Most 0 S R RYE Iowa is of the rye **ACREAG** of min ħ 분.당 0 the I 0 States ß. used ACRES livestock 300,000 571,000

### AWO RYE ACREAGE

1933

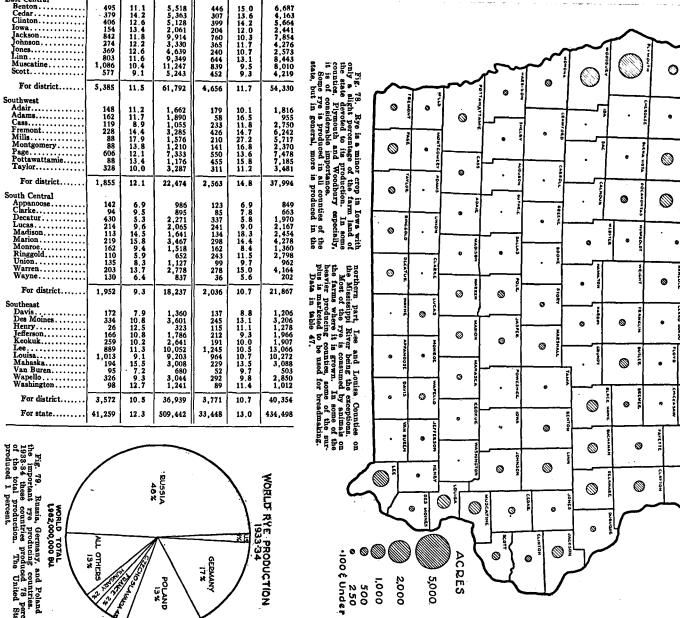
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POLAND

East Central

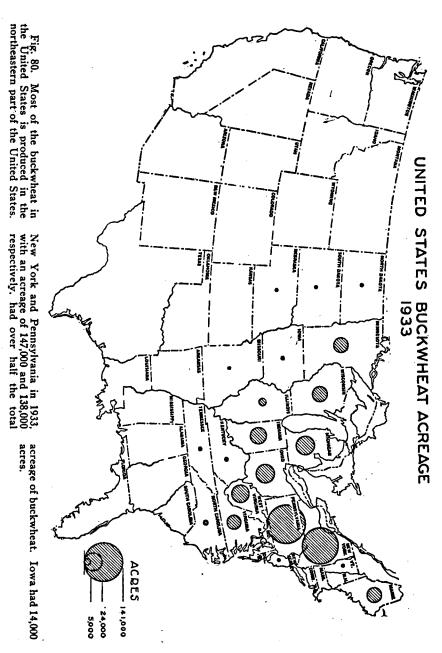
AGRICULTURAL

ECONOMIC

FACTS

TABLE 48. IOWA BUCKWHEAT.

		1932			1933	
Districts and counties	Acres	Bushels per acre	Total bushels	Acres	Bushels per acre	Total bushels
Northwest						
Buena Vista Cherokee				18	8.3	150
Clay				6	3.5	21
Dickinson Emmett	41	8.0	330		<i>.</i>	
Lyon				6	i1.7	70
O'Brien			80		7.0	
Osceola	4	20.0		8		56
Plymouth		14.1		4	14.0	56
Pocahontas	24	14.1	338	91	10.3	940
For district	69	10.8	748	133	9.7	1,293
North Central	•	10.0				
Butler	67	17.4	1,163	145	11.4 20.0	1,649
Cerro Gordo	40 37	14.3 10.1	570 375	79 62	20.0	1,583 1,089
Franklin		. <b>. .</b>		13	17.6 15.8	204
Hancock	8	11.9	95	28	12.5	350
Humboldt Kossuth						
Mitchell	272	11.3	3,087	346	13.8	4,777
Winnebago Worth	422	4.0 13.6	5,721	568	15.7 19.2	8,895
Wright	34	9.6	325	13	19.2	250
For district	883	12.9	11,348	1,254	15.0	18,797
Northeast Allamakee	32		540	10	2.4	24
Black Hawk	26	16.9 9.2	240	98	2.4 15.0	1,470
Bremer	10	9.2 15.0 15.2	150	23	6.9	158
Buchanan	48 99	15.2 18.9	731 1,867	85 124	11.5 14.8	977 1,833
Clayton						
Delaware	5	25.0	125	60	8.4	503
DubuqueFayette	···iii	17.2	1,908	158	12.8	2,018
Howard	747	12.5	9,151 774	892	12.4	11,085
Winneshiek	36	21.5		23	12.4	286
For district	1,114	13.9	15,486	1,473	12.5	18,354
West Central Audubon				2	25.0	50
Calhoun	16	14.4	230		· • · · · · · ·	· • • • • •
Carroll	10 2	21.7 13.5	217 27			
Greene						
Guthrie	6	7.5	45	59	8.7 7.8	516 70
Ida						
Monona	91 8	16.5	1,504 200	10 25	5.0 22.2	50 555
SacShelby		25.0 6.2	100	99	8.2	810
Woodbury	16	15.6	2,323	204	10.1	2,051
Central	179	13.0	2,323	201	10.1	2,031
Boone				2		20
Dallas Grundy		• • • • • • • • •		12	10.0	20 57
Hamilton	44	22.3	980	25	4.8 18.0	450
Hardin	•••••			- 8	5.0	40
Tegner	• • • • • •			50	10.6	530
Jasper				16	88	140
Jasper Marshall Polk			• • • • • • •		2.7	
Jasper MarshallPolkPoweshiek.	5	15.0	75	3 2	8.8 6.7 18.0	20 36
Jasper Marshall Polk	5	15.0	75	3 2	6.7 18.0	20



### IOWA BUCKWHEAT ACREAGE 1933

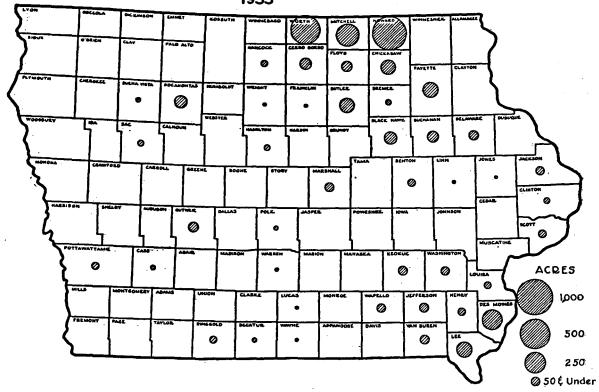


Fig. 81. Buckwheat is a minor crop in Iows. The total acreage in 1983 was less than 5.000 acres, with many of the counties reporting no acreage of this crop.

Three groups of counties, the north central, the northeast and southeast, are the heaviest producers of the grain. Howard and Worth

counties are first ranking producers of buckwheat, Data in table 48.

224	35	1,028	210	558	3,150		4,	38		485 27	1,018		32 230	191 54	356	136	1,253	234	3,891	511 200	2,976	38	382 469	10,588	57,797
	14.6	23.4		18.0			2.5			16.2 27.0 27.0	12.9		13.5		11.8								- - - - - - - - - - - - - - - - - - -	13.6	13.3
8.	25.	**	2	24.8	218	9	20	:0		~ @ -	2		<b>*</b> =:	4.5	288	~ EI E	, Ş	2	268	32.8	189	;7;	\$33	111	4,360
180	1,016	25	150	22	1,638	15	120	1 :	110	28	685	25	15	212	92	165	666		35	25	=======================================	150	20	880	35,212
20.0	9.4	12.5	32.0		11.5	15.0	0 0		m 0		13.2	80	23.5 15.0	10.1	10.0		نمان	0.6	11.7	13.3	15.9		80	14.0	13.3
•	108	64	52.0	5	143	+	12		52.	*21*	52	60	7-	21	7	38	108	-	60	£ 3	7	13	0	3	2,640
East Central Benton Cedar	Clinton	Jackson	Jones	MuscatineScott	For district	Southwest	Adams.	Fremont	Montgomery	Pottawattamie. Taylor	For district	South Central	Decatur	Madison Marion	Monroe Ringgold	Union Warren Wayne	For district	Southeast Davis	Des Moines	Jefferson. Keokuk	Lee	Mahaska Von Buren	Wapello	For district	For state

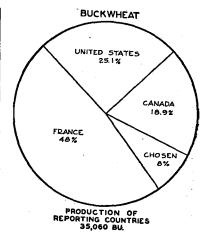


Fig. 82. Buckwheat is a minor world crop. Since a number of the countries failed to report the amount raised, it was impossible to obtain a world total. Of the countries reporting, the United States produced 25.1 percent, or a total of 35,060 bushels.

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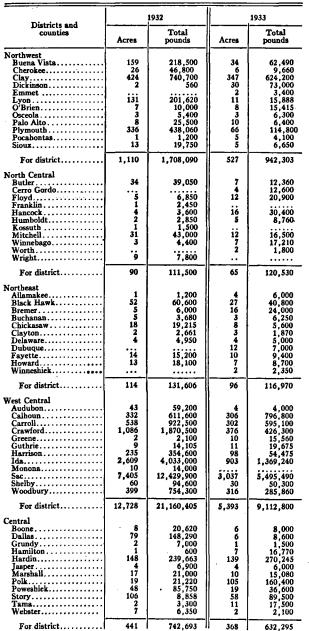
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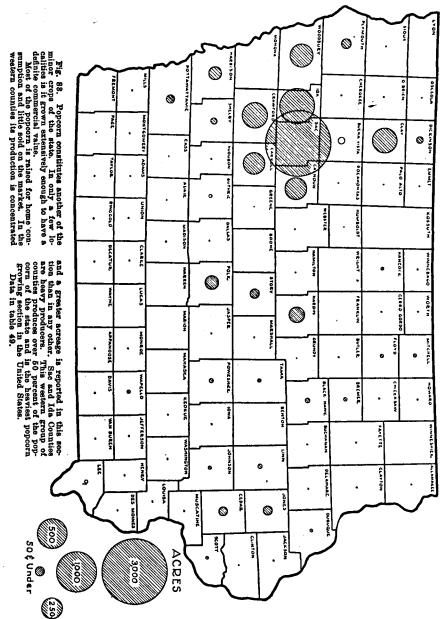
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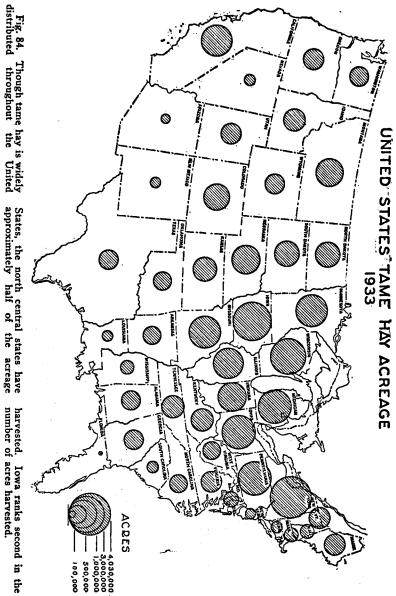
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East Central				
Benton	35	69,000		Ī
Cedar	66	179,370	l ái	122122
Clinton	4	117,310		65,475
Iowa	2	7,000	1	1,000
Jackson	2	2,840	3	2,050
Johnson	23	1,700	.1	1,200
Tomas		26,500	15	17,000
Jones	54	58,300	45	126,200
Linn	44	57,460	21	29,260
Muscatine	20	24,800	3	4,000
Scott	10	13,200	11	15,700
For district	260	440,170	141	261,885
Southwest			<u> </u>	
Adair	22	23,560	I 4	6,660
Adams	2	2,400	Ž	2,100
Cass	18	23,600	1 2	3,000
Fremont	17.	32,790		0,000
_ Milis	16	28,727	6 5 7	11,584
Montgomery	26	20,800		7,000
Page	3	3,998	,	10,800
Pottawattamie	111	224,060	40	64,700
Taylor	- 51	50,895	3	5,950
				<u></u>
For district	266	410,830	65	111,794
South Central				I
Appanoose	4	4,650	2.	2,310
Clarke	13	7,450	l ī	1,200
Decatur	7	4,200	1 1	1,600
Lucas	2 3	3,480		
Madison	3	4,995	i 'ż	2,000
Marion	Ž	1,500		
Monroe			i i	2,500
Ringgold	25	27,120	3	2,170
Union	22	30,300	ا ق	1,760
Warren	36	54,793		1,,,,,,
Wayne	2	1,700		
		1,,00	<u> </u>	
For district	116	140,188	13	13,540
Southeast			1	I
Davis	35	65,950	1	560
Des Moines	11	10,400	l i.	1,550
Henry	2	3,200	10 '	
Jefferson	ŕ	5,300		3,000 2,100
Keokuk	, <del>,</del>	0 500	1 5	2,100
Tan	20	9,500	15	7,200 8,790
LeeLouiss	- 20 8	10,425 9,700	13 .	
Mahaska	ž	3,000	ı .	1,200
Van Buren	12	8,450	2	2.047
Wanello	35	24 000	13	16 540
Wapello	33	34,900	13	16,540
Washington		3,050	<u> </u>	21,252
For district	141	163,875	58	64,239
For state	15,266	25,009,375	6,730	11,376,356



States, the north central states have approximately half of the acreage

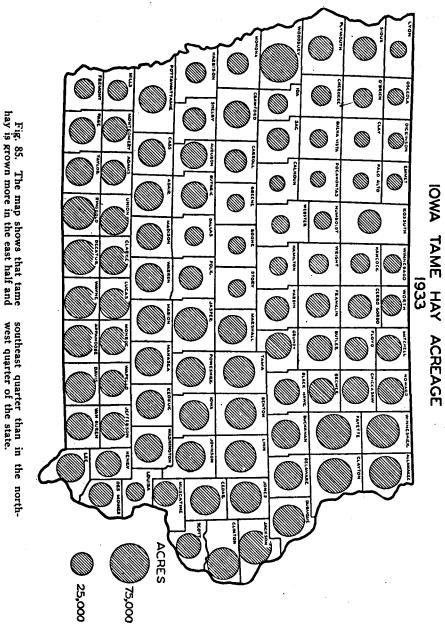
OWA

TAME

ACREAGE

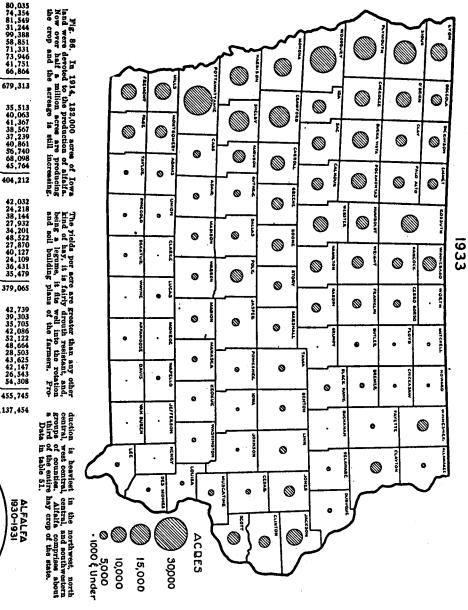
TA	BLE 50.	104	A TAME	HAY.		
•		. 1932			1933	
Districts and counties	Acres	Tons per acre	Total tons	Acres	Tons per acre	Total tons
Northwest						
Buena Vista	19,176 19,076	2.59 2.03	49,673 30,792	18,290 20,873	1.92	35,059 23,838 24,215
Clay	15,186	2.14	32,448	16,976	1.14 1.43	23,838
Dickinson	9,459 10,263	2.16	20,418 20,812	10,137 10,574	1.47	
Emmet	10,263	2.03	20,812	10,574	1.73	18,298
Cherokee	15,198 17,593	2.12 2.39	32,157 42,134	16,487 19,112 11,074	1.82 1.69	18,298 29,978 32,360
Osceola	9,916 12,921	2.11	20,901	11,074	2.22	1 24.037
Osceola	12,921	2.31	29,853	12,062	1.64	19,757 40,492
Porcehontes	28,483 14,635	1.81	51,571 35,472	13.745	1.80	24 680
Sioux	14,635 24,158	2.35	35,472 56,883	12,062 31,777 13,745 25,951	1.85	24,680 47,899
For district	196,064	2.20	431,114		1.62	336,100
North Central		'	اا			
North Central Butler Cerro Gordo Floyd Franklin Hancock Humboldt Kossuth Mitchell Winnebago Wright	27,334	1.68 1.44	45,961	30,487	1.31	39,905
Flovd	24,257 24,936	1.53	35,034 38,145	25,640 26,951	1.14 1.19	29,171 31,944
Franklin	22,617 19,974	1.68	38,145 37,918 32,877	24,836 20,664	1.69 1.27	41,864
Hancock	19,974	1.65 2.45	32,877		1.27	26.344
Kounth	13,540 28,098	2 07	33,239 58,297	12,805 25,655 29,458 17,060 21,540	1.94 1,24	24,815 31,710
Mitchell	26,227	1.46 2.20 1.71	58,297 38,388 35,914	29,458	1.09	32.120
Winnebago	16,358 18,966	2.20	35,914	17,060	1.90	32,437 30,991
Wright	14,606	1.93	32,368 28,161	14,954	1.44	24,679
For district	236,913	1.76	416,302	250,050	1.38	345,980
			· .			
Northeast Allamakee	44,703 33,400 24,403 34,288	1.30	58,095	52.501	1.19	62,357
Allamakee	33,400	1.66 1.79	55.531	52,501 37,916	1.60	60.835
Bremer	24,403	1.79	43,659 55,750	27,163 37,630	1.52 1.17	41,301 43,941
Chickseaw	32,013	1.28	I 40.9241		0.92	30,284
Chickasaw	52,143 38,899 50,531 53,678	1.21	62,992 45,709	61,649	1.05 1.29	64.977
Delaware	38,899	1.18	45,709	44,757	1.29	57,914 74,015
Favette	53.678	1.18 1.59	59,392 85,570	59,284	1.33 1.35	80,077
Howard Winneshiek	32,544 49,446	1.36	44,099 77,623	61,649 44,757 55,460 59,284 37,921 56,977	0.92	34,927 65,208
Winneshiek	49,446	1.57	77,623	56,977	1.14	65,208
For district	446,048	1.41	629,344	504,343	1.22	615,836
West Central	24 850	1 04	47 254	20 200	1 10	20 10*
Audubon	24,559 10,864 25,058	1.94 2.21	47,554 24,034	28,299 11,372 26,027	1.38	39,105 17,616 37,329 44,843
Calhoun	25,058	1.82	40.009	26,027	1.55 1.43	37,329
Crawford	32,558	2.13		34.046	1.32 1.74	44,843
Greene Guthrie Harrison.	11,886 26,172	2.12 1.44	25,176 37,749 48,657 38,225 38,798	13,398 33,328	A 90	23,307 32,936 34,760 18,603
Harrison	26,172 20,347 18,765	1.44 2.39	48,657	19,603 18,709	1.77	34,760
Ida	18,765	2.04	38,225	18,709	0.99	18,603
Monona	17,179 22,970	2.26 1.90	43,619	22,592 24,149	1.45 1.28	32,754
ShelbyWoodbury	23,125 32,115	2.36 2.39	43,619 54,480 76,596	24,149 26,172 34,240	1.62	42,381 53,814
Woodbury	32,115	2.39	76,596	34,240	1.57	53,814
For district	265,598	2.07	549,761	291,935	1.40	408,333
Central	44.540	4 01			4 0.	
Boone	14,540 15,018	1.81 1.83	26,345 27,499	15,930 18,781	1.81 1.44	28,861 27,080
Grundy	25,564	1.59	40,671	I 28 4371	1 46	41 303
Grundy	25,564 13,413 20,028	1.92	40,671 25,734 36,289	14,395 23,761 47,410 38,292	1.82	26,140 43,500 62,316 54,551
riardin	37.663	1.81		47,410	1.83	62.316
Marshall	37,663 29,575 20,918	1.47	43,583	38,292	1.43	54,551
Polk	20,918	1.85	43,583 38,764 50,555	24,140	1.31	36,542
Polk	35,481 14,572 43,810	1.42 2.01	29,362	24,140 44,207 15,914 50,307	1.32 1.81	36,542 58,553 28,863 74,752
Tama	43,810	1.45	29,362 63,473	50,307	1.49	74,752
Webster	15,903	2.05	32,594	15,652	1.94	30,319

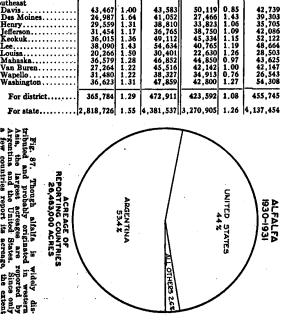
For district...... 286,476 1.66 476,223 337,221 1.52 512,870



southeast quarter than in the northwest quarter of the state.

### AWOI ALFALFA D CREAG m





48,884 1.64 46,054 1.61 55,297 1.47 43,203 0.72 58,317 1.70 46,877 1.26 49,073 1.45 27,932 1.49 33,878 1.97

461,585 1.47

45,253 0.78 31,813 1.26 40,060 1.03 20,279 1.90 17,093 2.18 28,148 1.45 34,545 1.64 41,080 1.66 41,049 1.11

51,914 0.81 41,503 0.58 55,762 0.68 44,110 0.63 34,399 0.99 41,498 1.17 37,335 0.75 52,920 0.76 36,281 0.66 41,348 0.88 58,731 0.60

1.35

299,320

495,801 0.76

1.38 1.36 1.52 1.31 1.26 1.37

1.34 1.32 1.57

1.34 1.49 1.62 1.96 2.74 1.62 1.62 2.30 1.37

0.99 0.86 0.99 1.08 1.49 1.55 1.10 0.85 1.09 1.38 0.93

1.11

1.00 1.64 1.31 1.17 1.36 1.43 1.50 1.28

60,612 56,372 73,132

49,132 63,712 60,014 57,754 59,638 40,997 58,685

580,038

47,401 33,318 51,237 37,652 42,263 35,887 43,127 82,685

31,906

405,476

42,258 25,225 39,348 37,551 38,526 58,345 34,824 29,067 26,005 48,096 41,123

420,368

43,764

41,310 48,071 37,594 50,719 43,653 43,092

45,221 1.32 26,157 1.57 30,976 1.89

410,557 1.41

35,363 22,303 31,701 19,200 15,411 22,139 26,579 35,959

23,327

42,876 29,355 39,876 34,822 25,780 37,572 31,793

34,037 23,889 34,849 44,455

379,304

43,467 24,987 29,559

31,454 36,015 38,090 20,266 36,579

231.982 1.75

Fig. 87. Though alfalfa is widely distributed and probably originated in western Asia, the largest acrosses are reported by Argentian and the United States. Since only a few countries report its acrosse, the extent of its production is not definitely known.

East Central

Southwest

Cedar..... Clinton.....

lowa........ Jackson..... Johnson.....

Jones.....

Linn...... Muscatine..... Scott.... For district.....

Adair....

Adams..... Cr.88......

Fremont..... 

Page.... Pottawattamie.....

Taylor....

For district.....

Appanoose.....Clarke

Decatur.....

Lucas Madison....

Marion....

Monroe.....

Ringgold..... Union....

Warren.....

For district.....

Wayne,....

Henry.....

Jefferson..... Keokuk.....

Lee..... Louisa.....

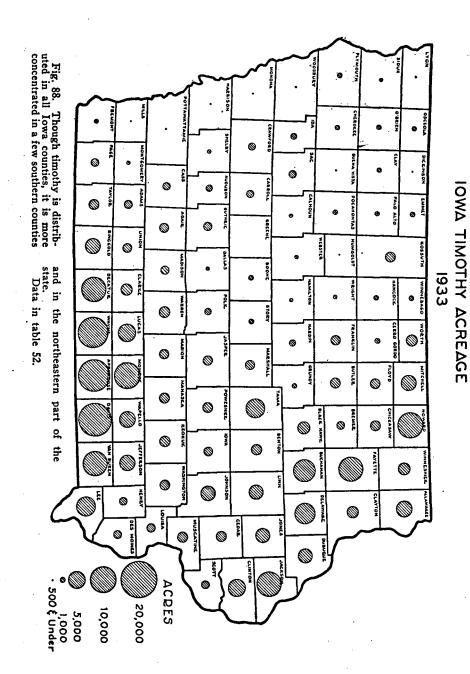
Mahaska.....

Van Buren......

South Central

Southeast

# AGRICULTURAL ECONOMIC FACTS



		1932			1933	
Districts and counties	Acres	Tons per acre	Total tons	Acres	Tons per acre	Total tons
Northwest Buens Vista Cherokee Clay Dickinson Emmet Lyou O'Brien Osceola Palo Alto Plymouth Pocahontas Sioux	9,684 8,123 5,717 6,238 12,696 9,173 6,378 8,216 21,653 9,858 20,304	3.25 2.52 2.77 2.75 2.55 2.33 3.14 2.58 3.00 1.98 2.85 2.48	37, 128 24, 404 22, 501 15, 722 15, 907 28, 947 28, 803 16, 455 24, 648 42, 873 28, 995 50, 354	10,799 9,880 7,993 6,026 6,104 13,592 10,057 7,029 7,336 21,184 9,392 21,099	2.54 1.44 2.06 1.88 2.17 2.00 2.27 2.79 1.92 1.63 2.25 2.05	27, 429 14,227 16,466 11,329 13,246 27,184 22,829 19,611 14,085 34,530 21,132 43,253
For district	129,464	2.59	335,837	130,491	2.03	265,321
North Central Butler Cerro Gordo Floyd Franklin. Hancock Humboldt Kossuth Mitchell Winnebago Worth Wright	2,494 4,298 1,565 4,755 5,435 8,728 13,896 7,096 2,161 6,596	2.81 2.54 3.09 2.80 2.70 3.15 2.84 2.95 3.14 2.97 2.70	7,008 10,907 4,836 13,314 14,675 27,493 39,465 2,891 22,281 6,418 17,809	2,674 5,674 1,931 6,143 6,549 8,349 13,250 1,119 9,065 3,442 7,243	2.33 2.11 2.17 2.65 2.13 2.51 1.68 2.61 2.46 2.65 2.39	6,230 11,972 4,190 16,279 13,949 20,956 2,260 2,921 22,300 9,121 17,311
For district		2.88	167,097	65,439	2.25	147,489
Northeast Allamakee Black Hawk Bremer Buchanan Chickasaw Clayton Delaware Dubuque Fayette Howard Winneshiek	3,354 2,298 655 663 3,606 1,612 2,114 1,493	3.25 3.25 3.11 3.25 2.63 2.92 2.54 3.25 2.93 3.25 3.03	5,551 10,900 7,147 2,129 1,744 10,530 4,094 6,870 4,374 3,000 14,483	2,688 4,433 2,569 888 1,136 6,514 2,765 3,430 2,575 1,419 6,239	3.30 2.56 2.79 2.48 2.31 2.65 2.56 3.16 2.65 2.37 2.46	8,870 11,348 7,168 2,202 2,624 17,262 7,078 10,839 6,824 3,363 15,348
For district	23,206	3.05	70,822	34,656	2.68	92,926
West Central Audubon Calhoun Carroll Crawford Greene Guthrie Harrison Ida Monona Sac Shelby Woodbury	6,258 7,811 13,474 6,127 3,979 13,501 7,913 12,449 7,738 13,298 23,890	2.94 2.75 2.78 3.11 2.90 2.50 2.90 3.00 2.68 3.13 2.70	22,926 17,210 21,715 41,904 17,768 9,948 39,193 23,739 32,367 20,738 41,623 64,503	8,891 7,072 9,421 15,211 7,256 4,522 14,301 8,169 13,397 8,461 14,964 24,495	2.58 1.96 2.08 2.21 2.30 2.41 1.68 1.89 2.12 2.26 1.82	22,939 13,861 19,596 33,616 16,689 10,898 30,175 13,724 25,320 17,937 33,819 44,581
For district	124,236	2.85	353,594	136,160	2.08	283,155
Central Boone Dallas Grundy Hamilton Hardin Jasper Marshall Polk Story Tama Webster	5,791 1,226 6,424	2.50 3.00 2.67 2.57 2.57 2.60 2.67 2.78 2.54 2.70 3.53 2.80	16,618 17,373 3,273 16,510 13,900 14,646 11,991 19,833 6,274 15,371 14,173 24,536	7,645 6,833 1,451 7,253 6,544 6,001 5,565 8,814 3,247 6,149 5,111 10,009	2.41 2.68 2.52 2.38 3.02 2.54 2.65 2.49 2.63 2.65 2.49 2.63	18,424 18,312 3,657 17,262 19,763 15,243 14,747 21,947 8,540 16,295 15,026 24,222
For district	63,287	2.76	174,498	74,622	2.59	193,438

### BASEBOOK OF IOWA

## IOWA SWEET CLOVER HAY ACREAGE

Fig. 89, popularity builder it although it although it the state Five gro	<u>~</u>							
Fig. 89. Sweet cloves popularity in Lows in rec builder it has come int although it was once read able weed, it has become in the state's agriculture, in the groups of counties,			AllIIIIIIA		-	0		
clover le in recent me into ce regarde become an culture, ounties, th	<b></b>			No tropico	3		West of the second	
Fig. 89. Sweet clover has gained much popularity in Iowa in recent years. As a soil builder it has come into wide usage, and although it was once regarded as an objection able weed, it has become an important factor in the state a agriculture.		Simon Common	(a)	J. 60		CALHOUN	POCAMONTAS	
much s s soil so, and jection- t factor	0		MADIBON		BOOM BOOM		attenta Marotanta	
central, counties I these con Although in popular duced.			Was as a		***************************************	- Table 1	O THE STATE OF THE	8
central, west central, central and southwest counties produce most of the sweet clover. In these counties pasture is relatively scarce. Although affaits and soybeans are increasing in popularity, sweet clover is still widely produced. Data in table 54.			O MANION		E	MARGON	NTANTA L	0
st of the sture is red to solver is red to solver is red clover is red	0		MANASEA	POWESHIEL	1	ADMINE	6)	
and sout weet clover slatively as are incre	· S	5	גנסאער	) jour	<del></del> ;-	SEATON OF	BREWILE	CHICEANA
hwest . In carce. asing	188		WASHINGTON	JOHNSON		LENK O	BICHANAN	PAYETTE
4	$\frac{1}{2}$	NEMEN DES MOINES		MUSCATING	CEDAL	JONE .	OCTAWARC O	CLAYTON
. 100	5000			-رو ل	CLINTON	- Mossayur	Di Vinanti	
· 100 & Under	(500) (600)	30,000	ACRES					
÷ 6	5 <b>~</b>						7,1117.9	

East Central Benton	2,916	3.65	10,643	3,589	2.83	10.157
CedarClinton	2,300 4,987	3.70 2.90	8,510 14,462	3,018 6,931	2.80 2.67	8,450 18,506
Iowa Jackson Johnson	1,172 7,663 1,402	3.50 2.90 2.58	4,102 22,223 3,617	1,751 12,085 1,865	2.85 3.11 2.59	4,990 37,584 4,830
Jones Linn	3,469 3,307	2.92 3.60	10,129 11,905	5,849 5,034	3.02 2.71	17,664 13,642
Muscatine Scott	3,519 6,255	3.06 3.21	10,788 20,078	4,087 7,612	2.20 2.96	8,991 22,532
For district	36,900	3.15	116,437	51,821	2.84	147,346
Southwest Adair	3,532 3,466	2.56 2.86	9,042 9,913	3,925 3,758	2.21 2.53	8,674 9,508
Cass	4,653 8,176 9,675	3.00 2.69 3.55	13,959 21,993	5,657 9,529 10,778	2.56 2.58	14,482 24,585
Montgomery Page	6,616 7,201	2.56 2.84	34,346 16,937 20,451	7,349 8,957	2.91 2.55 2.44	31,364 18,740 21,855
Pottawattamie Taylor	23,780 1,736	2.72 3.08	64,682 5,347	26,077 2,100	2.17 2.73	56,587 5,733
For district	68,835	2.86	196,670	78,130	2,45	191,528
South Central Appanoose Clarke	896 772	2.50 2.37	2,240 1,830	1,178 863	2.32 2.16	2,733 1,864
DecaturLucas	878 1.615	2.45	2,151 3,601	1,249 1,809	2.17 1.87	2,710 3,383
Madison Marion Monroe	4.193	2.75 3.18 2.75	11,162 13,334 2,580	4,472 4,587 977	1.93 2.38 1.98	8,631 10,917 1,934
Ringgold Union	818 1,070	2.16	1,767 3,007	1,024	2.00 2.52	2,048 3,604
Warren Wayne		2 42 1 92	10,287 816	5,101 425	1.89	9,641 808
For district	19,915	2.65	52,775	23,115	2.09	48,273
Southeast Davis Des Moines	432 1,620	2.25 3.08	972 4,990	504 1,713	1.73 2.51	872 4,300
Henry Iefferson Keokuk	682 402 1,418	2.92 3,17 2.57	1,991 1.274 3,644	828 424 1,448	2.67 2.90 1.00	2,211 1,231 1,448
Lee	1,895 1,110	2.55	4,832 2,942	2,199 1,231	2.48 2.32	4,454 2,856
MahaskaVan Buren Wapello	2,515 577	2.71 2.87 2.28	6,816 1,656 3,247	3,014 692 1,605	2.44 1.98 2.42	7,354 1,370 3,884
Washington		3.17	3,531	1,355	2.57	3,482
For district	i '	2.72	35,895	15,013	2.30	34,461
For state	537,126	2.80	1,503,625	609,447	2.30	1,403,937

										ACREAGE	i	
Districts and		1932		1933	Districts and		1932		1933		1932	1933
counties	Acres	Tons per acre	Total tons	Acres	counties	Acres	Tons per acre	Total tons	Acres	Northwest		
Northwest Buena Vista Cherokee Clay Dickinson Emmet Lyon O'Brien Osceola Palo Alto Plymouth Pocahontas Sioux	1,346 2,261 1,392 836 1,207 1,794 1,180 1,400 1,878 1,726 1,071	1.28 1.21 0.93 1.11 1.11 1.11 1.36 1.06 0.73 1.05 1.35	1,723 2,736 1,295 928 1,340 665 2,440 1,251 1,022 1,972 2,330 1,542	433 822 714 479 834 336 844 802 831 981 921 706	Northwest Buena Vista. Cherokee Clay Dickinson Emmet Lyon. O'Brien Osceola Palo Alto Plymouth Pocahontas Sioux	2,145 2,987 896 154 322 1,424 355 443 659 471 772	1.71 1.74 1.59 0.94 0.99 1.29 1.64 1.36 1.24 1.41 1.70 2.00	3,668 5,197 1,425 145 319 174 2,335 483 549 801 1,544	2,727 6,017 1,576 695 383 418 3,034 7733 351 999 384 1,008	Buena Vista Cherokeee Clay Dickinson Emmet Lyon O'Brien Osceola Palo Alto Plymouth Pocahontas Sioux  For district	3,146 2,108 2,981 1,469 1,621 1,680 2,069 1,233 1,131 5,040 1,358 2,613	3,943 1,331 2,355 1,130 1,619 1,194 2,475 1,631 1,542 6,411 885 2,485
For district	16,690	1.15	19,244	8,703	For district	10,763	1.63	17,569	18,325			
North Central Butler Cerro Gordo. Floyd. Franklin Hancock Humboldt Kossuth Mitchell Winnebago. Worth Wright	7,197 5,309 13,348 6,891 2,215 713 2,610 14,980 2,328 5,971 2,451	1.46 1.06 1.35 1.26 0.96 0.77 1.36 1.17 1.52	10,508 5,628 18,020 8,683 2,126 663 20,373 2,724 9,076 2,500	2,310 1,417 3,058 2,111 1,047 450 2,262 4,607 1,101 2,631 841	North Central Butler Cerro Gordo	1,032 337 59 1,025 333 1,028 1,17 427 317 468	1.88 1.56 1.60 1.60 1.22 1.52 2.19 1.62 1.63 1.62 1.42	1,940 526 94 1,640 792 506 2,251 190 696 514	2,761 1,894 1,430 2,933 1,321 242 965 2,314 1,055 2,284 933	North Central Butler Cerro Gordo. Floyd. Franklin Hancock Humboldt Kossuth Mitchell Winnebago Worth Wright. For district.	43 344 71 1,345 2,156 2,914 4,809 114 2,376 604 3,873	117 1,172 28 1,724 1,080 2,614 4,563 37 2,726 399 3,518
For district	64,013	1.29	82,311	21,835	For district	5,792	1.69	9,814	18,132			
Northeast Allamakee. Black Hawk. Bremer Buchanan Chickasaw Clayton Delaware. Dubuque. Fayette Howard Winneshiek.	20,466 8,787 4,377 11,814 5,035 27,888 18,978 19,779 17,108 11,481 10,363	1.03 0.97 1.23 1.44 1.00 1.01 1.03 0.94 1.30 1.09 1.12	21.080 8,523 5,384 17,012 5,035 28,167 19,547 18,592 22,240 12,514 11,607	4,943 3,739 1,977 6,057 2,350 3,391 5,699 3,998 7,414 9,726 3,614	Northeast Allamakee. Black Hawk. Bremer Buchanan Chickasaw Clayton Delaware Dubuque Fayette Howard Winneshiek  For district.	1,262 2,767 2,870 426 743 1,209 832 1,472 702 91 1,464	1.54 1.78 1.74 2.00 1.43 1.45 1.26 1.06 1.47 1.48 1.67	1,943 4,925 4,994 852 1,062 1,753 1,048 1,560 1,032 1,35 2,445	5,401 3,851 3,163 1,053 1,581 9,439 3,702 9,524 5,020 1,559 3,236	Northeast Allamakee Black Hawk Bremer Buchanan Chickasaw Clayton Delaware Dubuque Fayette Howard Winneshiek For district.	67 92 72 93 8 170 100 140 108 7 202	62 58 12 177 5 138 210 151 50 45 164
West Central Audubon. Calhoun Carroll Crawford. Greene. Guthrie Harrison Ida Monona. Sac. Shelby Woodbury  For district	4,928 1,245 3,573 5,970 1,725 3,925 1,57 2,595 3,83 3,078 2,044 639	1.09 1.21 0.97 1.20 1.08 0.95 1.53 1.01 1.48 1.22 1.03 1.09	5,372 1,506 3,466 7,164 1,863 3,729 2,40 2,621 3,755 2,105 697 33,085	1,343 800 1,232 1,766 695 2,012 108 1,100 2,34 1,256 784 319	West Central Audubon. Calhoun. Carroll. Crawford. Greene. Guthrie. Harrison Ida. Monona. Sac. Shelby. Woodbury. For district.	3,111 731 4,971 4,637 6,349 162 3,010 6,815 2,561 357	1.80 1.64 1.60 1.54 1.60 1.38 1.74 1.52 2.24 1.66 1.24	5,600 1,199 7,954 7,141 1,014 8,900 282 4,575 11,313 3,176 585	9,728 720 7,464 7,857 1,800 13,228 1,36 4,079 96 6,988 5,668 418	West Central Audubon. Calhoun. Carloll. Crawford. Greene. Guthrie. Harrison Ida. Monona. Sac. Shelby. Woodbury For district.	2,723 2,674 1,135 15,345 3,331 13,951 2,302 8,488 2,694 11,904 15,338	2,816 2,300 923 9,712 3,504 321 11,084 954 3,640 1,583 11,472 21,779

Central Boone Dallas Grundy Hamilton Hardin Jasper Marshall Polk Powesbiek Story Tama Webster	1,947 1,456 4,231 1,279 3,333 3,839 7,065 2,257 8,461 1,918 19,201 1,835	1.04 0.83 1.27 1.13 1.41 1.05 0.97 0.87 1.30 1.42 1.09 0.90	2,025 1,208 5,374 1,445 4,700 4,031 6,853 1,964 10,999 2,724 20,929 1,652	1,082 676 809 791 1,282 2,217 2,029 1,273 3,039 930 6,582 819	Central Boone Dallas Grundy Hamilton Hardin Jasper Marshall Polk Story Tama Webster	991 3,011 2,410 829 1,145 18,258 6,503 3,688 9,449 910 4,889 538	1.38 1.08 1.56 1.55 1.57 1.61 1.54 1.63 1.34 1.70 1.50 1.40	1,368 3,252 3,760 1,285 1,798 29,396 10,015 6,011 12,662 1,547 7,334	1,711 6,276 7,192 1,262 5,682 28,560 21,094 5,748 18,690 2,192 13,508 811	Central Boone Dallas Grundy Hamilton Hardin Jasper Marshall Polk Poweshiek Story Tama Webster	20 1,612 1,171 964 221 4,423 214 5,149	3,761 3,253 75 2,788 1,167 361 379 4,753 98 6,062 56
For district	56,822	1.12	63,904	21,529	For district	52,621	1.50	79,181	112,726	For district	22,133	24,415
East Central Benton Cedar. Clinton Lowa Jackson Johnson Jones Linn Muscatine Scott	15,587 15,019 19,939 13,917 20,186 8,930 25,196 17,244 5,737 7,224	0.97 0.98 1.22 1.05 0.82 0.94 1.16 0.97 1.09	14, 149 14, 719 24, 326 14, 613 16, 553 8, 394 29, 227 16, 727 6, 253 10, 041	3,340 3,189 5,619 2,540 7,921 4,188 4,039 4,149 13,127 1,941	East Central Renton Cedar Clinton Lowa Jackson Johnson Jones Linn Muscatine Scott	2,607 3,905 3,322 4,776 3,194 10,186 702 1,663 3,459 4,942	1.24 1.37 1.49 1.36 1.00 1.44 1.30 1.33 1.52 1.85	3,233 5,350 4,950 6,495 3,194 14,668 913 2,212 5,258 9,143	11,717 11,905 11,854 12,380 9,408 16,833 11,162 9,518 6,987 10,980	East Central Benton Cedar Clinton Lowa Jackson Johnson Jones Linn Muscatine Scott	56 122 51 21 408 42 51 148 1,472	79 114 114 36 1,043 42 173 218 129 332
For district	147,979	1.05	155,002	40,053	For district	38,756	1.43	55,416	112,744	For district	2,649	2,280
Southwest Adair. Adams. Cass. Fremont Mills. Montgomery Page. Pottawattamie. Taylor.	5,521 3,451 4,439 1,626 1,076 2,530 5,375 1,434 9,089	0.92 0.90 0.93 1.13 1.23 1.08 1.01 1.03 0.90	5,079 3,106 4,128 1,837 1,323 2,732 5,429 1,477 8,180	2,423 1,170 1,832 899 524 751 1,944 3,67 3,023	Southwest Adair Adams Cass. Fremont Mills Montgomery Page Pottawattamie Taylor.	8,991 7,293 12,506 4,080 2,395 8,248 5,609 3,155 1,981	1.30 1.36 1.55 1.46 1.24 1.30 1.25 1.82	11,688 9,918 19,384 5,957 2,970 10,722 7,011 5,742 2,456	19,881 19,378 24,892 4,573 3,306 15,251 15,907 6,926 25,188	Southwest Adair. Adams. Cass. Fremont. Mills. Montgomery. Page. Pottawattamie. Taylor.	323 142 1,144 5,191 4,676 1,484 440 33,318	515 573 600 6,486 7,519 2,446 355 29,929
For district	34,541	0.96	33,291	12,933	Fordistrict	54,258	1,40	75,848	135,302	For district	46,766	48,580
South Central Appanoose Clarke Decatur Lucas Madison Marion Monroe Ringgold Union Warren Wayne	14,561 6,215 3,145 4,803 10,901 7,701 6,585 5,249 14,550	0.70 0.73 0.75 0.87 1.11 0.96 0.84 0.76 0.84 0.94	10,924 3,192 10,921 5,407 3,491 4,611 9,157 5,853 5,531 4,934 10,330	14,285 3,576 8,091 5,726 1,859 2,842 9,965 4,397 2,023 3,279 13,365	South Central Appanoose Clarke Decatur Lucas Madison Marion Monroe Ringgold Union Warren Wayne	2,157 5,943 3,972 6,465 10,349 16,662 4,300 1,884 2,687 14,094 5,108	1.20 1.00 1.08 1.10 1.30 1.50 1.44 1.09 1.17 1.30 1.25	2,588 5,943 4,290 7,112 13,454 24,993 6,192 2,054 3,144 18,322 6,385	5,016 8,532 5,527 10,978 18,209 20,330 7,342 12,013 10,837 19,705 8,373	South Central Appanoose Clarke Decatur Lucas Madison Marion Monroe Ringgold Union Warren Wayne.	61 100 36 84 169 138 9 74 150 2,996	61 62 31 107 100 179 2 112 189 3,415
For district	93,688	0.79	74,351	69,408	For district	73,621	1.28	94,477	126,862	For district	3,896	4,342
Southeast Davis. Des Moines Henry Jefferson Keokuk Lee. Louisa Mahaska Van Buren Wapello Washington	14,464 2,641 2,909 7,494 9,089 7,480 3,229 4,830 8,804 7,933 6,263	0.77 1.24 0.93 0.90 1.12 0.93 1.13 0.87 0.90 0.98 1.02	11, 137 3, 275 2, 705 6, 745 10, 180 6, 956 3, 649 4, 202 7, 924 7, 774 6, 388	16,306 1,980 1,973 4,169 3,325 7,005 2,286 3,180 8,385 5,080 3,060	Southeast Davis Des Moines Henry Jefferson Keokuk Lee Louisa Mahaska Van Buren Wapello Washington	3,406 9,259 10,485 8,939 8,478 7,118 5,307 17,564 9,990 6,472 13,979	1.30 1.70 1.33 1.08 1.36 1.32 1.50 1.25 1.30 1.30	4,428 15,740 13,945 9,654 11,530 9,396 7,960 21,955 12,987 8,414 18,872	5,439 9,928 12,907 12,491 19,314 10,091 6,679 26,880 12,860 11,968 20,655	Southeast Davis Des Moines. Henry Jefferson Keokuk Lee. Louisa. Mahaska. Van Buren Wapello Washington	4 49 93 160 33 39 54	25 53 77 36 26 19 84 84 110 115
For district	75,136	0.94	70,935	56,749	For district	100,997	1.34	134,881	149,212	For district	558	676
For state	675,207	1.04	701,824	295,767	For state	384,104	1.41	540,719	779,014	For state	202,494	196,438

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<u>.</u>	CLOVER
200	HΔY
	ACREAGE

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Fig. 90. Most of the clover hay is produced alfalfa, timothy and mixed timothy and clover shown a steady decline. On the southern counties of the state. This are compared with it.  The percentage of land devoted to the product of the state, but ranks fourth when duction of this crop in the last few years has		THE COLOR DELAYOR MAY PURE APPRAISONS DAVIS MAN PURE VIEW	CLAREC LUCAS MONEROE MADELLO AUTRESON MENER	Cold Cold Cold Cold Cold Cold Cold Cold	O O O O O O O O O O O O O O O O O O O	CAROLL STEEK SOOK STORY MASSALL	O O O O O O O O O O O O O O O O O O O	MODERATE IDV PAC CYTHONS AVERAGES WANTED A THESAME STANDARD O O O	0	ATHOUTH CHECKLE BEING 1917A POCAMONTAS MUNBOLOT WEIGHT FRANKLIN SUILLE SECHLE ()	O O O PAYETTE CLAYTON	SIGNA CHAY PAND ANTO MANCOCC CERE CARD FLOYD CHICCAMW
shown a steady decline. Other crops, especially aifsifs, have been taking its place.  Data in table 53.	1000 & Under		OCS NOMES	AC		El	THOL		┨_		CLAVION	~

		1932		1933
Districts and counties	Acres	Tons per acre	Total tons	Acres
Northwest				
Buena Vista		1.72	4,771	2,548
Cherokee		1.67	4,805	2,642
Clay	2,988	1.40	4,183	3,141
Dickinson	1,896	1.40	2,654	2,308
Emmet		0.92	1,427	1,480 753
Lyon		1.75	1,024 6,657	3.602
Osceola		1.38	1,704	1.732
Palo Alto		1.00	1,561	1,494
Plymouth		1.24	2,351	2,361
Pocahontas		1.84	2,742	1,842
Sioux		1.78	2,506	787
For district	24,306	1.50	36,385	24,690
North Central		1		
Butler	12,856	1.70	21,855	17,921
Cerro Gordo		1.46	12,958	12,607
FloydFranklin		1.45	9,562 11,217	16,467
Hancock	9,209	1 26	11,603	11,659 9,026
Humboldt	2,795	1.16	3,242	2,650
Kossuth		1.43	11,234	5,580
Mitchell	6,651	1.56	10,376	18,049
Winnebago	4,548	1.64	7,459	4,034
Worth	8,735	1.59	13,889	11,844
Wright	3,109	1.45	4,508	4,271
For district	80,012	1.47	117,903	114,108
Northeas <b>t</b>	1	1 . 1	1	
Allamakee	20,652	1.40	28,913	38,495
Black Hawk	11,892	1.50	17,838	17,651
Bremer	9,757	1.85	18,050	13,243
Buchanan		1.70	26,020	22,615
Chickasaw	21,991	1.32	29,028	24,271
Clayton	16,926	1.20	20,311	40,232
Delaware	11,180 24,337	1.18	12,298 28,718	27,409
Fayette	25.003	1.70	42,505	36,882 36,153
Howard	13,670	1.34	18,318	17,749
Winneshiek	31,710	1.50	47,565	42,017
For district	202,424	1.43	289,564	316,717
Vest Central		] ]	10.001	
	1 7 721	1 4 52 1		# AG2

10,991 3,372 10,770 9,269 1,491 12,064 449 6,098 623 6,447 3,924 2,311

67,809

2,631 1,854 21,731 4,292 12,595 9,002 10,422 3,908 17,951 4,823 14,754

3,305

107,268

7.083 2,156 6,945 4,705 1,987 9,366 186 4,123 816 6,211 2,259 809

46,646

2,895 1,720 16,557 3,673 8,226 8,273 7,255 3,113 18,037 3,866 23,135

2,613

99,363

1.52 1.67 1.40 1.52 1.30 1.74 1.36 1.53 1.47 1.51

1.44

1.32 1.24 1.54 1.34 1.51 1.40 1.43 1.42 1.37 1.51 1.29

1.41

7,231 2,019 7,693 6,098 1,147 9,280 258 4,484 407 4,386 2,599 1,472

47,074

1,993 1,495 14,111 3,203 8,341 6,430 7,288 2,752 13,103 3,194 11,437

75,991

West Central
Audubon.
Calhoun
Carroll.
Crawford.
Greene.
Guthrie
Harrison

Sac. Shelby. Woodbury. For district.....

For district....

Central

### BASEBOOK OF IOWA

# IOWA MIXED TIMOTHY & CLOVER ACREAGE 1933

ast Central			··	
BentonCedar	16,153	1.30	20,999 24,026	26,241 26,788
Clinton	17,537 17,877	1.52	27,173	29,748
Iowa	15,430	1.33	20,522	25.464
JacksonJohnson	18,039	1.13	20,384	27,765
Iones.	21,300 10,314	1.45	30,885 12,892	23,010 25,961
Linn	15,072	1.12	16,881	28,071
Muscatine	9,283 9,883	1.36 1.56	12,625 15,417	10,447 12,183
For district	150,888	1.34	201,804	235,678
outhwest .				
AdairAdama	13,792 4,749	1.24	17,102	15,389
Cass	4,749 8,449	1.29	6,126 11,575	4,643 5,723
Fremont	667	1.62	1,081	702
Mills Montgomery	637	1.50 1.25	956	748
Page	1,860 3,715	1.33	2,325 4,941	2,374 4,237
Page Pottawattamie	2,245	1.40	3,143	1,310
Taylor	4,382	1.22	5,346	6,583
For district	40,496	1.30	52,595	41,709
South Central	44 044	ا ا		
AppanooseClarke	16,844 16,268	1.00 0.75	16,844 12,201	22,532 25,554
Decatur	15,309	1.06	16,228	30,652
Lucas	15,469	1.00	15,469	19,066
Madison Marion	5,269 8,852	1.27 1.27	6,692 11,242	10 789
Monroe	10,635	1.08	11,486	6,127 10,789 13,242
Ringgold	18,767	0.77	14,451	29,408
Union	9,959 7,612	1.00	9,959 10,885	18,292 9,386
Wayne	18,785	0.91	17,094	30,316
For district	143,769	0.99	142,551	215,424
outheast Davis	18,149		10.056	20.040
Davis Des Moines	6,591	1.05 1.45	19,056 9,557	20,040 10,007
Henry	10.704	1.29	13.808	13,928
Jefferson Keokuk	11,213	1.26	14,128 18,267	18,338 18,920
Lee	12,598 12,600	1.37	17,262	i 13.497
Louise	6,977	1.45	10,117	9,149
Mahaska Van Buren	4,764	1.19	5,667	8.182
Wapello	10,585 7,782	1.18 1.34	12,490 10,428	11,314 10,715
Washington	11,304	1.31	14,808	15,077
For district	113,267	1.29	145,590	149,167
For state	878,227	1.32	1,161,469	1,243,502

Fig. 91. Despite the popularity of other have, mixed timothy and clover remains the favorite hay crop of lows. For the last years, the total acreage devoted to that crop has increased.

Although the production is general and seat-0 0 0 0 0 0 0 • 0 • tered over the state, it is more concentrated in the southeast, east central, central and northeast groups of counties. Winneshiek County, in the northeast, is one of the heavy producers of mixed timothy and clover.

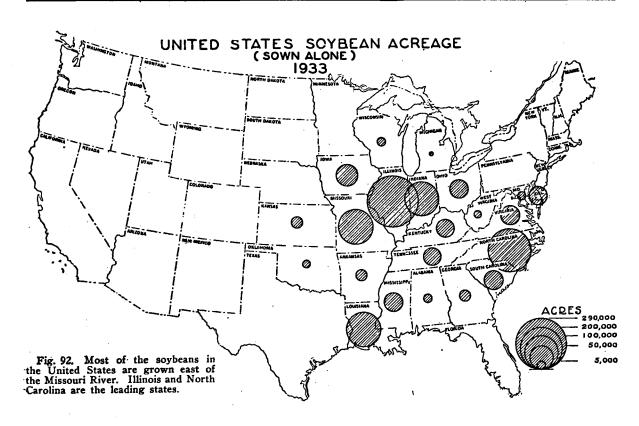
Data in table 55. 0 0 0 0 8 | 10,000 | 5000 | 1000 EUnder ACRES 20,000 42,000

TABLE 56. IOWA SOYBEANS.

	<del></del>		TABLE							
		!	1932		!		[	1933	J	l————
Districts and counties	Acres sown with other crops	Acres sown alone	Acres bar- vested for beans	Bushels per acre	Total bushels	Acres sown with other crops	Acres sown alone	Acres har- vested for beans	Bushels per acre	Total bushels
Northwest Buena Vista Cherokee Clay	144 107	261 80	94 33	15.3 19.1	1,435 630	114 108	384 99	304 70	13.2 18.2	4,013 1,275
	251 55	141 98	21 36	13.5 9.0	283 325	138 25	230 204	72 147	12.5 11.1	900 1,625
Emmet. Lyon. O'Brien.		197 58	62 9	17.0 24.4	1,055 220	18 17	321 43	. 52	15.0 14.4	782 101
Deceola	23	· 208	245 56	18.3 20.2	4,473 1,120	127 23	558 164	418 71	14.1 20.1	5,897 1,425
Palo Alto	11	238 12	35 1	13.3 15.0	465 15	64	462 21	40	15.9 23.6	635 165
Pocahontas	·····ż	211 58	82 15	12.9 13.3	1,055 200	12	192 112	36 38	19.4 16.6	697 630
For district	602	2,015	689	16.4	11,276	648	2,790	1,262	14.4	18,145
Butler	396 49	3,411 3,204	455 352	14.5 15.2	6,587 5,360	247 99	4,874 2,874	644 473	13.6 15.7	8,751 7,445
Floyd Franklin Hancock	7 189	2,561 794	432 21	11.6 13.0	5,015 272	36 219	3,491 1,250	657 163	14.3 15.0	9,382 2,440
	144 16	1,085 128	128 37	19.6 19.1	2,505 705	43 25	1,697 224	335 65	16.2 17.3	5,421 1,123
Kossuth	2 143	497 2,040	161 257	15.5 16.0	2,501 4,102	35 219	1,280 3,083	250 538	19.0 15.6	4,743 8,390
Winnehore	17 59	154 281	21 54	7.9 7.5	165 407	59 96	470 574	48 85	14.9 12.0	715 1,024
Worth	26	711	79	18.1	1,430	103	1,023	244	18.3	4,460
For district Northeast Allamakee	1,048 13	14,866 235	1,997	14.5 18.1	29,049 596	1,181	20,840 212	3,502 55	15.4 13.9	53,894 765
Black HawkBremer	320 440	8,521 3,066	2,649 353	18.0 15.2	47,717 5,354	393 452	10,869 3,853	3,762 297	16.7 14.7	62,719 4,377
Buchanan Chickasaw Clayton	· 699	6,502 1,952	1,234 276	15.2 16.5	18,764 4,553	908	8,340 2,277	2,404 516	13.0 15.5	31,353 8,016
Clayton	542 1,160	1,298 5,268	89 616	15.2 16.0	1,352 9,882	534 808	1,397 4,644	215	12.6	2,713
Dubuque	248 776	1,485 7,071	84 791	11.2 15.8	940 12,515	216 814	801 7,190	835 229	13.9 11.3	11,579 2,599
Fayette	443 1,028	1,868	55 68	11.4 19.3	629	644 356	2,404	1,252 256	11.9 12.6	14,858 3,233
For district	5,751	37,643	6,248	16.6	1,315	5,151	479	9,937	14.3	1,662
West Central Audubon	148	256	148	14.5	2.139	75	140	71	17.9	1,270
Carroll	37 140	65 52	14 10	24.0 13.0	336 130	270 40	148 78	64 48	19.1 13.2	1,220 633
Crawford	30 1,461	33 1,235	439	22.2	9,738	10 773	1,421	650	22.6	14,671
Guthrie Harrison	47 265	524 4	184 2	16.4 15.0	3,010 30	129 70	893 41	288 31	20.1 8.6	5,775 266
Ida Monona	<u>2</u>	49 24	25 19	13.0 18.2	325 345	33	57 78	10 2	15.0 10.0	150 20
Sac	32 60	114 92	30 25	17.5 17.9	525 448	123 17	202 178	73 34	16.7 26.2	1,220 890
ShelbyWoodbury	20	76	6	15.0	90	5	8			
For district	2,242	2,524	902	· 19,0	17,116	1,545	3,2 <del>44</del>	1,271	20.5	26,115
Boone	577 1,014	765 846	245 280	19.8 19.5	4,851 5,456	353 935	811 1,446	275 609	24.9 18.1	6,856 11,027
GrundyHamilton	107 32	3,418 168	930 42	19.4 15.0	18,000 630	1 <u>1</u> 11	3,884 306	2,383 72	19.4 18.1	46,161 1,306
Hardin Jasper	481 314	1,163 1,915	225 772	19.6 17.0	4,415 13,191	361 321	1,876 1,403	600 804	18.1 16.6	10,860 13,343
Jasper Marshall Polk	243 153	3,637 2,318	1,730 613	20.8 20.1	35,935 12,295	199 169	3,920 2,527	2,789 1,002	19.1 21.1	53,347 21,158
Poweshiek	170 19	643 750	220 163	17.1 17.5	3,771 2,845	43 109	822 1,211	618 344	11.8 18.7	7,275 6,416
Tama	125 25	4,094 349	2,108 110	21.8 20.8	45,943 2,287	206 10	4,590 279	3,533 157	19.7 20.3	69,631 3,180
For district	3,260	20,066	7,438	20.1	149,619	2,728	23,075	13,186	19.0	250,560
Benton	374 222	4,988 1,209	892 ° 359	19.5 23.7	17,406 7,500 725	294 460	4,873 1,612	2,188 1,009	17.7 19.1	38,731 19,242
ClintonIowa	703	423 1,256	47 123	15.4 16.5	725 2,024	13 885	341 1,115	80 453	14.1 17.9	1,128 8,108
JacksonIohnson	376	148 1,190	10 242	17.7 18.9	177 4,582	19 371	77 912	433 5 429	8.6 15.8	6,792
Jones Linn	29 527	1,651 5,008	128 740	20.8 17.1	2,668 12,683	24 467	1,095 4,548	319 1,433	18.3° 14.2	5,841 20,330
Muscatine	382 795	2,052 1,047	302 320	16.9 15.5	5,097 4,960	320 580	1,725 606	308 264	15.6 15.5	4,817 4,092
For district	3,416	18,972	3,163	18.3	57,822	3,433	16,904	6,488	16.8	109,124
Southwest Adair	1,070	2,376	813	17.2	13,986	807	2,609	998	16.1	16,108
Adams	13 235	1,009 193	186 111	19.0 16.3	3,535 1,806	173 252	1,050 284	357 144	14.2 19.4	5,066 2,795
FremontMills	100	44 26	20 20	21.8 20.0	436 400	10	53 <b>26</b>	16	23.8	380

TABLE 56. IOWA SOYBEANS—Continued

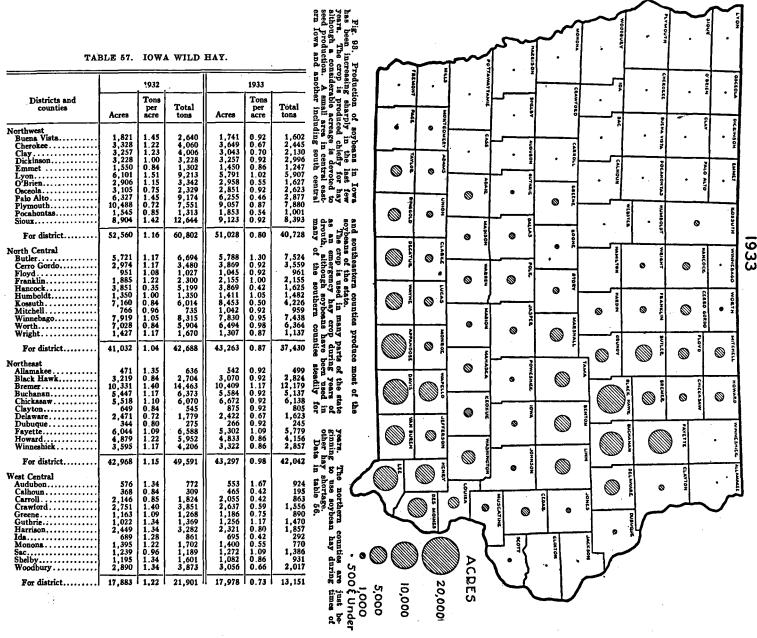
			1932	٠.	.	,		1933		
Districts and counties	Acres sown with other crops	Acres sown alone	Acres har- vested for beans	Bushels per acre	Total bushela	Acres sown with other crops	Acres sown alone	Acres har- vested for beans	Bushels per acre	Total bushels
Montgomery Page Pottawattamie Taylor	16 87 342	792 336 51 2,598	295 79 24 538	17.0 13.7 12.7 16.4	5,023 1,079 305 8,833	247 709	923 619 47 3,147	633 195 35 1,752	17.6 15.2 15.6 12.6	11,148 2,958 545 22,112
For district.  State of the sta	1,863 368 54 148 199 213 301 403 124 553 267 585	7,425 6,567 1,684 3,359 2,541 1,365 3,034 2,035 2,142 1,601 1,436 5,025	2,086 1,180 434 1,149 822 611 1,463 382 402 293 371 1,124	17.0 14.7 16.8 12.7 13.2 16.3 14.7 14.4 10.3 15.3 17.7 15.6	35,403 17,336 7,309 14,594 10,848 9,973 21,503 5,503 4,121 4,496 6,551 17,577	2,198 258 64 112 387 324 835 70 103 820 367 1,160	8,758 8,124 1,907 4,984 2,637 1,132 1,124 2,188 3,854 1,544 1,569 5,065	4,130 3,260 7,30 1,901 1,119 795 626 917 1,053 581 658 2,415	14.8 14.3 14.4 11.9 15.7 17.9 16.3 13.1 12.3 15.1 18.7 14.3	61,112 46,511 10,509 22,711 7,543 14,202 10,192 12,012 12,913 8,755 12,322 34,523
Southeast Davis. Des Moinces. Henry. Jefferson Keokuk Lee. Louisa. Mahaska Van Buren Wapello. Washington	3,215 154 1,391 1,022 248 619 1,776 480 745 187 57 868	30,789 7,311 5,470 3,329 3,488 2,898 6,404 3,092 3,264 5,082 6,685 3,790	8,231 1,463 1,959 1,584 1,502 ,780 1,267 902 635 1,176 2,619 1,708	14.6 15.4 23.9 25.1 14.5 17.6 19.5 16.9 17.7 15.5 17.9	22,564 46,774 39,694 21,720 13,751 24,758 15,250 11,245 18,209 46,928 33,694	4,500 332 1,078 560 231 780 2,391 703 386 30 173 738	34,128 9,074 6,636 6,446 2,966 2,646 8,808 3,179 1,790 6,531 6,414 4,160	14,055 4,160 3,916 3,485 1,688 1,476 2,963 1,473 888 1,746 3,936 2,707	14.4 15.2 18.6 23.1 18.9 18.4 17.0 13.2 17.7 16.2 20.3 19.8	202,193 63,275 72,715 80,666 31,971 27,142 50,427 19,397 15,744 28,263 80,094 53,622
For district	7,547 28,944	50,813 185,113	15,595 46,349	18.9 17.7	294,587 818,300	7,402 28,786	58,650 210,855	28,438 82,269	18,4 16.9	523,312 1,388,32

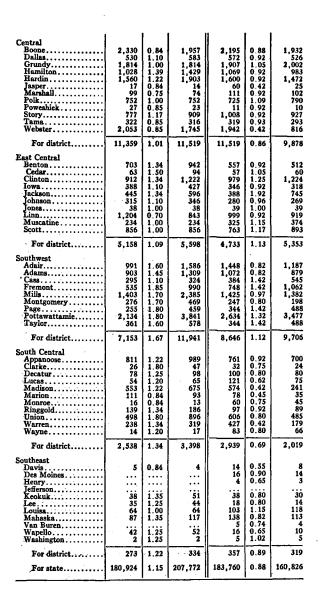


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### AMOI SOYBEAN $\triangleright$ Ó RE AGE

## SOWN ALONE

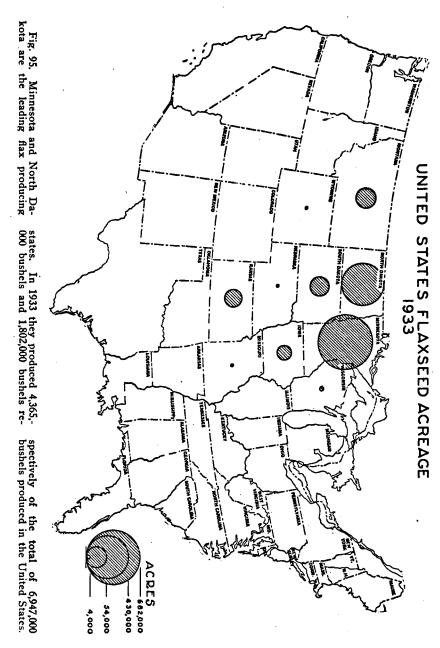




0 0 UNITED S TATES WILD 1933 HAY ACREAGE ), 500,000 2,933000 500,000 요

Fig. 94. The western states e north produce most o ೞ್ಣ wild sota, hay. North In 1933, n Dakota , Nebraska, and South Minne-Dakota were the leading a minor importance. states. Iowa was

Districts and	1	932	19	33
counties	Acres	Total bushels	Acres	Total bushels
Northwest Buena Vista Cherokee. Clay. Dickinson. Emmet Lyon. O'Brien. Oscola. Palo Alto. Plymouth. Pocahontas.	83 816 1,674 1,071 882 1,143 1,672 233 639	7,670 791 7,841 17,364 9,343 12,420 14,621 21,146 2,489  5,336 5,769	711 102 1,189 1,781 1,814 2,064 2,736 3,575 355 39 732	3,187 570 5,584 8,362 8,012 12,307 20,189 29,494 1,478 250 3,277
Sioux For district		5,769 104,790	1,187	8,124
North Central	7,377	104,750	10,203	100,634
Butler Cerro Gordo Floyd. Franklin Hancock Humboldt Kossuth Mitchell Winnebago Worth Wright	319 171 71 96 96 336 2,097 643 1,410	205 1,945 1,118 384 619 755 1,537 15,331 4,851 9,070 250	11 246 187 92 166 81 572 1,464 336 1,799 60	81 1,108 1,583 401 1,140 132 3,750 11,243 1,806 12,054 510
For district	5,303	36,065	5,014	33,808
Northeast Aallamakee	::	500 374  103 392 	170 58 10 11 112 32	679 680 58 22 455 235
DubuqueFayetteHoward Winneshiek	15 55 1,294 507	175 595 4,439 3,062	22 47 320 365	182 264 1,084 1,963
For district	2,058	9,640	1,147	5,622
West Central           Audubon.           Calhoun.           Carroll.           Crawford.           Greene.           Guthrie.           Harrison.           Ida.           Monona.	223 17 83 95	600 210 2,515 100 530 572 	125 43 592 14 94 83	437 129 2,623 52 272 179
Sac	88	838 80 25	135 28 46	750 23 62
For district	774	6,870	1,207	4,656
Central Boone Dallas Grundy Hamilton Hardin Jasper Marshall Polk. Poweshiek Story	86 70 55 257 87	100 815 170 760 625 430 2,553 751	133 584 32 266 99 153 242 479 35 313	826 1,489 332 2,192 852 819 2,549 2,644 318 2,536
Tama	60	520 700	143 54	1,449 230
For district	799	7,738	2,533	16,236



### IOWA FLAXSEED ACREAGE 1933

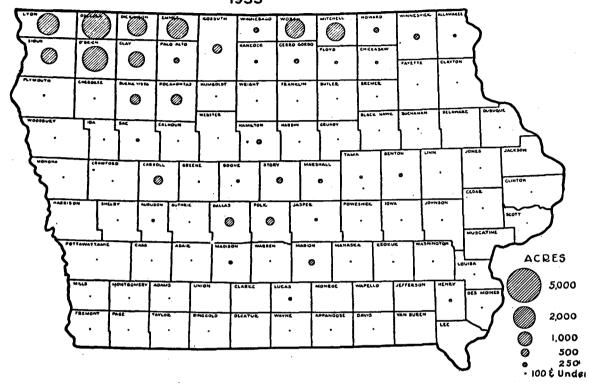


Fig. 96. Flaxseed, a minor crop, is generally grown as a cash crop. The southern counties raise very little of it and nearly 90

percent is grown in the northwest, the north central and northeast counties.

Mitchell, Dickinson and Oscools Counties

have been important producers of the crop, while many of the southern counties did not report any acreage.

Data in table 56.

1,255 521 224 477	154 220 327 100	3,278	22 250 250 250 250 250 250 250 250 250 2	1,334	57	1,019	001	249 366	5,230	420 50 1,705	223	120	507	3,129	174,127
202	: \$22:	445	17 0848444	286	<b>4</b> :	216 261 381	:5	27.00	1,000	72 9 150	52:	30 :	ï.	375	28,292
30: 270	: : : : :3	1,630	. 45 : 45 : 45 :	475	::	200 755 890	:::	376	2,221	:::	:08	:::	::	8	169,509
32: 28	::::::	134	:an : :4 :4 :	7	::	:24 54 63	:::	45	174	:::	:9:	::::	::	92	18,690
East Central Beston Cedar Clinton Lowa	Jackson Johnson Jones Linn Muscatine Scott.	For district	Southwest Adduir Adduir Adduir Adduir Adduir Adduir Fremon Willin Montgomery Page Pottswattamie	For district	South Central Appanose Clarke	Decatur Lucas Madison Marion	Monroe Ringgold	Warren	For district	Southeast Davis Des Moines Henry	Keokuk.	Louisa Mahaska Van Buren	Washington	For district	For state

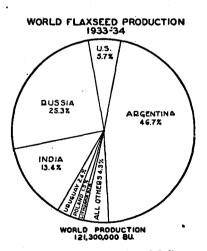


Fig. 97. Argentina, Russia and India are the leading flax producing countries. In 1933-34, the United States produced 6,947,000 bushels, or 5.7 percent of the world total.

TABLE 59. IOWA SEED CROPS-1932-38.

					932									1933				
County	т	imothy s	eed	C	over se	ed*	Swe	et clove	seed	Ti	mothy se	ed	C	over se	ed*	Swe	et clove	seed
county	Acres	Bush. per acre	Total bush.	Acres	Bush. per acre	Total bush.	Acres	Bush. per acre	Total bush.	Acres	Bush. per acre	Total bush.	Acres	Bush. per acre	Total bush.	Астез	Bush. per acre	Total bush.
Buena Vista Cherokee Clay Dickinson Emmet Lyon O'Brien Oscola Palo Alto Plymouth	5 45 110 56 3 280 8 16	5.4 5.0 3.3 5.1	48 199 592 279 10 494 1,996 75	20 62 54 6 31	1.50 0.63 0.70	23 30 39 38 5 45	73 83 44 74 53 30 158	3.5 3.6 2.4 2.7 5.3 4.3 2.7 0.5	256 297 105 202 280 130 427 12	21 3 92 142	1.9 6.7 2.3 3.5	39 20 209 493	32 52 35 14 42 17 86 59 25 49	1.50 1.81 1.53 0.80 0.71	68 29 25 21 76 26 69 42 21 101	82 87 108 58 123 56 183	3.9 3.0 1.3 2.3 3.8 4.0 4.8 3.0 1.3 2.0	58 248 115 244 220 493 270 558 8 416
Pocahontas Sioux Butler Cerro Gordo Floyd Franklin Hancock Humboldt Kossuth Mitchell	58 58 415 308 1,135 190 71 43 10 2,388	6.2 6.3 4.6 5.5 5.0 6.5 5.2 8.1	31 367 1,916 1,679 5,677 1,136 390 354 81 11,932	5		11 6 10 83		2.0 4.2 1.2 2.8 7.5 2.3 1.5	40 122 25 106 75 130 15	428 125 829 168 4	3.4 3.0 3.6 4.4 2.5	1,436 377 2,986 732 10	192 89 270 102	0.95 1.06 1.01 0.78 0.68	51 564 203 90 211 69 19 586	60 28 6 37 27 42 12	1.9 4.2 0.7 2.3 1.2 1.1 2.5 0.8 4.8	258 253 20 14 45 29 107 10 77
Winnebago Worth Wright Allamakee Black Hawk Bremer Buchanan Chickasaw Clayton Delaware	59 169 27 1,258 390 134 776 4,092 702 958	6.8 4.1 4.5 4.1 5.5	360 1,293 175 6,587 2,640 544 3,459 16,745 3,842 5,178	16 92 29 656	1.27 1.10 0.86 1.06 0.85 0.59 0.85	25 27 501 44 17 78 17 555 272	50 12 25	4.0 3.0 0.9 0.5 0.8 	8 12 45 6 20 4 5	310 692	2.0 2.1 2.9 4.8 4.1 3.8 2.4 2.7 3.7	30 665 2,027 1,583 260 3,964 8,035 1,228 3,430	799 171 1,551 497 6,616	0.75 1.17 0.99 1.13 1.13 0.92 1.14	149 209 54 3,918 792 194 1,759 456 7,574 2,746	41 11 6  24 5		45 106 34 23  20 15 17 17

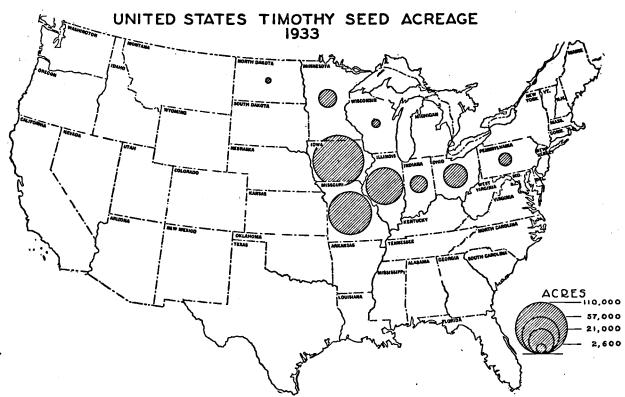


Fig. 98. Iowa, Missouri, and Illinois are the leading timothy seed producing states. In 1933 they had 110,000 and 48,000 and 57,000 acres respectively, of States.

TABLE 59. IOWA'S SEED CROPS-1932-1933-Continued

<del></del>				1	932									1933				<del></del>
C	т	imothy e	eed	C	lover se	ed	Swe	et clover	seed	Ti	mothy se	ed	C	lover se	ed	Swe	et clover	seed
County	Acres	Bush. per acre	Total bush.	Acres	Bush., per acre	Total bush.	Acres	Bush. per acre	Total bush.	Acres	Bush. per acre	Total bush.	Acres	Bush. per acre	Total bush.	Acres	Bush. per acre	Total bush.
Dubuque. Fayette Howard Winneshiek Audubon Calhoun Carroll Crawford Greene. Guthrie	\$65 1,850 4,299 3,533 1,435 16 108 130 16 3,182	4.5 4.6 4.3 5.2 6.4 3.7 3.3 5.4	2,623 8,331 19,934 15,234 7,455 103 401 434 86 12,578	464 62 166 46 145 21	0.98 0.95 0.73 1.02 0.78 0.33	400 456 59 121 47 113 7	4 16 35 18 297 81	1.5 2.0 0.6 1.3 1.4 2.1 2.0	40 12 8 10 45 25 631 165 331	1	2.3 0.8 5.0 1.5	1,896 6,187 10,261 4,642 30 15 17	320 511 194	1.11 0.97 1.05 0.65 0.89 0.77 0.59 1.47	3,782 3,727 343 626 276 25 245 301 285 1,528	11 19 20 45 128 20 348 98	1.1 1.8 2.4 1.6 3.9 1.8 3.3 2.3	45 12 34 49 73 493 36 1,275 229 84
Harrison Ida Momona Sac Sac Shelby Woodbury Boone Dallas Grundy Hamilton	25 94 111 232 7 11 21 603	5.2 	100 486 712 1,353 25 23 154 3,716	36 44 525 44 61 610 80	1.37 1.09 1.05	24 58 719 481 64 517 60	310 119 103 886 124 44	2.3 3.8 3.2 1.9 2.3 2.5 2.3 2.1	1,096 1,028 982 230 233 4,782 273 94	23 5 5	0.4 4.0 5.0 6.0	33 20 20 12 1,108 25	18 87 1,041 34 145 1,151 442	1.02 0.83 1.00 1.00 1.12 1.23 0.87 0.72	46 234 15 87 1,043 38 179 1,000 318	398 956 7 257 2,210 431 90	4.8 3.5 3.6 3.5 3.2 2.6 1.1	3,178 1,911 3,379 25 905 6,989 1,105 99

### TOWA TIMOTHY SEED ACREAGE

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Fig. 99. Timothy seed production is no longer as important as it once was, but in certain sections it is still an important crop.

The bulk of the seed is produced in the north-

east, east central, southeast and south central groups of counties. These sections are heavy hay producers, so it is natural that seed pro-

duction should also be centered in the same locality.

Data in table 59.

TABLE 59.	IOWA'S	SEED	CROPS1982	-1988Continued
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					1932									1933				
Complex	T	imothy s	eed	C	lover se	ed	Swe	et clover	seed	Ti	mothy se	ed	C	lover se	edi	Swe	et clove	seed
County	Acres	Bush. per acre	Total bush.	Acres	Bush. per acre	Total bush.	Acres	Bush. per acre	Total bush.	Acres	Bush. per acre	Total bush.	Acres	Bush. per acre	Total bush.	Acres	Bush. per acre	Total bush.
Hardin Jasper Marshall Polk Poweshiek Story Tama Webster Benton	50 375 719 52 5,593 80 2,574 30 1,273 3,008	5.7 5.6 4.6 5.4 7.4 6.6	282 1,888 4,329 295 31,209 370 13,785 222 8,400 16,063	2,530 455 460 1,761 25 248 19	0.85 0.65 0.81 0.95 1.80 0.92 1.05 1.30	79 2,158 295 372 1,675 45 227 20 13 411	88 13	2,7	6 93 10 94 11 2	5,835 10 2,755 6 2,259 4,243	4.0 2.9 2.7 3.4 6.0 2.9 1.0 4.0 4.3	251 873 1,511 19,613 60 8,011 6 9,101 18,279	1,050	0.71 0.72 0.58 1.23 0.96 1.48	524 3,430 1,530 760 2,645 128 3,559 62 1,481 2,704	90 87	1.1 2.2 3.4 1.2 3.4 5.4 1.7 2.0 0.6	47 145 310 107 65 273  88 30 8
Clinton  Iowa  Jackson  Johnson  Jones  Linn  Muscatine  Scott  Adair  Adams	615 11,824 494 4,470 485 758 815 414 3,105 891	6.7 5.9	3,228 55,860 2,216 24,220 3,252 4,467 4,203 2,317 12,951 4,188	1,528 14 261 325 503	1.05 0.96 1.10 1.21 0.87 1.27	388 1,421 678 1,677 17 226 412 595 1,791 522	40 25 1	1.0	30 37 11 1 2	1,200 12,970 566 6,812 743 1,082 1,349 597 806 453	3.4 3.1 3.0 4.4 3.6 3.8 4.2 1.8 2.2	4,099 39,644 1,713 30,079 2,509 3,861 5,136 2,511 1,489 978	2,760 3,792 5,246 5,434 3,529 4,665 1,877 2,980 3,164 1,668	0.86 0.99 0.93 0.91 1.04 1.03 1.09 0.33	2,314 3,248 5,188 5,057 3,224 4,861 1,932 3,245 1,049	71 34 71 25 12 46 66 26	1.4 1.6 1.1 0.8 2.5 1.0 2.0 4.1	15 53 79 20 30 47 135 106
Cass. Fremont. Mills. Montgomery. Page. Pottawattamie Taylor Appanoose. Clarke. Decatur.	977 96 51 197 345 238 2,522 9,152 8,573 9,453	4.5 3.1 4.2 4.3 4.6 5.0 4.7 4.2 4.4 3.9	4,413 300 212 847 1,600 1,195 11,841 38,358 38,139 37,036	1,032 53 1,253 900 159 161 841 1,736	1.07 1.32 0.92 0.82 0.61 0.56 0.87 0.65	1,586 1,101 70 1,159 739 97 90 729 1,130 520	14 81 5 10 84 6	3.6 2.0 0.9 2.5	119 4 293 10 9 208 30 27 4	181 24 10 76 60 952 9,487 3,068 4,649	1.8 2.9 1.5 2.0 1.7 2.2 3.0 2.4 2.2	322 70 15 150 100 2,128 28,700 7,274 10,081	1,031 5,071 2,583 1,349	0.75 0.95 0.50 0.58 0.75 0.40 0.90 0.36	1,112 1,177 226 1,313 2,860 771 2,040 2,335 490 759	34 76 24 266 56 4 43	2.1 1.7 2.9 2.0 0.7	81 353 120 279 51 465 161 8 32

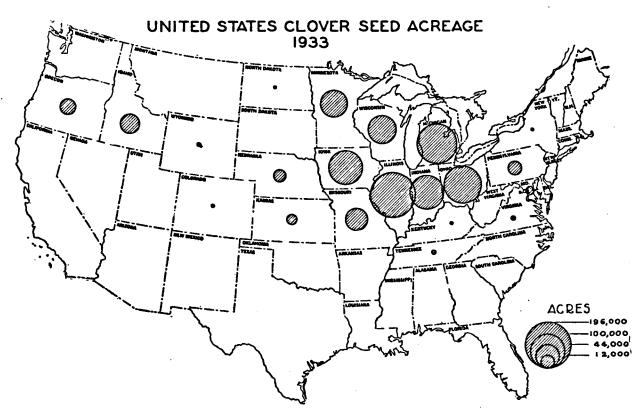


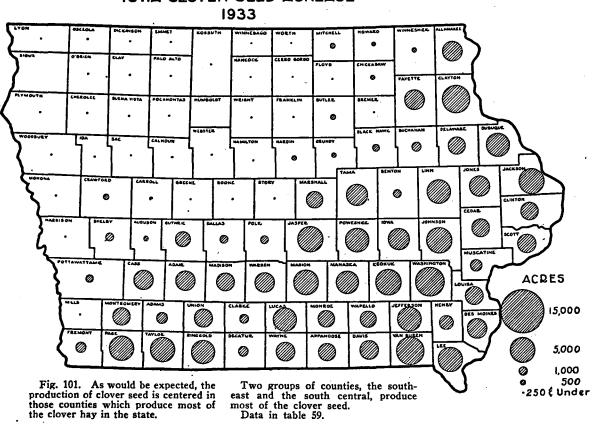
Fig. 100. The North Central States had a large proportion of the 1933 United States clover seed acreage of 1,096,000 acres.

Although the total amount of clover seed produced in Iowa is not as large as in some states, it is a large item in the United States total.

TABLE 59. IOWA'S SEED CROPS-1932-1933-Continued

					1932									1933				
County	T	imothy s	eed	C	lover se	eed	Swe	et clover	seed	n	mothy se	ed	C	lover se	ed	Swe	et clove	seed
County	Acres	Bush. per acre	Total bush.	Acres	Bush. per acre	Total bush.	Acres	Bush. per acre	Total bush.	Acres	Bush, per acre	Total bush.	Acres	Bush. per acre	Total bush.	Acres	Bush. per acre	Total bush.
Lucas Madison Marion Marion Monroe Ringgold Union Warren Wayne Davis Des Moines Des Moines	2,874 9,337 3,930 979 16,799	4.7 3.8 4.4 4.3	26,591 4,927 1,778 12,512 39,858 18,807 4,531 64,904 26,873 5,503	558 661 3,095 2,211 1,493	0.91 0.92 0.74 0.62 0.68 0.82 0.71 0.93	2,218 3,016 3,565 545 354 449 2,543 1,579 1,384 2,827	14 32 19 41 20 42	3.9 2.2 2.3 1.0 0.8 1.1 0.8 1.0	74 31 75 19 33 22 35 5	3,273 153 313 1,829 2,256 743 327 12,200 8,188 1,654	2.1 3.8	7,941 170 677 4,938 4,596 1,591 1,259 30,668 23,167 7,737		0.50 0.59 0.54 0.44 0.41 0.48 0.48	2,177 1,394 2,792 1,320 1,955 1,095 1,612 1,504 2,812 2,834	77 106 25 6	1.0	266 21 142  94 231 22 6
Henry Jefferson Keokuk Lee Louisa Mahaska Van Buren Wapello Washington	2,367 1,765 2,106 1,237	4.1 5.1 5.0 6.2 4.3	2,958 9,641 8,927 10,518 7,710 1,605 17,790 6,317 8,153	3,434 1,098 4,190 1,858 1,589	0.78 1.02 1.01 0.88 0.64 0.94 0.71	2,408 2,690 1,121 4,218 1,642 1,022 5,856 747 3,976	8			685 1,222 1,487 2,167 1,767 270 3,879 485 1,560	4.1 3.6 3.0 4.3 4.4 3.5 3.6 3.2 3.8	2,799 4,433 4,530 9,299 7,807 956 14,063 1,533 5,863	5,960 4,490 2,886 4,383 6,368	0.60 0.58 0.71 0.81 0.52 0.78 0.61	1,854 2,904 3,431 3,186 2,338 2,276 4,947 1,447 5,956	16 2 29 40 48	1.5 3.6 3.3	7 3 103 132 180
State total	166,148	4.5	749,496	77,767	0.87	67,981	5,685	2.5	13,936	127,051	3.1	394,048	190,459	0.75	142,688	9,389	3.0	28,069

### IOWA CLOVER SEED ACREAGE



AGRICULTURAL

ECONOMIC

ᅿ

ACTS

Districts and	1932	1933
counties	Pastures Total acreage	Pastures Total acreage
Northwest Buena Vista Cherokee Clay Dickinson Emmet Lyon O'Brien Osceola Palo Alto Plymouth Pocahontas Sioux For district	78,661 69,133 47,654 42,968 60,855 62,336 39,879 59,051 111,906	54,800 74,828 64,161 44,055 40,470 57,622 60,730 37,552 56,705 106,535 43,302 70,712
North Central Butler Cerro Gordo Floyd Franklin Hancock Humboldt Kosauth Mitchell Winnebago Worth Wright	67,553	84,685 76,305 68,107 71,145 63,194 36,451 91,056 64,857 46,197 53,571 56,759
Northeast Allamakee Black Hawk Bremer Buchanan Chickasaw Clayton Delaware Dubuque Fayette Howard Winneshiek For district	90,265 189,532 110,024 144,111	160,596 84,041 72,661 96,360 87,737 181,422 102,330 135,740 140,610 84,417 141,199
West Central Audubon Calhoun Carroll Crawford Greene Guthrie Harrison Ida Monona Sac Shelby Woodbury	64,777 116,927 90,256 53,226	74,481 45,717 73,210 114,255 61,330 112,402 94,866 49,830 98,737 60,883 79,988 95,929

For district.....

984,478

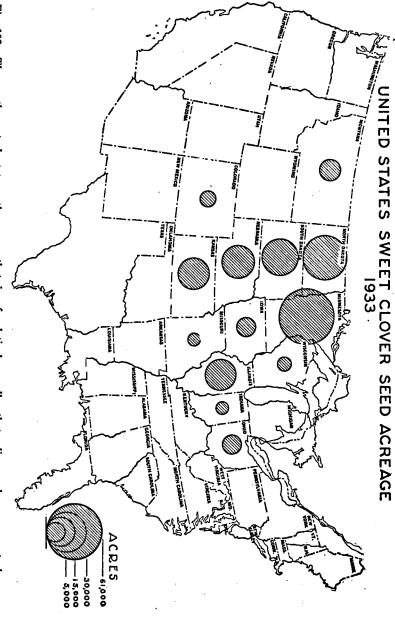
961,628

Fig. 102. The north central states the produced a large percentage of the imsweet clover seed in 1933. In that year the United States harvested 212,900 praces and 709,700 bushels of seed. Sweet clover seed production is another of we

the crops that is of relatively small importance in lows as a whole but is important in the sections where the production is concentrated.

Production is centered in the extreme west central part of the state, a section

that relies much upon sweet clover as a seed and pasture crop. On a less concentrated scale, production is scattered through the western third of the state.



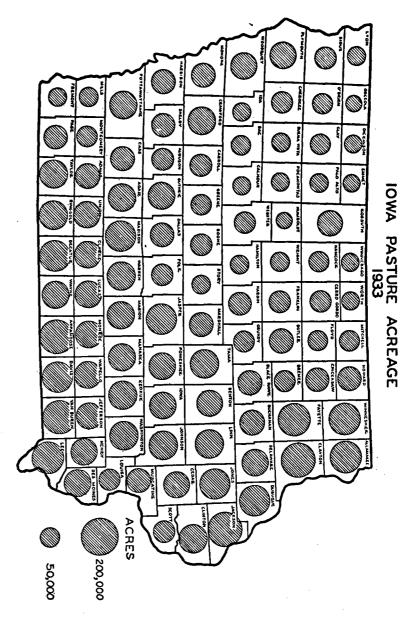


Fig. 103. In connection with the state's livestock program, pasture is very important in the Iowa production scheme. For the raising of dairy and beef cattle and sheep, pasture is essential.

The acreage pastured throughout

the state is pretty well distributed over the entire area. It is concentrated somewhat in the southern pasture area, although the dairy areas also report a considerable portion of land under pasture. The lightest areas are in the

northwest and north central counties.
Bluegrass, timothy, clover, sweet clover, red clover, and mixed combinations are the popular varieties of pasture raised in Iowa.

Data in table 60.

1	1	1
Central		
Boone	74,468 92,126 71,303	74,263
Dailas	92,126	91,383 69,732 59,261 74,320
Grundy Hamilton	71,303	09,732
Hardin	60,866	74 720
Issner	75,983 140,133	136,605
Jasper Marshall	88,893	85,021
Polk	78.567	76.640
Polk Poweshiek	78,567 114,945	109,812
	59.054	109,812 57,346 128,927 76,710
lama	132,851 79,933	128,927
Webster	79,933	76,710
For district	1,069,722	1,040,020
	}	
East Central		
Pantan	110 749	104 477
Benton	110,742 110,299	106,673 104,903
CedarClinton	135,529	128,544
Iowa	115,171	108,526
Jackson	193,087	185.565
Johnson	130,098	185,565 122,515
Jones	138.663	133.017
Linn	135.248	129.217
Muscatine	81,875 77,916	80,862 73,960
Scott	77,916	73,960
For district	1,228,628	1,174,384
5		
G		
Southwest	***	117 455
Adair	119,290	113,033
Adams	119,296 96,261 102,389	97,932
CassFremont	53 631	55,700
Mills	53,631 59,892	113,655 97,952 98,900 55,223 59,011 63,853 92,946 119,304 116,069
Montgomery	66 118	63 853
Page	95,621	92,946
Pottawattamie	128.312	119,304
Taylor	66,118 95,621 128,312 118,348	116,069
For district	839,866	816,913
South Central	454 050	150.010
Appanoose	154,258	150,049
Danetus	104,819	103,299
Decatur	144,780	142,828 112,209
Lucas	142 004	142,189
Marion	117 878	110 138
Monroe	117,878 117,878 135,728 129,249 105,715 129,388 123,517	119,138 129,218
Ringgold	129,249	126,829 104,256 126,420
Union	105.715	104,256
Warren	129.388	126,420
Wayne	123,517	119,319
For district	1,400,660	1,375,754
•		
C		
Southeast	447 700	*44 014
Davis	147,723	146,814
Des Moines	107 325	105 100
Henry	112 026	103,199
Jefferson	127,456	125,972
Lee	135.045	137,608
Louisa	147,723 91,162 107,325 113,936 127,456 135,045 78,499	92,542 105,199 108,590 125,972 137,608 75,119
Mahaska	115,412	112,348
Van Buren	161,208	112,348 156,233
Wapelio	104,200	104.723
Washington	115,412 161,208 104,200 119,271	121,361
The Atlanta	4 224 225	4 004 500

For district.....

For state.....

1,286,509

9,366,620

1,301,237 9,677,602

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Fig. 104.	
The	
bulk	
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bulk of the United	O CONTRACTOR OF THE PARTY OF TH
Minnesota, New York,	Tourson I tours
New	
York,	Internal Control of Co
Wisconsin,	
the yield was	
280 bushel	
the yield was 280 bushels per acre as	ACRES 334,000 100,000 15,000

Fig. 104. Ine bulk of the Onliced States potato production is found in the northern states along the Canadian border and the Great Lakes. Maine,

Minnesota, New York, Wisconsin, Pennsylvania and Michigan are the leading states. Growing conditions seem to be the best in Maine where

the yield was 280 bushels per acre as compared with 100.3 for the United States.

63

4,584

286,979

1932 1933 Bushels Bushels Districts and Total Total per per counties bushels bushels Acres Acres acre acre Northwest 55.752 Buena Vista.... 142 606 749 366 428 867 1,044 695 648 451 1,093 264 1,003 92 70 73,272 61,971 46,854 41,029 68,094 122,130 66,800 60,352 27,048 86,632 24,960 99,735 52,430 681 342 461 91 137 89 117 Cherokee . . . . . . 40,992 32,956 82,365 112 77 95 95 95 98 113 68 79 98 Dickinson..... 582 1,035 Emmet ..... 99,180 66,025 118 100 92 92 Lyon...... 668 656 294 952 O'Brien..... 63,504 50,963 74,324 Osceola..... Palo Alto..... 91 104 Plymouth..... 20,856 98,294 240 Pocahontas.... 915 109 Sioux..... 8,214 90 737.641 For district... 7,342 106. 778,877 North Central 779 644 534 853 2,184 1,262 1,110 1,372 458 546 524 49 48 73 38,171 30,912 Butler..... Cerro Gordo.... 602 63,210 47,421 107,010 105 99 123 94 80 145 87 132 38,982 52,886 479 870 62 129 100 125 Franklin..... 135,830 18,320 130,645 130,674 55,176 68,992 45,629 281,736 26,200 138,750 1.445 Hancock..... Humboldt..... 229 901 Kossuth..... 60 84 68 85 82,320 38,472 37,128 44,540 1,502 418 Mitchell . . . . . . Winnebago..... 704 443 98 103 Worth..... Wright ..... 87 8,282 106.1 878,697 9,266 810,097 For district... Northeast 85,767 70,966 832 65 Allamakee . . . . . 759 518 113 832 454 722 370 296 1,290 584 1,604 965 358 22,700 50,540 16,280 10,952 137 145 50 70 44 37 58 45 50 61 42 53 Black Hawk.... 109,910 758 Bremer . . . . . . . 118 80 99 115 78 120 109,910 48,852 26,720 129,393 61,870 111,462 102,840 28,728 70,080 Buchanan..... 334 1,307 538 Chickasaw . . . . . 74,820 Clayton..... 26,280 80,200 58,865 15,036 Delaware..... 1,429 Dubuque..... 857 Fayette..... Howard...... Winneshiek.... 342 730 84 96 770 40,810 7,986 106.0 846,588 8,245 55 450,563 For district ... West Central 40,590 456 89 40,584 495 Audubon..... 40,584 18,306, 121,588 83,930 23,345 24,725 53,424 31,280 63,506 55,250 100,296 120,480 120 1,094 905 166 304 680 454 709 713 162 1,076 113 113 102 107 57 127 19,380 117,058 Calhoun . . . . . . Carroll..... Crawford..... 51,585 763 161 110 145 115 21,082 Greene . . . . . . . 65 47 71 19,760 31,960 32,234 215 Guthrie..... 504 368 562 106 85 113 85 Harrison..... Ida..... 64 104 45,376 Monona..... 74,152 52,514 61,600 Sac.... Shelby..... Woodbury.... 650 847 1,400 62 44 .126 96 71 567,291 For district... 6,968 105.7 736,714 7,957 Central 21,293 19,928 114,559 45,474 54,438 19,188 39,349 36,050 8,906 61 199 107 146 Boone..... 9,945 68,688 39,312 188 106 195 954 468 413 147 423 415 289 120 51 72 Dallas ..... 1,051 109 Grundy..... 106 129 123 84 59 50 58 Hamilton..... 24,367 7,350 Hardin . . . . . . . . . 422 156 361 24,534 17,430 15,317 5,400 40,474 109 103 42 53 45 59 Polk..... Poweshiek..... 37,440 8,858 69,984 288 130 103 Story..... 86 729 96 95 Tama..... 328 25,256 Webster ..... 19,950 77

108.9

4,469

486,511

For district....

### IOWA POTATO ACREAGE

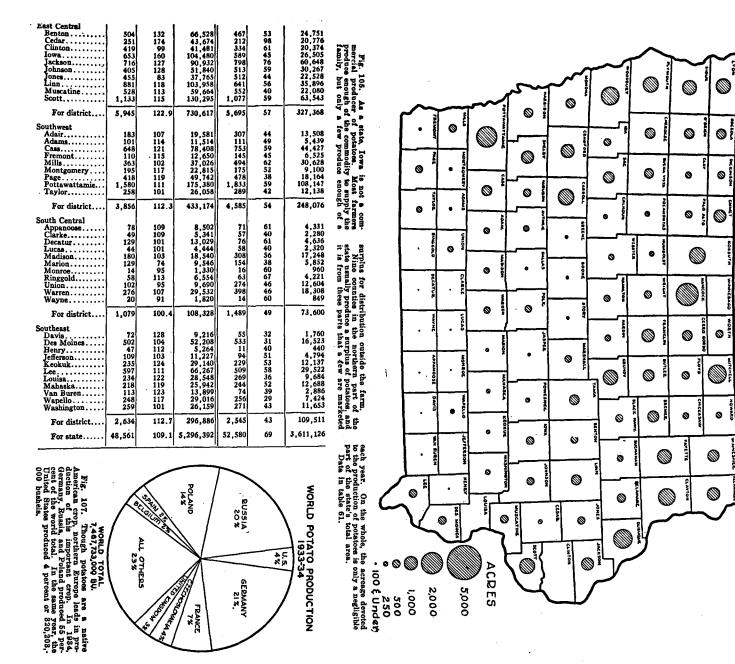
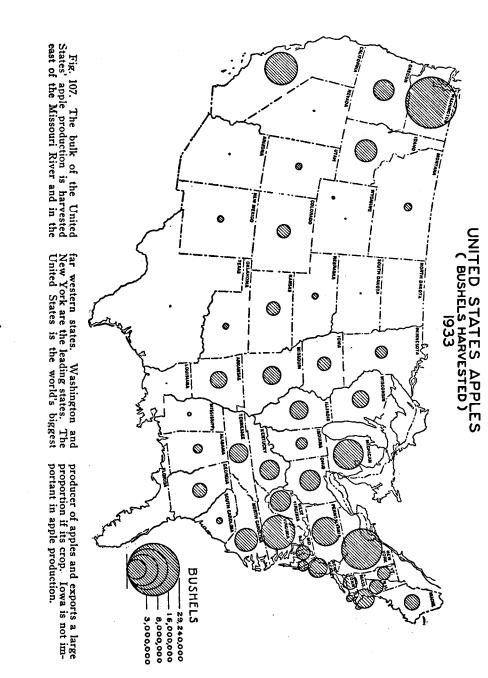


TABLE 62. IOWA APPLES.

Districts and counties	TABLE 02.						
counties         Total bushels harvested         Total bushels harvested           Northwest         160         202           Cherokee.         2,028         112           Clay.         4,625         199           Dickinson.         1,059         776           Emmet         329         265           Lyon.         2,686         457           O'Brien.         4,277         2,369           Oscola.         2,871         339           Palo Alto.         1,118         284           Plymouth.         2,273         1,765           Pocahontas.         90         6           Sioux.         2,848         241           For district.         24,364         7,015           North Central         1,578         1,738           Cerro Gordo.         260         3,701           Floyd.         252         139           Franklin.         802         886           Hancock.         707         1,865           Humboldt.         1,045         5,39           Kossuth.         1,049         2,107           Mirchell.         510         737           Winnebago.	Districts and	1932	1933				
Buena Vista			Total bushels harvested				
Cherokee. 2,028 Clay 4,625 Clay 4,625 Clay 1,059 Dickinson 1,059 Trobe fammet 329 265 Lyon 2,686 457 O'Brien 4,277 2,369 Oscola 2,871 Palo Alto 1,118 Palo Alto 1,118 Palo Alto 2,273 Pocahontas 90 6 Fordistrict 24,364 For district 24,364  For district 24,364  For district 24,364  For district 24,364  For district 24,364  For district 3,578 Franklin 802 Franklin 802 Franklin 802 Franklin 1,045 Humboldt 1,045 H	Northwest						
Clay 4,625 199 Dickinson 1,059 776 Emmet 329 265 Lyon 2,686 457 O'Brien 4,277 2,369 O'Scrola 2,871 339 Palo Alto 1,118 284 Plymouth 2,273 1,765 Pocahontas 90 6 Sioux 2,848 241  For district 24,364 7,015  North Central 1,578 1,738 Cerro Gordo 260 3,701 Floyd 252 139 Franklin 802 886 Hancock 707 1,865 Hancock 707 1,865 Humboldt 1,045 539 Kossuth 1,649 2,107 Mitchell 510 737 Mitchell 510 737 Mitchell 5250 2 For district 8,042 14,592  Northeast Allamakee 3,067 987 Black Hawk 3,536 1,949 Bremer 3,784 1,859 Buchanan 4,276 1,867 Chickasaw 1,217 356 Clayton 7,509 2,901 Delaware 8,792 1,879 Dubuque 12,263 4,076 Fayette 5,832 2,851 Howard 700 326 Winneshiek 8,544 1,675 For district 59,580 20,726  West Central Audubon 2,788 2,557 Calhoun 354 313 Carroll 395 180	Buena Vista	160					
Dickinson		4.625					
Lyon	Dickinson	1,059					
O'Brien.         4,277         2,369           Oscola.         2,871         339           Palo Alto.         1,118         284           Plymouth.         2,273         1,765           Pocabontas.         90         6           Sioux.         2,848         241           For district.         24,364         7,015           North Central         1,578         1,738           Butler.         1,578         1,738           Cerro Gordo.         260         3,701           Franklin.         802         886           Hancock.         707         1,865           Humboldt.         1,045         539           Kossuth.         1,649         2,107           Mitchell.         510         737           Winnebago.         238         1,498           Worth.         751         1,380           Worght.         250         2           For district.         8,042         14,592           Northeast         Allamakee.         3,067         987           Black Hawk.         3,536         1,949           Bremer.         3,784         1,859           Buch							
Oscola         2,871         339           Palo Alto         1,118         284           Plymouth         2,273         1,765           Pocahontas         90         6           Sioux         2,848         241           For district         24,364         7,015           North Central         1,578         1,738           Butler         1,578         1,738           Cero Gordo         260         3,701           Floyd         252         139           Franklin         802         886           Hancock         707         1,865           Humboldt         1,045         5,39           Kossuth         1,649         2,107           Mitchell         510         737           Winnebago         238         1,498           Worth         751         1,380           Wright         250         2           For district         8,042         14,592           Northeast         Allamakee         3,067         987           Black Hawk         3,536         1,949           Bremer         3,784         1,859           Buchana		4.277					
Plymouth 2,273 1,765 Pocahontas 90 6 Sioux 2,848 241  For district 24,364 7,015  North Central Butler 1,578 1,738 Cerro Gordo 260 3,701 Floyd 252 139 Franklin 802 886 Hancock 707 1,865 Kossuth 1,649 2,107 Mitchell 510 737 Winnebago 238 1,498 Worth 751 1,380 Worth 751 1,380 Worth 8,042 14,592  For district 8,042 14,592  Northeast Allamakee 3,067 987 Black Hawk 3,536 1,949 Bremer 3,784 1,859 Buchanan 4,276 1,867 Chickasaw 1,217 356 Clayton 7,559 2,901 Chickasaw 1,217 356 Clayton 7,559 2,901 Delaware 8,792 1,879 Dubuque 12,263 4,076 Fayette 5,832 2,851 Howard 700 326 Winneshiek 8,544 1,675  For district 59,580 20,726  West Central Audubon 2,788 2,557 Calhoun 354 313 Carroll 395 180	Osceola	2,871	339				
Pocahontas.         90         6           Sioux         2,848         241           For district         24,364         7,015           North Central Butler         1,578         1,738           Cerro Gordo         260         3,701           Floyd         252         139           Franklin         802         886           Hancock         707         1,865           Humboldt         1,045         5.39           Kossuth         1,649         2,107           Mitchell         510         737           Winnebago         238         1,498           Worth         751         1,380           Wright         250         2           For district         8,042         14,592           Northeast         Allamakee         3,676         987           Allamakee         3,536         1,949           Bremer         3,784         1,859           Buchanan         4,276         1,867           Chickasaw         1,217         336           Clayton         7,559         2,901           Delaware         8,792         1,879           Dubuque	Palo Alto	1,118	284				
Sioux	Pocabontas	2,2/3					
North Central   Butler	Sioux		241				
Butler         1,578         1,738           Cerro Gordo         260         3,701           Floyd         252         139           Franklin         802         886           Hancock         707         1,865           Humboldt         1,045         5,39           Kossuth         1,649         2,107           Mitchell         510         737           Winnebago         238         1,498           Worth         751         1,380           Wright         250         2           For district         8,042         14,592           Northeast         3,067         987           Allamakee         3,536         1,949           Bremer         3,784         1,859           Buchanan         4,276         1,867           Chickasaw         1,217         356           Clayton         7,569         2,901           Delaware         8,792         1,879           Dubuque         12,263         4,076           Fayette         5,832         2,851           Howard         700         336           Winneshiek         8,544         1,675	For district	24,364	7,015				
Cerro Gordo         260         3,701           Floyd         252         139           Franklin         802         886           Hancock         707         1,865           Humboldt         1,045         539           Kossuth         1,649         2,107           Mitchell         510         737           Winnebago         238         1,498           Worth         751         1,380           Wright         250         2           For district         8,042         14,592           Northeast         Allamakee         3,067         987           Black Hawk         3,536         1,949           Bremer         3,784         1,859           Buchanan         4,276         1,867           Chickasaw         1,217         356           Clayton         7,559         2,901           Delaware         8,792         1,879           Dubuque         12,263         4,076           Fayette         5,832         2,851           Howard         700         326           Winneshiek         8,544         1,675           For district         5							
Floyd. 252 139 Franklin 802 886 Hancock 707 1,865 Humboldt 1,045 5,59 Kossuth 1,649 2,107 Mitchell 510 737 Winnebago 238 1,498 Worth 751 1,380 Wright 250 2  For district 8,042 14,592  Northeast Allamakee 3,067 987 Black Hawk 3,536 1,949 Bremer 3,784 1,859 Buchanan 4,276 1,867 Chickasaw 1,217 356 Clayton 7,569 2,901 Chickasaw 1,217 356 Clayton 7,569 2,901 Delaware 8,792 1,879 Dubuque 12,263 4,076 Fayette 5,832 2,851 Howard 700 326 Winneshiek 8,544 1,675 For district 59,580 20,726  West Central Audubon 2,788 2,557 Calhoun 354 313 Carroll 395 180	Butler	1,578	1,738				
Franklin         802         886           Hancock         707         1,865           Humboldt         1,045         539           Kossuth         1,649         2,107           Mitchell         510         737           Worth         751         1,380           Worth         751         1,380           Wright         250         2           For district         8,042         14,592           Northeast         Allamakee         3,067         987           Black Hawk         3,536         1,949           Bremer         3,784         1,859           Buchanan         4,276         1,867           Chickasaw         1,217         356           Clayton         7,559         2,901           Delaware         8,792         1,879           Dubuque         12,263         4,076           Fayette         5,832         2,851           Howard         700         326           Winneshiek         8,544         1,675           For district         59,580         20,726           West Central         2,788         2,557           Calhoun			139				
Hancock         707         1,865           Humboldt         1,045         539           Kossuth         1,649         2,107           Mitchell         510         737           Winnebago         238         1,498           Worth         751         1,380           Worght         250         2           For district         8,042         14,592           Northeast         Allamake         3,067         987           Black Hawk         3,536         1,949           Bremer         3,784         1,859           Buchanan         4,276         1,867           Chickasaw         1,217         356           Clayton         7,559         2,901           Delaware         8,792         1,879           Dubuque         12,263         4,076           Fayette         5,832         2,851           Howard         700         326           Winneshiek         8,544         1,675           For district         59,580         20,726           West Central         Audubon         2,788         2,557           Calhoun         334         313         Carroll <td>Franklin</td> <td>802</td> <td>886</td>	Franklin	802	886				
Kossuth	Hancock						
Winnebago         238         1,498           Worth         751         1,380           Wright         250         2           For district         8,042         14,592           Northeast           Allamakee         3,067         987           Black Hawk         3,536         1,949           Bremer         3,784         1,859           Buchanan         4,276         1,867           Chickasaw         1,217         356           Clayton         7,569         2,901           Delaware         8,792         1,879           Dubuque         12,263         4,076           Fayette         5,832         2,851           Howard         700         326           Winneshiek         8,544         1,675           For district         59,580         20,726           West Central         2,788         2,557           Calhoun         334         313           Carroll         395         180	Kossuth	1,649	2,107				
Worth         751         1,380           Wright         250         2           For district         8,042         14,592           Northeast         14,592           Allamakee         3,067         987           Black Hawk         3,536         1,949           Bremer         3,784         1,859           Buchanan         4,276         1,867           Chickasaw         1,217         356           Clayton         7,559         2,901           Delaware         8,792         1,879           Dubuque         12,263         4,076           Fayette         5,832         2,851           Howard         700         326           Winneshiek         8,544         1,675           For district         59,580         20,726           West Central         2,788         2,557           Calhoun         354         313           Carroll         395         180	Mitchell	510	737				
Wright         250         2           For district         8,042         14,592           Northeast         Allamakee         3,067         987           Black Hawk         3,536         1,949           Bremer         3,784         1,859           Buchanan         4,276         1,867           Chickasaw         1,217         356           Clayton         7,559         2,901           Delaware         8,792         1,879           Dubuque         12,263         4,076           Fayette         5,832         2,851           Howard         700         326           Winneshiek         8,544         1,675           For district         59,580         20,726           West Central         2,788         2,557           Calhoun         354         313           Carroll         395         180	Winnebago	238					
For district 8,042 14,592  Northeast 3,067 987  Allamakee 3,536 1,949  Bremer 3,784 1,859  Buchanan 4,276 1,867  Chickasaw 1,217 356  Clayton 7,569 2,901  Delaware 8,792 1,879  Dubuque 12,263 4,076  Fayette 5,832 2,851  Howard 700 326  Winneshiek 8,544 1,675  For district 59,580 20,726  West Central Audubon 2,788 2,557  Calhoun 354 313  Carroll 395 180	Wright	250					
Allamakee 3,067 987 Black Hawk 3,536 1,949 Bremer 3,784 1,859 Buchanan 4,276 1,867 Chickasaw 1,217 356 Clayton 7,559 2,901 Delaware 8,792 1,879 Dubuque 12,263 4,076 Fayette 5,832 2,851 Howard 700 326 Winneshiek 8,544 1,675 For district 59,580 20,726  West Central Audubon 2,788 2,557 Calhoun 334 313 Carroll 395 180	• •		14,592				
Allamakee 3,067 987 Black Hawk 3,536 1,949 Bremer 3,784 1,859 Buchanan 4,276 1,867 Chickasaw 1,217 356 Clayton 7,559 2,901 Delaware 8,792 1,879 Dubuque 12,263 4,076 Fayette 5,832 2,851 Howard 700 326 Winneshiek 8,544 1,675 For district 59,580 20,726  West Central Audubon 2,788 2,557 Calhoun 334 313 Carroll 395 180	Northeast						
Chickasaw         1,217         356           Clayton         7,569         2,901           Delaware         8,792         1,879           Dubuque         12,263         4,076           Fayette         5,832         2,851           Howard         700         326           Winneshiek         8,544         1,675           For district         59,580         20,726           West Central         2,788         2,557           Calhoun         354         313           Carroll         395         180	Allamakee	3,067					
Chickasaw         1,217         356           Clayton         7,569         2,901           Delaware         8,792         1,879           Dubuque         12,263         4,076           Fayette         5,832         2,851           Howard         700         326           Winneshiek         8,544         1,675           For district         59,580         20,726           West Central         2,788         2,557           Calhoun         354         313           Carroll         395         180	Black Hawk	3,536	1,949				
Chickasaw         1,217         356           Clayton         7,569         2,901           Delaware         8,792         1,879           Dubuque         12,263         4,076           Fayette         5,832         2,851           Howard         700         326           Winneshiek         8,544         1,675           For district         59,580         20,726           West Central         2,788         2,557           Calhoun         354         313           Carroll         395         180	Buchanan	4.276	1.867				
Fayette	Chickasaw	1 217	356				
Fayette	Clayton	7,569	2,901				
Fayette	Dubuque	12.263	4.076				
Howard         700         326           Winneshiek         8,544         1,675           For district         59,580         20,726           West Central         2,788         2,557           Calhoun         354         313           Carroll         395         180	Favette	3,032	2,851				
For district	Howard	700	326				
West Central Audubon							
Audubon 2,788 2,557 Calhoun 354 313 Carroll 395 180	i						
Calhoun         354         313           Carroll         395         180	Audubon	2,788	2,557				
	Calhoun	354	313				
	Crawford						
Greene 95 116	Greene	05	116				
Guthrie	Guthrie	593	1,706				
Harrison 48,753 36,951 1da 734 246		48,753 734	30,951				
Monona	Monona	1,695					
Sac 76	Sac		76				
Shelby	Shelby						
	-						
For district 64,822 46,736	For district	64,822	1 46,736				



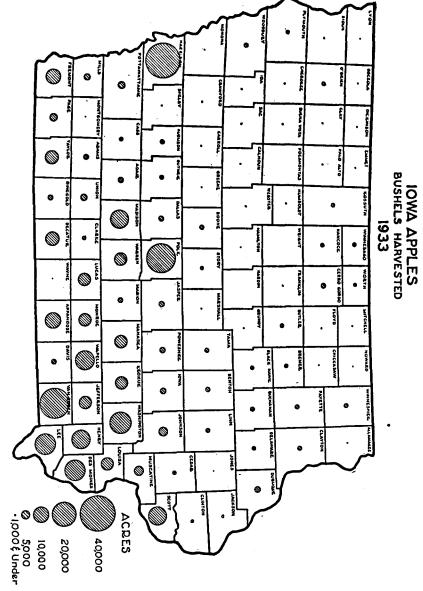


Fig. 108. Apple production in Iowa is not an important factor in the production set-up of the state, but in the areas surrounding the larger cities of

Iowa, the production is of commercial importance.

The map shows that most of the apples are produced in eastern and south-

ern areas where the climate and soil are better adapted to fruit production than in the northern and western areas. Data in table 62.

Central		
Boone	3,232	2,329
Dallas	5,067	4,092
Grundy	1,105	914
Hamilton	1,662	960
Hardin	2,293 6,079	2,807
Jasper Marshall	2,461	3,026 932
Polk	3,461 45,891	24 206
Poweshiek	2 407	24,386
Story	3,497 3,774	3,164
Tama	5,455	1,330
Webster	5,455 1,912	1,536 1,773 299
For district	83,428	46,218
F4 C4- 1		
East Central		
Benton	9,241	3,592
Cedar	3,334 2,093	2,505
Clinton	2,093	1,323 5,789
Jackson	6,665	3,709
Johnson	5,310 7,261 1,905	1,873 7 840
Jones	1.905	572
Linn	9.5//	7,840 572 2,722
Muscatine	5,016	8,577
Scott	11,025	11,332
For district	61,527	46,125
Southwest		
	1,836	2 102
AdairAdams	229	3,102 2,916
Cass.	850	1,677
Fremont	16,801	10,360
Willis	2.834	10,360 4,711 764
Montgomery	186	764
Page	2,424	6,408
Pottawattamie	2,468	5.215
Taylor	1,696	8,136
For district	20. 224	42 200
For district	29,32 <del>4</del>	43,289
South Central		
Annanose	901	10,707
Clarke	1.021	1.838
Decarur	3.021	9,077 7,270 13,391
Lucas	E 470	7,270
Madison	14,546 5,221 3,369	13,391
Marion Monroe Ringgold	5,221	3,072 7,188 2,826
Monroe	3,369	7,188
Kinggold	9//	2,826
Union	667	5,564 8,244
Warren Wayne	14,903 50	8,244 1,046
wayne	30	1,040
For district	49,854	70,223
.*	,	
Southeast	000	2 (02
Davis	298	3,023
Des Moines	6,892	3,623 15,265 12,268
Henry	3,699	12,208
Jefferson Keokuk	1,018 3,928	6,626 8,538 14,987
Lee	6,571	14 987
Louisa	3.510	8,458
Mahaska	3,510 5,524	8.719
Van Buren	30.065	27,625
Wapello	7,689	27,625 13,255
Washington	7,689 8,939	17,756
For district	78,133	137,120

For state.....

459,074

432,044

### CHAPTER IV. IOWA FARM REAL ESTATE

I OWA is unsurpassed by any state in the quality and extent of cultivated land. It presents mainly a friable black loam. It is easily tiled where necessary, is in the main free from stumps and stones, and requires little commercial fertilizer. It has two main types of soil; the glacial drift or iceformed and the loess or wind-blown. There is relatively little waste land in the state.

With remarkable fertility and a steady and sufficient rainfall, the state has for many years been among the first in value of products derived exclusively from the soil.

The total number of farms in the state in 1935 was 221,986 as compared with 214,928 in 1930, an increase in 5 years of 7,058. The number of farms increased probably because many families lost their means of support during the depression and moved to small acreages around the cities.

There was a slight increase from 1925 to 1935 in the acreage in farms. In 1935 the total acreage in farms was 34,019,332, while in 1925 it was 33,280,813. About 96 percent of the total area of Iowa is in farms, and about 79 percent of the area in farms is in land available for crops. The average acreage per farm in 1935 was 154.8 acres.

Only 39.2 percent of Iowa's farms were being operated by full owners in January 1935, 10.5 by part owners and, with the exception of a few being operated by professional farm managers, all the rest were in the hands of tenants.

### Ownership of the Land

Although individuals still own 89.9 percent of the farm land in Iowa, the acquiring of land by corporations is important. Corporateowned land represents ownership tragedies. It means, in most cases, that some individual was unable to meet interest and principal payments and lost the land. Prior to 1929 the acreage owned by corporations was negligible. In 6 years corporations have acquired about 10 percent of the land in Iowa. In other words, out of the 99 counties in Iowa, the

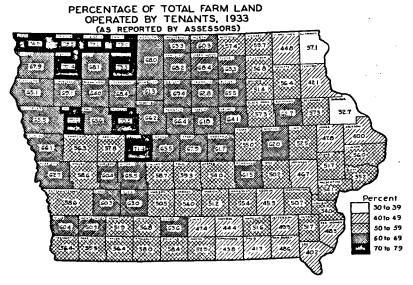


Fig. 109 shows the variations in the different counties in tenancy in Iowa. Emmet County with 75 percent tenancy in 1933 was highest. Dubuque County with 33 percent tenancy had the lowest.

Source: Iowa Agr. Exp. Sta. Bull. No. 328, W. G. Murray and W. O. Brown.

equivalent of 10 of them, as of Jan. 1, 1935, were owned by corporations.

Of particular interest is the temporary character of corporate ownership. Since the main business of lending companies is insurance, banking and making farm loans, the farms they have acquired represent a side issue. It is reasonable to expect, therefore, that these companies will be interested in selling their farms rather than operating them.

While 10 percent of the land is corporate-owned, there is a striking lack of uniformity in the location of the holdings. In fig. 112, which shows the percentage of each township in the state, three areas of heavy concentration are evident. One is the south central part of the state, another is in north central Iowa, and the third a small area in western Iowa.

Numerous reasons can be advanced for the unusually large corporate holdings in some areas and the comparative absence of holdings in others. Of first importance, in all probability, is the tendency of loan agencies to overvalue and overloan on the less productive land and to undervalue and loan conservatively

on the more productive land. Another reason accounting for the location of corporate holdings is that in some sections the corporations

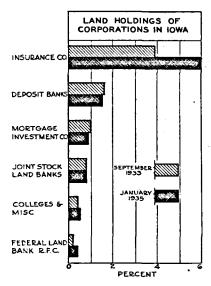


Fig. 110. Insurance companies have acquired large blocks of farm land in Iowa since September, 1933, when their holdings were already high. Other types of corporations have not changed their holdings much.

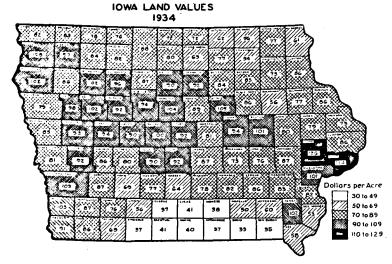


Fig. 111. As can be seen on the map, Cedar County had the highest average land value in 1934. Land values varied considerably from county to county but generally the lowest values were found in the southern part of Iowa. Data in table 68.

loaned less than in other sections. Among other factors which account for the variations in corporate holdings are unusually heavy or light taxes. Where heavy taxes have been levied, corporate holdings have tended to be larger.

Insurance companies rank first among the corporate groups holding Iowa farm land. On Jan. 1, 1935, they held over half of the corporateowned land. Deposit banks are second largest in land holdings.

### Land Values and Cash Rentals

The trends of land values and cash rentals in Iowa for the years 1912-1934 are shown in fig. 117.

Land values and cash rentals both moved steadily upward from 1912 to 1919, increasing at an average rate of about 10 percent each year. In other words, during these years the rise in the value of land alone was equivalent to 10 percent annual income on the investment. From 1919 to 1920 the per acre value rose from \$192 to \$255, an increase of 33 percent. This was during the period of the boom.

During 1921 values dropped 10 percent and in the following year, 1922, they dropped 17 percent. From then to 1929 land values de-

clined at the rate of about 5½ percent per year. The year 1929 marked the end of the first post-war period of land value liquidation.

There were probably many landowners in 1929 who preferred to accept a low rate of return on their farm investment rather than offer their farms for sale at the level of the opportuniti

In late 1929 products again turned and this decline was reflect other considerable drop in latues in 1930. In 1931 the pr farm products fell even mor in 1930, and this again resulted in a drop in land values. In 1932 and 1933 the prices of farm products continued their descent, and land values moved downward with them.

In 1934 land values are reported at \$80 per acre as compared with \$65 in 1933. This rise over 1933 values may be attributed to the higher farm products prices of late 1933 and early 1934. But it may also be partly due to the fact that owners of farm land did not then value their money at as high a rate as before, since the rate of return on alternative investments was down. Interest rates have gone down in the last few years and farm owners know that they can-

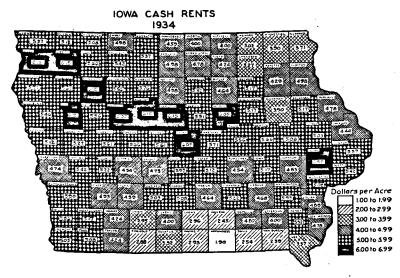


Fig. 112. Cedar County had the highest cash rentals in Iowa in 1934. In general, the lowest rents were paid in the southern part of Iowa.

Data in table 68.

### AGRICULTURAL ECONOMIC FACTS

TABLE 63. NUMBER, VALUE, ACREAGE AND USE OF IOWA FARMS, 1935.

ال ال		1				1	1	ī		<del>_</del>
A is unst	Number of farms	Full owners	Operated Part owners	Managers	Tenants	Total value of farms	Average value	Value per acre	Acres in farms	Average acreage per farr
cultivat/		86,951	23,301	1,583	110,151	\$2,462,312,600	\$11,092	\$71.66	34,359,152	154.8
stones, r	2,182	792	220	14	1,156	\$20,735,646	\$9,503	57.78	358,856	164.5
iled	1,637	664	183	9	781	15.474 315	9,453	58.85	262,966	160.6
in	2,128 2,304	1,084 1,031	269 322	12 12	763 939	14,529,729 9,265,128	6,828 4,021	38.81 28.97	374,392 319,861	175.9 138.8
stones, r	1,879 2,680	696	162	9 9	1,012	22,498,825 39,331,684 27,564,624	11,974	79.70	282,293	150.2
cial fek	2,465	924 995	341 237	23 17	1,392 1,216	27,564,624	14,676 11,182	88.19 81.34	445,992 338,878	166.4 137.5
types ·····	2,567 2,090	914 928	338 199	27 9	1,288 954	31,388,508 20,952,775	11,182 12,228 10,025	90.85 77.83	345,502 269,205	134.6
forsnan	2,435	826	225	21	1,363	20,180,253	8,288	57.03	353,850	128.8 145.3
Liena Vista	2,179	721	230	17	1,211	34,436,441	15,804	95.23	361,611	166.0
dutler	2,277 2,174	715 756	238	11	1,313	23,925,702	10,508	67.65	353,672	155.3
Carroll	2,152	850	241 201	13 16	1,164 1,085	35,091,266 35,388,648	16,141 16,445	98.48 99.16	356,342 356,888	163.9 165.8
Cass	2,243 2,264	859 942	217 166	17 21	1,150 1,135	25,848,842 30,812,178	16,445 11,524 13,610	73.82 87.83	350,174 350,800	156.1 154.9
Cerro Gordo	2,048	623	185	23 18	1,217	23 871 255	11,656	68.51	348,436	170.1
Cedar. Cerro Gordo. Cherokee. Chickasaw. Clarke.	1,903 2,105	553 822	171 298	18	1,161 978	32,599,999 15,527,103	17,131 7,376	89.94 49.98	362,476 310,68 <del>1</del>	190.5 147.6
Clarke	1,556	561	127	11	857	9,685,271	6,224	36.62	264,459	170.0
Clay	1,790	545	202	14	1,029	29,255,886	16,344	84.78	345,095	192.8
Clayton Clinton Crawford	3,058 2,802	1,605 1,291	313 197	20 32	1,120 1,282	28,913,879 31,055,053	9,455 11,083	62.33 74.45	463,850 417,151	151.7 148.9
Crawford	2,595	1,014	264	8	1,309	33.921.455	13,072	75.84	447,260	172.4
Dallas	2,468 1,978	956 935	288 253	15 23	1,209 767	30,737,815 9,291,200	12,455 4,697	83.98 30.18	366,013 307,876	148.3 156.7
Davis	2,088 2,345	777 920	201 186	18 16	1,092	10.731.083	5,139	32.27 62.92	332,549	159.3
Des Moines	1,894	914	266	16	1,223 698	22,143,197 15,918,059	9,443 8,404	64.73	351,921 245,913 234,877	150.1 129.8
Dickinson	1,290	338	124	17	811	16,221,785	12,575	69.07	234,877	182.1
Dubuque	2,482	1,396	279	. 15	792	24,644,469	9,929	67.40	365,630	147.3
EmmetFayette	1,315 3,195	368 1,265	106 385	15 9	826 1,536	17,583,131 23,776,093	13,371 7,442	71.52 52.93	245,861 449,222	187.0 140.6
Fayette Floyd Franklin	1,954 2,154	725 730	259 206	17 18	953 1,200	18,321,089	9,376	59.51 82.72	307,851	157.5
Premont	1,871	844	216	23	788	30,028,424 25,631,645 32,803,948	13,941 13,699	82.34	363,015 311,286	168.5 166.4
GreeneGrundy	2,127 1,826	625 692	229 149	9 11	1,264 974	32,803,948 28,215,536	15,423 15,452	91.98 89.09	356,653 316,725	167.7 173.5
Grundy Guthrie Hamilton.	2,524	1,022 798	227	16	1,257	22,696,923	8,992	61.33	370,053	146.6
	2,263		219	20	1,226	32,027,670	14,153	88.17	363,229	160.5
Hancock Hardin	2,035 2,239	660 820	175 188	9 12	1,191 1,219	28,118,064 29,833,678	13,817	79.60 85.02	353,263 350,908	173.6
Harrison il	2,942	1,037	278	9 [	1,618	29,911,319 19,197,460	13,325 10,167	69.99	427,344	156.7 145.3
Henry Howard Humboldt	2,060 1,775	894 649	248 253	21 14	897 - 859	19,197,460 14,266,077	9,319 8,037	73.49 48.62	261,228 293,422	126.8 165.3
HumboldtIda	1,533	552 400	165	17	799	24,203,061	15,788	87.68	276,029	180.1
Iowa	1,453 2,247	925	93 250	10 27	950 1,045	22,556,823 22,669,764	15,524 10,089	82.47 61.75	273,499 367,146	188.2 163.4
Jackson	2,208 3,125	1,312 1,273	150 310	8 26	738 1,516	17,940,697 30,058,859	8,125 9,619	47.23 66.37	379,873 452,885	172.0
ll l	-				-					144.9
Jefferson Johnson	1,898 2,566	841 1,239	232 323	15 17	810 987	13,479,323 26,307,771	7,102 10,252	51.35 71.56	262,504 367,644	138.3 143.3
Jones Keokuk	2,222 2,703	1,011 1,203	180 397	24 17	1,007 1,086	24,181,114	10,883	69.27 59.36	349,072	157.1
Kossuth.	3,153	895	314	25	1,919	21,286,060 51,016,475	7,875 16,180	84.47	358,590 603,983	132.7 191.6
	2,186 3,848	1,262 2,127	311 354	10 21	603 1,346	14,981,497 35,269,462	6,853 9,166	50.56 83.27	296,338 423,576	135 6 110 1
Lucas.	1,460	536	159	9	756	13,260,789	9,083	56.88	233,156	159.7
Lyon	1,730 1,885	703 511	274 94	13 12	740 1,268	9,127,675 31,124,710	5,276 16,512	34.52 85.44	264,380 364,282	152.8 193.3
Madison	2,238	862	274	7	1,095	18,739,233	8,373	54.09	346,468	154.8
Mahacka	2,853	1,181	270	17	1,385	23,431,473	8,213	66.71	351,254	123.1
Marion	2,476 2,401	1,001 873	276 242	15 22	1,184 1,264	17,125,197 29,177,105	6,916 12,152	49.38 81.70	346,771 357,113	140.1 148.7
Mills	1,663	656	165	13	829	23,101,786	13,892	87.26	264,758	159.2
Monona,	2,182	704	253 239	32	1,207	19,219,574 27,373,323	12,545	65.62	417,119	100.1
Monroe Montgomery	1,768 1,677	862 607	220 <sup>-</sup> 146	6 19	680 905	7,976,092 21,824,564	4,511 13,014	30.44 82.41	262,059 264,830	148.2 157.9
Muscatine	1,852	740	182	iš	912	18,300,804	9,882	72.86	251,192	135.6
O'Brien	2,006	612	192	6	1,196	34,785,030	17,340	98.27	353,961	176.5
Osceola Page	1,317 2,299	328 920	101	7	881	20,110,791	15,270	80.03	251,306	190.8
Palo Alto	1.947	561	270 169	17 12	1,092 1,205	27,817,043 25,556,296	12,100 13,126	81.84 72.35	339,876 353,228	147.8 181.4
PlymouthPocahontas	2,881 2,094	922 650	314 204	12 9	1,633 1,231	43,191,944 36,044,474	14,992 17,213	80.02 99,24	353,228 539,772 363,198	187.4 173.4
Polk	3,351	1,545	370	26	1,410	31,234,152	9,321	94.64	330,018	98.5
Pottawattamie	4,205 2,263	1,754 905	437 218	39 18	1,975 1,122	54,375,800 24,726,144	12,931 10,926	92.74 68.66	586,294 360,146	139.4 159.1
Ringgold	2,033	677	257	13	1,086	12,567,574	6,182	37.99	330,816	162.7
Sac	1,995	709	186	14	1,086	35,455,259	17,772	98.67	359,319	180.1
ScottShelby	2,379 2,186	1,087 865	186 190	16 10	1,090	28,626,068 33,367,098	12,033 15,264	103.90 90.11	359,319 275,526 370,310	115.8 169.4
Sioux. Story.	3,037	865 978	290	11	1,758	50,482,675	16,623	105.47	4/8,03/	157.6
	2,403	817	220	18	1,348	. 31,540,408	13,125	89.46	352,551	146.7

### BASEBOOK OF IOWA

TABLE 63. NUMBER, VALUE, ACREAGE AND USE OF IOWA FARMS, 1935-Continued

	Number of farms	Operated by:				Total value		Value	A	1
_		Full owners	Part owners	Managers	Tenants	of farms	Average value	per acre	Acres in farms	per
ama	2.781	1,101	320	28	1.332	33,394,494	12,008	74.81	446,384	1
aylor	2.295	838	226	26	1,205	18.284.437	7.967	54.03	338,404	1
nion	1.662	613	168	i ii l	870	12,518,415	7,532	47.48	263,636	1
an Buren	1.945	870	249	17	809	9,200,282	4,730	31.13	295,516	1
apello	2,123	931	262	15	915	12,936,820	6,094	50,12	258,131	1
arren	2,623	1,114	351	14	1.144	18,121,050	6,909	51.84	349,568	1
ashington	2,452	1.059	292	13	1.088	27.571.340	11,244	80.32	343,283	li
yne	1,938	679	234	16	1,009	12,110,368	6,249	37.26	324,996	l î
bster	2,799	936	297	i 14 l	1,552	38,632,176	13,802	88.18	438,116	l i
nnebago	1,753	610	173	l ii l	959	18,543,273	10,578	73.70	251.611	li
inneshiek	2,933	1,516	376	اية ا	1,033	25,427,160	8,669	59.54	427,055	1 1
odbury	3,334	1,180	270	48	1.836	39,054,926	11,714	73.38	532,261	1 3
orth	1,491	532	154	16	789	15,780,724	10,584	63.52	248,425	1 i
right	1.999	580	iři	1 8	1,240	32,770,018	16,393	91.28	358,988	1 3

TABLE 63. NUMBER, VALUE, ACREAGE AND USE OF IOWA FARMS, 1935—Continued

	Crop land harvested	Land avaliable for crops	Plowable pasture	Woodland pasture	Other pasture	Woodland not pastured	All other land in farms
tate	18,925,893	26,984,111	5,769,836	2,060,105	3,237,612	252,139	1,825,185
dair	171,543	300,703	107,274	9,208	29,401	1,234	18,310
dams	104,883	210,439	73,902	12,437	24,647	980	14,463
lamakee	134,517	195,146	51,476	115,503	35,908	12,355	15,480
ppanoose	111,755	223,424	94,196	43,859	36,936	1,817	13,825
udubon	157,421	251,054	78,542	4,113	11,515	678	14,933
enton	262,349	356,485	69,990	18,089	45,185	2,655	23,578
ack Hawk	203,340	263,856 279,774	43,191	16,665	36,665	1,685	20,007
remer	228,210 164,592	200,592	32,022 31,848	27,834	17,122	2,283 1,699	18,489 15,172
ıchanan	205,895	255,514	32,702	13,423 15,728	38,319 62,298	2,270	18,040
iena Vista	258,576	312,525	32,985	5,333	21,476	623	21,654
utler	222,085	266,185	32,679	12,255	52,901	2,485	19,846
lhoun	264,943	326,572	42,717	2,250	7,921	246	19,353
uroll	233,794	308,947	61,089	5,480	20,251	1,165	21,045
LSS	179,457	314,902	112,285	9,918	6,751	1,353	17,250
dar	186,600	289,861	83,847	20,087	21,442	2,615	16,795
erro Gordo	228,258	278,881	37,592	5,023	43,468	559	20,505
nerokee	243,755	275,864	17,549	5,785	58,159	2,485	20,183
arke	178,016 89,626	222,486 177,554	34,529 48,245	12,986 24,934	57,436 46,834	1,778 2,607	15,998 12,530
ay	238,352	289,414	36,255	5,708	28,466	905	20,602
ayton	194,902	290,175	81,487	83,265	55,354	15,126	19,930
inton	224,258	353,951	108,307	17,124	23,444	4,240	18,392
awford	259,009	387,113	103,764	13,893	21,353	689	24,212
dlas	198,357	278,268	38,203	31,657	33,066	1,787	21,235
vis	98,289	214,197	87,965	39,593	38,802	2,430	12,854
ecatur	111,554	250,323	109,191	41,192	19,882	2,360	18,792
elaware	199,437	264,919	56,652	21,819	45,351	2,694	17,138
es Moines	109,658 160,793	162,560 204,588	28,419 32,224	33,653 1,834	36,053 14,896	2,171 844	11,476 12,715
ubuque	171.671	247.324	59,919	,			
mmet	171,677	211.762	25.851	47,529 3,602	44,292	8,085 395	18,400
vette	235,413	308,181	58,862	24,575	14,876 89,521	4,767	15,226 22,178
yetteoyd	192,852	243,172	39,241	9,836	36,357	981	17,505
anklin	246.134	303,183	44,625	4,685	33,920	997	20,230
emont	175,373	265,741	51,097	12,490	10,142	3,327	19,586
reene	248,201	297,822	31,021	15,687	24,334	662	18,148
rundy	204.248	257,423	38,835	892	40,409	1.532	16,469
ıthrie	179,402	283,492	73,579	30.870	33,166	2,116	20,409
amilton	258,714	320,816	44,490	9,472	11,834	1,059	20,048
ncock	245,732	313,773	53,556	1,542	15,153	586	22,209
ardin	232,636	284,102	39,344	16,140	29,749	1,686	19,231
arrison	241,429	346,312	60,938	35,680	11,055	4,899	29,398
oward	119,409	175,076	34,357.	28,906	44,778	1,057	11,411
ımboldt	157,403 199,291	222,489	50,544	6,422	46,376	2,209	15,926
8	181.965	246,372 238,457	30,696 42,822	4,600	7,728	496	16,833
wa	138,850	288,919	117,424	1,411 18,349	18,368	393	14,870
kson	141,110	231,524	73,113	18,349 59,194	26,302	14,757 4.947	18,819 16,542
iper	211,852	336,087	84,280	19,199	67,666 69,702	4,234	23,663
ferson	109,772	175,828	39,904	30,410	44,488	1.174	10,604
hnson	167,353	290,577	100,005	29,247	25,511	5,460	16,849
nes	161,461	264,733	87,006	31,741	32,193	4,363	16.042
okuk	145,570	254,241	83,204	26,585	54,870	2,888	20,006
ssuth	440,081	535,830	69,856	5,828	24,055	1.888	36,382
e	121,850	179,426	39,013	71,950	27,314	2,349	15,299
m	225,785	308,836	57,889	34,308	53,071	4.821	22,540
uisa	104,385	166,279	29,337	26,096	24,472	4,808	11,501
cas	92,494	179,028	73,007	42,753	27,220	2,130	13,249
on	267,355	314,799	30,976	4,563	25,666	1,148	18,106

#### AGRICULTURAL ECONOMIC FACTS

TABLE 63. NUMBER, VALUE, ACREAGE AND USE OF IOWA FARMS, 1935-Continued.

)V	Crop land harvested	Land available for crops	Plowable pasture	Woodland pasture	Other pasture	Woodland not pastured	All other land in farms
son	112,406	220,937	59,031	35,001	70,711	1,655	18,164
185ka	141,193	246,570	71,311	24,682	60,943	2,476	16,583
marion	127,615	230,228	78,222	33,060	58,392	4,852	20,239
	214,122	288,766	58,359	16,424	31,449	1,244	19,230
e Aills	153,952	225,937	49,341	12,505	5,226	3,340	17,750
Mitchell	178,552	245,241	53,454	11,289	14,173	1,623	15,441
Monona	207,278	331,899	49,236	38,556	17,045	3,888	25,731
Monroe	69,897	175,456	77,871	37,573	36,500	2,235	10,295
Montgomery	150,063	230,298	57,128	10,029	9,696	621	14,186
Muscatine	125,078	186,669	37,126	23,101	27,451	1,948	12,023
O'Brien	257,376	297,335	29,152	837	35,758	1,729	18,302
Osceola	187,009	219,010	23,382	851	16,970	929	13,546
Page	179,184	278,251	72,764	. 7,771	34,087	1,829	17,938
Palo Alto	250,762	310,848	37,847	3,941	16,911	1,165	20,363
Plymouth	347,399	451,591	59,174	4,800	53,090	1,805	28,486
Pocahontas	269,459	331,514	39,667	1,085	7,160	289	23,150
Polk	180,133	253,546	46,806	30,736	25,513	2,141	18,082
Pottawattamie	351,391	498,498	103,873	26,425	23,843	4,862	32,666
Poweshiek	152,993	284,131	112,891	8,299	49,993	2,315	15,408
Ringgold	117,781	260,929	94,208	18,950	31,239	2,573	17,125
Sac	244,289	303,735	40,144	4,147	31,030	625	19,782
Scott	158,618	230,963	53,765	13,534	17,544	1,066	12,419
Shelby	226,934	331,357	85,843	6,372	12,464	462	19,655
Shelby	354,068	409,605	33,010	3,158	41,145	712	24,017
Story	241,606	297,141	33,604	18,513	16,285	643	19,969
Tama	239,532	358,319	97,314	21,110	37,999	3,581	25,375
Taylor	152,658	268,489	77,720	17,078	32,522	1,820	18,495
Union	93,309	163,426	37,688	16,785	66,726	2,611	14,088
Van Buren	98,104	156,689	39,611	71,464	51,171	3,358	12,834
Wapello	97,111	170,129	48,742	34,372	39,438	1,852	12,340
Warren	126,747	240,036	68,863	22,164	65,380	3,255	18,733
Washington	144,134	259,975	79,452	25,243	36,732	4,320	17,013
Wayne	143,193	270,616	93,082	23,005	17,111	1,014	13,250
Webster	311,402	372,877	42,088	29,046	10,429	1,430	24,334
Winnebago	171,828	208,991	29,390	2,089	19,982	1,543	19,006
Winneshiek	209,839	307,441	88,950	46,366	45,144	7,868	20,236
Woodbury	311,814	455,069	76,830	23,437	20,629	3,240	29,886
Worth	162,411	204,902	30,507	4,711	22,371	1,310	15,131
Wright	250,961	308,821	36,472	6,386	21,470	878	21,433
L							

Source: U. S. Farm Census, 1935.

not receive as high a rate on their money as in former years if they loan it out instead of using it to buy land. Therefore, to receive the same income they are willing to pay more for land than formerly.

Figure 117 shows the relationship between land values and cash rentals. Since they were more affected by speculative buying of land, land values soared to higher and fell to lower levels than did rents. In 1913 land was \$118 per acre and rent was \$5.41 per acre. In 1920 at the peak of the boom, land had more than doubled and was worth \$255 per acre. During the same year, rent was \$9.13 per acre, which represented about a 69 percent rise. There has also been a lag in rents during the years 1930 to 1934. The relative amount of decrease in rent has been less than the relative decrease in the value of land.

#### Farm Mortgages

Iowa's total farm mortgage debt increased steadily from a total debt of \$149 millions in 1889 to \$1,618 millions in 1923. Since 1923 it has been gradually decreasing until on Jan. 1, 1935, it stood at \$924 millions.

Iowa's debt increased rapidly from 1915 to 1921 along with the wartime expansion in prices. The greatest upward spurt in total indebtedness was recorded in 1920. In that year there was a gain of some 400 millions in the state total. A great deal of this debt, however, was incurred in the latter part of 1919 and was not brought to light until 1920 when the mortgage transactions were recorded on March 1. From 1915 to 1919 prices of farm products were rising faster than the cost of producing them, and farmers wanted to put more land into production. They acquired more land and borrowed money to pay for it on the assumption that farm prices would stay at high levels until the land was at least paid for.

Despite the drop in farm prices in 1920, the debt continued to increase. This situation is shown in fig. 116 and was brought about by the many

insecure notes on farm land. Creditors found it necessary to protect themselves by obtaining second or third mortgages. This increase more than offset the reduction in debt in 1921-23 due to foreclosures and other forced sales. In 1923 the debt reached a peak of \$1,618,447,000.

Farm prices took an upward turn in 1925 but the rise was not sufficient to noticeably ease the mortgage situation. Farmers until this time had been using up their outside resources for the payment of taxes and interest, but these sources of revenue were fast becoming exhausted and foreclosure, assignment of the land or some scaling down of the debt became necessary.

Since 1923 there has been a gradual decrease in the debt but this does not necessarily mean that Iowa farmers were being relieved. Instead it indicates that many farmers had their backs to the wall and were forced to give up their farms since they could no longer carry the cost of keeping up the mortgage. Many of the holders of mortgages, how-

## CORPORATE OWNED LAND

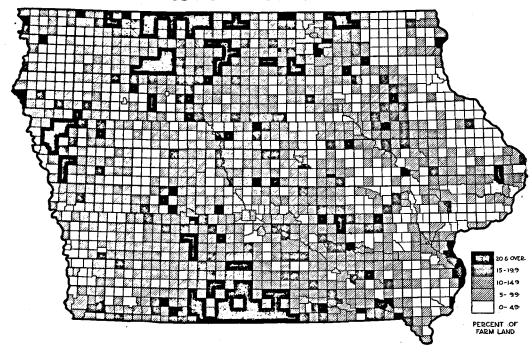


Fig. 113. The shading on this map shows where the land holdings of corporations are concentrated in Iowa.

The black districts are areas in which corporations overestimated the value of the land when they made loans.

ever, have preferred to let the farmer try to make a living off of the land rather than be responsible for its upkeep during the past lean years.

#### Compared with U.S.

The value of land and buildings per mortgaged farm in Iowa exceeds the average value of mortgaged farms in the United States as a whole. The debt per Iowa farm would therefore be expected to run higher than the average debt per farm for the nation. In 1930 the debt per mortgaged farm in Iowa was \$9,626 while that per farm in the United States was \$3,561.

The ratio of the debt to the value of the farm is larger for Iowa than for the United States. In 1930 the debt in Iowa on the mortgaged farms was 48.5 percent of the value of the farm while in the United States it was 39.6. In other years the figures have been closer. Figure 121 shows

#### FARM MORTGAGE HOLDINGS, 13 TOWNSHIPS

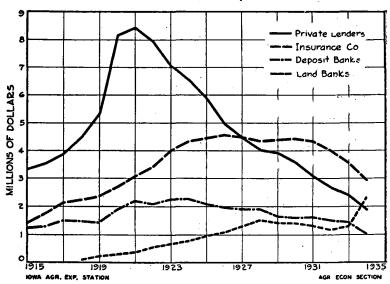


Fig. 114. The above graphs show the trends in holdings of farm mortgages in Iowa by different lenders. Private lenders monopolized the field until recent years. Corporate lenders have come sharply into the picture since the war. Data in table 77.

TABLE 64. CORPORATE-OWNED LAND IN IOWA BY COUNTIES.

		Acreage—Ja	nuary, 1935		Per	centage of To	otal Land in Farm	January, 1	935
County	Insurance companies	Banks	Others	Total	Insurance companies	Banks	Farm credit administration	Others	Total
Adair Adams Allamakee Appanoose Adudubon Benton Black Hawk Boone Bremer Buchanan	36,235 14,150 4,899 19,751 17,207 15,407 12,324 7,128 7,169 37,585	5,429 2,168 10,413 9,507 7,316 3,867 5,774 5,950 3,474 8,323	12,300 5,285 14,381 7,051 5,212 5,705 7,615 12,581 1,793 8,671	53,964 21,603 29,693 36,309 29,735 24,979 25,713 25,659 12,436 54,579	10.1 5.5 1.3 6.5 6.1 3.5 3.7 2.0 2.7	1.5 .8 2.8 3.2 2.6 .9 1.7 1.7 1.3	2.3 1.4 3.2 1.5 1.4 2.1.1 .6 .4	1.2 .7 .7 .8 .4 1.1 1.2 3.0 .3 1.3	15.1 8.4 8.0 12.0 10.5 5.7 7.7 7.3 4.7 15.7
Buena Vista Butler Calhoun Carroll Cass Cedar Cetor Gordo Cherokee Chickasaw Clarke	15,945 18,539 17,424 6,681 22,849 10,234 41,934 14,049 22,251 39,387	1,162 2,133 2,902 2,170 1,607 6,928 4,078 4,287 3,299 3,322	7,714 4,689 3,247 1,447 7,690 4,745 17,108 6,837 10,087 12,725	24,821 25,361 23,573 10,298 32,146 21,907 63,120 25,173 35,637 55,434	4.5 5.3 4.9 1.9 6.4 2.9 12.2 4.0 7.3 15.2	.3 .6 .8 .5 2.0 1.2 1.2 1.0	1.3 .7 .8 .2 .8 1.6 1.0	.8 .6 .1 .2 1.4 1.4 3.3 .9	6.9 7.2 6.6 2.9 9.1 6.3 18.3 7.1 11.7 21.3
Clay Clayton Clinton Crawford Dallas Davis Devatur Delaware Des Moines Dickinson	28,907 1,926 15,920 26,225 18,514 17,939 53,654 14,620 1,863 32,524	2,870 7,657 12,084 3,826 4,666 5,739 7,626 6,327 10,743 2,661	13,588 4,622 7,281 5,009 11,839 10,851 22,954 6,238 8,845 14,096	45,365 14,205 35,285 35,060 34,429 34,529 84,234 27,185 21,451 49,281	8.3 3.9 5.8 5.1 5.9 16.8 4.1 .8	.8 1.7 2.9 .9 1.3 1.9 2.4 1.9 4.5	2.1 .3 .2 .5 .5 .5 .7 5.0 1.1 1.7 2.2	1.9 .7 1.6 2.6 2.8 2.2 .7	13.1 3.1 8.6 7.8 9.5 11.3 26.4 7.8 8.9 21.3
Dubuque Emmet Fayette Floyd Franklin Fremont Greene Grundy Guthrie Hamilton	3,183 40,787 27,280 20,463 22,487 17,731 20,639 6,659 25,901 29,853	3,746 4,114 3,850 3,113 1,544 3,683 6,084 3,002 5,274 9,738	5,475 11,258 7,462 13,134 3,278 5,357 7,087 3,460 17,719 7,191	12,404 56,159 38,592 36,710 27,309 26,771 33,810 13,121 48,894 46,782	16.5 6.2 6.8 6.2 5.8 5.9 2.1 7.2 8.3	1.0 1.6 .9 1.1 .4 1.2 1.8 .9 1.5 2.7	.4 2.0 1.6 1.6 .4 .8 .5 3.4	1.2 2.6 1.0 2.7 .6 1.4 1.1 .7 1.4	3.5 22.7 8.7 12.2 7.6 8.8 9.6 4.2 13.5 12.9
Hancock. Hardin Harrison. Henry. Howard. Humboldt Ida. Jowa. Jackson. Jasper.	36,531 22,329 24,261 3,693 37,557 22,697 24,425 13,182 2,660 17,179	3,294 5,318 7,468 3,391 4,261 4,614 3,702 6,342 9,429 4,032	11,992 7,019 8,112 4,481 9,165 8,168 4,113 5,994 3,285 13,059	51,817 34,666 39,841 11,565 50,983 35,479 32,240 25,518 15,374 34,270	10.4 6.4 5.6 1.4 13.2 8.5 9.0 3.7 .7 3.8	1.0 1.6 1.8 1.3 1.5 1.8 1.4 1.7 2.4	1.6 1.0 .9 .5 2.1 1.7 .8 1.0	1.7 .9 1.0 1.2 1.1 1.3 .7 .7	14.7 9.9 9.3 4.4 17.9 13.3 11.9 7.1 4.0 7.6
Jefferson Johnson Jones Keokuk Kossuth Lee Linn Louisa Lucas Lyon	8,285 14,753 6,379 16,850 86,582 4,894 13,627 6,270 12,484 24,308	6,875 3,620 9,144 5,817 11,523 3,343 5,865 12,801 4,094 1,665	8,900 3,511 2,783 7,804 17,896 12,749 9,593 10,916 10,956 11,097	24,060 21,884 18,306 30,471 116,001 20,986 29,085 29,987 27,534 37,070	3.2 4.0 1.8 4.8 14.4 1.7 3.3 2.7 4.9 6.7	2.7 .9 2.6 1.6 2.0 1.2 1.4 5.6 1.6	1.9 .3 .8 1.3 1.0 1.4 1.4	1.5 .7 .6 1.5 1.7 3.5 1.9 3.4 1.3 2.6	9.3 5.9 5.3 8.7 19.4 7.4 7.0 13.1 10.8
Madison.  Mahaska Marion Marshall Mills Mitchell Monona Monore Monore Montgomery Muscatine	23,219 15,407 29,745 14,268 9,644 19,529 27,588 13,537 12,616 3,120	11,669 9,821 4,898 3,479 2,050 1,718 5,104 3,536 1,850 5,662	13,117 14,478 8,115 5,593 2,449 8,332 19,750 8,653 5,094 6,405	48,005 39,706 42,758 23,340 14,143 29,579 52,442 25,726 19,560 15,187	6.8 4.5 8.8 4.0 3.7 6.9 6.8 5.3 4.8	3.4 2.8 1.4 1.0 .8 .6 1.3 1.4 .7 2.2	1.4 1.1 .8 .1 1.8 2.9 1.0	2.2 3.1 1.3 .8 1.2 1.9 2.4 .3	13.8 11.5 12.6 6.6 5.4 10.5 12.9 10.1 7.3 5.9
O'Brien Osceola Page Palo Alto Plymouth Pocahontas Polk Pottawattamie Poweshiek Ringgold Sac	20,026 23,325 15,714 48,643 12,471 24,939 10,714 19,420 24,684 43,212 13,042	1,660 2,680 2,406 3,774 6,096 5,301 3,578 5,389 6,723 12,762 3,007	4,014 4,865 5,891 20,322 14,005 10,402 9,628 16,625 14,035 2,218	25,700 30,870 24,011 72,739 32,572 40,642 24,100 34,437 48,032 70,009 18,267	5.6 9.4 4.8 14.0 2.4 6.9 3.2 3.3 6.8 13.1 3.8	.5 1.1 .7 1.1 1.2 1.4 1.0 1.0 1.8 3.9	.6 .8 1.5 2.3 1.2 .6 .6 .3 2.5 3.1	.5 1.0 .3 3.6 1.6 2.0 2.5 1.4 2.2	7.2 12.3 7.3 21.0 6.4 11.2 7.3 6.0 13.3 21.3 5.3
Scott	3,031 17,694 14,693 25,636 26,288	3,329 2,584 2,190 7,607 4,058	4,840 5,690 6,413 8,597 4,944	11,200 25,968 23,296 41,840 35,290	1.1 4.7 3.1 7.2 6.0	1.2 .7 .5 2.2	.7 .7 .4 .9	1.1 .9 .9 1.5	4.1 7.0 4.9 11.8 8.1

TABLE 64. CORPORATE-OWNED LAND IN IOWA BY COUNTIES-Continued

County		Acreage—Jaz	uary, 1935		Perc	entage of To	tal Land in Farms	—January, 19	35
County	Insurance companies	Banks	Others	Total	Insurance companies	Banks	Farm credit administration	Others	Total
Taylor Union Van Buren Wapello	11,999	3,282 3,903 4,126 7,274	10,282 9,130 17,498 7,962	46,262 32,614 33,623 23,407	9.9 7.6 4.2 3.2	1.0 1.5 1.4 2.9	1.6 1.9 4.9 1.6	1.5 1.7 1.2 1.5	14.0 12.7 11.7 9.2
Warren Washington Wayne Webster Winnebago Winneshiek Woodbury Worth Wright	8,663 65,253 20,183 28,855 5,304 58,356	2,716 6,925 3,632 5,221 3,614 3,606 6,468 2,372 3,877	10,411 6,116 10,790 17,150 8,832 3,214 21,895 7,418 9,090	29,974 21,704 79,675 42,554 41,301 12,124 86,719 28,739 42,464	4.8 2.6 20.4 4.6 11.7 1.3 11.3 7.6 8.1	.8 2.1 1.1 1.2 1.4 .9 1.2	1.6 .6 2.5 1.2 1.7 .3 2.6 1.7	1.3 1.1 9 2.8 2.0 .4 1.7 1.4	8.5 6.4 24.9 9.8 16.8 2.9 16.8 11.6
Total	2,043,730	499,001	888,701	3,431,432	6,0	1.5	1.2	1,4	10.19

Source: Iowa Agr. Exp. Sta. Bul. No. 328. W. G. Murray and W. O. Brown.

these ratios for 10-year intervals since the start of the century.

#### Purpose of Farm Loans

Most of the mortgages on Iowa land were made for the purchase of the land. Next in importance was the need for money to renew loans when they expired. Table 76 shows the division of the loans and that from 1915 to 1920 most of the money was used to purchase land. In the 13 counties used in the survey of mortgage conditions more than \$4 millions were loaned in 1920 to buy land.

After 1920 many of the loans were made to renew loans that were then coming due from purchases in previous years. Many renewals were natural since farm incomes had dwindled from the days in which the farm was bought and the usual term of a loan was 5 years. The farmer who had insufficient income to pay off the mortgage made between 1915 and 1920 had to have it renewed or extended between 1921 and 1930.

Much of the present debt total can be traced back to the hectic buying days of 1917 to 1920. Farm prices in those days were rising very rapidly, more rapidly in fact than the costs of producing farm goods. Farmers were optimistic and wanted to put more land into production. To increase their holdings they bought land at the prevailing prices, paid what they could on it and secured the rest with a mortgage. Prices dropped and with them went

many a farmer's hopes of eliminating his indebtedness in a few years as he had planned.

## Sources of Loans

Insurance companies have come to the front in the last few years as sources of farm loans. Insurance companies on Jan. 1, 1935, comprised 40 percent of the lenders. This figure had grown from 22 percent in 1915.\*

Private investors have gone into the minority with the rise of insurance companies, dropping from 61 percent in 1920 to 20 percent by Jan. 1, 1935. On the basis of the 1935 figures the Federal Land Bank is third and deposit banks fourth in the number of mortgages held.

While private investors and deposit banks were willing to make the loans in the buying period of 1915 to 1920, the insurance companies and the land banks were on hand to extend credit to the farmers in the renewal period from 1920-30.

#### How Loans Were Cancelled

The renewal of existing loans has been the way in which most of the farm loans since 1915 have been cancelled. Figure 124, furnishing the information at 5-year intervals, shows that every year until 1930, a large percentage of the loans were made to renew some of the mortgages that had been made between 1915 and 1920.

After 1930, however, the farmer was no longer able to carry the debt

on his farm, and foreclosures and other forced sales began to be the chief means of cancellation. By 1932 forced sales were responsible for the cancellation of 66.5 percent of the total debt in the 13 townships used in the mortgage survey. In the same year only 17.5 percent of the debt was cancelled through renewals as compared with 67.2 percent in 1915 when credit was not difficult to obtain. In 1933 the forced sales declined slightly to 62.3 percent. In 1934 there was reversion to the former situation as renewals climbed back into first place with 61.2 percent due to Federal refinancing.

The actual sale of land has not been responsible for any great amount of debt cancellation except in 1920. This was the year in which the debt increased more rapidly than at any other time.

The increased renewals in 1934 may be indicative of some financial improvement among farmers. Corn-

TABLE 65. LAND HOLDINGS OF CORPORATIONS IN IOWA.

	Percentage of all land in farms					
Corporate groups	1933	1935				
Insurance companies Deposit banks. Mortgage investment companies Joint stock land banks Colleges and miscellaneous. Federal land banks } R. F. C.	3.4 1.6 1.0 .6 .4	6.0 1.5 .9 .8 .5				
Totals	7.2	10.1				

Source: W. G. Murray, Ag. Econ. Sect., Iowa Agr. Exp. Sta.

<sup>\*</sup>Based on 18 townships.

TABLE 66. DISTRIBUTION, NUMBER, ACREAGE AND COST OF FARM PROPERTIES HELD BY INSURANCE COMPANIES IN IOWA.

Year	Number counties in which land is held	Number of farm properties	Acreage involved	Cost to company	Per acre cost to company
1920	1	1	320	\$ 30,700	\$ 96
1921	1 1	1 1	200	11,500	58
1922	2	3	301	21,100	70
1923	8	8	1,371	137,000	100
1924	19	31	6,923	595,100	86
1925	. 31	56	12,923	1,149,400	89
1926		134	26,738	2,259,200	85
1927	65	180	40,097	3,453,800	86
1928	79	323	62.580	5.142.800	82
1929	86	445	87.099	7.074.300	81
1930	95	570	107.163	8,218,600	77
1931	94	912	167.644	12,860,700	77
1932	. 99	1,644	296,128	22,469,000	76
Total as of Dec. 31, 1932.		4,308	809,487	\$ 63,423,200	Ave \$78

Land held as of Dec. 31 taken from Schedule A; of Insurance Company's Annual Report. here is some lag in reports; some companies are not able to include the last few months (the current year's business.

Source: Iowa Agr. Exp. Sta. Bul. No. 307, W. G. Murray and R. C. Bentley.

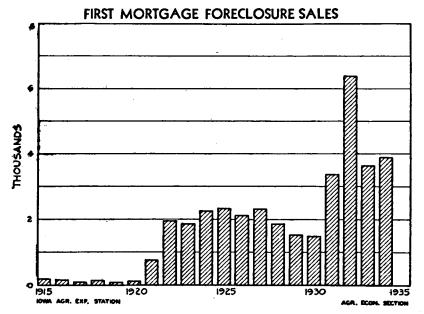


Fig. 115. The bars in the above chart represent foreclosure sales during the past 20 years in Iowa as estimated from data for 16 counties. The biggest foreclosure crop was harvested in 1932.

Data in table 83.

Fig. 116. The gap between debt and prices at the close of 1934 when compared with the situation existing in the period, 1910-1914, indicates the seriousness of present mortgage difficulties.

hog payments and corn loans helped . the farmer to meet interest and principal payments and the Federal farm credit agencies furnished an avenue for shifting debts to longer terms and easier interest rates.

### Foreclosures and Judgments

In the last 12 years, 13 percent of the farm land in Iowa has been sold by sheriffs at foreclosure sales. In several cases some of the farms have been sold several times in the 12year period. When these farms have been deducted there still remains 11 percent of the farms that have been subjected to foreclosure since 1921.

Between 1921 and 1932, \$327 millions of mortgages were cancelled by foreclosure. Another amount nearly as large was cancelled by assignments and the failure of junior mortgage holders to redeem the land after the first mortgage had been foreclosed.

These foreclosures and judgments were results of the selling and buying of 1915-20. The whole period

TABLE 67. PERCENTAGE OF TOTAL FARM LAND OPERATED BY TENANTS. (As reported by assessors)

Year	Percentage operated by tenants	Year	Percentage operated by tenants
1927 1928 1929 1930	\$3.9 \$4.5 \$4.4 \$4.8	1931 1932 1933	55.4 57.7 58.6

Source: Iowa Ag. Exp. Sta. Bul. No. 828. W. G. Murray and W. O. Brown.

## IOWA MORTGAGE DEBT AND FARM PRICES

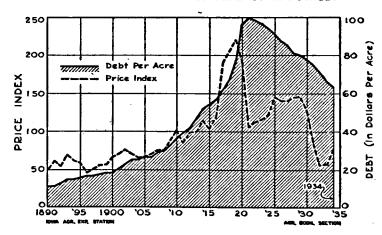


Fig. 117. Land values and cash rentals in Iowa moved steadily upward from 1912 to 1919. Land values went up \$63 per acre between 1919 and 1920. Rent increased from \$9.02 to \$9.13 per acre. In the next two years, 1922 and 1923, land values decreased from the peak of \$255 to \$194 per acre. In one year, 1920, rent decreased from \$9.13 to \$7.01, or \$2.12 per acre. Rent increased slightly from 1921 to 1929. From 1922 to 1929, land values dropped off uniformly at the rate of about 5½ percent per year. In late 1929 when the prices of farm products again turned downward, rents and values decreased downward, rents and values decreased rapidly. In 1934 land values and rents started to move up again.

Data in table 69.

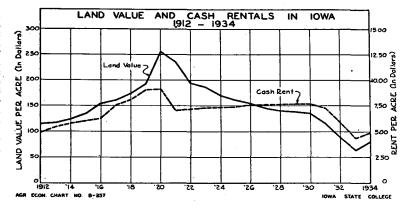


Fig. 118. Land values follow farm prices closely as this graph for Story County, Iowa, shows. Both farm prices and land values have turned up recently.
Data in table 70.

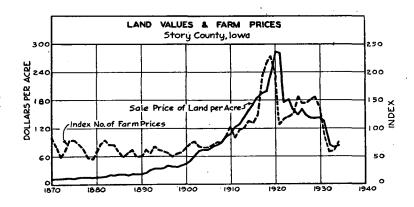


Fig. 119 shows that a larger percentage of the mortgages were in the higher brackets in 1921 than in 1932.

Data in table 74.

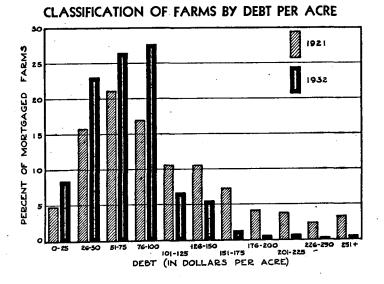


TABLE. 68. LAND VALUES AND CASH RENTS IN IOWA MARCH 1. (DOLLARS PER ACRE)

	19	23	19:	24	19:	25	19	26	19	27	19	-	19		_	30		31	1	32	19.	33	19	34
County	Land value	Cash rent	Land value	Cash rent	Land value	Cash rent	Land value	Cash rent	Land value	Cash rent	Land value	Cash rent	Land value			Cash rent								
Adair Adams Allamakee Appanoose Audubon Benton Black Hawk Boone Bremer Buchanan Buena Vista Butler	126 149 145 120 201 245 200 226 173 162 230 196	6.60 6.58 6.44 5.88 7.53 7.82 7.78 7.91 5.87 6.05 8.26 6.65	117 138 131 106 182 219 182 206 159 144 210 178	6.60 6.56 6.36 5.60 7.55 7.88 7.78 7.96 6.04 6.03 8.35 6.68	132 124 98 173 207 172 196 153 134	6.64 6.58 6.31 5.36 7.62 8.00 7.82 8.04 6.24 6.05 8.47 6.74	111 128 118 90 164 196 163 186 147 125 189	6.72 6.65 6.38 5.16 7.75 8.16 7.93 8.20 6.49 6.11 8.66 6.86	82 154	6.80 6.71 6.30 4.94 7.86 8.32 8.01 8.34 6.74 6.16 8.84 6.96	104 118 105 76 147 174 144 168 135 108 170	6.76 6.66 6.20 4.63 7.85 8.35 7.97 8.35 6.89 6.12 8.88 6.96	104 118 103 72 144 171 144 165 134 104 168	6.83 6.71 6.18 4.40 7.96 8.50 8.05 8.49 7.14 6.17 9.05 7.06	68 139 164 138 160 131 98 162	6.83 6.70 8.08 4.11 7.99 8.58 8.05 8.54 7.32 6.14 9.14 7.08	190 100 84 56 119 140 118 137 113 82 138 116	6.42 6.28 5.65 3.60 7.54 8.13 7.57 8.08 7.05 5.76 8.67 6.69	75 83 68 44 97 114 97 112 94 65 113 95	5.30 5.17 4.60 2.75 6.24 6.77 6.25 6.70 5.96 4.74 7.22 5.54	55 61 49 31 70 82 70 81 68 46 82 68	3.89 3.33 3.57 1.85 4.60 5.00 4.59 4.99 4.48 3.46 5.34 4.08	69 76 61 37 86 101 86 100 85 56 102 84	4.39 4.24 3.71 1.90 5.22 5.66 5.17 5.61 5.17 3.90 6.10 4.64
Calhoun	250 239 184 212 198 244 134 143 211	8.21 8.15 7.46 8.37 6.46 8.36 5.22 5.66 6.96 6.62	218 121 125	8.29 8.17 8.18 8.50 6.52 8.36 5.19 5.69 7.10 6.71	203 162 199 163 204 114 114 179	8.40 8.24 7.50 8.69 6.62 8.40 5.19 5.75 7.28 6.82	196 191 155 194 150 190 107 104 169 143	8.60 8.38 7.59 8.94 6.77 8.52 5.23 5.86 7.52 7.00	182 178 147 188 138 176 100 94 158 137	8.76 8.49 7.66 9.19 6.91 8.62 5.26 5.96 7.75 7.16	171 168 141 184 128 164 94 86 149 132	8.80 8.48 7.63 9.29 6.94 8.59 5.21 5.97 7.87 7.20	166 164 140 186 123 159 92 80 146 133	8.98 8.60 7.70 9.53 7.08 8.69 5.23 6.06 8.10 7.36	136 184 115 150 88 74 140	9.05 8.62 7.69 9.68 7.14 8.69 5.20 6.10 8.25 7.44	132 133 117 161 95 126 75 60 118 112	8.59 8.13 7.23 9.24 6.78 8.18 4.86 5.77 7.90 7.07	107 108 97 135 76 101 61 47 96	7.15 6.74 5.97 7.74 5.65 6.75 3.99 4.79 6.64 5.91	76 77 70 100 53 72 44 32 69	5.29 4.96 4.38 5.76 4.18 4.96 2.91 3.53 4.96 4.38	92 94 87 126 63 86 54 37 84 86	6.00 5.61 4.93 6.59 4.78 5.61 3.27 4.00 5.66 4.98
Clinton Crawford Dallas Dallas Davis Decatur Delaware Des Moines Dickinson Dubuque Emmet	172 183 216 116 99 177 218 166 176 168	7.81 7.82 7.54 5.30 4.92 6.56 8.10 6.27 7.66 7.07	159 169 196 102 89 161 190 152 162 154	7.83 7.82 7.50 5.17 4.93 6.66 8.01 6.39 7.62 7.11	162 185 94 84 153 173 145	7.90 7.87 7.50 5.06 4.96 6.80 7.98 6.54 7.61 7.19	147 157 175 86 80 145 157 139 149 139	8.03 7.99 7.57 5.00 5.03 7.01 8.00 6.75 7.68 7.33	140 150 164 78 75 137 141 132 142 132	8.14 8.08 7.61 4.92 5.09 7.19 8.01 6.95 7.71 7.45	136 145 155 72 71 130 128 126 137	8.14 8.06 7.54 4.76 5.08 7.27 7.89 7.04 7.63 7.46	136 145 152 68 70 129 120 125 136 124	8.25 8.16 7.58 4.67 5.14 7.46 7.89 7.24 7.66 7.58	146 63 67 124 109 122	8.27 8.16 7.53 4.54 5.15 7.56 7.81 7.36 7.61 7.62	114 123 124 51 57 106 88 104 114 103	7.81 7.68 7.04 4.14 4.84 7.22 7.26 7.04 7.12 7.20	95 102 101 40 46 87 68 86 94 84	6.46 6.35 5.79 3.30 4.00 6.05 5.93 5.91 5.84 5.98	70 75 73 28 33 63 46 63 69 61	4.76 4.75 4.23 2.35 2.94 4.50 4.30 4.41 4.26 4.41	86 93 90 33 41 77 53 78 86 76	5.37 5.27 4.73 2.54 3.32 5.17 4.78 5.08 4.78 4.98
Fayette. Floyd Franklin Fremont Greene. Grundy Guthrie Hamilton Hancock Hardin	150 176 183 223 234 176 240 185 221	5.66 6.34 7.32 7.87 8.03 8.57 7.20 8.52 6.93 8.52	138 160 184 169 201 214 160 218 168 199	5.73 6.35 7.39 7.84 8.07 8.61 7.17 8.58 6.97 8.49	152 174 162 190 203 153 207 160	5.83 6.39 7.49 7.85 8.16 8.70 7.18 8.69 7.07 8.52	127 144 167 156 179 193 146 197 152 177	5.98 6.48 7.65 7.93 8.31 8.86 7.23 8.88 7.21 8.61	121 136 158 149 168 183 138 185 142 166	6.12 6.56 7.80 7.99 8.45 9.01 7.28 9.05 7.34 8.68	116 130 152 144 158 174 132 176 136	6.17 6.53 7.83 7.94 8.46 9.01 7.21 9.07 7.35 8.63	116 128 150 144 155 172 130 174 134 153	6.31 6.60 7.98 7.99 8.59 9.15 7.25 9.24 7.48 8.70	145 140 149 166 126 167 129	6.38 6.61 8.04 7.96 8.64 9.20 7.22 9.30 7.53 8.67	97 105 124 121 126 142 108 143 110 124	6.07 6.22 7.62 7.46 8.16 8.70 6.75 8.82 7.12 8.13	100 103 117 89 117 90	5.07 5.14 6.34 6.14 6.77 7.21 5.54 7.33 5.93 6.70	58 62 74 73 74 85 64 84 65 73	3.76 3.77 4.69 4.48 5.00 5.32 4.05 5.42 4.38 4.90	77 92 91 90 105 80 104 80	4.29 4.24 5.32 5.03 5.66 6.05 4.54 6.15 4.98 5.51
Harrison. Henry Howard Humboldt Ida Lowa Jackson Jasper Jefferson Johnson	187 186 143 236 219 202 130 207 151 194	8.04 8.07 3.86 8.22 8.23 8.18 6.10 8.41 6.76 8.50	170 174 129 212 200 181 122 188 136 177	7.96 8.06 3.92 8.26 8.32 8.14 6.15 8.35 6.69 8.39	168 121 198 190 170 118 178 128	7.92 8.10 3.94 8.34 8.46 8.16 6.23 8.32 6.66 8.32	153 164 114 186 181 159 115 168 121 161	7.94 8.21 4.13 8.49 8.67 8.24 6.37 8.38 6.68 8.32	144 158 106 172 171 148 111 158 113 152	7.94 8.29 4.24 8.62 8.86 8.28 6.48 8.40 6.68 8.29	137 153 100 161 163 139 108 150 107 145	7.82 8.25 4.29 8.63 8.92 8.22 6.51 8.29 6.58 8.14	135 154 98 157 161 135 109 148 104 143	7.82 8.32 4.40 8.76 9.11 8.27 6.64 8.31 6.57 8.11	149 156	7.73 8.32 4.47 8.80 9.20 8.22 6.68 8.24 6.50 7.99	111 132 79 125 133 108 94 121 84 118	7.19 7.82 4.27 8.31 8.75 7.71 6.34 7.68 6.04 7.40	91 110 64 101 109 88 78 99 68 97	5.87 6.45 3.58 6.89 7.30 6.34 5.27 6.29 4.93 6.02	66 81 46 72 79 62 58 71 49 70	4.26 4.73 2.67 5.08 5.41 4.63 3.90 4.57 3.58 4.35	81 102 56 87 98 76 73 87 60 87	4.74 5.32 3.02 5.76 6.15 5.17 4.44 5.12 4.00 4.83
Jones	196 172 200 152 204 161 130 217 170 184	7.82 8.57 6.66 6.14 6.52 8.18 5.59 7.99 7.38 8.00	177 159 182 137 184 149 115 195 156 168	7.80 8.44 6.79 6.04 6.61 8.11 5.49 8.00 7.39	152 171 129 172 143 106	7.82 8.34 6.95 5.98 6.75 8.08 5.42 8.05 7.44 8.01	158 147 162 122 162 138 98 172 141 152	7.90 8.32 7.17 5.96 6.94 8.12 5.38 8.16 7.56 8.10	149 140 152 114 152 132 90 160 134 143	7.96 8.27 7.39 5.92 7.11 8.13 5.33 8.25 7.66 8.18	139 135 144 108 143 128 82 152 128 137	7.90 8.09 7.49 5.80 7.18 8.02 5.20 8.22 7.64 8.13	136 135 142 106 140 128 80 146 126 135	7.95 8.03 7.70 5.75 7.36 8.02 5.14 8.32 7.74 8.20	131 132 136 101 133 125 74 139 122 130	7.93 7.89 7.84 5.65 7.46 7.94 5.04 8.32 7.75 8.18	111 114 115 86 113 108 62 118 105 112	7.43 7.28 7.49 5.22 7.11 7.40 4.63 7.82 7.31 7.68	70 91	6.12 5.90 6.29 4.23 5.95 6.05 3.74 6.47 6.04 6.33	65 69 68 50 65 66 34 68 62 66	4.47 4.25 4.69 3.04 4.42 4.39 2.68 4.75 4.44 4.57	79 86 83 58 80 82 41 82 77	5.03 4.68 5.37 3.37 5.08 4.88 2.93 5.37 5.03 5.22
Marion Marshall Mills Mills Mills Mitchell Monona Monroe Montgomery Muscatine O'Brien Osceola	158	6.79 8.11 7.16 5.04 7.46 6.02 7.79 8.21 7.17 6.71	191 142 154 125 172 183 199	6.80 8.15 7.31 5.13 7.48 5.81 7.80 8.16 7.36 6.79	175 184 134 149 114 164 176	6.86 8.24 7.50 5.24 7.55 5.63 7.84 8.15 7.58 6.91	177 126 143 104 156 170 180	6.97 8.38 7.74 5.41 7.68 5.50 7.94 8.21 7.88 7.10	118 137 94 148 162 170	7.06 7.52 7.98 5.56 7.78 5.35 8.03 8.23 8.16 7.26	111	7.05 8.52 8.10 5.62 7.76 5.11 7.99 8.14 8.31 7.32	109 132 81 141 157 160	7.14 8.66 8.34 5.78 7.88 4.95 8.08 8.17 8.60 7.49	158 104 130 75 136 154 155	7.16 8.70 8.49 5.87 7.90 4.73 8.08 8.11 8.79 7.58	137 88 112 61 117 133 132	6.75 8.21 8.13 5.61 7.45 4.24 7.59 7.57 8.45 7.22	86 92 114 71 93 47 96 110 108 92	5.59 6.81 6.83 4.70 6.17 3.33 6.27 6.21 7.13 6.03	63 66 83 51 68 32 70 81 78	4.11 5.02 5.10 3.50 4.54 2.32 4.60 4.53 5.34 4.48	103 62 85 38 87 101 97	4.64 5.71 5.86 4.00 5.12 2.49 5.17 5.08 6.15 5.12
Page	230 185 196 228 207 196 186 137 242 220	9.11 6.76 7.05 8.44 7.79 7.39 9.03 5.55 8.63 8.98	181 207 189 182 167 120 220	8.97 6.88 7.19 8.43 7.90 7.52 8.82 5.45 8.60 8.91	160 175 196 179 176 157 110 208	8.88 7.04 7.37 8.47 8.04 7.70 8.67 5.38 8.62 8.88	148 100 197	8.86 7.27 7.62 8.58 8.26 7.94 8.58 5.34 8.71 8.93	91 185	8.82 7.47 7.84 8.66 8.45 8.16 8.47 5.30 8.77 8.94	159 137 157 165 154 158 130 83 176	8.64 7.57 7.95 8.62 8.52 8.27 8.27 8.22 5.17 8.71 8.83	78 173	8.59 7.78 8.18 8.70 8.72 8.50 8.10 5.11 8.77 8.84	131 154 156 146 155 122 72 166	8.45 7.90 8.32 8.70 8.82 8.64 7.89 5.00 8.74 8.76	59 142	7.81 7.56 7.96 8.17 8.40 8.25 7.22 4.61 8.19 8.16	92 111 108 103 112 83 46	6.34 6.34 6.69 6.74 7.01 6.93 5.80 3.66 6.74 6.68	71 67 82 78 74 82 60 32 84 91	4.57 4.73 4.99 4.98 5.21 5.16 4.13 2.63 4.93 4.86	86 82 102 96 92 103 73 37 102 114	5.08 5.42 5.71 5.56 5.95 5.90 4.54 2.88 5.56 5.42
ShelbySiouxStory	220 214 238	8.07 8.05 8.74	200 198 215	8.07 8.15 8.77	189 190 201	8.12 8.50 8.85	179 183 190	8.24 8.52 9.00	168 165 177	8.32 8.72 9.13	159 169 166	8.29 8.80 9.12	157 169 162	8.38 9.00 9.24	150 165 155	8.39 9.11 9.27	128 142 121	7.88 8.67 8.74	104 118 106	6.52 7.25 7.25	75 86 76	4.78 5.38 5.34	108	5.42 6.15 6.05

TABLE 68. LAND VALUES AND CASH RENTS IN IOWA MARCH 1. (DOLLARS PER ACRE)-Continued

County	19	23	19	24	4 1925		19:	26	19	27	19:	28	19	29	19	30	1931		19.	32	19	33	1934	
•	Land value	Cash rent	Land value	Cash rent	Land value	Cash rent	Land value	Cash rent	Land value	Cash rent	Land value	Cas												
Tams Taylor	222 152	8.31 6.60		8.32 6.58		8.36 6.59		8.47		8.57 6.72	160 114	8.53		8.62		8.62		8.10		6.69		4.91		5.5
UnionVan Buren	152 134	5.96 5.91		5.95 5.70	128	5.98 5.52	119	6.07	111	6.13 5.24	104	6.11 5.00	101	6.72 6.18 4.83	96	6.70 6.18 4.62	80	6.28 5.81 4.14	65	5.17 4.80 3.24	46	3.94 2.26	56	3.
Wapello Warren	123 157	5.88 6.18	111	5.92	105	5.99	99	6.11	92	6.21	112 149	7.01 8.73	86	6.33	82	6.36	70	6.02	57	5.00 5.94	41	3.69	50	4.
Washington	212	8.13		8.21		8.33		8.52		8.69		5.16		8.90		8.98		8.52		7.10		5.25		5.
Wayne Webster	138 250	5.54 7.55	225	5.44 7.70	210	5.36 7.88	197	5.34 8.14	183	5.29 8.38		8.50 7.04		5.11 8.75		5.00 8.90		4.61 8.52		3.72 7.15		2.68 5.34	94	6.
Vinnebago Vinneshiek	168 140	6.83 5.80	130	6.84 5.80	126	6.88 5.84	123	6.98 5.93	118	7.07 5.99	132	5.97 7.99	116	7.12 6.05	114	7.13 6.05	99	6.71 5.70	83	5.54 4.70	61	4.07 3.45	77	3.
Voodbury	178 159	7.45 5.55	146	7.52 5.60	138	7.63 5.66	132	7.79 5.78	125	7.95 5.88	155	5.91 7,79	118	8.14 6.02	114	8.21 6.06	98	7.78 5.74	80	6.48	58	4.80 3.52	72	5
Wright	215	7.68	194	7.66	184	7.69	174	7,78	163	7.84	88	6.22	152	7.86	146	7.84	124	7.35	101	6.06	73	4.44	90	4

Source: Millard Peck, formerly of the Economics Section, Iowa Agr. Exp. Sta. Original data from U. S. D. A., Bureau of Agricultural Economics.

TABLE 69. LAND VALUES AND CASH RENTS IN IOWA, 1912-1984.

Year	Land value (Dollars per acre)	Cash rent (Dollars per acre)
1912	115	4.85
1913		5.41
1914	124	5.76
1915	134	6.06
1916		6.25
1917	160	7.52
1918	174	8.17
1919	192	9.02
1920	255	9.13
1921		7.01
1922	194	7.18
1923	186	7.25
1924		7.28
1925		7.38
1926		7.54
1927		7.60
1928		7.64
1929		7.75
1930		7.65
1931		7.30
1932		5.88
1933		4.33
1934		4.88

Source: U. S. D. A. Bureau of Agr. Eco-

starting in 1900 and ending in 1919 marked the conversion of land values into mortgaged debts, with heavy pressure and finally foreclosure on the farmer whose land bore a mortgage larger than he could maintain.

The year 1923 marked the beginning of the liquidation of the land boom. The years that followed found land with debts that could not be maintained under the prevailing prices, being sold by the sheriffs of Iowa counties at the rate of 1 percent per year.

All of the foreclosures, assignments, and scaling down of the mortgages were getting under way as early as 1925 but did not become of great importance until 1931 when first mortgages became the problem. The drop in farm prices made it im-

TABLE 70. LAND VALUES AND FARM PRICES, STORY COUNTY.

Year	Sale price per acre	Index number of prices of farm products* (1910-14=100)	Year	Sale price per acre	Index number of prices of farm products* (1910–14=100)
1854	\$ 3.07		1900	\$ 47.52	65
	3.30 3.85	,	1901	53.02	71
	5.57	:::		62.64	76
	5.64			72.39 72.27	69 65
	5.39 5.44	• • • •		74.18	66
				81.75	71
1861	5.05			86.10	76 76
	5.58 4.59	• • • • • • • • • • • • • • • • • • • •		90.95 104.15	88
	6.49	1 :::	1	109.13	102
	7.26		1911	122.55	86
	6.49 7.34		1911	128.13	99
	7.99		<b> </b>	142.44	100
	9.85	84	ļ	162.64 170.35	113 109
	10.25	84	l	184.93	124
1871	10.69	65		194.70	193
	11.85	50 58		200.02	214 228
	11.93 12.39	78		289.29	197
	11.98	79		1	
	14.79	71	1921	284.60 178.31	104 117
	14.96 14.57	49		180.45	120
	14.67	46	į .	163,01	128
	14.00	57	1	150.14 162.70	154 144
1881	15.97	70	Į.	150.00	145
1001	17.96	80	ſ	143.00	152
	21.01	71 70	1	143.79 143.85	154 134
	20.54 21.29	57	ļ	140.60	134
	21.92	50	1931	134.08	88
	20.37	56 60	1932 1933	84.00 70.00	56 57
	22.30	48	1934	83.00	1 77
•	22.87	50			
4004	06.60	61	1		
1891	26.62 31.85	54	ł	1	1 :::
	37.45	68			
	36.74	61 58			1
	36.01 41.42	46		::::::	] :::
	39.46	50	}		1
	39.03	55 57			
	42.51	31		1	

<sup>\*</sup> Information collected by Department of Agricultural Economics, Iowa State College, Ames, Iowa. Source: Iowa Ag. Exp. Sta. Bul. No. 328. W. G. Murray and W. O. Brown.

possible for the obligations to be met. The Iowa index of farm prices dropped from 127 to 86 between 1930 and 1931. The percentage of

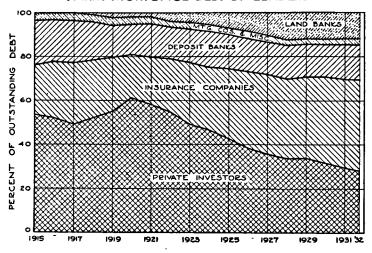
land sold at foreclosure sales increased and in 1932 when the index dropped to 56, foreclosures claimed 3 percent of the land.

TABLE 71. ESTIMATED LAND VALUE PER ACRE. (1912-14 = 100)

Geographical division and state	1920	1925	1927	1929	1931	1932	1933
New England States	140	127	127	126	126	116	105
Middle Atlantic States	136	114	111	109	101	96	82
East North Central States	161	116	104	100	87	73	62
West North Central States	184	126	115	112	97	81	64
Minnesota	213	· 159	145	138	116	98	79
IOWA	213	136	121	116	98	80	58
Missouri	167	112	99	95	79	67	55
North Dakota	145	109	100	98	85	73	66
South Dakota	181	115	97	95 `	83	67	55
Nebraska	179	. 123	119	116	106	90	69
Kansas	151	115	113	113	103	89	70
outh Atlantic States	198	148	137	132	116	96	80
ast South Central States	199	141	133	129	117	97	79
Vest South Central States	177	144	139	136	121	97	82
Iountain States	151	105	101	101	100 -	82	69
acific States	156	146	143	142	140	118	96
INITED STATES	170	127	119	116	106	89	73

Source: U. S. D. A. Bureau of Agricultural Economics, Cir. No. 854.

#### FARM MORTGAGE DEBT BY LENDERS



Private investors, deposit banks and mortgage companies did most of the foreclosing in the period from 1920-25, but from 1926 on a new group of mortgage holders gained importance. This group includes the institutional investors who held only first mortgages. Included in this classification are the insurance companies, the Federal Land Bank and joint stock land banks who in 1932 were responsible for 73 percent of the foreclosures.

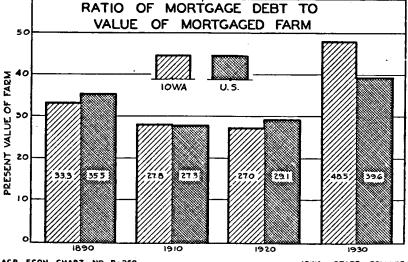
Deficiency judgments have also increased in all but one of the last 12 years. In 1921 only 26.5 percent of the land foreclosure sales ended with the land bid in for less than

Fig. 120. Insurance companies and other corporations have been gradually taking the place of private investors as the source of farm loans.

Data in table 77.

Fig. 121 shows that the mortgage debt per value of the mortgaged farm in Iowa decreased from 1890 to 1920 and increased rapidly from 1920 to 1930. In 1930, 48 percent of the land farmed was mortgaged. The chart also shows that Iowa's debt per value of the mortgaged farm increased more rapidly since 1920 than that of the United States.

Data in table 75.



AGR ECON. CHART NO. B-260

IOWA STATE COLLEGE

TABLE 72. FARM MORTGAGE DEBT OF FARMS OPERATED BY FULL OWNERS, 1980.

	<del></del>			
County	Amount of mortgage debt (Dollars)	Ratio of debt to value (Percentage)	Mortgage debt per farm (Dollars)	Mortgage debt per acre (Dollars)
Adair Adams Allamakee Appanoose Audubon Benton Black Hawk Boone Bremer Buchanan	4.124.270	53.04 50.92 50.69 49.36 52.18 45.98 49.01 43.70 50.76 51.43	10,539 8,431 7,155 4,650 10,403 12,078 9,187 8,719 7,276 7,849	63.88 57.28 39.26 34.76 74.39 73.87 75.26 74.62 62.37 56.57
Buena Vista Butler Calhoun Carroll Cass Cedar Cerro Gordo Cherokee Clickasaw Clarke	4,970,518	45.25	12,395	76.80
	4,668,438	52.88	9,626	66.60
	4,254,556	41.36	11,785	77.51
	6,573,825	46.89	13,420	80.52
	6,151,684	53.21	11,329	76.57
	6,607,297	51.87	12,905	86.00
	3,524,032	47.00	9,013	63.47
	3,920,502	50.36	12,647	73.87
	2,734,890	49.21	6,854	50.37
	2,961,016	58.53	7,896	48.31
Clay Clayton Clinton Crawford Dallas Davis Decatur Delaware Des Moines Dickinson	4,400,483	51.14	13,175	74.09
	5,991,214	47.79	8,368	56.07
	6,968,542	52.87	10,737	74.14
	7,793,827	48.94	12,694	70.85
	4,700,338	41.34	9,813	68.07
	2,357,424	51.25	4,901	34.80
	2,677,231	56.42	5,989	39.24
	4,551,357	51.35	9,582	62.79
	2,400,569	51.67	7,597	59.26
	2,546,233	52.01	11,023	66.16
Dubuque Emmet Fayette. Floyd Franklin. Fremont. Greene Grundy. Guthrie. Hamilton	6,018,718	45.00	8,723	54.45
	2,799,659	53.02	10,768	71.53
	4,590,875	50.03	7,041	52.47
	2,995,148	48.24	9,188	61.82
	5,921,444	51.58	12,986	79.68
	3,743,137	41.62	19,456	63.58
	4,359,258	47.10	12,420	78.84
	4,403,634	45.19	12,405	74.03
	4,771,767	50.19	8,804	62.01
	5,723,611	47.38	12,101	83.37
Hancock Hardin Harrison Henry Howard Humboldt Ida Iowa Jackson Jasper	3,994,801	46.39	10,349	65.24
	6,392,548	50.74	12,510	80.36
	5,996,226	46.66	8,517	63.44
	2,775,662	43.37	7,461	59.03
	1,891,259	45.51	6,567	45.28
	5,323,796	49.20	13,828	81.15
	4,449,386	49.94	15,396	84.59
	5,359,457	51.40	10,849	72.78
	4,787,527	55.56	8,269	49.50
	7,390,301	52.09	10,453	74.82
Jefferson Johnson Jones Keokuk Kossuth Lee Linn Louisa Lucas Lyon	3,060,496 6,287,856 5,098,875 4,589,001 7,609,932 2,642,530 6,531,280 2,585,370 2,117,991 4,548,107	52.63 50.50 52.25 46.68 48.08 45.80 46.14 49.65 53.71 49.31	7,768 10,804 10,427 7,778 12,022 6,430 7,439 10,467 5,771 13,496	55.18 77.21 67.49 59.60 69.51 47.71 74.84 65.66 37.49 73.15
Madison Mahaska Marion Marshall Mills Mitchell Monona Monroe Montgomery Muscatine	4,730,994	49.23	8,617	58.63
	5,864,568	50.93	8,926	76.18
	4,208,109	51.51	7,679	57.11
	5,016,092	47.53	10,428	73.71
	2,765,000	38.40	8,560	59.91
	3,377,167	44.88	8,443	55.53
	5,122,636	51.04	10,519	64.55
	2,163,913	48.56	5,009	35.77
	4,211,888	48.47	11,477	77.12
	3,636,244	49.31	9,854	72.24
O'Brien. Osceola Page Palo Alto Plymouth. Pocahontas Polk Pottawattamie Poweshick Ringgold	4,815,792	50.05	13,230	80.96
	2,725,693	50.83	12,561	69.92
	5,248,246	46.80	10,093	71.53
	3,999,577	50.60	11,833	69.65
	5,498,070	44.80	11,926	68.85
	4,730,619	44.51	12,255	76.67
	4,884,385	40.18	6,539	81.62
	9,166,782	46.42	9,241	77.51
	5,246,211	51.90	10,750	72.64
	3,422,947	52.11	6,860	44.07

County	Amount of mortgage debt (Dollars)	Ratio of debt to value (Percentage)	Mortgage debt per farm (Dollars)	Mortgage debt per acre (Dollars)
Sac Scott Shelby Sioux Story Tama Taylor Union Van Buren Wapello	2,466,909	44.38 44.09 48.53 47.08 48.18 48.44 49.97 47.68 49.52 47.58	12,929 8,797 13,153 12,345 11,487 11,472 7,880 7,562 5,846 5,599	76.03 82.11 79.03 81.30 83.18 73.40 56.39 54.61 39.89 51.72
Warren Washington Wayne Webster Winnebago Winneshiek Woodbury Worth Wright	4,104,155 5,366,578 3,047,843 5,875,591 3,267,795 4,631,705 7,776,880 3,041,810	48.19 46.02 56.08 47.36 49.95 45.57 45.11 48.34 50.83	6,761 10,242 6,927 11,991 8,856 7,170 10,624 8,568 13,212	55.32 69.77 43.07 79.97 64.55 51.36 70.32 55.44 78.93

Source: U. S. Census, 1930.

TABLE 73. FARM MORTGAGE DEBT SITUATION IN IOWA, 1915-1934. ESTIMATES BASED ON DATA FROM 13 TOWNSHIPS.

Year, as of December 31	Total farm mortgage debt	Percentage of land mortgaged	Debts per acre o	
1915	\$ 685,000,000	38%	\$ 54	
1916	761,000,000	39	57	
1917	865,000,000	42	62	
1918	961,000,000	42	67	
1919	1.070,000,000	42	77	
1920	1,500,000,000	42 42 47	96	
1921	1,610,000,000	48	100	
1922	1,597,000,000	49	98	
1923	1,618,000,000	50	96	
1924	1,605,000,000	51	94	
1925	1,531,000,000	50	91	
1926	1,471,000,000	50	87	
1927	1,394,000,000	49	85	
1928	1,348,000,000	49	81	
1929	1,311,000,000	49	80	
1930	1,265,000,000	48	78	
1931	1,197,000,000	48	75	
1932	1,083,000,000	45	71	
1933	998,000,000	45	66	
1934	924,000,000	1 43	63	

Source: Iowa Ag. Exp. Sta. Bul. No. 328. W. G. Murray and W. O. Brown.

TABLE 74. CLASSIFICATION OF FARMS BY DEBT PER ACRE OF LAND MORTGAGED IN 13 TOWNSHIPS.

	Number	of farms	Percent		
Debt per acre	Dec. 31, 1921	Oct. 15, 1932	1921	1932	
\$ 0-\$ 25	51	85	4.8	8.3	
26- 50	169	234	15.9	22.9	
51- 75	224	269	21.1	26.3	
76 100	180	280	16.9	27.4	
101- 125	111	68	10.4	6.7	
126- 150	111	53	10.4	5.2	
151- 175	76	13	7.1	1.3	
176- 200	44	l 5 l	4.1	.5	
201- 225	40	l. 7	3.8	.7	
226- 250	23	2	2.2	.2	
251 or more	35	5	3.3	5	
Total	1,064	1,021	100%	100%	

Source: Iowa Ag. Exp. Sta. Cir. No. 142. W. G. Murray and R. C. Bentley.

TABLE 75. COMPARISON OF LAND VALUES AND MORTGAGE DEBTS ON FARMS IN IOWA AND THE UNITED STATES.

	land and	value of buildings aged farm	de	mount of bt aged farm	Ratio of mortgage debt to value of mortgaged farm	
	United States	Iowa	United States	Iowa	United States	Iowa
April 1, 1930 January 1, 1920 April 15, 1910 June 1, 1890	\$8,997 11,465 6,289 3,444	\$19,853 34,662 14,574 3,964	\$3,561 3,356 1,715 1,224	\$9,626 9,358 4,048 1,319	39.6 29.1 27.3 35.5	48.5 27.0 27.8 33.3

Source: U. S. D. A. Bureau of Agricultural Economics.

TABLE 77. PERCENTAGE DISTRIBUTION OF OUTSTANDING DEBT BY LENDERS, 13 TOWNSHIPS.

Year as of December 31	Private investors	Insurance companies	Deposit banks	Mortgage companies misc.	Land banks	Total
1915	54	22	20	4	0	100
	61	20	14	3	2	100
	43	32	15	3	7	100
	32	39	15	2	12	100
	27	42	16	2	12	100

<sup>\*</sup> To Oct. 15, 1932. Source: Iowa Agr. Exp. Sta. Cir. No. 142. W. G. Murray and R. C. Bentley.

TABLE 78. ESTIMATED FARM MORT-GAGE HOLDINGS OF LENDERS IN IOWA, JAN. 1, 1935.

Lenders	Amount	Percentage of total
Insurance companies	\$369,000,000	40
Private investors	185,000,000	20
Federal Land Bank* Land Bank Commis-	168,000,000	18
sioner*	38,000,000	4
Toint stock land banks	35,000,000	4
Deposit banks	111.000.000	12
Miscellaneous	18,000,000	2
Total	\$924,000,000	100

<sup>\*</sup>Actual figures from statements of condition, Federal Land Bank, Dec. 31, 1934, Farm Credit Administration, Washington, D. C. P. 14.
Source: Iowa Agr. Exp. Sta. Bul. No. 328,
W. G. Murray and W. O. Brown.

Fig. 122. From 1915 to 1920, especially 1920, a large proportion of mortgage loans were used to buy land. After 1920 the loans were used mostly to renew mortgages on land purchased and for other purposes. Data in table 76.

TABLE 76. NEW LOANS CLASSIFIED BY PURPOSE. 13 TOWNSHIPS.

Year	Land purchase	Renewal land purchase	Miscella- neous	Total
1915	\$ 845,800	\$ 364,000	\$ 558,900	\$1,768,700
1916	899,400	639,000	383,900	1,922,300
1917 1918	1,156,300 1,356,100	848,600 366,400	546,600 298,100	2,551,500 2,020,600
1919 1920	1,444,300 4,111,800	406,600 683,100	317,700 894,500	2,168,600 5,689,400
		1	l '	' ' •
1921 1922	695,800 249,000	848,900 1,197,000	1,002,200 651,200	2,546,900 2,097,200
1923	403,500 343,700	1,501,000 919,100	834,200 746.524	2,738,700
1925	389,700	1,192,400	468,000	2,050,100
1926		738,771	645,066	1,818,358
1927 1928	513,000 233,300	466,487 701,250	354,070 748,177	1,333,557
1929 1930	153,050 154,294	383,410 502,200	555,465 521,657	1,091,925 1,178,151
		i '	· ·	1
1931 1932*	124,800 57,970	316,005 146,273	541,622 223,576	982,427 427,819

<sup>\*</sup>To Oct. 15, 1932. Source: Iowa Ag. Ex. Sta. Cir. No. 142. W. G. Murray and R. C. Bentley.

TABLE 79. LOANS CANCELLED AND REASONS FOR CANCELLATION.
13 IOWA TOWNSHIPS.

Year	Renewals (percent)	Sale of land (percent)	Forced Sales (percent)	Miscellaneous (percent)	Total (percent)
915	67.2	11.4	.3	21.1	100
920	40.9	34.4	,	24.7	100
925	57.0	12.6	13.7	16.7	100
930	47.8	6.2	22.7	23.3	100
931	38.8	2.1	39.4	19.7	100
932*	17.5	5.1	66.5	10.9	100
933**	24.9	3,1	62.3	9.7	100
1934	61.2	2.0	21.3	15.5	100

<sup>\*</sup> Oct. 15. \*\* Dec. 1. Source: Iowa Agr. Exp. Sta. Bul. No. 315. W. G. Murray.

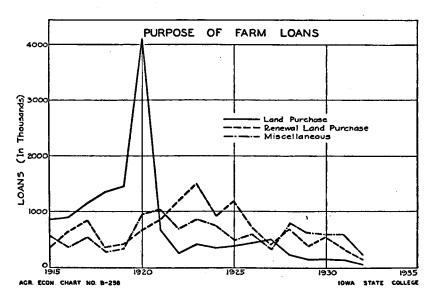


TABLE 80. LOANS PAID, CLASSIFIED BY REASON FOR PAYMENT, 13 TOWNSHIPS.

Year	Renewal	Sale of land	Forced sales	Miscella- neous	Total
1915	\$ 494,300	\$ 83,600	\$ 2,400	\$154,900	\$ 735,200
1916		281,800		186,300	1,239,000
1917 1918		369,700 369,300	2,000 800	288,700 311,400	1,612,500
1919 1920	592,900	361,600 624,100	3,600	233,300	1,191,400
	1 '	1 '	•••••	447,600	1,814,800
1921 1922		221,300	77,100 331,300	308,200 202,300	1,554,400 2,208,500
1923	1,610,800	333,100	228,700	326,400	2,553,000
1924 1925	1,250,300 1,546,500	314,900 341,800	307,200 371,100	258,800 454,900	2,131,200 2,714,300
1926	932,950	113,900	909,064	408,723	2.364.637
1927 1928	618,672 1,253,645	79,552 33,344	782,571 431,474	539,836 366,342	2,020,631 2,084,805
1929	729,231	71,125	265,643	374,908	1,440,907
1930	753,453	97,500	358,696	367,482	1,577,131
1931 1932*	619,496 251,561	33,670 74,000	629,824 959,135	315,492 157,280	1,598,482 1,435,682

\* To Oct. 15, 1932. Source: Lowa Agr. Exp. Sta. Cir. No. 142. W. G. Murray and R. C. Bentley.

TABLE 82. FORECLOSURES BY PRIVATE INVESTORS AND INSURANCE COMPANIES IN 16 IOWA COUNTIES 1927-34.

<u></u> 1	Number of foreclosure sales				
Year -	Private investors	Insurance companies			
1927	203	70			
1928	152	61			
1929	101	68			
1930	100	66			
1931	172	212			
1932	267	485			
1933	125	308			
1934	108	431			

Source: Iowa Agr. Exp. Sta. Bul. No. 328. W. G. Murray and W. O. Brown.

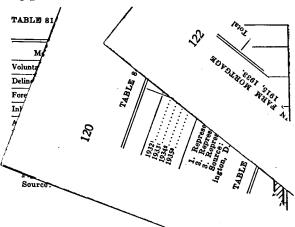


TABLE 83. FARM MORTGAGE FOREOD

Year	Number of foreclosures	Percentage of all land in farms	Total or judgments
1927	2,300	.97	\$ 25,000,000
1928	1,900	.86	21,000,000
1929	1,500	.67	17,000,000
1930	1,500	.59	15,000,000
1931	3,400	1.55	41,000,000
	6,400	2.91	76,000,000
	3,700	1.66	47,000,000
	3,900	1.80	49,000,000
Total		11.01	\$291,000,000

Total for the state estimated from complete records for 16 counties representing one-sixth of the state.

Source: Iowa Agr. Exp. Sta. Bul. No. 328. W. G. Murray and W. O. Brown.

# TOWNSHIPS INCLUDED IN MORTGAGE SURVEY

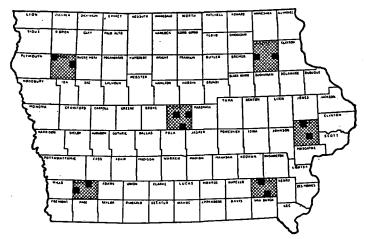


Fig. 123. The map shows the location of the 13 townships used by Mr. Murray and Mr. Bentley in their survey of mortgage conditions. Much of the data in this chapter is based on figures obtained in this survey.

the amount of the mortgage. By 1932, however, over 74 percent of the land failed to receive a bid that equalled the amount of the mortgage against it.

Since the advent of the insurance companies as sources of loans, deficiency judgments have increased in size. The aim of securing a bid that is less than the amount of the mortgage has been to make possible the appointment of a receiver so that the equivalent of rent may be collected from the property during the year that is allowed for the redemption of it.

## Interest Rates\*

In a study made of Story County, the 78 years of mortgage history were characterized by three distinct periods of interest rates. In the ear-

<sup>\*</sup> Iowa Agricultural Experiment Station, Res. Bul. No. 156, W. G. Murray.

## 'RICULTURAL ECONOMIC FACTS

ON OF L N IOWAR OF IOWA REAL ESTATE FOREOLOSURES.

lue of ldin	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
nited 198 174 ates 111	122 82 81 77	270 136 178 136	175 118 95	192 160 116	172 96 75	150 183 83	94 151 103	209 185 132	186 120 133	186 173 172

vision of Research and Statistics, Federal Home Loan Bank Board, Wash-

TABLE 77 5. PERCENTAGE OF FORECLOSURES BY LENDERS IN 16 COUNTIES.

Yerea Private Insurance Deposit Federal Land stock lar bank	d Mortgage co's Total and others
10 1921 65.4 4.6 22.3 1.5	6.2 100.0 9.4 100.0
1923   59.2   3.9   25.7     .3	10.9 100.0
1924   58.2   5.9   24.0     1.1   1.8	10.8 100.0 11.2 100.0
1926   59,2   10.7   19,7   .6   2.0   1927   53.7   18.5   19.0   .5   2.4	7.8 100.0 5.9 100.0
1928   49.5   19.9   20.8   1.6   3.6   1929   40.7   27.4   18.5   1.2   7.3	4.6 100.0 4.9 100.0
1930 41.2 27.2 18.9 .4 4.5 1931 31.2 38.5 13.4 2.4 10.2	7.8 100.0
1932 25.4 46.1 10.2 6.7 9.1 1933 20.8 51.3 8.2 5.3 12.2	4.3 100.0 2.5 100.0 2.2 100.0
1934 16.9 67.3 7.2 2.8 4.2	1.6 100.0

Source: Iowa Agr. Exp. Sta. Bul. No. 328. W. G. Murray and W. O. Brown.

TABLE 86. NUMBER OF FARMS PER 1,000 CHANGING OWNERSHIP BY FORECLOSURE, BANKRUPTOY AND RELATED CAUSES.

		1				<del></del>		
	1926	1927	1928	1929	1930	1931	1932	1933
Iowa	26.9	27.3	28.1	25.2	25.1	24.8	52.5	78.3
United States	17.4	18.2	17.6	14.8	15.7	18.7	41.7	54.1

Source: U. S. D. A. Bureau of Agricultural Economics, Cir. 209.

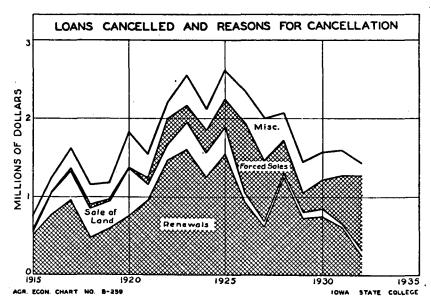


Fig. 124 shows that renewal of existing loans has been the way in which most Iowa farm loans since 1915 have been cancelled. During the last few years forced sales have tended to take the place of renewals.

Data in table 79.

liest, lasting from 1854 to 1880, the usual rate was 10 percent. In the next period, between 1881 and 1900, a transition from 10 to 5 percent took place. In the last period, interest rates remained almost continuously at 5 percent. (See fig. 127.)

An explanation of the prevailing high rate in the early years is to be found in the scarce supply of and the strong demand for funds. drop in the sixties is explained by the interest rate charged on school fund loans. After 1863 loans were made from these funds at 8 percent instead of 10. In the next decade most of the loans made out of the school funds were 10 percent mortgages. In the seventies a foreshadowing of the break away from 10 percent mortgages was evident in the increased number of 9 percent mortgages.

The second period, 1881-1900, included a complete change from a frontier region of 10 percent mortgages to a well established farming area of 5 percent mortgages. The average rate of interest on all loans, as shown in fig. 127 started at 8.6 percent in 1880 and ended at 7.1 in 1890. The decline in interest rates in the 20 years, 1881-1900, was the result of improved security, increased funds with more competition among lenders, and the absence of any large amount of land pur-chase activity. The increase in value of land during these years while prices of farm products remained practically constant, indicated an im-

loans.

In the third period, 1901-1931, the rate of interest most commonly charged was 5 percent.

provement of land as security for

#### Term of Loans

In the same study of Story County, averages for the 78-year period indicate that 5-year loans made up 48 percent of the total of loans for which information was available. Next in order came loans specifying a term of less than 5 years, 29 percent being loans of this class. Installment loans came third with 13 percent and loans for more than 5 years came last with 10 percent of the total.

Although for the entire period

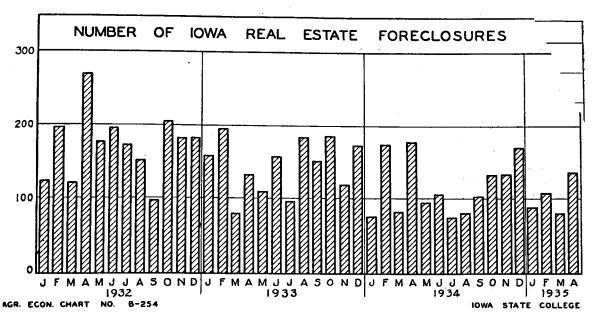


Fig. 125. The number of Iowa real estate foreclosures has decreased slightly since 1932. There is considerable

variation from month to month in the number of foreclosures. Figures represent about 30 percent of Iowa popula-

more 5-year loans were made than for any other term, records for the years 1854-70, showed a preponderance of loans with a term of 1 year or less. Of 378 loans made in the fifties, as shown in table 91, 193 were for 1 year or less, 85 for from 1 to 4 years and 11 months, and 82 for 5 years. The sixties, with 478 loans for 1 year or less, and 309 for 5 years, fall in the same category as

the fifties. One exception was the rise in installment loans from 12 in the fifties to 384 in the sixties.

The trend toward more 5-year loans which started in the decade, 1871-80, reached a climax in the decade, 1901-10, with 2,270 loans in this class or 64 percent of all loans carrying term information. In the years 1911-20, a smaller percentage of 5-year mortgages was counterbalData in table 84.

anced by an increase in the percentage of long term installment and long term one-payment loans. The land banks with 126 loans to their credit were partially responsible for this as were also lenders who granted 10-year loans; a type of loan which increased in number to 204 in this period.

A further advance was scored by amortization in the decade, 1921-30, their total rising from 126 to 221. Contrary to the preceding decade, however, 10-year loans slumped to a total of 98. Loans with a term of from 6 to 9 years also declined in this recent decade. On the other hand, loans for less than 5 years increased. Thus a peculiar situation existed, increases being registered in long-term installment loans over 30 years and in loans under 5 years, and decreases being registered in all classes of loans in between. Although short-term loans increased in number, it was because the borrowers were forced to take whatever terms they could get, and the lenders, with the exception of land banks, chose short-term mortgages in order to keep their funds as liquid as possible.

TABLE 87. LAND VALUES, ACREAGE IN FORECLOSURE AND ACREAGE INVOLVED IN DEFICIENCY JUDGMENTS IN 15 COUNTIES.

	Land values	Total ac	eage in pe	rcentage		Deficiency	acreage in p	ercentage
County	per acre 1930 census	1921-25	1926–30	1931–32	Total 1921- 32	1921-25	1926-30	1931-32
Boone. Cedar Cerro Gordo Cerro Gordo Cherokee Clarke Fayette Guthrie Hancock Harrison Jefferson Linn Lyon Lyon Pocahontas Story	\$152 151 115 140 78 95 113 125 122 95 143 135 145 153	4.06 7.09 6.66 7.08 2.98 2.06 3.2 3.2 2.6 3.3	21185329392208754432154	158037858454772 2253378584544772	8.2 7.2 19.6 8.4 27.4 11.5 17.7 16.6 15.4 10.8 9.2 9.8 8.1 13.9 13.3	1. 63 1. 23 	.73 1.18  91 4.89 1.75 3.32 3.60 2.27 3.21 1.68 .96 2.30	1.79 1.99 1.95 7.84 2.85 5.28 4.02 3.14 3.01 2.06 4.15 3.34 3.84
Average		4.28	4.31	4.39		1.62	1.97	3.38

Source: Iowa Agr. Exp. Sta., Cir. 147. W. G. Murray and R. C. Bentley.

 $\vdash$ S

TABLE 88. NUMBER AND SIZE OF DEFICIENCY JUDGMENTS, 14 COUNTIES—1915-1932.

		Number		İ	Amount	
Year	All judgments	Deficiency judgments	Percent of all judgments	Total judgments in deficiency cases	Deficiency	Percent of total judgments
1915	28	6	21.4	\$ 20,758	\$ 6,205	29.9
1916	27	4	14.8	25,702	7,912	30.8
1917	16 24	2 4	12.5 16.6	5,781 42,583	1,691 32,186	29.3 75.6
1919 1920	15 23	··· <b>4</b>	17.4	47,619	22,362	47.0
1921	117	31 83	26.5 28.4	391,876	130,276	33.2 24.0
1922 1923	292 280	103	36.8	1,111,086 1,485,759	266,567 306,220	20.6
1924 1925	337 339	132 143	39.2 42.2	1,887,476 1,905,501	365,046 311,707	19.3 16.4
1926	310	137	44.2	1,578,493	257,818	16.3
1927 1928	347 277	131 124	37.8 44.8	1,487,016 1,370,305	284,676 344,128	19.1 25.1
1929 1930	225 224	102 129	45.3 57.6	1,343,673 1,317,789	218,515 227,191	16.3 17.2
1931	507	368	72.6	4,520,545	739,512	16.4
1932*	848	628	74.1	7,871,053	934,068	11.9
Total	4,236	2,131	50.3	\$26,413,015	4,456,080	16.9

<sup>\*</sup> To Dec. 1, 1932.

TABLE 90. NUMBER OF MORTGAGES CLASSIFIED BY RATE OF INTEREST CHARGED.

	Rate of interest							Interest
Years	10	9	8	7	6	5	Total	rate not given
1854-1860 1861-1870 1871-1880 1881-1890 1891-1900 1901-1910 1911-1920 1921-1930	235 847 2,776 462 8 1 4	1 4 196 26 . 1	3 278 359 1,967 932 186 161 361	5 31 89 481 1,448 207 265 315	12 63 69 662 1,315 998 1,266 940	1 1 2 5 393 2,133 2,369 1,409	257 1,224 3,491 3,603 4,097 3,525 4,065 3,069	158 302 408 223 147 81 361 711

Source: Murray, W. G .- Iowa Agr. Ex. Sta. Research Bul. No. 156.

TABLE 89. NUMBER OF DEFICIENCY JUDGMENTS 15 5 5 5 FORECLOSURE SALES BY LENDERS—16 COUNTIES;

Year	Private investors	Insurance companies	Deposit banks	Mortgage companies	Federal land bank	Joint stock land banks	Miscella- neous	∥ ð. <sup>′</sup>
1915	3	•••	4	1			· · ·	8
1916 1917 1918 1919	5 1 3 	 1 	i i ···	"i … "i	:: سنة ::	::	::	5 3 5 
1921 1922 1923 1924 1925	27 76 83 92 98	1 2 6 14	6 11 21 30 25	1 - 8 6 13 19	   2	  2 6	 3 2 1	34 96 115 145 165
1926 1927 1928 1929	91 81 64 45 58	12 19 13 22 30	37 30 38 23 29	7 6 8 8 7	2 1 5 3 1	5 8 11 13 9	1 1  2 8	155 146 139 116 142
931 932 933*	108 183 68	139 365 178	58 75 35	14 12 8	13 62 34	54 84 63	5 6 1	391 787 387
Total	1,089	802	424	120	123	255	30	2,843

<sup>\*</sup> To Dec. 1, 1933.

Source: Iowa Agr. Exp. Sta. Bul. No. 315. W. G. Murray.

TABLE 91. PERCENTAGE DISTRIBUTION OF MORTGAGES GIVEN BY SPECIFIED TERM.\*

Years	0 to 4 Yrs. 11 mos.	5 Years	5 Yrs. 1 mo. and over	Installment	Total
1854-60	73	22	2	3	100
1861-70	51	22	1	26	100
1871-80	37	33	6	24	100
1881-90	29	46	10	15	100
1891-00	27	52	10	11	100
1901-10	20	64	11	5	100
1911-20	20	56	16	l 8	100
1921–30	30	50	8	12	100
Total	29	48	10	13	100

\* Based on a study of Story County. Source: Murray, W. G., Iowa Agr. Exp. Sta. Res. Bul. No. 156.

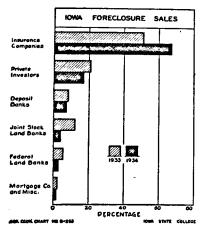


Fig. 126. Insurance companies fore-closed even a higher percentage of the total land foreclosed in 1934 than in 1933. In 1933 they foreclosed 51.3 per-cent, and in 1934 they foreclosed 67.3 percent.
Data in table 85.

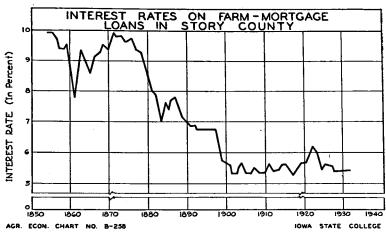


Fig. 127. The above chart shows that interest rates have been moving down since 1855 and now average between 5 and  $5\frac{1}{2}$  percent.

#### CHAPTER V. IOWA FARM TAXES

I OWA in 1934, with a total taxable farm acreage of 34,298,559, had \$30,425,323 of taxes levied to be collected in 1935 or a tax of 89 cents per acre.

From 1919 to 1932 farm taxes per \$100 of real estate value gradually increased until they were approximately three times higher than in 1919. The combined effects of land values gradually decreasing and taxes increasing brought about

this change.

As is shown in fig. 129, prices increased more rapidly than taxes until 1919. Using 1913 as 100, taxes rose to 225 in 1922 and remained near that figure until 1931, when they declined to 202. In 1932 they declined to 183. In other words, taxes were 83 percent higher in 1932 than they were in 1913. Taxes have declined further since 1932. While taxes in 1932 were considerably higher than they were before the war, farm prices were only 55 percent of the pre-war level. The taxpaying power of Iowa farm products in 1932 was 30 percent of what it was in 1910-14. Since 1932 the situation has been helped by the increase in prices and the decrease in taxes.

The principal reason for the increase in taxes is that from year to year new functions, new services have been assigned to the various government agencies. People have been buying more government services, such as better schools, the safeguarding of the public health, and the care of unfortunates.

There has been a tendency in recent years to lighten farm property taxes in relation to total taxes. Over a long period, property taxes have not actually declined, but the proportion they make of total taxes has declined because of the increase in other taxes. Property taxes have declined considerably since 1930. In 1912 only 3 percent of state and local taxes were produced by sources other than the property tax. In 1935, about 35 percent came from other sources. Under the present law general state administrative expenses will be mostly financed by

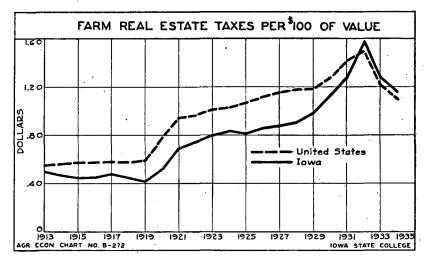


Fig. 128. Farm real estate taxes per \$100 of value increased rapidly from 1919 to 1932. Since then there has been a sharp decline. Iowa taxes averaged less than those for the rest of the country until 1932, but have been slightly more since then.

TABLE 92. TAX PAYING POWER OF IOWA FARM PRODUCTS.

Year	Index of Iowa taxes 1913=100	Index of hog prices 1910–14 = 100	Ratio of taxes to hog prices	Index of cattle prices 1910-14 = 100	Ratio of taxes to cattle prices	Index of corn prices 1910–14 = 100	Ratio of taxes to corn prices
1 car	1713 - 100	1710 14-100	prices	1710-14-100	prices	1710-14-100	prices
1913	100	105	95	110	91	98	102
1914		105	95	115	87	115	87
1915	108	89	121	109	99	121	89
1916	115	117	98	121	95	134	86
1917	132	196	67	153	86	250	53
1918	136	224	61	184	74	252	54
1919	169	229	74	194	87	267	63
1920		• 177	111	160	123	219	90
1921	215	104	207	101	213	76	283
1922	225	116	194	108	208	91	247
1923	224	95	236	115	195	129	174
1924		100	220	116	190	159	138
1925	206	151	136	133	155	170	121
1926	204	159	128	125	163	115	177
1927	203	131	155	140	145	140	145
1928	206	117	176	171	120	153	135
1929	218	129	169	169	129	148	147
1930		120	185	144	154	132	168
1931		77	262	102	198	81	249
1932		44	416	77	238	44	416
1933	162	46	352	68	238	51	318
1934	152	57	267	78	195	108	141

Source: Agr. Ec. Sec. Iowa State College, Revised September 15, 1935.

the sales tax and other revenue, and will not be dependent upon the property tax.

The sales tax that went into effect in 1934 was intended to lighten the property tax. It assesses the tax on the retailer who passes it on to the consumer in the form of a levy of 2 percent of the price of the article. This tax makes it possible to collect

from many professional men and wage earners who otherwise would not have to pay direct taxes. The sales tax lightens the tax on property for the administrative functions of the government and puts a larger proportion directly upon the people who benefit from them.

Public schools are entirely dependent upon the property tax for their

TABLE 93; FARM REAL ESTATE TAXES PER \$100 OF VALUE.

Year	Iowa	United States
1913	\$ .50	\$ .55
1914	.46	.56
1>15	.44	.57
1916:		57
1917	.48	.58
<b>1</b> 918		.57
1919	.41	j .59
1920	.52	j .79
1921	.69	.94
1922	.75	.96
1923	.80	1.01
1924	.83	1.03
1925	.81	1.07
1926	. 86	1,12
927	.88	1.15
1928	.90	1.18
929	98	1.19
1930	1.14	1.28
931	1.28	1.42
932	1.59	1.50
933	1.28	1.21
934	1.16	1.11

U. S. D. A. Bureau of Agri. Source: Economics.

support. Differences in school facilities may often be explained by the differences in school taxes between districts.

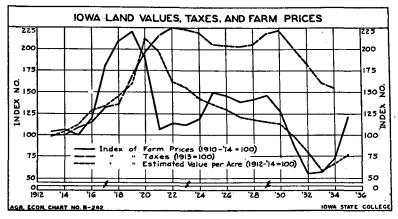
The gasoline tax has taken from property a large percentage of its burden of supporting the upkeep and construction of highways. In 1912 about 93 percent of the highway funds came from property. While in 1934 only 27 percent came from the latter. A 3-cent tax on gasoline has been an important means of improving Iowa's highways.

#### Expenditures<sup>1</sup>

Of the total tax income of the state (see table 96) the largest proportion is spent by the state government, nearly \$41,000,000 in 1934. The schools come next with about \$36,000,000. This does not include the institutions under the control of the State Board of Education. Counties spent nearly \$32,000,000 and towns and cities spent about \$12,000,000.

The charts in fig. 133 show the income and expenditures of the state government, the county governments and the public schools in 1931-32.

About half the state's expenditures are for roads. The institutions under state control take about one-quarter and the remaining quar-



The above chart shows the course of farm prices, taxes and land values in Iowa since 1913. It will be noted that taxes are far above their pre-war relationship with land values and farm prices. Data in table 94.

ter is divided among minor items, of which an important one is local receipts of the state schools spent by the board of education. All but oneeighth of the total money received by the state gvernment goes for primary roads and state institutions.

The county governments also use about one-half of their funds for roads, about 28 percent for maintenance and about 21 percent for construction. Care of the poor and care of insane in state hospitals cost the average county about 15 percent of total receipts, about the same as the cost of maintaining the county offices.

The school system of Iowa uses about 62 percent of its receipts for teachers' salaries. Interest and principal payments on the school bonds cost about as much as the fuel, rent and janitor charges.

These expenditure charts, it should be remembered, are made on the basis of 1931-32 figures and are not comparable with the tax figures in this section.

TABLE 94. IOWA TAX BURDEN PER ACRE.

Year	Tax per acre¹	Land values <sup>1</sup>	Percent tax is of land value	Index of farm prices	Index of taxes	Index of estimated value per acre³
1913	\$ .56	\$ 118	.47	104	100	99
	.56	124	.45	107	100	104
1914	.60	134	45	100	108	112
1915	.64	153	.42	120	115	128
1916		160	.46	182	132	134
1917	.74	100	.40	102	102	1
	.76	174	.44	209	136	145
1918		192	.49	220	169	160
1919	.94		.43	188	197	213
1920	1.10	255		107	215	197
1921	1.20	235	.51			162
1922	1.26	194	.65	114	225	102
4004	1.25	186	.67	113	224	156
1923	1.23	171	.72	119	220	143
1924			.71	150	206	136
1925	1.15	162		146	204	130
1926 ,	1.14	155	.74		203	121
1927	1.14	145	.79	139	203	121
	1.32*	140	.94	141	206	117
1928		139	1.00	146	218	116
1929	1.40	135	1.00	127	222	113
1930	1.40			86	202	98
1931	1.22	117	1.00		183	80
1932	1.12	90	1.20	55	163	
	.98	65	1.50	57	162	58
1933		80	1.12	74	152	67
1934	.89	80	1.12	i '*	1 -5-	1

Source:

<sup>&</sup>lt;sup>1</sup> Hopkins, John A. The agricultural emergency in Iowa. VI. The Iowa tax situation—an analysis for farmers. Iowa Agr. Exp. Sta., Cir. 144. 1938.

U. S. D. A. Bureau of Agr. Economics.
U. S. D. A. Circular 309. 1912-14 = 100.
Agr. Econ. Sec., Iowa State College. 1910-14 = 100.
\* From 1928 on, the tax per acre was furnished by the State Board of Assessment and Review, Des Moines, Iowa.

Fig. 130. The bars in the chart show the level of total state and local taxes in Iowa for the years named. The line running through the bars shows the percentage of total taxes coming from the general property tax. In 1912 nearly all our taxes came from property. In 1935 nearly 40 percent of the tax bill was paid through other-than-property taxes.

Data in table 98.

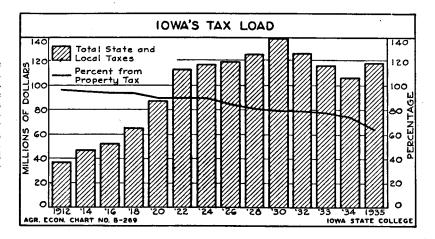


Fig. 131. The bars in this chart show the total taxes levied in Iowa for general state purposes, and the line running through the bars shows the percentage coming from property taxes. General state expenses were about three-fourths paid by property taxes in 1912. But in 1935 these expenses were met mostly by special taxes, income taxes, the sales tax and others, leaving less than 20 percent to be borne by property.

Data in table 99.

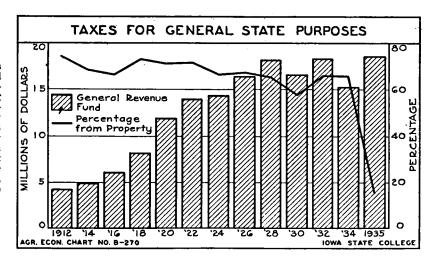
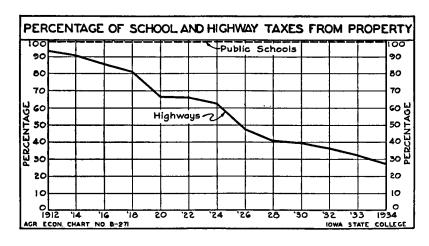


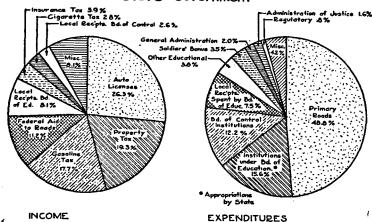
Fig. 132. Almost all school expenses in Iowa are paid from the general property tax. The burden of highway construction and maintenance, however, has been shifted to other taxes and now only slightly more than one-fourth is paid from property taxes.

taxes.
Data in table 101.

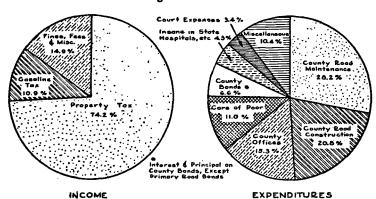


# INCOME AND EXPENDITURES OF IOWA ADMINISTRATIVE UNITS •

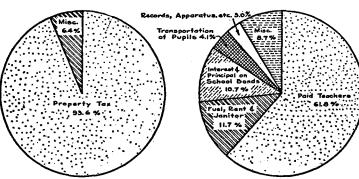
#### State Government



# County Governments



#### Schools



INCOME AGR.ECON. CHART NO. B-36021

EXPENDITURES
JOWA STATE COLLEGE

#### Delinquent Taxes1

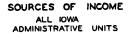
Tax delinquencies have been the barometer of the farmer's ability to carry the tax load. Iowa has over 220,000 farms, comprising an area slightly in excess of 34 million acres. During the year 1932, the peak year of current tax delinquencies, more than 102,000 pieces of property failed to meet their tax payments on time. These delinquent properties represented over 12 million acres, or approximately 35 percent of the farm land in the state. This unprecedented delinquency was partly remedied as to number of properties in 1933. The percentage of total land area on which taxes were unpaid changed little, however. For 1929-1933, farm land involved in tax delinquency increased threefold, from 4 million to 12 million acres.

While the 250 percent increase in current delinquency from 1929 to 1932 showed the pressure of economic depression, the more significant and alarming fact was the accumulation and carrying forward of unpaid taxes of not only the current year but also of previous years. Total taxes unpaid at the close of the collection year increased from .2 percent in 1929, to 14 percent of the total levy in 1933, or a 69 fold increase for the 5 years.

The southern pasture area showed the largest percentage of farm tax delinquency during the earlier years, 1929-31, indicating the farm distress that existed in that area of the state prior to the general decline in prices. The effects of high mortgage indebtedness, relative to the productive value of the land, incurred during and following the World War was a contributing factor to the distress that already was apparent in southern Iowa prior to 1930.

<sup>1</sup> Bentley, R. C., and Himmel, John P. Tax delinquent farm land in Iowa, Iowa Agr. Exp. Sta., Bul. No. 325. 1935.

Fig. 133. The pieces in the "pie" charts shown at the left represent the proportions of state, county and school income coming from different sources and the proportions of total revenue going for specific purposes for the 1931-32 fiscal year.



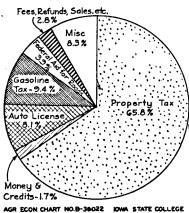


Fig. 134. This diagram shows the proportion of total state, county and city governmental income which comes from different tax sources.

The two livestock feeding areas of the state had the lowest percentage of delinquency and with the exception of 1933 remained in relatively the best condition. The dairy and cash grain areas held a position between the southern pasture and livestock areas until 1932 when some interesting changes took place. The cash grain area in 1932 and 1933 showed the highest delinquency in the state, even more than the southern pasture area. Up until 1933, the dairy area had more delinquency than either of the two livestock feeding areas.

The accumulative effect of unpaid taxes reached its peak in 1932. The most striking pyramiding of outstanding delinquent or of unpaid taxes was recorded in the cash grain area. The improvement of feed grain prices in 1933, however, was reflected in the relatively smaller increase in outstanding delinquency in the cash grain area that year as compared with the other states. The livestock feeding areas and the dairy area incurred the greatest increases in 1933 over 1932.

The relatively heavy tax delinquency in the southern pasture area, even prior to the drastic price decline of the thirties, makes it probable that. even before the emergency situation, this area was suffering from economic maladjustments mak-

TABLE 95. FARM TAXES IN IOWA.

	4014	1024	1 .0.4	4015	Lour
Counties	1934	1934 Net adjusted	Average millage	1935	1935
	Acres of land assessed	taxable value farm land	levied in rural districts*	Total tax	Tax per acre
Adair. Adams. Allamakee Appanoose Audubon Benton Black Hawk Boone Bremer Buchanan	356,005 265,098 396,764 314,773 275,781 440,939 340,143 347,874 265,613 348,191	\$ 15,418,821 11,749,918 11,875,484 9,344,920 15,153,822 25,237,366 18,553,915 20,530,863 13,940,626 15,210,635	17.00 17.88 18.72 19.21 18.05 17.37 17.82 21.74 14.77	\$ 262,119.96 210,088.53 222,309.06 179,515.91 273,526.49 438,373.05 330,630.77 446,340.96 205,903.05 265,729.79	.74 .79 .56 .57 .99 .99 .97 1.28 .78
Buena Vista Butler Calhoun Carroll Cass. Cedar Cerro Gordo Cherokee Chickasaw Clarke	352,851 353,046 349,537 351,684 350,209 356,008 345,720 355,685 309,082 266,960	20,952,233 17,210,179 20,621,411 20,678,603 18,735,451 19,375,609 16,868,972 20,248,440 12,450,730 9,692,768	17.94 14.95 16.22 12.84 17.11 19.81 18.37 18.75 14.53 16.23	375,883.06 257,292.18 334,479.29 265,513.26 320,563.57 383,830.81 309,883.02 379,658.25 180,909.11 157,313.62	1.07 .73 .96 .75 .92 1.08 .90 1.07 .59
Clay Clayton Clayton Crawford Dallas Davis Decatur Delaware Des Moines Dickinson	350,335 463,890 421,807 442,110 364,076 318,544 330,578 352,703 252,132 231,783	17,199,278 19,105,240 20,753,518 24,769,392 21,067,967 9,152,104 8,931,749 17,563,982 11,405,609 9,821,485	19.21 18.41 20.21 15.27 18.99 17.28 23.99 17.34 22.35 22.29	330,398.13 351,727.47 419,428.59 378,228.62 400,080.69 158,148.36 214,272.66 304,559.45 254,915.36 218,920.90	.94 .76 .99 .86 1.10 .50 .65 .86 1.01
Dubuque Emmet Fayette Floyd Franklim Fremont Greene Grundy Guthrie Hamilton	367,383 241,916 444,084 304,921 358,690 311,288 355,086 311,811 371,143 354,486	17,081,735 10,979,280 19,303,382 13,345,566 19,130,343 14,875,375 19,763,393 17,493,642 17,417,026 19,598,515	18.31 20.43 18.54 19.50 19.90 24.72 18.55 17.82 19.79 17.73	312,766.57 224,306.69 357,884.70 260,238.54 380,693.83 367,719.27 366,610.94 311,736.70 344,682.94 347,481.67	.85 .93 .81 .85 1.06 1.18 1.03 1.00 .93
Hancock. Hardin Harrison. Henry Howard Humboldt Ida Iowa Jackson Jasper	350,329 348,406 430,370 264,012 291,724 267,690 267,687 359,512 394,440 450,515	15,936,131 19,313,825 19,765,839 12,787,889 10,532,371 13,828,322 15,762,585 18,057,699 14,082,586 23,459,765	17.63 17.11 19.68 24.25 18.08 15.91 16.02 16.81 18.05	280,953,99 330,459,55 388,991,71 271,742,64 190,425,27 220,008,60 252,516,61 303,549,92 254,190,68 424,152,55	.80 .95 .90 1.03 .65 .82 .94 .84 .64
Jefferson Johnson Jones Keokuk Koskuth Lee Linn Louisa Lucas Lyon	267,819 382,309 354,195 355,836 601,948 310,829 440,339 244,482 274,101 361,493	10,884,672 19,467,381 17,486,103 16,911,197 27,892,707 13,509,319 22,283,378 10,864,271 9,614,913 18,126,258	19.62 17.56 17.85 18.31 16.16 17.26 20.86 23.65 18.01	213,557.26 341,847.21 312,126.94 309,644.02 450,746.15 233,170.85 464,831.27 256,940.01 173,164.58 267,181.04	.80 .89 .88 .87 .75 .75 1.06 1.05 .63 .74
Madison. Mahaska Marion Marshall Mills Mitchell Mitchell Monona Montgomery Muscatine	350,324 353,097 347,890 351,392 260,776 288,432 422,491 267,903 260,898 263,516	15,683,678 17,459,796 17,009,019 20,589,979 12,633,496 13,349,699 17,795,524 8,695,521 13,395,180 12,611,590	17.63 17.55 18.17 21.05 19.69 19.04 20.53 18.50 18.49	276,503.24 306,419,41 309,053.88 433,419.06 248,753.54 254,178.27 365,342.11 160,867.14 247,676.88 232,557.72	.79 .87 .89 1.23 .95 .88 .86 .60 .95
O'Brien Osceola Page Palo Alto Plymouth Pocahontas Polk Polt Pottawattamie Poweshiek Ringgold	351,737 245,593 327,237 350,024 531,307 355,487 321,421 571,468 366,101 336,856	20,958,400 12,280,374 18,034,954 16,956,054 29,116,551 18,471,056 18,830,142 32,304,297 18,253,897 11,725,735	16.34 16.44 19.46 19.68 14.78 19.49 27.32 20.05 17.93 17.35	342,460.26 201,889,35 350,959.64 333,695.14 430,342.62 360,000.88 514,439.48 647,701.15 327,292.37 203,441.50	.97 .82 1.07 .95 .81 1.01 1.60 1.13 .89 .60
SacScott.Shelby.Sioux.Story.Story.Shelby.Sioux.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Story.Stor	355,220 271,015 364,898 469,039 346,873	21,569,911 16,642,942 19,748,288 27,838,075 20,274,693	14.41 17.84 15.97 13.44 19.82	310,822.42 296,910.09 315,380.16 374,143.73 401,844.42	.88 1.10 .86 .80 1.16

TABLE 95. FARM TAXES IN IOWA-Continued.

	1934	. 1934	1934	1935	1935
Counties	Acres of land assessed	Net adjusted taxable value farm land	Average millage levied in rural districts*	Total tax	Tax per acre
Tama	445,676	24,130,402	17.93	432,658.11	.97
Taylor	326,731	13,426,681	15.38	206,502.35	.63
Union	263,108	9,475,453	21.46	203.343.22	.77
Van Buren	301,923	8,435,907	19.00	160,282,23	.53
Wapello	261,546	11,215,073	22.92	257,049.47	.98
Warren	349,171	16.640.538	19.50	324,490,49	.93
Washington	349.392	18,239,741	15.87	289,464,69	.83
Wayne	323,606	9,975,127	19.87	198,205.77	.61
Webster	438.375	23,949,224	20.98	502,454.72	1.15
Winnebago	246,972	10.360.519	20.30	210,318.54	.85
Winneshiek	425.028	18,634,271	14.94	278,396.01	.66
Woodbury	524.572	26,077,736	20.90	545,024,68	1.04
Worth	247.680	10,316,711	18.11	186.835.64	.75
Wright	355,019	18,122,210	16.64	301,553.57	.85
Total	34,298,559	\$1,664,404,973	18.28	\$30,425,322.91	.89

<sup>\*</sup> Levied in 1934 to be collected in 1935. Source: State Board of Assessment and Review.

TABLE 96. DISTRIBUTION OF TAXES IN IOWA."

Source of income	Total	To state	To counties	To schools	To municipalities
Property tax levied	79,124,474	7,666,515	25,137,544	34,748,425	11,571,990
Money and credits levied	2,039,040	481,086	413,824	745,166	398,964
Auto licenses	9,799,161	8,816,443	982,718	********	
Gasoline tax	11,325,858	6,981,858	4,344,000		
Federal aid for roads	4,723,434	4,723,434	1	*****	
Insurance tax	1,292,271	1,292,271			
Inheritance tax	851,168	851,168			
Equipment tax	27,512	27,512			
Cigarette stamp tax	1,194,494	1,194,494			
Fees, refunds, sales, etc	3,336,390	3,336,390	1		1
Funds from other road	3,330,370	0,000,070	1 1		
accounts	1,549,043	1.549.043	1		
Trust fund receipts aside	1,349,043	1,349,043			
from road funds	988,781	988.781	1		
	λδο'197	900,101	*******	• • • • • • • • •	•••••••
Special funds for specific	9 044 033	2,918,902	i I	145,131	
_ purposes	3,064,033		207 000	•	
Poll tax	307,889		307,,889		
Delinquent road tax	253,561		253,561		
Motor vehicle carrier tax	312,226		312,226		
Truck operator	52,904	*********	52,904		
Miscellaneous	8,879	8,870		• • • • • • • • • • •	1
Fees, refunds, sales, etc.,			1 1		i
handled by county or					l.
local officials	(not available)		(not available)		L
Total	120,251,109	40,836,767	31,804,666	35,638,722	11,970,954

<sup>\*</sup> Tax levy made in 1933 to be collected in 1934. Source: Board of Assessment and Review.

TABLE 97. COLLECTION OF TAXES IN IOWA.\*

By state officials, July 1, 1933, to June 30, 1934	By county officials, January 1, 1933, to January 1, 1934
Inheritance tax	Rural districts property tax
Total\$28,361,854	Total\$91,889,

<sup>\*</sup> Tax levy made in 1933 to be collected in 1934. Source: Board of Assessment and Review.

ing it relatively difficult for farmers in southern Iowa to pay taxes. It is apparent that the cash grain area, because of the relatively greater decline of corn and oat prices, experienced the greatest price and income dislocation attributed to the agricul-tural emergency. That the cash grain area suffered the severest shock from the price decline which started in 1930 is evident from the fact that this area, which had the lowest delinquency in 1929 and 1930, recorded the highest percentage of outstanding delinquent taxes in 1932 and 1933. In contrast, the dairy area withstood the agricultural emergency better than any other area, measured in terms of unpaid farm real estate taxes. Farm prices of butter declined relatively less than other farm commodity prices affecting Iowa farm income.

There was considerable variation in the concentration of delinquency between counties and townships. One township, in 1933, showed as high as 81 percent of its land area delinquent, while others reported as low as 1 percent. Figure 135 helps to visualize the extent and distribution of delinquency and its increase for the 5-year period.

TABLE 98. ALL STATE AND LOCAL TAXES.

Date	Property	Special	Total	Property percentage of total
912	\$ 36,197,221.58	\$ 1,094,169.00	\$ 37,291,390,58	97.1
	45,415,792.83	1,732,486.20	47,148,279.03	96.3
	50,050,164.53	2,552,549.52	52,602,714.05	95.1
	61,760,475.49	3,612,342.82	65,372,818.31	94.5
	79,872,708.75	9,018,660.29	88,891,369.04	89.9
922	104,225,257.31	10,302,164.22	114,527,421.53	91.0
	106,861,583.67	11,888,163,45	118,749,747,12	90.0
	101,709,575.19	18,634,450.01	120,344,025.20	84.5
	102,136,679.49	23,760,164.96	125,896,844.45	81.1
	110,754,929.08	29,063,263.07	139,818,192.15	79.2
932	100,247,342.91	26,642,480,48	126,889,823.39	79.0
	91,243,765.00	25,251,009,49	116,494,774.49	78.3
	81,162,514.00*	25,833,588,88	106,996,102.88	75.9
	76,889,902.42**	42,364,514,83	119,254,417.25	64.5

TABLE 99. GENERAL STATE REVENUE RECEIPTS.

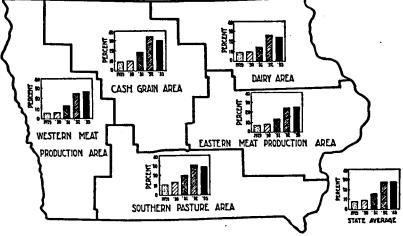
Date	Property tax	Special taxes	Other revenue	Total	Property tax percentage of total
912	. \$ 3,054,273,96	\$ 608,869,00	\$ 466,447,86	\$ 4,129,590,82	74.0
14	3.358.287.04	759,746,70	775,848.16	4,893,881,90	68.6
16		872 625 14	1,189,713,53	6,100,998,28	66.2
18	6,065,554.15	1.064.747.02	1,182,934,46	8,313,235.63	73.0
020		1,511,458.21	1,950,778.14	11,908,992.03	70.9
22	9,853,496,95	2,378,776.16	1,524,020,29	13,756,293,40	71.6
24	9.515.764.82	2,908,700.25	1,895,165,55	14.319.630.62	66.5
26		3,345,032,45	2,050,045,46	16,407,850,13	67.1
28		3,862,238.78	2,418,061.53	17.941.236.11	65.0
30		4,357,453.84	2,644,161.87	16,558,687.41	57.7
32	12,013,201.76	3,946,052.63	2.268,673,64	18,227,928.03	65.9
34	9,973,166.60	3,365,444,68	1,863,223.06	15.201.834.34	65.6
35		13,706,387,78	1,974,659.75	18,517,887,92	15.3

\* No property tax was levied for the state general revenue fund for this fiscal year, but delinquent taxes of \$1,250,000 and a series of small levies by the counties amounting to \$1,56,840.39, are made a part of the general revenue fund largely for bookkeeping purposes. Otherwise no property tax would appear in this table for the fiscal year closing June 30, 1935. Source: Dr. J. E. Brindley, Research Department, State Board of Assessment and Review.

Fig. 135. This map shows the percentage of delinquent farm real estate

taxes in the farming areas of Iowa in the years 1929 to 1933. The totals depicted here are the taxes that were not paid during the collection periods of the 4 years. The increasing length of the bars in the last two years indicates the greater inability of the farmer to meet his levy.

Data in table 105.



TAX DELINQUENT FARM REAL ESTATE

<sup>\*</sup> Reduced \$3,243,584.34, or the second half of the state tax levy, resulting from the allocation of funds from three-point tax receipts.

\*\*Reduced \$4,000,997.99, resulting from the allocation of net income and retail sales tax money as provided by law.

Source: Dr. J. E. Brindley, Research Department, State Board of Assessment and Review.

TABLE 100. SCHOOL TAXES.

Date	District	County	State aid	Federal aid	Total
12	\$12,314,778,78	\$ 766,497.62	\$ 25,000		\$13,106,276,40
14	15,032,875,00	943,369,76	130,000		16,106,244,76
16 <b>.</b>	17,730,062,80	974.250.00	225,000		18,929,312,80
18	21,913,603,76	993,715.04	225,000	\$ 4.328.57	23,136,647.37
20	31,317,275.86	1,104,174.12	400,174	37,145.09	32,858,769.07
2		1,134,417.12	455,329	68,981.72	49,524,588.09
4	45,833,194,38	1.120.145.07	457,168	70,529.22	47,481,036.67
86 <i></i>	44,685,418.08	1,053,988,57	456,420	113,301,23	46,309,127.88
8	45,678,774.30	1,019,464.98	469,385	128,808,72	47,296,433.00
0	47,738,163.08	1,008,412.37	488,585	148,974.57	49,384,135.02
2	45,571,234.26	922,634,61	490,440	166,895.00	47,151,203.87
4	35,493,591,12	516,722,20	405.085	112,837.28	36,528,235.60

Source: Dr. J. E. Brindley, Research Department, State Board of Assessment and Review.

TABLE 101. HIGHWAY TAXES.

Date	Property	Motor vehicle	Gasoline	Total	Property percentage of total
12	\$ 6,528,243.72 9,352,639.73 9,914,066.20 10,733,307.96 14,873,480.28	\$ 485,300.00 972,739.50 1,679,924.38 2,547,595.80 7,507,202.08		\$ 7,013,543,72 10,325,379.23 11,593,990.58 13,280,903.76 22,380,682.36	93.1 90.6 85.5 80.8 66.5
022 	15,409,348.01 14,836,747.01 13,524,440.00 13,611,653.04 16,056,773.67	7,923,388.06 8,979,463.20 10,208,674.84 10,692,766.65 12,693,620.76	\$ 5,033,892.97 9,138,707.68 11,724,784.38	23,332,736.07 23,816,210.21 28,767,007.81 33,443,127.37 40,475,178.81	66.0 62.3 47.0 40.7 39.7
)32 33 34	12,616,378.09 9,918,078.98 7,722,498.23	11,589,067.34 10,648,169.07 9,997,307.80	10,795,088.42 10,609,231.87 11,331,038.00	35,000,533.85 31,175,479.92 29,050,844.03	36.0 31.8 26.6

Source: Dr. J. E. Brindley, Research Department, State Board of Assessment and Review.

TABLE 102. RECEIPTS OF SALES AND INCOME TAXES. (After deduction for administrative expenses are made.)

Year	Sales tax	Income tax	Both taxes
Year ending June 30, 1935	\$11,331,811 3,288,910	\$2,109,951 60,791	\$13,441,761 3,349,704
Estimated total to December 31, 1935			\$20,300,000

Source: Board of Assessment and Review.

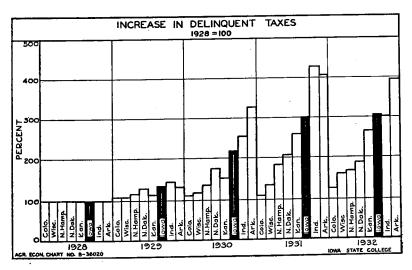


TABLE 103. DISTRIBUTION OF THE SALES AND INCOME TAXES.

Year ending June 30, 1935	
Allocation to counties	6,988,202
Emergency relief	3,000,000
General State Fund	3,000,000
Administrative fund	403,072
Sales tax cash refunds	46,695
Income tax cash refunds	3,791
Total	13,441,761

Source: Board of Assessment and Review.

Fig. 136. In this chart, the amounts of delinquent taxes in several representative states in 1928 are taken as 100, and variations from 1928 are shown in percentages of that level. Iowa is represented by the black bar.

Data in table 104.

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TABLE 105. IOWA FARM AS A PERCENTAGE OF

REAL ESTATE DELINQUENT TAXES, TOTAL TAXES LEVIED, 1929-1938 (In percent)

1929

1930

1931

1932

104. INCREASE IN DELINQUENT RURAL TAXES. (1928 = 100.) REAL ESTATE

					,	
State average.	306.7	300.7	219.5	135.2	100	Iowa.
June 1	161.0	139.4	118.1	108.5	100	Wisconsin
Daire	190.0	208.3	178.5	129.4	100	North Dakota
Fastern livestock	168.6	187.1	136.1	116.5	100	New Hampshire
Western livestock	264.8	259.5	154.6	114.5	100	Kansas
Court grant posture	302.9	426.5	253.5	147.1	100	Indiana
Cash main	124.6	110.1	111.8	108.6	100	Colorado
91 02	393.8	406.6	327.2	132.1	100	Arkansas
Type of farming	1932	1931	1930	1929	1928	

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re 1928	collections a	The 1929	he year indicates the year of collection. The 1929 collections are 1928 A., etc. Turn Ave Tyn Gt. Bal No. 205 D. G. Barton and	ates the year	he year indic
27	28	16	9	8	State average.
24	26	14	10	9	y
25	. 24	13	60	7	ern livestock.
27	25	13	7	6	ern livestock.
28	30	20	13	11	hern pasture
30	34	18	10	•	grain

	Source: Iowa Agr. Exp. Sta. Bul, No. 325. R. C. Bentley and	ies, etc.	A40 700
J. F.	Iowa Agr. Exp. Sta. Bul, No. 325. R. C. Bentley and		o there
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	325.		DO TO
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	Sentley		THO STATE
	and.		

County	taxes due	penaity	costs	Lotal
Adair	\$ 51,760.84	\$ 5,058.34	\$ 515.24	\$ 57,334.42
Allamakee	68,711.90	7,035.65	873.18	76,620,73
Audubon	23,354 91	3,385.79	278.30	27,019.00
Benton	107,328.49	12,639.30	1,025.74	120,993.53
Black Hawk	525,092,87	59,289.95	5,282.84	589,665,66
Boone	198.594.34	29.195.15	1,408,17	229, 197.66
Bremer	1,0,0,1.01	27,120.10	1,100.1,	53,629,99
Buchanan	65,030.68	6,023.39	1.063.81	72,117,88
	115,491,91	11,573.98	964.80	128,030.69
Buena VistaButler	50,557.97	6.347.03	266.00	57,171.00
Butter	30,337.97	0,341.03	200.00	37,171.00
Calhoun	99,037.96	12,638.25	1,275.94	112,952.15
Carroll	40,917.47	5,585.02	663.60	47,166.09
Case	69,195.63	6,948.56	425,30	76.569.49
Cedar	57,983.16	8,714.18	536.80	67,234.14
Cerro Gordo	363,966.50	44,354.61	4,478.90	412,800,01
Cherokee	80,539.49	8,988.16	667,06	90,204.71
Chickasaw	38,140.14	3,712.08	611.33	42,463.55
Clarke	53,197.03	5,839.07	692.25	59,728.35
Clay	131,484.78	14.523.90	825.69	146,834.37
Clayton	86,127.28	10,752.92	1,134.02	98,014.22
Clayton	80,127.26	10,732.92	1,134.02	90,014.22
Clinton	302,440,17	41,705,80	Includes	344,145,97
C1111011111111111111111111111111111111	,	==,,,,,,,,,,	costs also	,
Crawford	*******			142,690.81
Dallas	98,810.24	17,252.74	986,50	124,099.80
Davis	21,528,41	2,520,15	205.60	24,254.16
Decatur	74,888.87	7,652.53	1,107.59	83,648.99
Delaware	53,786.35	5,118.43	379.30	59,284.08
Des Moines	116,012.75	16,146.53	Includes	132,159.28
200 2001102	110,012,10	-0,000.00	costs also	
Dickinson	119,816.06	18,913.27	3,048.09	141,777.42
Dubuque	456,649.92	91,914,84	4,612,62	592,177.38
Emmet	64,228.76	8,459.66	297.80	72,986,22
Dimite		0,10,.00	2,,,55	,,,,,,,,,,,,
Fayette	111,898.73	16,848,11	1,158.00	129,904.84
Floyd	94,925.15	9,453.20	1,177.13	105,555.48
Franklin	81,956.48	9,167.77	379.40	91,503.65
Fremont	87,242.39	13,014.40	589.10	100,845.89
Greene	50,487.07	2,961.54	377.70	53,826.31
Grundy	68,502.68	14,861.40	1,081.59	84,445.67
Guthrie	90,789,94	10,184.95	650.70	101,625.59
Hamilton	95,124.31	11,409.45	648.60	107,182.36
Hancock	107,512.05	18,182.79	829.10	126,523.94
Hardin	120,682.35	14,531.36	839,85	136,053.56
	005 044 55	07 477 05	4 499 00	014 605 55
Harrison	205,944.53	27,473.03	1,188.00	234,605.56
Henry	67,303.53	10,295.55	306.07	77,905.15
Howard	51,335.74	5,273.58	520.40	57,129.72
Humboldt	113,479.78	14,988.43	330.60	128,798.81
Ida	61,577.02	5,792.80	243.70	67,613.52
Iowa	107,434.68	6,005.99	553.80	113,994.47
Jackson	69,680.67	10,656.77	706.78	81,044.22
Jasper	144,049.87	18,617.13	1,189.99	163,856.99
Jefferson	89,750.43	12,085.57	833.43	102,669.43
Jones			******	57,701.35
_ · I	00 224 25	12 022 50	1 1002 20	114 250 45
Keokuk	99,324.37	13,833.58	1,092.20	114,250.15
Kossuth	46,749.68	4,647.62	636.60	52,033.90
Lee	42,809.63	7,916.09	413.94	51,139.66
Linn	*******	40.100.00	Includes	554,773.10
Louisa	108,962.11	20,189.98	includes	129,152.09

5,154.68 9,639.85 11,905.63

11,162.23 18,691.01

TABLE 106. DELINQUENT TAXES BY COUNTIES.\*

Interest or penalty

Publication

costs

538.70 555.80 425.86 458.30 986.51

39,764.85 78,285.49 113,511.86 93,490.33 179,629.40

Total

Amount of

taxes due

34,071.47 68,089.84 76,040.11 81,869.80 148,219.80

County

Mahaska.....

Marion....

# 1929..... 1930...... 1931.... TABLE 107. NUMBER OF PROPERTIES AND ACRES OF FARM REAL ESTATE THAT BECAME DELINQUENT IN IOWA, 1929-1933. 36,761 40,750 53,503 102,643 89,410 17.47 19.54 29.68 48.36 42.13 4,117,798 4,597,181 7,458,221 12,175,703 12,075,831

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1			Includes	
Marshall	234,441,61	39,685,06		074 104 47
Main-	234,441.01		costs also	274,126.67
Mills	54,033.43	12,643.52	325.70	67,002.65
Mitchell	72,135.79	8,560.56	482.30	81,178.65
Monona	127,124.33	13,183.38	2,092.52	142,400.23
Monroe	106,096.15	15,793.60	1,097.00	122,986.75
Montgomery	84,053.80	10,370,91	639.09	95,063,80
Muscatine	32,747.46	3,868,16	[ 291.80	36,907,42
O'Brien		l	l	47.225.93
Osceola	47,136,25	4,259.01	256.40	51,651,66
Page	99.025.30	12.869.67	533.70	112,428.67
	***,********	1,	1	,
Palo Alto	173,375,66	23,533,57	867.70	197,776,93
Plymouth		1 20,000.01	1	142,819,96
Pocahontas	136,372,58	14,336.00	828.24	151,536.82
Polk	2,300,076,29	429.481.91	66.165.07	2,795,723,27
Pottawattamie				484.079.69
Pottawattamie	453,844.53	26,620.13	3,615.03	
Poweshiek	159,992.25	21,227.11	1,779.20	182,998.56
Ringgold	69,760.11	9,999.48	644.70	80,404.29
Sac	58,259.22	6,405.68	984.30	65,649.20
Scott	358,828.88	52,185.06	4,154.20	440,168.14
Shelby	31,432.25	4,274.67	580.50	36,287.42
Sioux	53,027,34	4,337.85	434.10	57,799,29
Story	272,536.58	33,957,47	Includes	306,494.05
	,		costs also	
Tama	78,419,72	8,980,42	771.74	88,171.88
Union	133,715,94	18,006.83	1,172,40	152,895.17
Van Buren	50,882.57	7.897.44	719.48	59,499,49
Wapello	186,761.18	30,696.57	2.525.84	219,983.59
Warren	52,449,02	6,162,50	341.90	58,953,42
Watten	84,769.71	16,475.89	1,058.89	102,304.49
Wayne			Includes	612,040.45
Webster	498,378.72	113,661.73		012,040.45
1			costs also	400 407 40
Winnebago	*******	*******	2	128,107.62
Winneshiek	72,769.87	8,151.71	Includes	80,921.58
		[	costs also	
Woodbury				1,182,078.88
Worth	79,469.00	10,352,62	405.80	90,227.54
Wright	122,012.01	14,673.33	Includes	136,685.34
			costs also	
Totals	\$12,369,416,78			\$15,514,489.71
		l	1	

<sup>\*</sup> Feb. 3, 1935. Source: Des Moines Register and Tribune. Data unavailable for Adams, Appanoose, Johnson, Taylor and Washington counties.

BASEBOOK

0 F

IOWA

#### CHAPTER VI. TYPES OF FARMING IN IOWA

I OWA, located in the heart of the Corn Belt, has a high degree of uniformity in physical conditions. Thus, compared with other states, Iowa has relatively few types of farming; and the different types are similar.

The typical farm in some sections of the state devotes its resources primarily to cash crops, in other sections to dairy products and in still others to meat animals, such as hogs and beef cattle. In some areas the chief basis of feed in animal production consists of pasture land, in others mostly crop land, and so forth.

Iowa has been divided into seven types of farming by F. F. Elliott in his study, "Types of Farming in the United States." Gross income is the primary basis for classification of farms by type and for defining type of farming areas.<sup>1</sup> This division of Iowa into type areas gives the reader a clear picture of the agriculture of the state

The total net area in farm land varies from 2 3/5 million acres in the South Central Pasture Area to 6 1/5 million acres in the Northeastern Dairy Area and the Western Meat Production Area. The two cash grain areas combined equal 9 1/10 million acres and the two pasture areas combined equal 6 9/10 million acres.

#### The Soils of Iowa

The various type of farming areas in Iowa are characterized by certain definite physical factors. Figure 137 gives the five large soil

In the exact percentage of income which each source should represent of the total income before the farm was classified under a special type was difficult to ascertain. After experimenting with various percentages it was finally decided to classify a farm under a particular type if it received 40 percent or more of its income from a particular source. The use of a percentage greater than 40 would have resulted in segregating a few highly intensive farms into particular groups receiving a very high proportion of their income from one particular source. The classification, however, would not have been very satisfactory, since the major portion of the farms under such a procedure would have been thrown into a "general farm group." The use of a percentage less than 40 would have failed to differentiate clearly any one particular group of farms and would have thrown all farms into a very few large groups, thereby defeating the purpose of the classification.—Condensed from "Types of Farming in the U. S.," United States Department of Commerce, Bureau of the Census, Washington.

areas in Iowa, which are the Wisconsin Drift, the Iowan Drift, the Missouri Loess, the Mississippi Loess and the Southern Iowa Loess. These five soil areas are the result of the action of geological forces which brought about their formation.

The map shows that the Iowan Drift compares roughly with the Northeastern Dairy Area. The dairy area, however, is somewhat larger, extending slightly into the northwestern part of the Wisconsin Drift and parts of the Mississippi Loess in the northeast. The Wisconsin Drift covers an area nearly coincident to the two cash grain areas, the Missouri Loess covers an area approximate to the Western Meat Production Area, the Southern Iowa Loess covers an area similar to the two pasture areas, and the Mississippi Loess covers an area similar to the Eastern Meat Production Area.

#### Precipitation

Rainfall in Iowa, with the exception of an occasional drouth year, is usually more than sufficient for crop needs. The average annual rainfall ranges from about 36 inches in the extreme southeast to about 26 inches in the extreme northwest.

The average decrease in rainfall from east to west is about 0.92 inches in 50 miles, and from south to north about 1 inch in 50 miles.

Figure 140 shows that in general the Northern Cash Grain Area receives the smallest amount of annual rainfall, while the Eastern Meat Production Area receives the most. The Southern Pasture Area and the Northeastern Dairy Area are probably next in rank. The widest variation within any one section comes in the Western Meat Production Area which has a small section on its northern border receiving 26 inches or less and another small area on its southern border receiving as high as 36 inches.

#### Growing Season

The average date of the last killing frost in spring is May 3, ranging from about April 20 in the extreme southeast to about May 10 in the more elevated localities on the divide between the Big Sioux and Des Moines rivers. The average date of the first killing frost in autumn is Oct. 5, ranging from Sept. 25 in the extreme northwest to Oct. 15 in the extreme southeast. This makes the average length of the crop growing season 153 days, ranging from about 140 days in the northern part of the Big Sioux-Des Moines divide, to about 170 days along the Mississippi River from Scott to Lee Counties.2

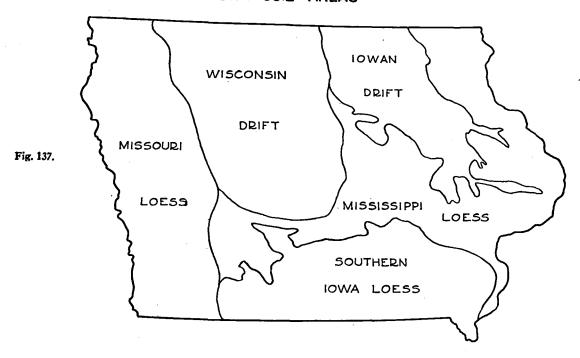
Figure 143 shows that in general the Northern Cash Grain Area and the Northeastern Dairy Area have the shortest growing season while the North Central Cash Grain Area ranks next: The Eastern Meat Production Area and the South Central Pasture Area are next while the Southern Pasture Area experiences the longest growing season. The widest variation in length of growing season occurs in the Western Meat Production Area because it extends practically from the northern to the extreme southern boundaries of the state.

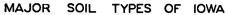
#### Size of Farms

Although farms vary considerably in size, not only for the state as a whole, but within each type area, the characteristic farm, indicated by the average, varies in size for each area. Figure 144 shows that the Northern Cash Grain Area is typified by large farms, the average being 193 acres. The Western Meat Production Area ranks second in average size of farm with 171 acres. The third ranking section is the North Central Cash Grain Area, its average size of farm being 167 acres; this is 6 acres larger than the average for the state (161 acres). The average sizes of farms in the remaining four sections are all less than the state average, the Northeastern Dairy Area average being

<sup>&</sup>lt;sup>3</sup>The Book of Iowa—Article by Charles D. Reed, page 18.

# IOWA SOIL AREAS





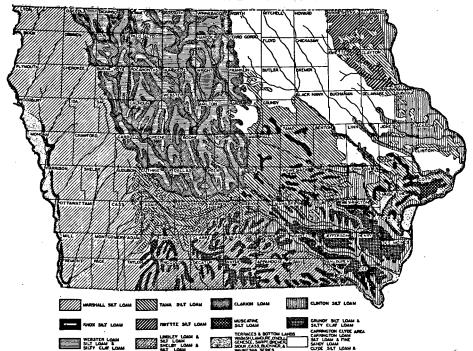
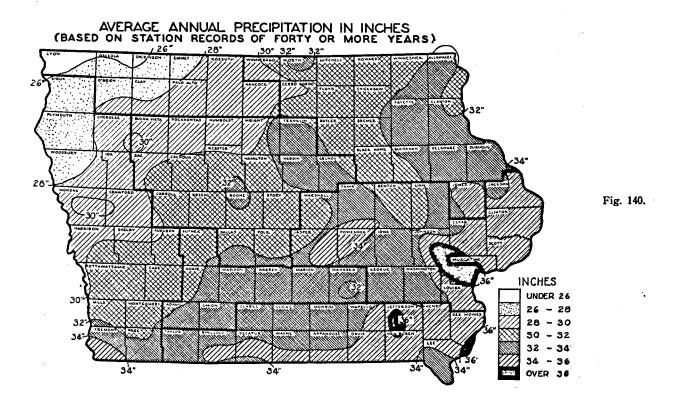
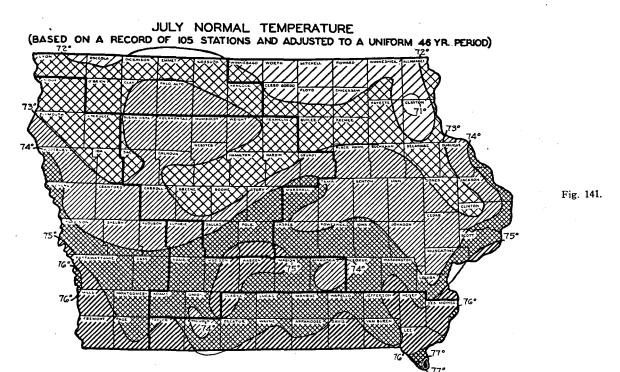
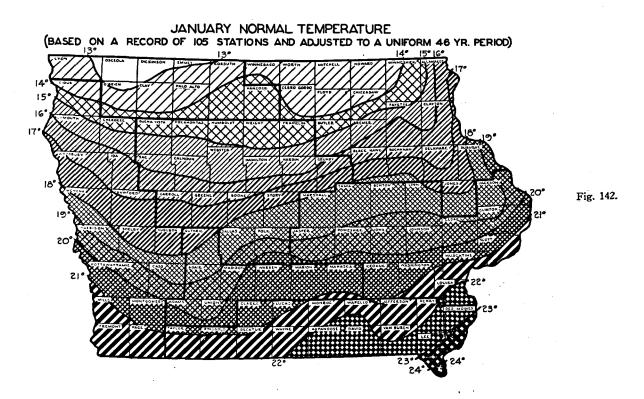
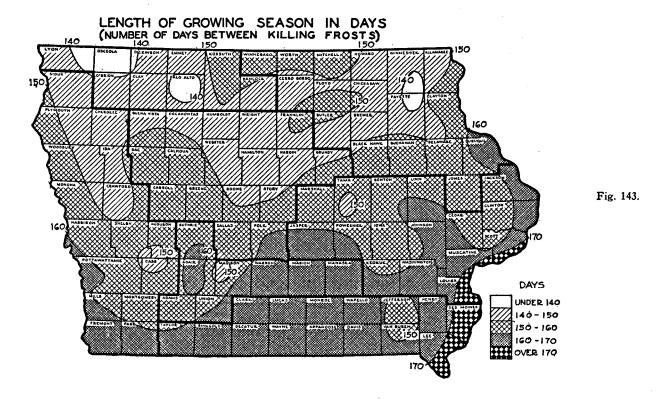


Fig. 138.

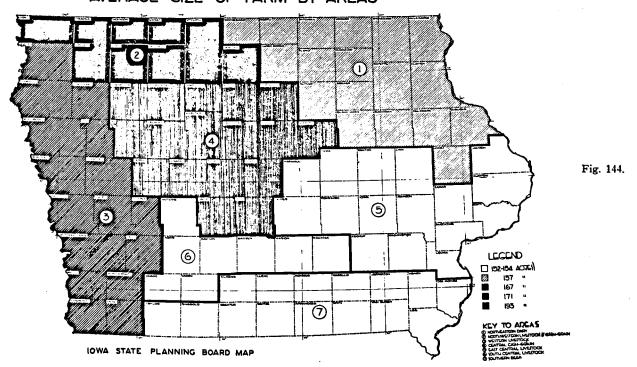








# AVERAGE SIZE OF FARM BY AREAS



157 acres, the Eastern Meat Production Area 154 acres, the South Central Pasture Area 153 acres, and the Southern Pasture Area having the smallest average, 152 acres.

# Percentage of Farm Land Which is Effective

The effective acreage shown by fig. 145 is arrived at by taking the total land in farms and deducting waste land, land devoted to timber, roads, buildings, feed lots and so forth. The effective acreage in each of the seven type areas varies but little; the smallest percentage of effective acreage is in the Northeastern Dairy Area, being 92 percent as against the state average of 93.3 percent, a difference of but 1.3 percent. The largest percentage of effective acreage is in the two cash grain areas, being 93.9 percent for each; this is but 0.6 percent above the state

average. The remaining areas fall on or near the state average of 93.3 percent.

## **Iowa Cropping System**

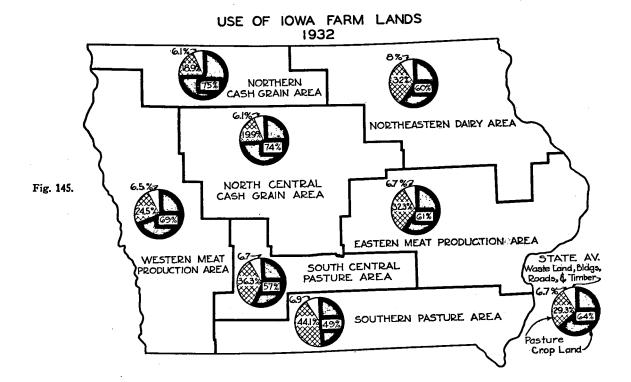
How does Iowa use this vast area of farm land?

For the entire state, 64 percent of the area in farm land is normally devoted to crops.3 This 64 percent includes corn, small grain, legume hay and other hay-in other words, all farm land in the state (exclusive of waste land) not devoted to pasture, timber, buildings and roads. On the average, 6.7 percent of the farm land of the state is waste land or is devoted to roads, timber and buildings. Leaving an average of 93.3 percent of farm land in crops and pasture. Figure 145 shows the proportions of crop land, pasture

\*The maps in this chapter are based on figures for years prior to the introduction of the Agricultural Adjustment Administration cornhog and wheat programs. land and other land in farms for each of the seven types of farming areas.

The proportion of total land in crops varies among the different farming areas from around 75 percent in the Northern Cash Grain Area to only 49 percent in the Southern Pasture Area.

Slightly more than half, 54 percent, of Iowa's crop land is devoted to corn, the state's most important crop. The proportion of crop land devoted to corn in the different farming areas varies widely. Of the high proportion of land producing crops in the two cash grain areas, slightly more than half is devoted to corn—52 percent in the Northern Cash Grain Area and 56 percent in the North Central Cash Grain Area. The Western Meat Production Area has a smaller proportion of total farm land devoted to crops than the cash grain areas, but the



proportion of this crop land devoted to corn is higher than for either of the cash grain areas. The Southern Pasture Area not only has the smallest proportion of its farm land in crops but ranks next lowest to the Northeastern Dairy Area in proportion of crop land in corn

About 32 percent of Iowa's crop land is in small grain. Different farming areas average all the way from 42 percent to 24 percent with the Northern Cash Grain Area ranking highest and the Southern Pasture Area lowest. Comparing figs. 145 and 146, notice the high proportion of the total farm land in the Northern Cash Grain Area and the North Central Cash Grain Area which are devoted to corn and oats. The farming areas are not only highly cultivated but have a very high proportion of their cultivated land in corn and oats.

About 13 percent of the crop land in Iowa is in hay, 4 percent in legume hay and 9 percent in

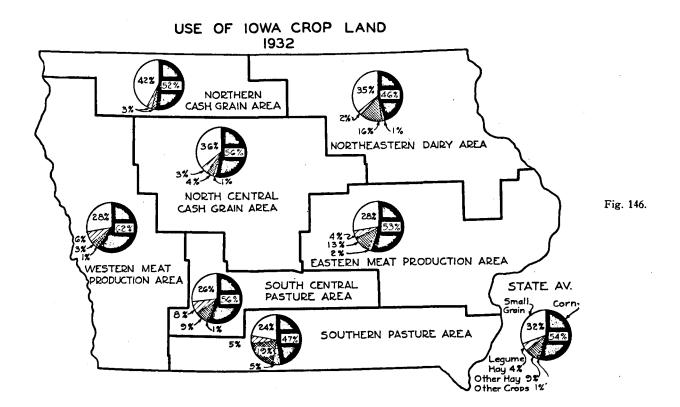
other kinds of hay.4 Variations among the different farming areas are marked. The Southern Pasture Area has 24 percent of its land in hay (19 percent of which is non-legume hay) the highest proportion of any area. The Northeastern Dairy Area has 18 The percent of its crop land in hay of which 16 percent is in timothy and other kinds of non-legume hay. As would be expected from the high proportions of crop land in corn and oats, the cash grain areas have very low proportions of their land in hay. The Northern Cash Grain Area has only 6 percent and the North Central Cash Grain Area 7 percent in hay, and this proportion is about evenly divided between legumes and non-legumes.

### Feed Units Produced

Previous comparisons have shown the relative importance of crop land and pasture land, corn

'Soybeans harvested for hay are included in hay figures.

and other principal crops with acreages of each as the basis of comparison for each of the types of farming areas. It is well understood, however, that an acre of pasture is not equal to the number of feed units produced by an acre of hay. Nor are the same number of feed units produced on an acre of oats as there are on an acre of corn. In order to give a graphic presentation of the relative importance of corn, small grain, hay and pasture, it was deemed advisable to reduce them all to a common basis, that of feed units produced per acre. Figure 151 and table 108 show the feed units produced per acre of total land in farms for the state as a whole and for each type of farming area. As would be expected, the North Central Cash Grain Area produces more total feed units per acre than any other area. The Western Meat Production Area ranks second. These two areas also rank first and second in feed units produced per acre of corn. The Southern



# ACREAGE IN CORN

PERCENTAGE OF EFFECTIVE ACREAGE 1932

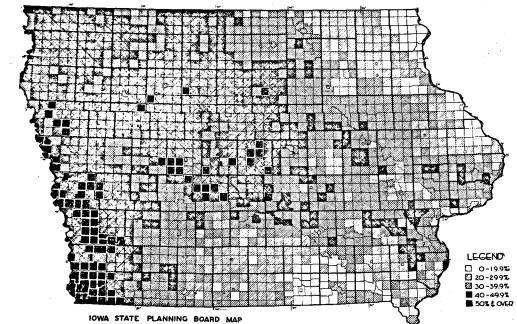
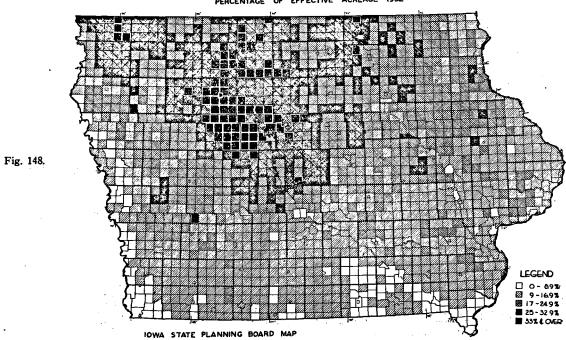


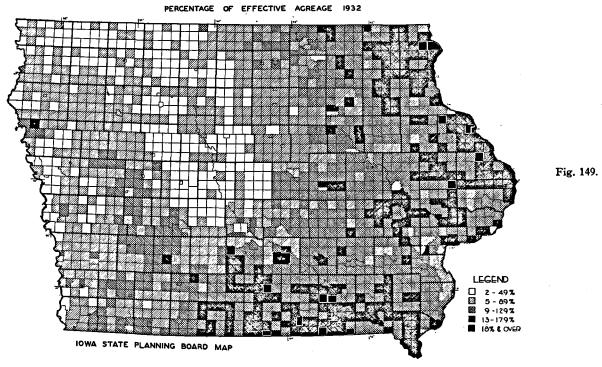
Fig. 147.

# ACREAGE IN OATS

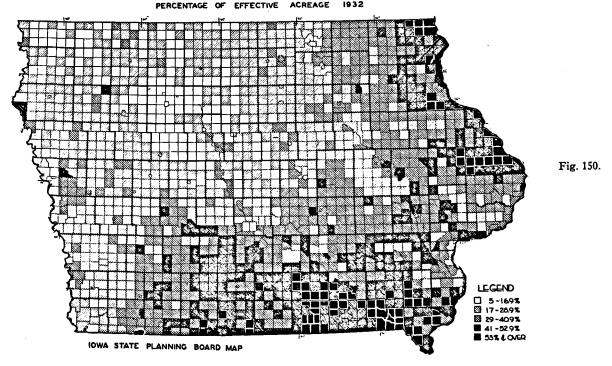
PERCENTAGE OF EFFECTIVE ACREAGE 1932

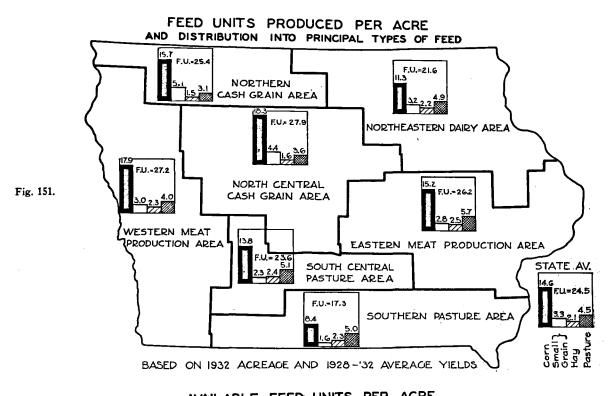


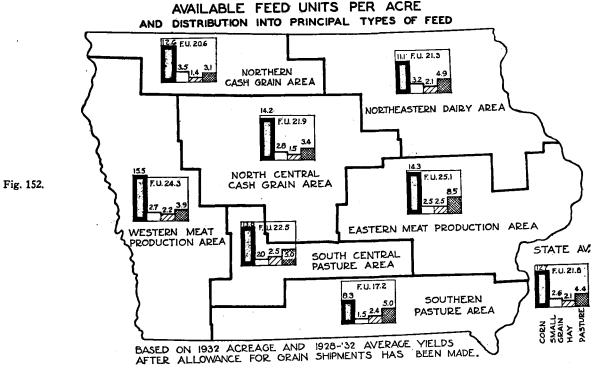
# ACREAGE IN HAY



# ACREAGE IN PASTURE







Pasture Area produces only 17.3 feed units per acre, but it is one of the high ranking areas in feed

units per acre of pasture.

Figure 153 gives a better picture of the proportion of feed units produced in various types of feed than does fig. 151. Feed units derived from corn constitute 60 percent of the total feed units produced in the state. Pasture ranks second, supplying one-fifth of the total feed units.

The North Central Cash Grain Area, the Northern Cash Grain Area and the Western Meat Production Area have a much higher proportion of feed units from corn than the rest of the state. Pasture, on the other hand, produces relatively little feed in those areas.

Figure 159 shows net shipment of corn and oats combined in percentage of total production of feed units of grain for the various types of farming areas. The North Central Cash Grain Area ships out about 30 percent of its total production and the Northern Cash Grain Area sells around 25 percent of its production. The other areas rank much lower. The Western Meat Production Area ships out considerable grain, particularly the fringe of counties immediately east of the Missouri River.

The charts on available feed units per acre give the amount of feed units available in the areas after all shipments are deducted.

### Iowa Livestock System

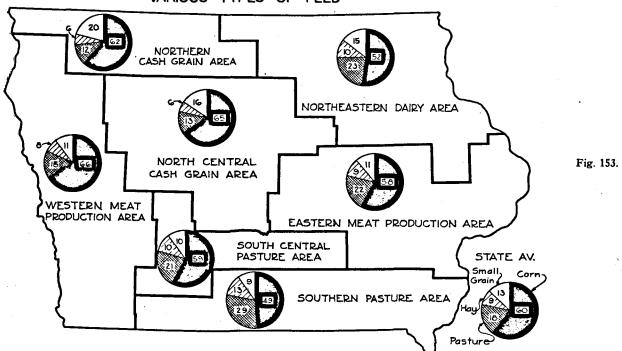
Figure 162 and table 110 show the number of animal units for the state as a whole and for each type area, and the amounts of each, including hogs, cattle, horses and mules, sheep and poultry, per 100 acres of total land in farms. The Eastern Meat Production Area has more animal units per 100 acres (19.6) than any other section of Iowa. It ranks first in hog animal units per 100 acres with a total of 8.0 and second in cattle animal units with 7.0.

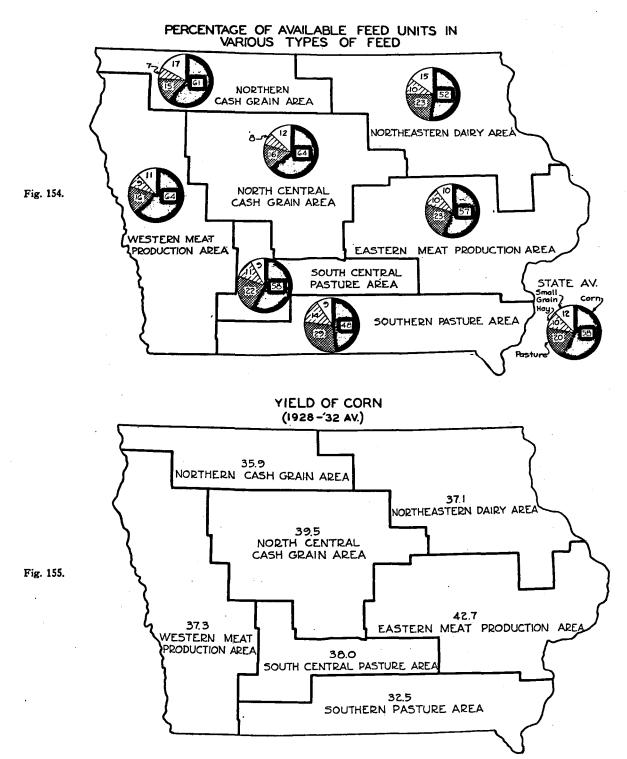
The Western Meat Production Area, the Northeastern Dairy Area and the South Central Pasture Area rank next in total animal units with 18.7, 18.5 and 18.5. respectively. The meat area and the pasture area have 7.6 and 7.0 hog animal units per 100 acres, respectively, while the dairy area has 6.1. The dairy area, however, has more cattle animal units per 100 acres than either of the other two areas, with 8.2 as compared with approximately 6.6 for each of the other two areas.

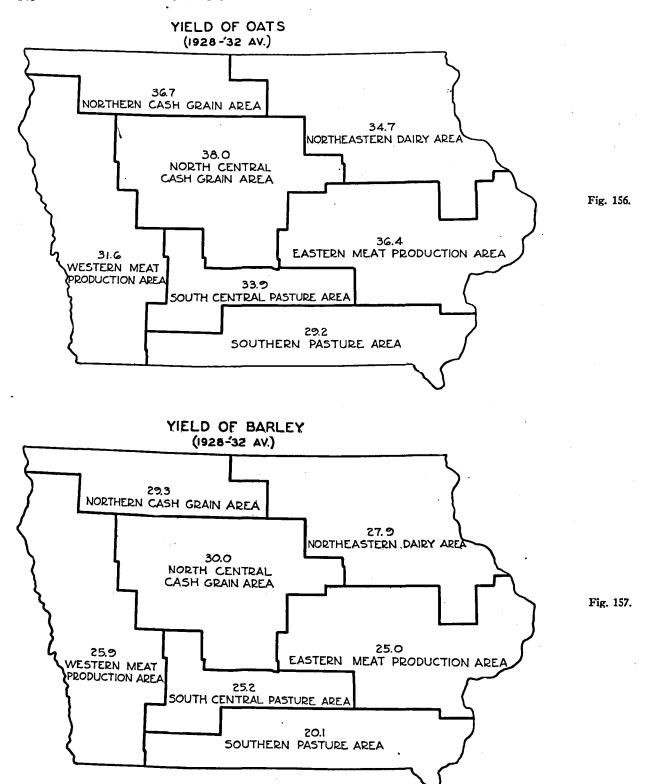
The two cash grain areas which have around 17.5 animal units per 100 acres are below other sections of the state with the exception of the Southern Pasture Area which has only 14.5 units. The Southern Pasture Area ranks last in the production of all types of animal units per 100 acres with the exception of sheep, in which it is first. It produces 1.3 sheep animal units in comparison with .3 for the majority of the sections and .9 for the next highest area.

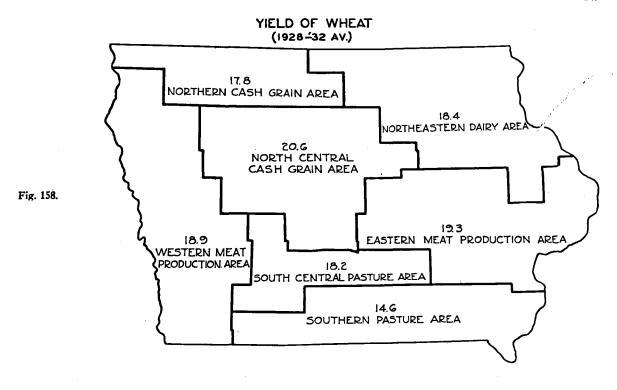
To summarize, the two meat areas and the dairy area rank highest in total animal units produced per 100 acres of total land in

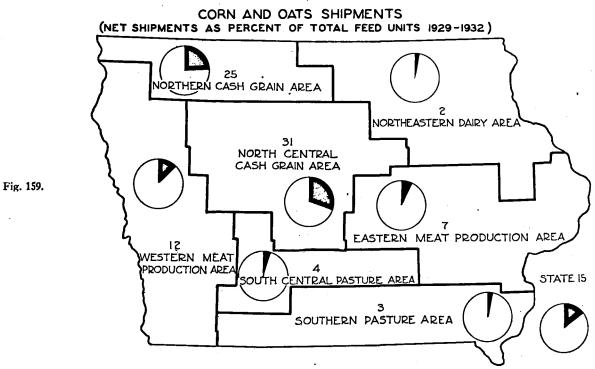
### PERCENTAGE OF FEED UNITS PRODUCED IN VARIOUS TYPES OF FEED





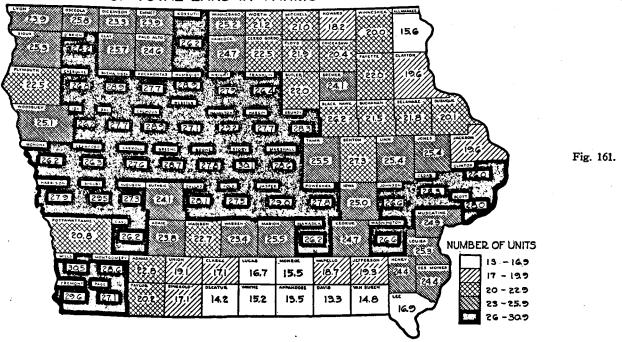


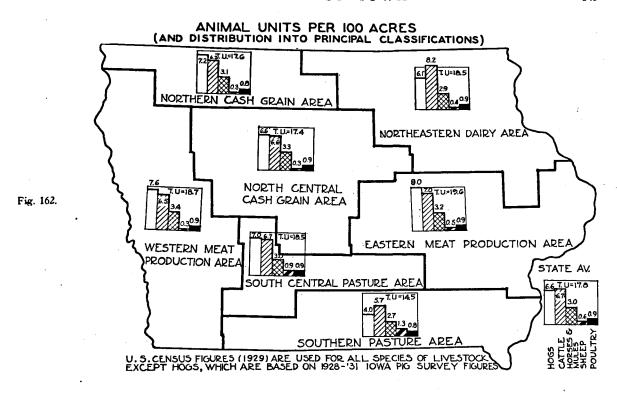




# DISTRIBUTION OF, TOTAL LAND IN HAY INTO PRINCIPAL KINDS OF HAY (1932) SOUTH CENTRAL CASH GRAIN AREA WESTERN MEAT PRODUCTION AREA SOUTH CENTRAL PASTURE AREA STATE AV. Other Tome Hay 3 Alfalfo, Hay 3 Alfalfo, Mired Clover & Timothy Mired Clover & Tim

# FEED UNITS PRODUCED PER ACRE OF TOTAL LAND IN FARMS





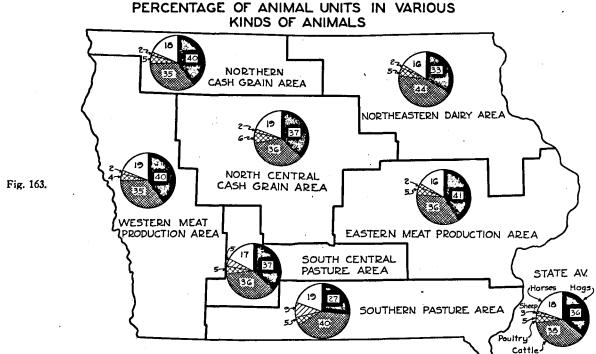


TABLE 108.

Total Feed Units Produced Per Acre of Total Land in Farms and Distribution into Principal
Types of Feed by Feed Units.\*

Feed units	Dairy Area	Northern Cash Grain Area	North Central Cash Grain Area	Western Meat Production Area	Eastern Meat Production Area	South Central Pasture Area	Southern Pasture Area	State
Corn	11.3 3.2 2.2 4.9	15.7 5.1 1.5 3.1	18.3 4.4 1.6 3.6	17.9 3.0 2.3 4.0	15.2 2.8 2.5 5.7	13.8 2.3 2.4 5.1	8.4 1.6 2.3 5.0	14.6 3.3 2.1 4.5
Total feed units.	21.6	25.4	27.9	27.2	26.2	23,6	17.3	24.5

1 ton alfalfa hay = 18.0 feed units.
1 ton clover hay = 18.0 feed units.
1 ton soybean hay = 18.0 feed units.
1 ton mixed hay = 15.0 feed units.
1 acre pasture = 38.7 feed units.

TABLE 109.

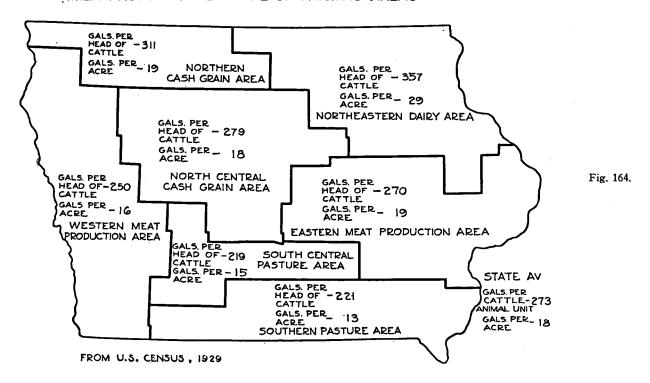
Total Feed Units Available Per Acre of Total Land in Farms and Distribution into Principal Types of Feed by Feed Units.

Feed units	Dairy Area	Northern Cash Grain Area	North Central Cash Grain Area	Western Meat Production Area	Eastern Meat Production Area	South Central Pasture Area	Southern Pasture Area	State
Corn Small grain Hay Pasture	11.1 3.2 2.1 4.9	12.6 3.5 1.4 3.1	14.2 2.8 1.5 3.4	15.5 2.7 2.2 3.9	14.3 2.5 2.5 5.8	13.0 2.0 2.5 5.0	8.3 1.5 2.4 5.0	12.7 2.6 2.1 4.4
Total feed units.	21.3	20.6	21.9	24.3	25.1	22.5	17.2	21.8

farms. The meat areas rank highest in hog animal units and the dairy area in cattle animal units.

It can be seen by a study of fig. 162 that 5 out of 7 areas produce slightly more hog units than cattle units. The two areas (Northeastern Dairy Area and Southern Pasture Area) which produce more cattle units than hog units produce so many more of cattle that there are more cattle units than hog units per 100 acres for the state as a whole. For the state, 38 percent of the total animal units consist of cattle and 36 percent of hogs, making the combined cattle and hog units equal to nearly three-fourths of the total animal units. Of the remainder, 18 percent or nearly one-fifth consists of horse and mule animal units and less than one-tenth or 8 percent is made up of poultry and sheep animal units, 5 percent for the former and 3 percent for the

### MILK PRODUCTION BY TYPE OF FARMING AREAS



<sup>\*1</sup> bu. corn = 1.00 feed units.

1 bu. oats = .48 feed units.

1 bu. wheat = 1.07 feed units,

1 bu. barley = .73 feed units,

1 bu. soybeans = 1.43 feed units.

latter. In the Northern Cash Grain Area and the Western Meat Production Area, hog units constitute 40 percent of the total units and cattle 35 percent, a difference of 5 percent in favor of the hogs. The smallest difference in favor of hogs is in the North Central Cash Grain Area where hog units comprise 37 percent, and cattle units 36 percent of the section's total.

In the Northeastern Dairy Area hogs comprise 33 percent of the total animal units and cattle 44

percent. In the Southern Pasture Area hogs comprise 27 percent of the total animal units, cattle 40 percent.

The percentage of the total animal units produced by horses and mules, sheep and poultry in the various type areas, vary but slightly from the state average.

Figure 164 shows the distribution by type areas of gallons of milk produced annually per 100 acres of land and milk produced per cattle animal unit. The dairy area not only produces more gallons of milk per acre, 29 in contrast with 19 for the next highest area (Northern Cash Grain Area) and 13 for the lowest producing area (Southern Pasture Area), but also produces more milk per head of cattle, producing 357 gallons in contrast with 311 in the Northern Cash Grain Area, 279 in the North Central Cash Grain Area, 270 in the Eastern Meat Production Area, and but 221 in the Southern Pasture Area.

TABLE 110.

Total Animal Units Per 100 Acres of Total Land in Farms and Distribution into Principal Classes of Animals by Animal Units.\*

Animal units	Dairy Area	Northern Cash Grain Area	North Central Cash Grain Area	Western Meat Production Area	Eastern Meat Production Area	South Central Pasture Area	Southern Pasture Area	State
Hogs	6.1 8.2 2.9 0.4 0.9	7.2 6.2 3.1 0.3 0.8	6.6 6.3 3.3 0.3 0.9	7.6 6.5 3.4 0.3 0.9	8.0 7.0 3.2 0.5 0.9	7.0 6.7 3.0 0.9 0.9	4.0 5.7 2.7 1.3 0.8	6.6 6.7 3.0 0.6 0.9
Tot. animal units	18.5	17.6	17.4	18.7	19.6	18.5	14.5	17.8

<sup>\*</sup>An animal unit is equal to: 1.0 head of cattle 2 yrs. and older, 2.0 head of cattle 1 to 2 yrs. old, 4.0 calves under 1 yr., 1.5 beef steers, 1.0 horse 2 yrs. old and older, 2.0 colts 1 to 2 yrs. old, 4.0 colts under 1 yr., 3.5 sows, 7.5 pigs, 7.0 sheep, 14.0 lambs, and 100.0 hens.

### CHAPTER VII. IOWA FARM HOME CONVENIENCES<sup>1</sup>

THE Iowa farmer lives in a two-story, seven-room frame house. That is the composite home taken from the results of a survey of rural housing conditions covering 18,789 Iowa farm homes.

The survey covered 10 counties and was taken in 8,298 owner and 10,491 non-owner homes. The information pictures the situation for the entire state and represents 221,200 families, including about a

million people.

The typical Iowa farm home is a painted frame structure with more than one story and is more than 25 years old. Some differences are apparent among the counties, but on the whole only 2 percent of the houses reported are made of brick, stone or concrete and only 10 percent are one story.

There are some differences between the owners and non-owners. Owners more frequently live in one-story houses and in houses built of brick, but this is due to the fact that most of these owners' homes were built in the last 10 years and the prevailing trend has been toward homes of this type.

'The data in this chapter were obtained from Iowa Ag. Exp. Sta., Res. Buls. No. 174 and 186, "The Status of Farm Housing in Iowa," and "The Status of Town and Village Housing in Iowa," by Margaret G. Reid, and from the United States Census.

One significant fact stands out: There has been relatively little building in the last 10 years.

The value of dwellings varies from county to county. Of the 10 counties surveyed, the top county was \$3,266 and the low was \$1,676 in 1930. The average value of farm dwellings in Iowa was \$2,293 in 1930. (See Table 113.)

The number of persons per family indicates to some extent the size of the home that is needed. There is, however, only a slight tendency for the larger families to live in larger homes. In the larger families, the available room per person is simply diminished and the house conforms closely to the seven-room standard of the state.

Owners generally take better care of their homes than tenants. Table 120 shows how different parts of the house were rated for owners and tenants. The explanation of the better condition of all parts of the owners' homes, floors, walls and every part listed in the table, is obvious. The owner living in his own house is able to detect and care for the defects that do arise. The renter finds it harder to get the needed repairs.

There seems to be no lack of water in Iowa farm homes. Wells and springs are adequately distributed but the problem of getting the water in the house confronts most of the occupants. About one out of four families has water piped into the house and about half of this group has piped hot water. As would be expected, the percentage of owners having water piped into the house is greater than the nonowners. With only 25 percent of the homes having water piped into the house, the other 75 percent must carry the water into the house. The distance from the well was found to average 94 feet.

Although drinking water is well provided for, soft water is not so easily obtained. Only two out of three homes have a cistern for the storage of soft water, so that one-third of the families are without any source of soft water. The percentage of cisterns varied between the counties and reached a high of 90 percent in one. In this territory the cistern must have been a source of drinking water.

Hand pumps are quite common in the farm home, but various sources of power are used for pumping water, too. Electricity, gasoline motors, windmills or hydraulic rams are used to provide running water when the water supply is piped into the house. Figure 175 shows the distribution of water systems throughout the state. In the survey of housing conditions, only 24.1 percent of

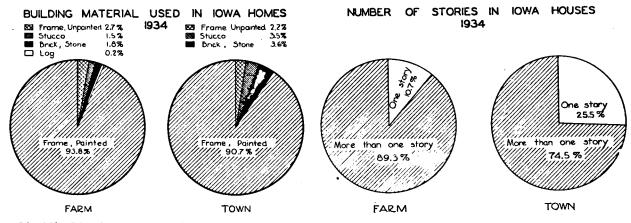


Fig. 165. The above diagrams give a comparison between town and farm homes in type of building material used. Town homes are more often made of brick, stone and stucco than are farm homes. Data in table 111.

Fig. 166. Nearly nine-tenths of Iowa's farm homes have more than one story. About three-fourths of the town homes in the state are more than one story. Data in table 111.

TABLE 111. CONSTRUCTION AND AGE OF IOWA HOUSES, 1934.

	Percentage						
(	Farm			All towns*			
	Total	Owners	Non- Owners	Total	Owners	Non- Owners	
Building materials used							
Log Frame, unpainted Frame, painted Stucco Brick, stone or concrete	0 2 2.7 93.8 1.5 1.8	0.2 2.7 92.7 2.1 2.3	0:2 2.8 94.4 1.1 1.5	2.2 90.7 3.5 3.6	1.7 90.9 4.3 3.1	3.1 90.2 2.5 4.2	
Age of house Under 10 years 10 to 24 years 25 to 49 years 50 years and over	5.9 20.8 44.8 28.5	7.1 25.7 43.2 24.0	. 4.9 16.9 46.2 32.0	4.6 23.8 50.6 21.0	5.4 27.5 49.3 17.8	3.4 18.3 52.6 25.7	
Number of stories		ļ	]		J	Ì	
One More than one	10.7 89.3	11.5 88.5	10.2 89.8	25.5 74.5	23.7 76.3	28.1 71.9	
Rooms, have Living rooms Dining rooms. Kitchens. Workrooms. Washrooms for help Bathrooms Halls. Basements Closets Front or side porch. Back porch. Storage space for fruits and vegetables Having rooms not in use.	96.5 75.9 99.9 41.5 18.6 21.7 58.1 71.0 84.9 83.6 72.7 90.0 13.4	97. 7 79. 3 99. 9 41. 9 21. 7 30. 6 61. 8 74. 9 86. 7 85. 5 73. 5 91. 6	95.6 73.2 99.9 41.1 16.2 14.8 55.7 67.8 83.5 81.0 72.0 89.0	97.1 78.5 99.5 31.0 6.6 40.6 56.2 78.3 83.7 80.3 64.9 88.5 7.5	98.4 83.0 99.5 31.2 7.5 61.0 82.6 86.3 81.7 65.9 91.3 5.6	95.3 71.9 99.4 30.7 5.4 30.8 49.2 72.0 78.4 63.5 84.4	

\* Population of less than 2,500. Source: Iowa Agr. Exp. Sta. Bulletins 174 and 186, Status of Farm Housing in Iowa and Status of Town and Village Housing in Iowa, Margaret G. Reid.

the farm homes had piped cold water.

Kitchen sinks are not uncommon in farm homes. Over 50 percent of the homes in the area surveyed report having this convenience. These figures apply only to sinks with a drain.

About one quarter of the homes have an improved outdoor toilet plus an indoor chemical or flush toilet. Many families express a need for improvements of this sort. Most of Iowa's farm homes, however, have an unimproved outdoor toilet. There is the usual difference between owners and

non-owners in this classification.

Bathrooms are not common in farm homes. Less than one-fifth report a bathtub while another fifth expressed a desire for one. This convenience is twice as common in owners' homes as in nonowners. There are very few showers and less than one family in six has a lavatory.

Sewage disposal is accomplished by means of a cesspool, septic tank or stream in 36 percent of the cases. Surface drainage is relied upon in 39 percent of the homes.

Nearly three-fourths of all Iowa

TABLE 112. FAMILIES OWNING HOMES.

Community	Percentage of families owning homes
Rural-farm Rural-nonfarm Towns of 2,500 to 10,000. Cities 10,000 to 100,000. Des Moines* State as a whole.	53.7 51.4

\* Only city in Iowa having a population in excess of 100,000. Source: Fifteenth Census of the United States, 1930. The percentages are based on States, 1930. 1 those reporting.

TABLE 113. THE AVERAGE VALUE OF FARM DWELLINGS IN TEN IOWA COUNTIES, 1930.

County	Average value farmers' dwellings per farm (dollars)
Benton Davis Fayette Madison Mitchell Scott Shelby Sioux Story Webster	2,425 3,266 2,650 2,303
All counties in state	2,293

Source: U. S. Census, 1980.

farmers read by the light of kerosene lamps. Persons living in their own homes use kerosene less extensively than do non-owners, but over 50 percent of the owners' dwellings are lacking more modern means of illumination.

Acetylene or piped gas is used very little throughout the state. The other one-fourth of the residents use electricity from either a power line or that produced from a home electric plant. More than twice as many owners use electricity for illumination as the persons living in rented houses.

For the most part, farmers are

AND BUILDINGS

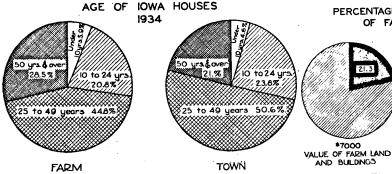
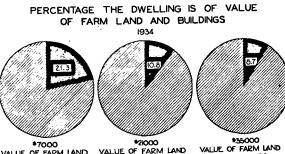


Fig. 167. The charts shown here give the percentage of farm and town houses falling into different age groups. Data in table 111.



The higher the valuation of the farm the less the proportion which the house is of the total valuation. Data in table 115.

AND BUILDINGS

FARM LAND

VALUE OF

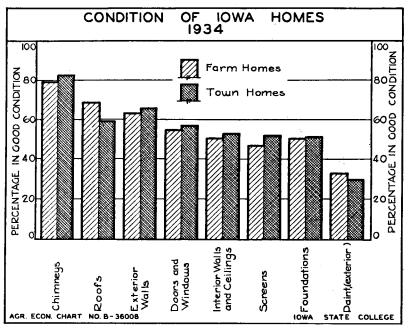


Fig. 169. The bars in this chart show the proportion of farm and town homes that are in good condition with respect to the different items named. Both show a striking need for paint. Data in table 120.

more interested in getting power from a power transmission line than they are from a home electric plant. Many farmers are several miles from a power line, and this factor has prevented some from having electricity. In other cases, the rates are considerably higher than those paid by the city dweller and farmers have felt that they could not afford the convenience of electricity.

TABLE 114. OWNER AND TENANT FARM DWELLINGS OF SPECIFIED VALUE, IOWA, 1930.

Value of Dwelling	Percentage			
warde of Dwelling	Owners	Tenants		
Under \$1,000 (all) \$1,000-\$1,499 \$1,500-\$1,999 \$2,000-\$2,999 \$3,000-\$4,999 \$5,000-\$7,499 \$7,500-\$9,999	11.6 14.0 13.2 24.5 23.9 10.0 1.8	18.7 20.2 16.8 24.1 15.5 3.9 0.5 0.3		

Source: U. S. Census, 1930.

Figure 174 shows the situation for the whole state and indicates that more than 20 percent of the farm homes were lighted by electricity in 1930.

Most farm homes are heated by stoves. This source of heat is

common in 62 percent of the homes with central heating ranging from 50 percent in one county to 12 percent in another. Many farmers have indicated that they desire hot air, steam or hot water heating systems but, other than in the owners' homes, they are not widely used throughout the state. Figure 177 shows how Iowa town and farm homes compare in heating facilities.

TABLE 115. VALUE OF DWELLING AND OF LAND AND BUILDINGS IN IOWA, 1930.

Value of farm land and	Percentage the dwelling
buildings	is of value farm land and
(thousands of dollars)	buildings
7 9 11 13 15 17 19 21 23 25 27 29 31 33	21.3 17.8 15.6 14.0 12.9 12.0 11.4 10.8 10.3 10.0 9.6 9.3 9.1 8.9 8.7

Source: U. S. Census, 1930.

Few farms have adequate refrigeration facilities. Most of the refrigerators now in use in the farm homes are ice refrigerators with only a sprinkling of the mechanical type. Figure 177 shows this.

Farm cooking is accomplished over a coal or wood burning stove in most of the homes. Some families use a gasoline or kerosene stove and a few report using elec-

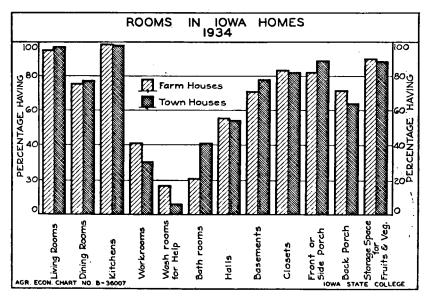


Fig. 170. The farm and town homes of Iowa show little difference in kinds of rooms. The biggest differences are in bath rooms and wash rooms. Source: Iowa Agr. Exp. Sta. Buls. 174 and 186, Margaret G. Reid.

tric stoves. Gas stoves are used in only a very few homes.

Most of the farm laundry is done in a room on the same level as the kitchen. Some families have a basement room for this operation while others are compelled to do it outdoors. A large number also do the washing in the kitchen of the home.

A large majority of the homes have power washers of some sort. Very few families reported or wanted fixed tubs for a part of their laundry apparatus. Owners ranked above the non-owners in laundry equipment.

Various other states have also compiled statistics on farm housing conditions. In comparison with these states, Iowa is much like Maryland. This is especially true of the percentage of unpainted and one-story buildings. Maryland also has few houses under 10 years of age. The houses in these two states have a higher average number of rooms than in

TABLE 116. SIZE OF FARM HOUSES IN REPRESENTATIVE STATES, 1934.

Items  Number of houses in survey.	Iowa 18,789	Florida 57,200	Kentucky	Maryland 53,700	Nevada 3,400	New Mexico 31,900	Arkansas 234,000
Average number of occupants	4.4	4.4	4.7	4.4	3.8	4.8	4.7
	7.0	4.8	4.8	8.1	4.9	3.9	3.9
pants per room	0.6	0.9	0.95	0.5	0.8	1.2	1.2
	3.6	2.6	2.6	3.7	2.5	2.0	2.2

Source: Iowa Agr. Exp. Sta., Bul. 174.

TABLE 117. ROOMS PER FAMILY AND PER PERSON IN FARM HOUSES, 1934.

Number of	Number of families		Rooms per family		Rooms per person		Percentage having less than one room per person	
occupants	Owner	Non- owner	Owner	Non- owner	Owner	Non- owner	Owner	Non- owner
1 2 3 4 5 6 7 8 9 10 11 12 13 and over	133 754 795 817 598 434 248 140 79 43 18 10	61 608 982 1,069 862 537 355 204 123 57 29 22	5.8 6.5 7.02 7.2 7.4 7.5 7.2 7.3 7.5 7.5 7.5	5.9 6.6 6.7 6.8 7.0 7.2 7.3 7.0 7.2 7.2 6.8	5.8 3.3 2.3 1.8 1.4 1.2 0.9 0.8 0.6 0.6	5.9 3.3 2.2 1.7 1.4 1.2 1.0 0.9 0.8 0.7 0.7 0.6 0.5	0.1 1.1 1.3 5.4 11.7 29.0 56.4 77.2 90.1 100.0 90.0	0.8 1.6 6.6 13.4 37.2 54.4 85.3 96.5 96.5
All	4,081	4,918	7.0	6.9	1.7	1.5	9.7	12.5

Based on 8,999 families in five Iowa counties. Source: Iowa Agr. Exp. Sta., Bul. 174.

### FARM HOME CONVENIENCES

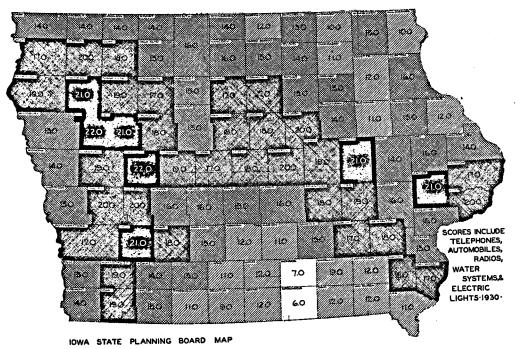
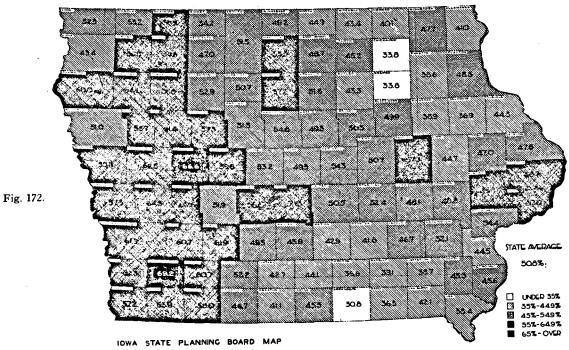


Fig. 171. The data on this map are a combination of the rankings of the different counties on the five conveniences

shown in figs. 172 and 176. Ida and Carroll counties rank highest in this group of home conveniences.

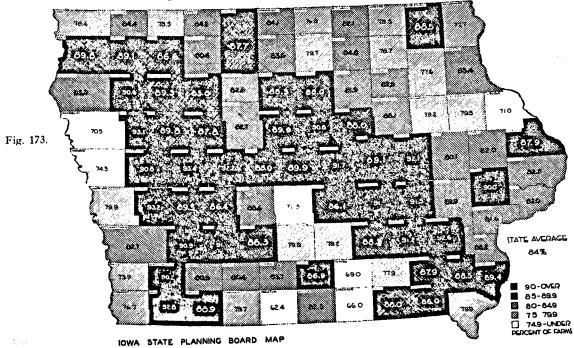
### FARMS WITH RADIOS

PERCENTAGE OF FARM FAMILIES OPERATING RADIOS-1930-



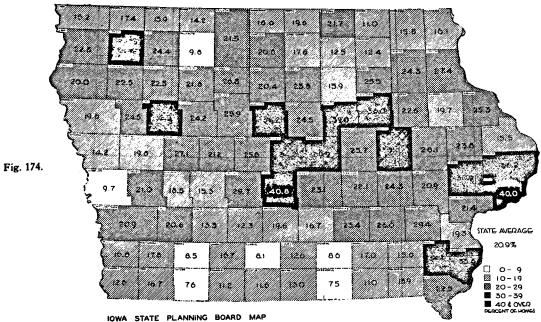
## FARMS WITH TELEPHONES

PERCENTAGE OF FARMS EQUIPPED WITH TELEPHONES-1930-



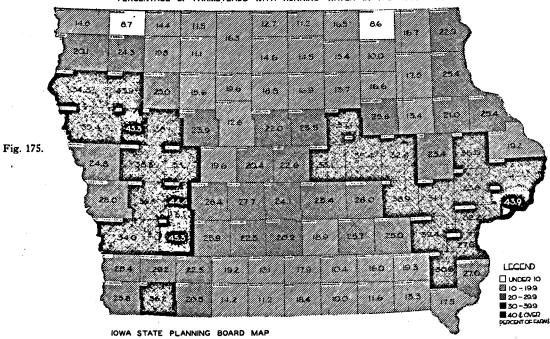
### FARMS WITH ELECTRICITY

PERCENTAGE OF FARM HOMES WITH ELECTRICITY -1930-



### FARMS WITH WATER SYSTEMS

PERCENTAGE OF FARMSTEADS WITH RUNNING WATER IN THE HOUSE - 1930 -



### FARMS WITH AUTOMOBILES

PERCENTAGE OF FARMS HAVING AUTOMOBILES - 1930 -

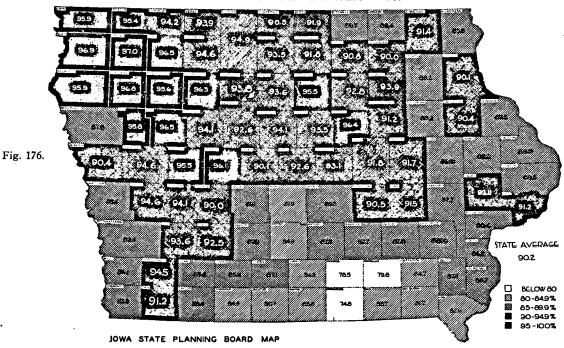


TABLE 118. FARM HOUSES NEEDING REPAIR OR INSTALLATION OF CERTAIN ITEMS, 1934.

Items	Per	entage						
	Owners*	Non-owners*						
Paint, exterior	40.5	43.8						
Screens	29.8	41.1						
Interior walls and ceilings	25.6	36.6						
Fences	24.8	34.8						
Roof	22.8	26.8						
Walks and drives	22.3	30.5						
Foundation	20.2	32.3						
Closets	18.7	26.8						
Doors and windows	18.6	33.1						
Bathtub	18.0	22.3						
Lavatory	18.0	21.6						
Flush toilet	17.3	20.9						
Plantings	16.9	23.0						
Lawn	16.2	25.4						
Bathroom	15.7	19.1						
Kitchen sink with drain	14.7	21.5						
Floors	14.6	23.7						
Piped cold water	13.5	17.2						
Piped hot water	12.4	14.5						
Cistern	11.7	18.4						
Exterior walls	10.4	16.7						
Power line	10.1	13.1						

\* Based on 18,789 houses in ten Iowa counties, 1934. Source: Iowa Ag. Exp. Sta., Bul. 174.

TABLE 119. FARM HOUSING CONDITIONS IN REPRESENTATIVE STATES, 1934.

Items	Iowa	Florida	Kentucky	Maryland	Nevada	New Mexico	Arkansas
Number of houses in survey.	18,789	57,200	233,300	53,700	3,400	31,900	234,000
Kind of house	Percent	Percent	Percent	Percent	Percent	Percent	Percent
Log	0.2	1.2	12.3	1.2	0.6	10.0	4.2
	2.8	47.0	29.0	7.1	35.9	21.9	70.0
	1.9	1.9	4.0	11.1	7.4	13.6	0.5
Under 10 years	5.9	36.0	18.0	7.1	21.2	23.8	20.8
50 and over years	28.5	5.1	23.6	48.8	10.3	9.1	9.5
One story	10.7	86.9	56.2	3.3	81.6	89.0	93.4
Rooms Dining rooms Wash rooms for farm help Bathrooms Condition of house, good	75.9	59.4	54.0	85.8	52.4	27.9	39.6
	18.9	21.0	4.9	2.8	5.3	2.9	1.5
	21.2	25.5	6.3	18.3	39.4	11.1	3.3
Foundation Roof Doors and windows Paint, exterior Interior walls and ceilings	51.2	24.8	51.0	68.7	40.4	50.8	19.6
	60.8	29.9	46.4	60.3	46.3	34.5	28.9
	54.0	32.4	46.3	57.4	51.6	35.4	25.3
	33.0	11.2	18.4	25.7	20.6	16.3	5.6
	50.0	14.0	42.9	47.4	38.2	27.6	17.3

Source: Iowa Agr. Exp. Sta., Bul. 174.

Except for Iowa these data were taken from press releases of the U. S. D. A. Bureau of Home Economics. They are all subject to later revision. Data for Iowa are based on actual homes surveyed. For the other states the data are an estimate for the entire farm population.

any of the other states that have data available.

Nevada ranks highest in the proportion of bathrooms, piped hot water, kitchen sink with drain and power lines. Iowa is first in the number of central heating units and lowest in fireplaces as sources of heat.

Maryland and Florida report a high percentage of ice refrigeration, and Iowa is exceptionally

high in the number of power washing machines. Walks, drives and fences are also more common in Iowa.

Compared with surrounding states, Iowa is third in the per-

TABLE 120. CONDITION OF IOWA HOMES, 1934.

Foundations Present condition Good Fair Poor Repairs or alterations needed Replacement or new installation needed	Total 51.2 34.0 14.6	Farm*	Percenta Non- owner	Total	Town*2	Non-
Present condition	51.2 34.0	Owner		Total		Non-
Present condition	34.0				Owner	owner
Good	34.0					
Fair	34.0	61.2	43.3	51.5	60.4	38.6
Repairs or alterations needed		30.0	37.1 19.3	34.3 13.7	30.2 9.0	40.2 20.5
	19.8	8.6 15.5	23.2	20.6	17.9	24.4
Exterior Walls	7.1	4.7	9.1	9,9	6.6	14.6
Present Condition	63,6	70.9	57.9	65.5	73.1	54.5
GoodFair	29.9 6.5	25.2 4.0	33.6	65.5 29.2	1 23 6	37.3 8.2
Poor	11.2	8.6	8.5 13.3	5.3 12.9	3.3	16.6
Replacement or new installation needed Roof	2.7	1.8	3.4	3.4	2.4	4.9
Present Condition						
Good	60.8 27.7	64.2 26.7	58.1 28.5	58.7 28.2	62.5 26.9	53.3 30.1
Poor	11.7	9.4	13.6	13.0	10.6	16.6
Replacement or new installation needed	17.3 7.7	15.5 7.3	18.7 8.1	16.4 14.6	15.4 13.3	17.8 16.4
Chimneys Present Condition						
GoodFair	79.8	84.4	76.2 18.8	82.9	87.7	76.0
Fair	16.5 3.9	13.5	18.8 5.1	14.0 3.1	10.4 1.8	19.1 4.9
Poor Repairs or alterations needed Replacement or new installation needed	7.2	2.4 5.7	8.3	6.8	5.2	9.2
Replacement or new installation needed	2.1	1.2	2.8	2.2	1.3	3.5
Doors and windows Present Condition						
GoodFair	54.0 35.1	64.9 29.7	45.3 39.3	57.3 35.2	66.4 29.6	44.1 43.2
Poor	11.3	5.6 15.0	39.3 15.7	35.2 7.6 20.9	4.0	12.7
Poor	20.9 5.9	3.6	25.5 7.6	5.5	17.1 3.0	26.3 9.2
Screens Present Condition		ļ	ĺ			
GoodFair	46.6	54.2	40.6	50.8	58.1	40.1
Fair	30.3 19.0	30.0 13.7	30.6 23.2	34.3 14.6	32.0 9.8	37.7 21.5
Poor	17.0	16.0 13.8	17.9	i 14.8	13.8	16.4
Replacement or new installation needed Paint Exterior	19.0	13.8	23.2	20.1	15.1	27.3
Present Condition Good						
Fair	33.0 38.2	36.3 38.6	30.3 37.9	27.7 40.4	34.1 39.5	18.3 41.6
Poor	26.2 17.7	22.6 17.0	29.0	26.3 13.0	39.5 21.2 12.2	41.6 33.7 14.1
Poor	24.6	23.5	18.3 25.5	38.1	33.7	44.5
Interior Walls and Ceiling						1
Present Condition Good	50.0	58.0	43.6	53.0	60.7	41.8
Fair	36.2 12.7	34.3 8.2	40.3 16.3	36.8 10.1	32.9 6.3	42.5 15.6
Poor Repairs or alterations needed Replacement or new installation needed	23.8	19.8	26.9 9.7	1 25.2	21.4	15.6 30.7
Floors	8.0	5.8	9.7	7.5	5.1	11.2
Present condition	F7 0			F1 2	60.0	38.1
Fair Poor Repairs needed Replacement needed	57.8 32.1	. 66.5 27.6	51.0 35.7	51.2 37.9 10.9	60.2 33.2	44.7
Popoin moded	10.4	6.3 9.8	13.7	10.9 18.0	6.6 14.0	17.2 23.9
Replacement needed	12.8 6.8	4.8	15.3 8.4	10.2	7.3	14.5
					}	
Present condition	66.6	72.1	62.3	58.6	65.4	48.7
Fair	20.0 3.9	16.5 2.4	22.8 6.8	20.5 3.7	17.2	25.2
Fair Poor Repairs needed Replacement needed	5.9	] 4.0	6.8 7.3 3.5	6.5	5.0 1.4	6.3 8.7
Insulation	2.6	1.4	3.5	2.7	1.4	4.5
Present condition				20.0	26.0	20.0
Fair	39.2 24.5	49.2 22.4	31.4 26.2	30.0 39.8	36.8 39.0	40.8
Poor.	14.3	9.4	18.2	10.3	7.2	14.8 5.2
Present condition           Good           Fair           Poor           Repairs needed           Replacement needed           Replacement of house needed	5.2 11.9	4.0 9.0	6.1 14.3	4.5 7.5	4.0 5.2	10.9
Replacement of house needed				6.5	3.9	10.4

<sup>\*</sup> Population less than 2,500.

1Based on 18,789 farm houses in 10 Iowa counties, 1934.
2Based on 8,587 town houses in 10 Iowa counties, 1934.
Source: Iowa Agr. Exp. Sta., Buls. 174 and 186.

centage of homes having radio sets. Illinois is first with 55.6 percent and Wisconsin second with 51 percent.

The Iowa percentage of 48.5, however, is well above that for the nation as a whole. From the homes that reported, it is estimated that there were 12,048,762 radios in United States homes, or 40.3 of all homes, in 1930. Iowans owned 308,448 radios in 1930.

A higher proportion of New Jersey homes had radios in 1930 than those of any other state. The New Jersey percentage was 63.4.

Iowa farmers own more automobiles than any of their neighbors in surrounding states, according to the figures for 1930. In that year, the farmers of the state owned over a quarter of a million automobiles while Illinois was second of the bordering states with 192,873. In the same year, Minnesota was third and Wisconsin fourth. The total number of cars owned by farmers in the United States who reported to census takers in 1930 was 4,134,-675.

Iowa farm homes also contain more telephones than do those of any of the bordering states. In 1930 there were 180,876 telephones in the rural dwellings as compared with 147,672 in Illinois farm homes, the next ranking state. In all, there were 2,139,194 telephones in the farm homes of the United States.

Out of the 994,202 rural homes in the United States having water piped into them, Iowa claimed 51,635 to lead its neighboring states in this home convenience. Illinois was second with Nebraska third.

By a close margin, Wisconsin had more farm homes lighted by electricity in 1930 than Iowa. There were 841,310 homes in the nation lighted electrically. Iowa had 46,042 and Wisconsin 46,565.

TABLE 121. IOWA HOME FACILITIES.

			Perc	entage		
		Farm			All Towns*	
	Total	Owner	Non- owner	Total	Owner	Non- owner
Kitchen sink with drain	53.8	61.1	48.0	63.6	68.8	56.0
Toilet facilities Improved outdoor toilet Unimproved outdoor toilet Indoor chemical toilet Indoor flush toilet	10.3	11.3	9.6	3.7	4.2	3.0
	79.5	73.3	84.3	65.2	60.3	72.3
	0.7	1.0	0.4	0.6	0.6	0.4
	14.8	22.1	9.0	38.2	44.1	29.7
Bathroom fixtures Tub. Shower. Lavatory.	18.8	27.0	12.3	36.6	42.9	27.4
	2.3	3.8	1.1	2.3	3.1	1.2
	15.3	22.6	9.5	35.6	41.7	26.7
Disposal of sewage Tewn or village sewage disposal. Septic tank Cess pool Stream Surface	7.0 20.0 8.6 39.0	11.0 23.3 9.5 35.5	3.9 17.4 8.0 41.7	23.5 9.6 17.4 4.9 11.2	25.8 11.9 18.8 5.2 10.7	20.3 6.2 15.4 4.6 12.0
Refrigeration facilities Ice refrigeration Mechanical refrigeration	15.1	17.8	13.0	27.6	28.5	26.3
	2.5	4.0	1.3	10.7	12.3	8.4
Cooking facilities Wood or coal stoves. Kerosene or gasoline stove. Gas stove. Electric stove.	95.4	94.5	96.1	71.9	74.1	68.8
	49.2	51.8	47.1	71.2	70.1	72.9
	1.9	2.8	1.2	5.7	5.9	5.4
	0.9	1.5	0.4	7.6	9.7	4.4
Laundry facilities Where done Out of doors. In kitchen. In basement. In special room on same level as kitchen.	14.8	12.6	16.5	6.9	5.7	8.5
	37.0	33.4	40.0	29.4	26.7	33.3
	18.8	25.7	13.4	30.1	35.4	22.4
	38.1	36.2	39.7	30.0	27.6	33.4
Equipment Fixed laundry tubs Power washing machine. Hand washing machine.	2.6	3.4	1.9	1.0	1.1	1.0
	63.5	67.3	60.6	64.8	66.2	62.7
	22.1	19.5	24.3	10.3	9.7	11.2

<sup>\*</sup> Population less than 2,500.

Source: Iowa Agr. Exp. Buls. 174 and 186.

TABLE 122. FARM HOME FACILITIES IN REPRESENTATIVE STATES, 1934.

Items	Iowa	Florida	Kentucky	Maryland	Nevada	New Mexico	Arkansas
Number of houses in survey.	18,789	57,200	233,300	53,700	3,400	31,900	234,000
Water supply							
Carrying water	77.6	63.8	89.6	66.9	43.2	80.3	85.9
Piped hot water	13.6	8.8	3.9	14.5	34.7	6.0	1.0
Kitchen sink with drain Disposal of sewage	53.8	24.0	8.9	31.5	62.6	16.3	3.5
Septic tank	7.0	14.0	1 2	4.4	12.5	1.2	0.7
CesspoolLighting	20.0	5.0	1.8	8.6	15.6	11.0	0.5
Home electric plant	11.7	4.1	2.2	5.2	3.2	3.1	1 2
Power line	15.3	18.7	6.5	20.5	66.2	9.1	1.2 2.3
Fireplaces	0.8	66.5	63.5	4.1	6.5	12.1	49.2
Central heating Refrigeration	29.4	0.4	2.7	12.7	3,8	1.3	0.1
Ice	15.1	43.2	22.5	41.5	31.8	16.9	12.0
MechanicalLaundry done	2.5	5.4	2.4	3.7	7.6	3.8	1.1
Out-of-doors	14.8	86.7	51.0	36.5	34.1	28.5	87.9
Power washing machine	63.5	3.8	6.0	22.1	29.4	15.0	1.3
Kerosene or gasoline stove	49.2	29.4	14.8	41.2	7.4	21.0	3.8
Gas or electric stove	2.8	3.5	1.7	3.3	9.9	4.4	0.3

Source: Iowa Agr. Exp. Bul. 174.

TABLE 123. RADIOS IN HOMES.

	Number of radios	Percentage of homes
United States	12.048.762	40.3
Iowa	308,448	48.5
Illinois	1.072.995	55.6
Minnesota	286.886	47.3
North Dakota	59,246	40.9
South Dakota	71.245	44.2
Nebraska	164.159	47.9
Wisconsin	563,265	51.0
Missouri	351.298	37.4

No division made for rural and non-rural. Source: U. S. Census, 1930.

TABLE 124. MEDIAN VALUE OF FARM HOMES\*.

State	Total \$2,135	Owners \$2,459	Tenants \$1,829
Adair Adams Allamakee Appanoose Audubon Benton Black Hawk Boone Bremer Buchanan	2,639	2,247 2,153 2,471 1,193 2,505 2,800 2,751 2,567 2,879 2,088	1,682 1,568 2,103 1,030 1,810 2,144 2,065 1,824 2,328 1,640
Buena Vista Butler Calhoun Carroll Cedar Cerro Gordo Chickasaw Clarke Clarke	2,190 2,564 2,172 2,748 2,320 1,991 2,084	2,985 2,149 2,709 2,941 2,558 3,057 2,749 2,534 2,338 1,565	2,190 1,486 1,878 2,203 1,757 2,462 1,997 1,739 1,836 1,298
Clay	1,455 1,379 2,429	2,736 2,849 3,060 2,793 2,490 1,577 1,491 2,731 2,545 2,170	1,837 2,537 2,522 1,998 1,704 1,254 1,241 2,145 1,785 1,459
Dubuque Emmet Fayette Floyd Franklin Fremont Greene Grundy Guthrie Hamilton	2,129 2,141 2,285 1,953 2,025 2,364 1,706	2,836 2,428 2,392 2,472 2,837 2,411 2,535 2,845 1,936 2,920	2,418 1,610 1,816 1,845 1,857 1,529 1,728 1,993 1,482 2,235
Hancock Hardin Harrison Henry Howard Humboldt Ida -lowa Jackson Jasper	2,469 1,876 2,415 1,992 2,468 2,538 2,468	2,467 2,893 2,136 2,626 2,281 2,950 3,331 2,836 2,316 2,512	1,837 2,162 1,650 2,158 1,666 2,042 2,169 2,002 1,958 1,728
Jefferson. Johnson. Jones. Keokuk Kossuth. Lee. Linn. Louisa Lucas. Lyon.	2,330 2,014 1,453	2,257 2,789 2,625 2,189 2,866 2,349 2,556 2,550 1,559 2,612	1,609 2,160 2,190 1,738 1,913 1,813 1,991 1,633 1,307 1,831
Madison	1.515	1,784 2,264 1,827 2,846	1,312 1,693 1,467 2,276

TABLE 124 (Cont'd)

TABLE 125. FARM CONVENIENCE	TABLE	LE 125.	FARM	CONVENIENCE
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State	Total	Owners	Tenants
	\$2,135	\$2,459	\$1,829
Mills	2,118	2,503	1,757
	2,277	2,543	1,952
	1,761	2,068	1,503
	1,221	1,290	1,054
	2,590	2,929	2,219
	2,655	2,872	2,415
O'Brien Osceola Page Palo Alto Plymouth Pocahontas Polk Pottawattamie Poweshiek Ringgold	2,571	3,135	2,321
	1,908	2,340	1,772
	2,330	2,741	1,883
	1,893	2,388	1,667
	2,279	2,774	1,950
	2,349	2,800	2,057
	2,074	2,369	1,735
	2,212	2,623	1,850
	2,031	2,370	1,795
	1,582	1,861	1,333
Sac	2,352	2,825	1,981
	3,208	3,610	2,823
	2,434	3,093	1,893
	2,160	2,756	1,815
	1,994	2,593	1,669
	2,248	2,526	1,909
	1,838	2,129	1,566
	1,912	2,273	1,474
	1,510	1,661	1,332
	1,860	1,984	1,596
Warren Washington Wayne Webster Winnebago Winneshiek Woodbury Worth Wright	1,546	1,769	1,322
	2,550	2,872	2,176
	1,473	1,742	1,258
	2,252	2,675	1,924
	2,099	2,430	1,839
	2,805	2,685	2,452
	1,938	2,447	1,655
	2,170	2,450	1,870
	1,959	2,574	1,604

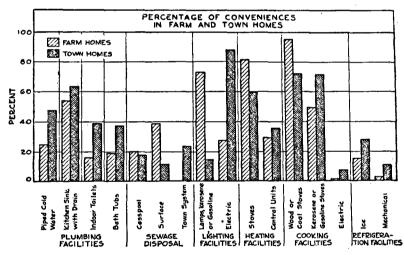
<sup>\*</sup> Median value is the mid-point of values in a series arranged from lowest to highest. Source: Special Report, U. S. Census, 1930.

Fig. 177. Town homes in Iowa have the edge on farm homes in certain conveniences. Notice particularly that a much larger proportion of town homes have electric lighting than do farm homes.

	Autos	Telephones	Water piped into Homes	Lighted with Electricity
United States Lowa Illinois Illinois Minnesota Minnesota Misconsin Missouri Nebraska North Dakota South Dakota	4,134,675	2,391,194	994,202,	841,310
	240,512	180,876	51,635	46,042
	192,873	147,672	42,391	34,231
	185,717	114,693	23,124	23,342
	176,764	107,486	28,454	46,565
	176,466	137,712	21,308	20,223
	141,144	93,888	39,357	21,380
	78,798	31,878	5,844	6,192
	81,923	44,608	12,089	9,070

Figures indicate conveniences on farms reporting.

Source: U. S. Census, 1930.



### CHAPTER VIII. IOWA POPULATION

OWA'S population history dates back to the eighteenth century. It was in 1795 that the Spanish government granted to Basil Giard the land that is known as Clayton County. In territorial days this grant was known as the Giard Tract.

At about the same time another settlement was taking place within the boundaries of the state. In the area between the converging Des Moines and Mississippi rivers, many traders and trappers were finding an advantageous place to carry on their business. They made friends with the Indians, many of the whites married Indian women and upon the basis of these friendly relations, the Indians granted to one Louis Honore Hudson the land extending

south of a line drawn west from Fort Madison and bounded by the Des Moines and Mississippi rivers.

The two grants, both bordering on the river, became important entries into the state. The southern tract, because of its accessibility, seemed to be more attractive and its agricultural prospects gave it an early lead in the settlement of Iowa.

The start of the new century found Iowa's territory in the hands of the United States because of the Louisiana Purchase in 1803. One of the first problems of the government was to untangle some of the strained relationships between the whites and the Indians that were a result of the land grants made by Spain. The original policy was to prohibit migration into the new ter-

ritory. With that in mind, troops were stationed along the river to drive out squatters and turn back new arrivals.

In 1832 the Blackhawk Purchase opened the territory for settlers and there was a rush of new arrivals in the district. Settlers interested in agriculture replaced the more transient traders and trappers, and in the next few years there was a tremendous increase in the population of the state. Indicative of the rapidity of the settlement is the fact that within scarcely more than a decade some 10,000 square miles were reduced to settlements and made to furnish a living for approximately 40,000 people.

In the 10 years between 1840 and 1850 the population grew rapidly,

### DISTRIBUTION OF IOWA'S POPULATION

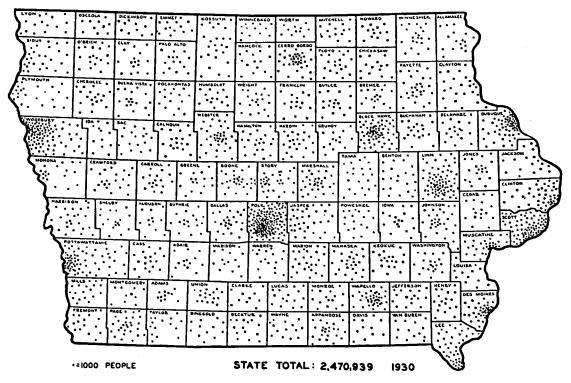


Fig. 178. The above map shows approximately how around the cities would be much closer than indicated here, Iowa's population is distributed through the state. The dots if the map were strictly accurate. Data in table 126.

and by the outbreak of the Civil War there were 674,913 people in the state. At that time there were 31 counties along the eastern and southeastern borders of the state that were in a condition of complete agricultural settlement.

There was a gain of over half a million people in the decade during which the Civil War was fought. This period marks the most rapid gain in the population of the state. The newly passed Homestead Act was responsible for this increase, and most of it took place in the latter part of the period. In the meantime the frontier was rapidly disappearing to the west. By 1880 nearly another half million people had been added to the inhabitants of the state.

By 1890 the population was nearing the 2 million mark, and practically all of the state was settled. Settlers were, in fact, forced to seek free lands outside the boundaries of Iowa.

In the first 10 years of the new century, the population figures showed the first decline in the history of the state when there was a net loss of 7,802 people. The number of people increased during the next two decades, and both the 1920 census and the 1930 census showed increases in population. In 1930 Iowa had a population of 2,470,939 or 44.5 inhabitants per square mile.

Figure 179 shows the growth of Iowa population since 1838. Natural increases were responsible for some of the growth, but Iowa, like most other states that lay in the path of the movement to the west, found its population greatly increased by the influx of settlers. The rural population increased most rapidly as was to be expected from the nature of the country. Later there was an increased trend toward settling in groups and the urban population started to increase.

The settlement of Iowa spread out, fanlike, from the southeastern part of the state. The counties along the Mississippi were the first to be settled. These were the most easily accessible and also were in the line of travel of settlers from Illinois and other states farther east. Gradually, the population began to spread out to all corners of the state. Even as

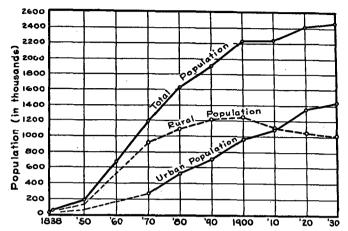


Fig. 179. The lines in this chart show the trends of total, rural and urban population in Iowa. Note that urban population has passed rural population in recent years. Data in table 127.

early as 1860 nearly half the state had a normal agricultural population—15 or more persons per square mile. In 1880 only a few counties in the northwest corner had less than a normal rural inhabitation, and by 1890 the whole state had a density of 15 or more people per square mile.

Figure 180 shows the progress of the settlement of the state. In 1840, it will be seen that most of the state was unsettled and only 50 years later, less than a normal lifetime, the state was able to boast a settlement of nearly 2 million people.

Since the settlement of Iowa there has been a change in source of the migrants into the state. In the early days of the state, many of the migrants who were responsible for the rapid increase in population came from the eastern states of Ohio, Indiana, Kentucky, Pennsylvania, Virginia and New York. Ohio was the heaviest contributor to this state's population. As the state became more settled migrants began to come from other places, and bordering states began to supply settlers.

Figure 181, in a series of maps, shows this change in the source of migrants. Now Nebraska, Missouri, Minnesota and Wisconsin are losing people who are coming to Iowa to live. All of the western states have lost some residents to Iowa, while formerly very few came east.

This change follows the westward movement of the center of popula-

tion in the same period. Development of western lands brought those seeking new fields out of the east and some of them remained in Iowa. Figure 183 shows the trend in migration since the early days of the state. While there are still many who were born in other states living in Iowa, the increase of incoming residents has ceased. Since 1880 migration has been reversed and more people have been going out of the state than have been coming in. This number reached its peak in 1900 and decreased some by 1910. Indications point toward a more stabilized situation in the future with fewer people leaving the state.

Reduction of the number of people leaving the state is one of the problems that must be solved by those who are planning for the future of Iowa. In the early days of the state this movement to other states was a matter of settling the country. As some of the settlers moved out to seek their fortunes farther west, others were coming in from the eastern states to settle in Iowa. More people were staying in the state than were going out and the population grew rapidly.

Now the situation is changed. The population is increasing slowly due to an excess of births over deaths, but more people are going out of the state than are coming in. Most of the people leaving are of the younger groups between the ages 20 and 30.

Figure 182 shows the movement of the native white migrants born in Iowa who are residing in other states. The numbers have been increasing yearly since 1870. At that time a few went to the bordering states. In the years since the numbers going to more distant states have increased while the bordering states have also claimed many former Iowa residents. By 1930 California had called more Iowans to its borders than any of the states adjoining Iowa, and Colorado, Washington, Oregon and other western states had large numbers of Iowaborn people.

### Urban-Rural Distribution

Since the agricultural possibilities are what brought the thousands of settlers flocking to Iowa, it is to be expected that in the early days at least Iowa residents would be predominately rural. That was the situation when the state was being settled. The pioneers were chiefly concerned with turning the 55,000 square miles of the state into as many fertile farms as possible. They made their own living with very little in the way of outside purchases, and they stayed with the soil, since there were not then many commercial opportunities.

The trend toward a larger urban population began about 1870. Several factors have been at work to bring this about. Industrial projects have sprung up offering work to those on the farms. Then there has been the advent of labor-saving machinery on the farm that enabled the farmer to get along with less help. Many hired men, sons and daughters were not needed on the farm any more so they went to the city to seek employment. Farmers retire sooner than they used to and usually move to town where they are numbered among the urban population. All of these factors have tended to concentrate the population in the cities.

Figure 185 shows the urban-rural distribution of the state's population since 1900. In that year over half of the population was classed as rural, but each year since then the rural population has been decreasing. In 1930, the census figures show that nearly 60 percent of the

TABLE 126. IOWA POPULATION-1930.

				<del></del> _	<del></del>		<del>,</del>
County	Total	Male	Female	Urban	Rurali	Rural Farm	Rural Non-Farm
Adair	13,891	7,133	6,758		13,891	9,044	4,847
Adams	10,437	5,373	5,064	2,526	10,437	7,165	4,847 3,272
Allamakee	16,328 24,835	8,534 12,689	7,794 12,146	8,147	13,802 16,688	9,657 8,874	4,145
Audubon	12,264	6,368	5,896	0,14,	1 12.264	I 8.043	7,814 4,221
Benton	22,851	11,820	11,031 34,743	6,611	16,240	11.737	4,503
Black Hawk	69,146	34,403	34,743	53,553	15,593	11,04/	4.546
Boone	29,271 17,046	14,965 8,629	14,306 8,417	11,886 3,652	16,240 15,593 17,385 13,394	10,764	0,621
Bremer Buchanan	19,550	9,974	9,576	3,691	15,859	9,143 10,086	6,621 4,251 5,773
Į.					1	•	,
Buena Vista	18,667	9,544	9,123	4,157	14,510	9,388	5,121
Butler Calhoun	17,617 17,605	8,983 8,967	8,634 8,638		17,605	10,188 9,693	7,429 7,912
Carroll	22,326	11,250	11,076	4,691	17,635	11,061	6,574
Cass	19,422	11,250 9,818	9,604	5,585	17,617 17,605 17,635 13,837	9,371 9,727	4.466
Cedar	16,760 38,476	8,670 19,511	8,090 18,965	26,370	10,700	9,727	7,033
Cherokee	18,737	9,746	8,991	6,443	12,106 12,294	9,141 8,989	2,965 3,305
Chickasaw	14,637	7,512	7,125		14,637	9,002	5,635
Clarke	10,384	5,334	5,050	2,871	7,513	6,274	1,239
Clay	16,107	8,258	7,849	5,019	11,088	8,472	2,616
Clayton	24.559	12,852	11,707		24.559	13,600	10,959
Clinton	44,377	22,455	21,922	25,726	18,651	13,600 11,823	6,828
Crawford Dallas	21,028 25,493	10,985 13,070	10,043 12,423	3,905 5,881	17,123 19,612	12,027 10,625	5,096 8,987
Davis	11,150	5,695	5,455	3,001	11,150	7,799	3.351
Decatur	14,903	7,645	7,258		14.903	8,581	6,322
Delaware	18,122	9,250 18,722	8,872	3,413	14,709	10,703	4,006
Des Moines Dickinson	38,162 10,982	18,722 5,675	19,440 5,307	26,755	11,407 10,982	7,460 5,673	3,947 5,309
							-
Dubuque Emmet	61,214 12,856	29,995 6,596	31,219 6,260	41,679 4,940	19,535 7,916	11,742 5,962	7,793 1,954
Favette	29,145	14,731	14,414	7,794	21,351	13,046	8,305
Fayette Floyd Franklin	10 524 1	10,037	9.487	8,039	11.485	7,893	3,592
Franklin	16,382	8,544 7,984	7,838 7,549	3,473	12,909 15,533	7,893 9,791	3,118
Fremont	16,382 15,533 16,528	8,576	7,349	3,431	15,533	9,008	6,525 3,764
Grundy	14,133	7,312	6,821	3,431	14.133	9,333 8,665	5,468
Guthrie	17,324	8,809	8,515		17,324	10,131	7,193
Hamilton	20,978	10,874	10,104	7,024	13,954	10,310	3,644
Hancock	14,802 22,947	7,783 11,972	7,019	*2****	14,802	9,501	5,301
Hardin	22,947	11,972	10,975 11,962 8,728	7,312	15,635	10,023	5,612 7,318
Harrison	24,897 17,660	12,935 8,932 6,768	8.728	4,230 3,743	20,667 13,917	13,349 7,968 7,655	5,949
Howard	13.082	6.768	6.314	3,069	10,013	7.655	2,358
Henry Howard Humboldt	13,202	0.901	6,301		13,202	7,201	6,001
Ida	11,933	6,233	5,700	••••	11,933	7,009	4,924
Jackson	17,332 18,481	8,872 9,477	8,460 9,004	3,595	17,332 14,886	10,713 9,596	6,619 5,290
Jasper	32,936	16,915	16,021	11,560	21,376	13,468	7,908
Jefferson	16,241	8,174	8,067	6,619	9,622	7,474	2,148
Johnson	30,276	15,022	15,254	15,340	14,936	10,968	3,968
Jones	19,206	10,499	8,707	3,579	15,627	9,691	5,936
Keokuk	19,148 25,452	9,778 13,219	9,370 12,233	3,985	19,148 21,467	10,898 15,800	8,250 5,667
KossuthLee	41,268	21,051	20,217	28,885	12,383	8,983	3,400
Linn	82,336	40.586 I	41,750	60,445	1 21.891	14,024	7,867
Louisa	11,575	3,986	5,589 7,424	5,365	11,575	6,165	5,410
Lucas	15,114 15,293	5,986 7,690 7,963	7,330	3,303	11,575 9,749 15,293	6,925 9,376	2,824 5,917
· 1				2,921	l		2,458
Madison	14,331 25,804	7,373 12,875	6,958 12,929	10,123	11,410 15,681	8,952 11,619	4,062
Mahaska Marion Marshall	25 727	13,459	12,268	8,023	17,704	10.650	7,054
Marshall	33,727		16,762	17,373	16,354	10.694	5,660
Milis	15,800	8,214	7,652. 6,814	4,269	11,597	7,590 7,985	4,007
Mills	14,065 18,213	8,214 7,251 9,522	8,691	2,964 2,538	11,101 15,675	11,041	3,116 4,634
Monroe	15.010 1	7,738	7,272	4,425	10,585	7,474	3,111
Montgomery	16,752 29,385	8,524	8,228 14,534	5,778	10,974	7,090	3,884
Muscatine		14,851		16,778	12,607	7,783	4,824
O'Brien	18,409	9,386	9,023	3,320	15,089 10,182	9,156	5,933 3,746
Osceola Page	10,182 25,904	5,310 13,102	4,872 12,802	11,464	10,182	6,436 9,510	4,930
Palo Alto	15,398	8,011	7,387	2,865	14,440 12,533 19,371	9,510 8,924	3,609
Plymouth	24,159	12,673	7,387 11,486	2,865 4,788	19,371	13,837	3,609 5,514
Pocahontas Polk	15,687 172,837	8,034 84,385	7,653 88,452	146,839	15,687 25,998	9,696 12,437	5,991 13,561
Pottawattamie	69.888	35.492	34,396	42,048	27,840	18,790	9,050
Poweshiek	69,888 18,727	9,438	9,289	4,949	13,778	9,660	4,118
Ringgold	11,966	6,094	5,872		11,966	7,848	4,118
Sac	17,641 77,332	9,039	8,602 38,330	2,854	14,787	9,038	5,749
ScottShelby	77,332 17,131	39,002 8,867	38,330 8,264	63,519	13,813 13,986	9,431 10,691	4,382 3,295
Sioux	26,806	13,687	13,119	3,145	26,806	15,451	11,355
Story	31,141	15,547	15,594	13,394	17,747	1 10.694	7,053
Tama	21,987	·11,356	10,631	2,626	19,361	1 11.715	7,646
TaylorUnion	14,859 17,435	7,434 8,753	7,425 8,682	8,615	14,859 8,820	8,857 6,263	6,002 2,557
	27,750	0,133	0,002	1 9,013	1 3,020	, 4,200	. 2,551

TABLE 126. IOWA POPULATION-1930-Continued.

County	. Total	Male	Female	Urban	Rural	Rural Farm	Rurai Non-Farm
Van Buren Wapello	12,603 40,480	6,331 20,287	6,272 20,193	28,075	12,603 12,405	7,265 7,986	5,338 4,419
Warren	17,700 19,822	8,948 10,175	8,752 9,647	3,488 4,814	14,212 15,008	10,610	3,602 5,109
Wayne	13,787 40,425 13,143	6,930 20,569 6.851	6,857 19,856 6,292	21,895	13,787 18,530 13,143	7,356 11,749	6,431
Winnebago	21,630 101,669	11;134 51,246	10,496 50,423	4,581 79,183	17,049 22,486	8,145 13,334 14,701	4,998 3,715 7,785
Worth Wright	11,164 20,216	5,832 10,372	5,332 9,844	6,649	11,164 13,567	7,068 9,389	4,096 4,178
Total	2,470,939	1,255,101	1,215,838	979,292	1,491,647	964,659	526,988

Towns are classified as urban if they have more than 2,500 inhabitants.
 Source: U. S. Census, 1980.

population were classed as urban or living in incorporated places. Approximately 40 percent lived in cities of 2,500 or over.

Table 128 shows the number of cities according to their size. This table also shows the gain in urban population. Since 1890 there has been an increase of approximately a half million people in the cities. There are nearly 200,000 more people in villages, and the farm inhabitants have decreased by nearly the same amount.

### Constituency of Iowa Population

Native born Americans have predominated in the flow of immigration to Iowa. The people who came into the state were from the eastern states of Indiana, Ohio, New York, Pennsylvania, the Virginias, the Carolinas and the New England states. They were English-speaking, native born residents of the same stock as the people who had settled the country along the Atlantic seaboard.

In 1856 only about 18 percent of Iowa's population had been born in the state. Over 65 percent had been born in other states and some 16 percent had been born abroad. By 1900, however, the set-up had changed, and nearly 60 percent of the residents had been born in the state, 27 percent in other states, and 13 percent foreign born. In 1930, 73 per-cent were born in the state, 20 percent in other states, and 7 percent foreign. It was not until 1890 that native-born Iowans comprised 50 percent of the population.

From fig. 189 it can be seen that German-born foreigners exceed by far those of any other country. In 1895 Ireland was in second place but by 1925 had dropped down to tenth place while Sweden was second to Germany.

### Marriage and Divorce

There has been much publicity given to the belief that during the last 20 years the trend has been toward postponing marriage until later in life and that fewer people are marrying. There has been a slight increase, however, in the number of married persons between the ages of 15 and 34 in Iowa.

Iowans then are not putting off marriage nor are fewer of them marrying. From the available figures, it appears that the rural communities have more single men than the urban districts. There are more single women in the urban communities, probably because many of the younger women leave the rural districts to go to the city where they

either marry or obtain jobs in business or professional lines.

Although there is considerable talk about the increasing number of divorces, the number of Iowa people involved in divorces is not alarming. In 1920 only eight-tenths of one percent of the married people were reported as divorced. More divorces were obtained in urban communities than in rural. There were more widowed females in urban communities than in rural areas. Since city women are more likely to enter commercial careers, it follows that the percentage of widows is higher in cities than in the rural communities. They are less likely to marry than farm women who find it impossible to carry on alone with the business of farming.

### Birth and Death Rates-Future **Population**

The rate of growth of Iowa's population has been steadily declining since 1840. During the second decade of the present century, the increase was 8.1 percent and only 10 years later it had dropped to 2.8.

According to recent estimates, Iowa's population has nearly reached the maximum that is predicted for the state. The total population of the state may never reach 3 million and the year 2,000 may find the total smaller than the present figure of 2,471,000.

Present indications are that the population may reach its maximum figure some time between 1960 and 1980, probably about 1970. An estimate by P. K. Whelpton places the probable population in that year

TABLE 127. IOWA POPULATION (1838-1930).

Year	m-4-1	Rural	(1)	Urban (2)		
rear	Total Population	Population	Percent	Population	Percent	
1930 1920 1910		1,026,725 1,053,060 1,117,642	41.6 43.8 50.2	1,444,214 1,350,961 1,107,229	58.4 56.2 49.8	
1900 1890 1880	1,911,896 1,624,615	1,261,230 1,209,634 1,094,615(8)	56.5 63.3 67.4	970,623 702,262 530,000(1)	43.5 36.7 32.6	
1870 1860 1850	192,214	914,020(3)	76.6	280,000(3)	23.4	
1840	43,112 22,859	1		1 1		

Farm population and unincorporated hamlets.
 Cities, towns and incorporated villages.
 Approximately correct from 1915 Census of Iowa.
 Source: Iowa Agr. Exp. Sta., Bul. No. 275, W. L. Harter and R. E. Stewart.

at 2,662,000 people, only 200,000 larger than the present population.

The percentage increase in the population has dropped to almost nothing, and present conditions leave no room for an increase. Iowa's population will probably decrease for some time after the maximum point is reached.

Three important variables affect the future of the state's population. These are: The birth rate, the death rate and migration.

Since birth records have been kept, the state's birth rate has been on a constant decline. In 1840, 474 children per 1,000 women, 15 to 44 years of age, were born. By 1930 this number had dwindled to 83. By 1980 it is estimated that the number will drop to 66. It is probable that this decline will continue for a generation and after that time will come to a constant figure.

In 1840 there were 1,048 children between the ages of 0 to 4, per 1,000 women between the ages of 15 to 44, and by 1930 this number had dropped more than 50 percent to 413.

The decline has been less in the rural than in the urban districts. There are several reasons for the decline. Voluntary action probably explains most of them. Children are less of an economic burden on the farm. Some city women seek commercial careers to fill in their time, since their household duties are less exacting than on the farm. The social life of the farm is more often built around the family than in the city. For these reasons there is perhaps a greater tendency for the city families to restrict the number of children.

For the most part, however, there has been a decrease in the number of families rather than an increase in the number of childless families. The prediction that the decline in birth rates in the future will not be as rapid as in the past is based upon the presumption that all of the factors have been brought to bear upon the rate, and any future action will have less force and will not be as severe. The estimated birth rate for 1980 is 20 percent less than in 1930.

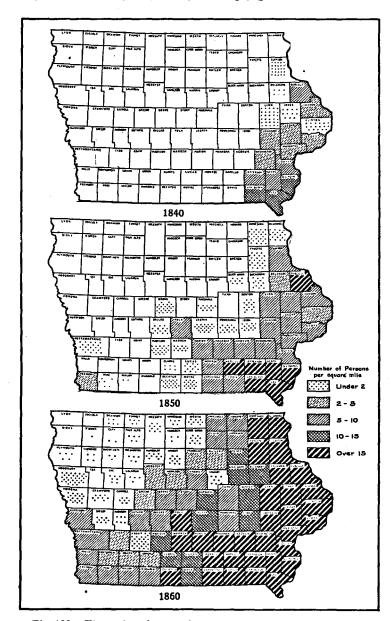


Fig. 180. The series of maps shown here picture the progress of settlement of the state by 10-year periods from 1840 to 1890.

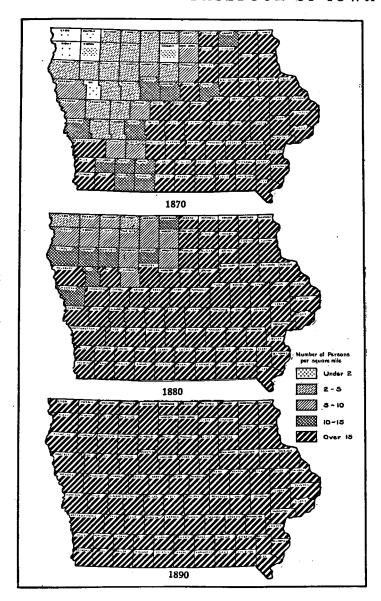
Source: Iowa Agr. Exp. Sta., Bul. No. 275, W. L. Harter and R. E. Stewart.

### Natural Increase and Emigration

One of the reasons why Iowa's population has not increased more rapidly is because the movement of the people out of the state has obscured a part of the natural increase. The original population of the state, of course, came from other states. Illinois, Ohio, Indiana, New York

and other eastern states helped stock the state in its early days. But since then, Iowa's residents have started moving to other states. Even by 1870 there were large numbers of Iowa-born residents in the adjoining states.

Net migration from 1840 to 1850 was 135,000 people and the natural



increase was 14,000, giving a total increase of 149,000. In the 10 years from 1900 to 1910, however, the migration was a minus 343,000, the natural increase was 336,000, leaving a loss of 7,000 people to the state. Since 1910 the state's population has increased each decade. By 1980 it is expected that the death rate will have exceeded the birth rate and that the state will lose 11,000 people in the decade 1970-1980.

If the national government con-

tinues its policy of restricted immigration, Iowa with no undeveloped resources to be tapped, no water power to be utilized, and no prospect of expanded industrial activity has little chance of attracting people within its borders. In fact during the next 50 years, Iowa can expect to lose half of her natural increase through people moving to other states.

Until 1923 the number of deaths in the state was not recorded but

data from comparable areas indicate that death rates have been and still are decreasing. For all age groups the death rate for rural inhabitants is lower than that of urban inhabitants.

### Expectation of Life

Increases in the expectation of life result in part from decreasing death rates of infants under 1 year of age. Further increase in expectation of life may be attributed to increased control of disease, improved health conditions in cities and to the increase in the percentage of the population that is native born. During the next 50 years it is probable that the death rate will be lowered 50 percent for children under 5 years of age. For those between the ages of 25 and 45, it will be lowered from 20 to 40 percent and for those between 45 and 75 it may be reduced less than 10 percent.

Table 132 shows the expectation of life at selected ages. In 1910 the average number of years of life which a young man 20 years of age might expect was 47.7 and by 1930 it had increased to 49.6. By 1980 the estimate is 51.9 for a 20-year-old person.

The records show that birth rates have been falling faster than death rates. Estimates show that if these rates continued to fall during 1934 and 1935 at the same rates as they did during 1930-33 the population of Iowa had a true rate of natural decrease by 1935 and will not reproduce itself on a permanent basis in the future. Some growth would occur for a few years, but once the population becomes stabilized, growth would end and a small decline in numbers commence.

### Future Population

Estimates on Iowa's future population indicate that there will be considerably more people in the advanced ages than at present. The number of children between the ages of 0 to 4 in 1930 was 220,000. The prediction for 1980 is 165,000. The numbers of people between the ages of 44-49 will increase and the number of people over 75 will double, from 57,000 in 1930 to 131,000 in 1980.

With these predictions in mind, the passing of one generation will

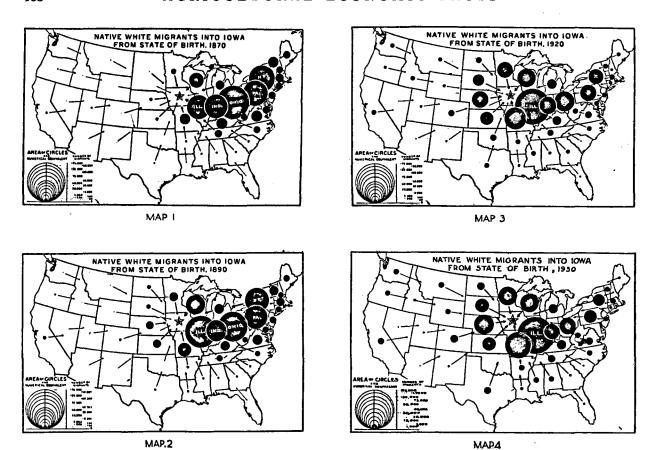


Fig. 181. The four maps shown above represent the movement of people from other states into Iowa from 1870 to 1930. Note the heavy movement from the eastern states in early days as compared with the light movement from that section now.

Source: Iowa Agr. Exp. Sta., Bul. No. 275, W. L. Harter and R. E. Stewart, and 1930 U. S. Census.

TABLE 128. POPULATION OF CITIES, VILLAGES, FARMS AND UNINCORPORATED HAMLETS. 1930, 1920, 1910, 1900 and 1890.

	l ,	1930		l .	1920			1910		1900			1890		
	No.	Population	%	No.	Population	%	No.	Population	%	No.	Population	%	No.	Popul a tion	%
State total		2,470,939	100		2,404,021	100		2,224,771	100		2,231,853	100		1,911,896	100
Cities <sup>1</sup> total	81	979,292	39.6	81	875,495	36.4	69	680,054	30.6	70	572,386	25.6	46	405,764	21.2
100,000 and over 25,000-100,000 10,000- 25,000 5,000- 10,000 2,500- 5,000	1 9 11 14 46	142,559 406,505 167,405 94,173 168,650	5.8 16.4 6.8 3.8 6.8	1 6 11 18 45	126,468 285,053 192,629 114,802 156,543	5.3 11.9 8.0 4.8 6.5	 8 9 9 43	330,091 137,107 59,402 153,454	14.8 6.2 2.7 6.9	6 8 10 46	218,259 129,096 70,618 154,413	9.8 5.8 3.2 6.9	4 7 8 27	145,802 115,234 56,582 88,866	7.6 6.0 3.0 4.6
Villages <sup>2</sup> total	836	464,922	18.8	828	475,466	19.8	715	427,175	19.2	601	398,237	17.8	416	296,498	15.5
1,000- 2,500 500- 1,000 Under 500	123 213 500	186,409 147,718 130,795	7.5 6.0 5.3	129 219 480	192,550 154,369 128,547	8.0 6.4 5.3	114 209 392	172,417 143,854 110,904	7.7 6.5 5.0	116 196 289	173,057 136,336 88,844	7.8 6.1 4.0			
Farm and Unincor- porated Hamlets		1,026,725	41.6	,	1,053,060	43.8		1,117,642	50.2		1,261,230	56.5		1,209,634	63.3

Urban population derived from Federal census reports.
 Village population derived from Iowa census report on urban population.
 Source: Iowa Agr. Exp. Sta., Bul. No. 275, W. L. Harter and R. E. Stewart.

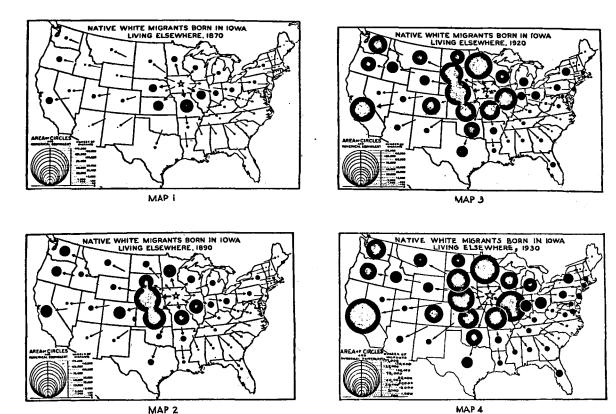


Fig. 182. These maps show the exodus of Iowans to other states. California has been the new home of many former Iowa dwellers in recent years.

Source: Iowa Agr. Exp. Sta., Bul. No. 275, W. L. Harter and R. E. Stewart, and 1930 U. S. Census.

TABLE 129. FOREIGN BORN POPULATION LIVING IN IOWA FROM 1856 TO 1930 BY COUNTRY OF BIRTH.

	1930	1925	1915	1905	1895	1885	1856
Germany	53,901	61,518	88,450	110,187	132,347	120,396	29,706
Sweden	16.810	18,911	25,683	28,396	31.085	25,396	1,116
Denmark	14,698	15,455	18,955	17,290	17,043	12,250	
Norway	12,932	14.217	20,239	23,953	27,428	24,107	2,782
Netherlands	10,135	12,094	12,638	9,677	9,126	5,461	589
England	9,045	10,988	15.741	18,263	23,411	25,974	8,941
Austria	1,596	10,803	7,655	4,040	11,128	,	1,426
Canada	6,333	8.411	10,980	14,306	17,882	19,087	6,133
Russia	4,482	8,197	9.896	3,825	2,100		96
Ireland	5,957	7.786	14,299	22,578	33,006	42,524	20,896
Italy	3,834	4.513	6,261	1,645	710		7
Scotland	2,871	3,450	4,947	5,693	7,037	7,993	2.170
Мехісо	176	2,597	616	21	30	4	1
Switzerland	2.096	2,403	3.160	3,845	2,694		1,108
Greece	1,910	1,868	4,678				3
France	1.435	1.564	1,883	1,719	2,329	2.486	1,807
Luxemburg	873	1,187	1,000		2,025	2,100	-,,
Belgium	932	1,132			727		1.511
Wales	1,183	958	2.048	2.621	3,439	3,436	595
Hungary	295	483	1,300	551	3,235	0,400	
Bohemia		400	9,500	9,098		10.423	
Unknown			269	2,833	3,552		4,565
All others		5,640	4,971	1,801	5,354	10,871	447

Countries from each of which less than 1,000 had come are grouped as "All others." Source: Iowa Agr. Exp. Sta., Bul. No. 275, W. L. Harter and R. E. Stewart.

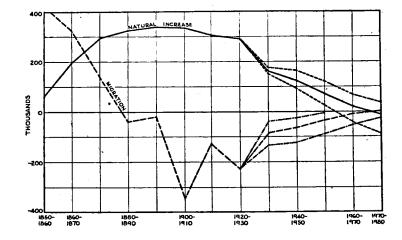
bring Iowa face to face with the problems of a stationary population.

There are many problems that must be faced. There is the changing age distribution that will decrease by one-third the proportion of the population under 20 and double the proportion over 65. The decrease in the number of children to be educated may be balanced by the need for more adult education. Pensions or other means of caring for the aged will become increasingly important. The total number of dependent people, however, both young and old is not likely to increase.

Stationary population will call for a stabilized agriculture. Farmers will no longer be able to depend upon a growing population as an out-

let for their products.

These conditions call for careful planning on the part of those responsible for Iowa's future. Some of the slowing down effects may be harmful but if met carefully can be taken care of with maximum adventage to all vantage to all.



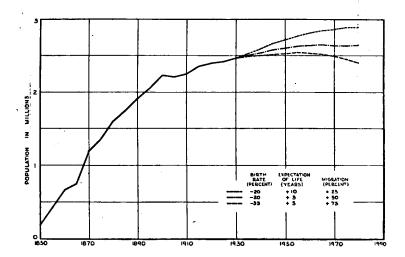


Fig. 183. This diagram shows the trends in the natural increase of Iowa population and migration. Since 1880 we have had a net out-movement of population from the state.

Source: Iowa Agr. Exp. Sta., Bul. No. 177, P. K. Whelpton.

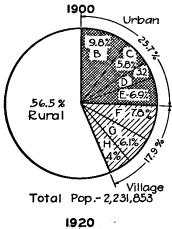
Fig. 184. This chart shows the trend of Iowa population with estimates for the next 50 years. Data in table 133.

TABLE 180. IOWA POPULATION FOREIGN BORN, BORN IN OTHER STATES AND BORN IN IOWA, 1856 to 1930.

	1856	%	1875	%	1885	%	1895	%	1900	%		
Foreign born Born in other states Born in Iowa	85,449 337,138 95,288	16.5 65.1 18.4	202,583 592,893 555,077	15.0 43.9 41.1	310,405 615,517 828,058	17.2 35.2 47.6	330,548 593,451 1,134,070	15.9 28.6 55.5	305,920 600,353 1,318,377	13.8 27.0 59.1		
Total	517,875		1,350,553		1,753,980		2,058,069		2,231,853			
	1905	%	1910	%	1915	%	1920	%	1925	%	19301	%
Foreign bornBorn in other statesBorn in Iowa	282,296 547,847 1,380,148	12.7 24.8 62.5	273,765 524,774 1,416,584	12.4 23.7 63.9	264,169 542,502 1,551,395	11.2 23.0 65.8	225,994 543,565 1,624,606	9.5 22.7 67.8	194,176 481,547 1,744,204	8.0 19.9 72.1	165,785 495,617 1,798,034	6.7 20.2 73.1
Total	2,210,291		2,224,771		2,358,066		2,404,021		2,419,927		2,459,436	

1. New York World-Telegram Almanac. Source: Iowa Agr. Exp. Sta., Bul. No. 275, W. L. Harter and R. E. Stewart.

# POPULATION OF IOWA URBAN, VILLAGE, AND RURAL



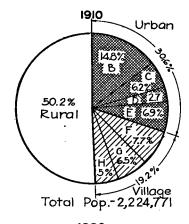
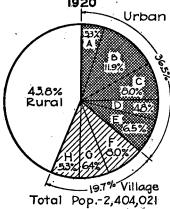
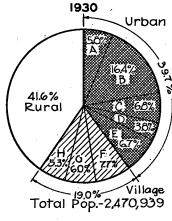


Fig. 185. These diagrams show the proportion of urban, village and rural people in Iowa. Notice the increase in the percentage of urban population. Data in table 128.





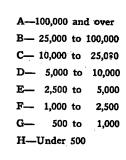
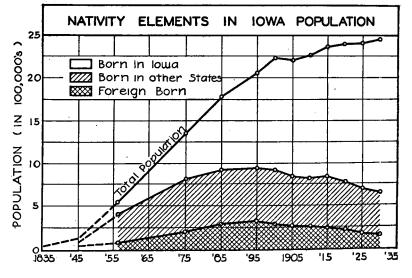


Fig. 186. This graph shows the trends of Iowa population by nativity elements. There has been a decline of "foreign born" and "born in other states" in recent years. Data in table 130.



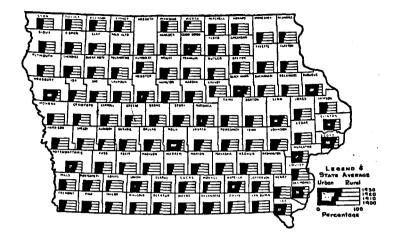


Fig. 187. The bars in the counties on this map represent proportions of urban and rural population. All incorporated places are included in "urban."

Source: Iowa Agr. Exp. Sta., Bul. No. 275, W. L. Harter and R. E.

### CHANGE IN RURAL POPULATION

PERCENTAGE CHANGES IN RURAL POPULATION FROM 1920 TO 1930

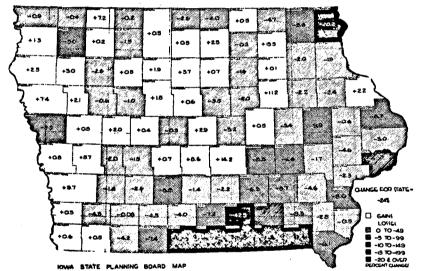


Fig. 188. The figures in this map show the net percentage change in rural population from 1920 to 1930. The 20 percent decline for Allamakee County is misleading, since Waukon graduated from the rural to the urban class between 1920 and 1930.

Source: U. S. Census, 1930.

TABLE 181. RACE AND NATIVITY ELEMENTS IN IOWA POPULATION.

	1930	19251	19103	19002	18903
Total Native white of native parents	2,470,939	2,419,927	2,224,771	2,231,853	1,911,896
Number	1,697,538 68.7	1,574,647 65.1	1,303,526	1,261,068	1,063,967 55.6
Native white of foreign or mixed parentage Number Percent	585,109 23.7	631,731 26,1	632, 181 28.4	651,817 29.2	513,187 26.9
Foreign born white Number Percent	165,735 6.7	192,486 8.0	273,484 12.3	305,782 13.7	323,932 16.9
Colored Number Percent	22,557 .9	21,063 .8	15,580	13,186 .6	10,810 6.

From 1925 Census of Iowa.
 From 1915 Census of Iowa.
 From 1980 U.S. Census.
 Source: Iowa Agr. Exp. Sta., Bul. No. 275, W. L. Harter and R. E. Stewart.

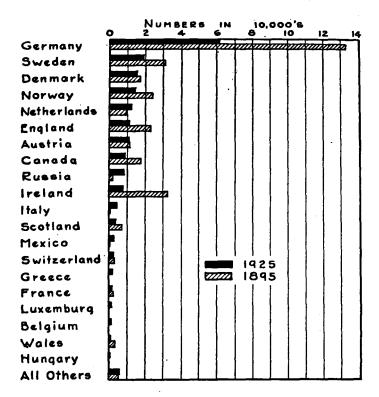


Fig. 189. The country of birth of Iowa's foreign born in 1895 and 1925 are shown in this chart. Germany has contributed more of Iowa's foreign born than any other country.

Source: Iowa Agr. Exp. Sta. Bul. No. 275, W. L. Harter and R. E. Stewart.

TABLE 132. EXPECTATION OF LIFE AT SELECTED AGES, IOWA<sup>1</sup>. (White Population)

	Average years of life remaining at age								
	0	10	20	30	40	50	60	70	
1910, 1920 1930	56.1 58.4 62.7	55.9 56.1 58.6	47.7 47.6 49.6	39.7 39.5 40.9	31.8 32.0 32.4	24.1 24.2 24.2	16.7 16.7 16.7	10.5 10.5 10.5	
Future as estimated				<b>\</b>					
"Low" 1940	63.6 64.2 64.8 65.2 65.4	58.6 58.6 58.6 58.6 58.6	49.6 49.6 49.6 49.6 49.6	40.9 40.9 40.9 40.9 40.9	32.4 32.4 32.4 32.4 32.4	24.2 24.2 24.2 24.2 24.2	16.7 16.7 16.7 16.7 16.7	10.5 10.5 10.5 10.5 10.5	
"Medium" 1940. 1950. 1960. 1970.	64.1 65.4 66.5 67.3 67.7	59.2 59.8 60.4 60.8 61.1	50.2 50.8 51.3 51.6 51.9	41.5 41.9 42.4 42.7 42.8	32.8 33.2 33.6 33.8 34.0	24.5 24.8 25.1 25.3 25.4	16.9 17.1 17.2 17.3 17.4	10.6 10.7 10.7 10.8 10.8	
'High" 1940. 1950. 1960. 1970.	65.9 68.5 70.5 72.0 72.7	60.7 62.3 63.6 64.7 65.3	51.6 53.1 54.4 55.4 56.0	42.7 44.2 45.4 46.3 46.8	34.0 35.3 36.5 37.3 37.8	25.6 26.7 27.7 28.5 28.8	17.8 18.6 19.3 19.9 20.1	11.6 11.4 11.3 11.5 12.6	

Estimated from the death rates of the Scripps Foundation for Research in Population Problems.
 Source: Iowa Agr. Exp. Sta., Bul. No. 177, P. K. Whelpton.

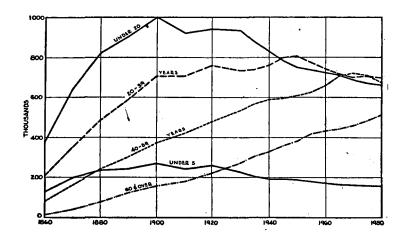


Fig. 190. The lines in this chart show the age changes in Iowa's population since 1860 with estimates to 1980. Note the expected decline in young people and increase in older persons for the future. Data in table 133.

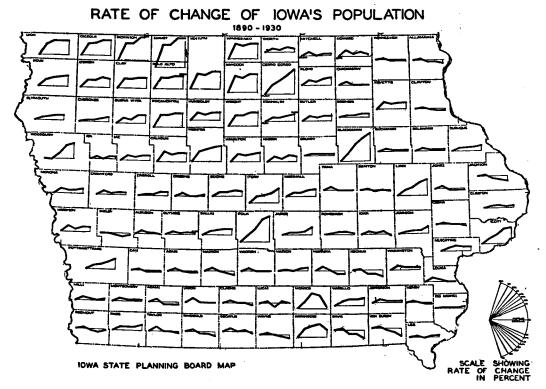


Fig. 191. The above map shows the rate of change of Iowa population since 1890. The counties with the large cities have grown most rapidly.

Source: U. S. Censuses, 1890-1930.

### FARM POPULATION

DISTRIBUTION OF RURAL FARM POPULATION BY BROAD AGE GROUPS

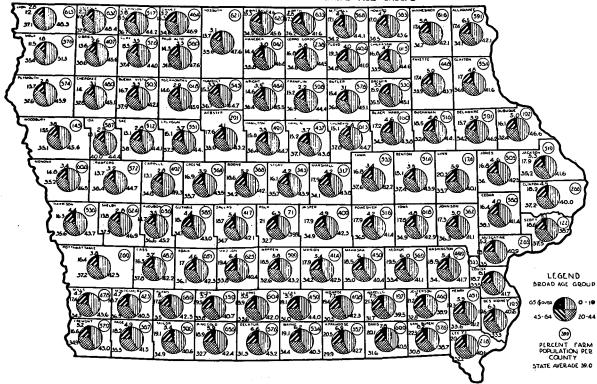


Fig. 192. The circles in the counties in the above map show the distribution of Iowa rural population by broad age groups.

Source: U. S. Census, 1930.

TABLE 133. FUTURE POPULATION OF IOWA\*. (Thousands)

Age	1930	1935	1940	1945	1950	1955	1960	1965	1970	1975	1980
0-4	220	196	193	194	191	184	177	171	169	167	165
5- 9	243	222	197	195	196	195	188	181	176	174	172
10-14	236	238	217	193	191	193	192	187	180	175	173
15-19	224	231	233	213	190	188	191	191	185	178	174
20-24	201	216	224	227	208	185	185	188	189	184	177
25-29	180	192	207	216	220	202	181	182	185	186	182
30-34	175	173	185	200	210	214	198	178	179	183	184
35-39	178	169	167	179	195	205	210	194	175	176	180
40-44	158	171	163	161	174	190	200	205	190	172	173
45-49	145	151	164	156	156	168	184	194	200	186	168
50-54	126	137	143	156	149	149	162	177	188	194	180
55-59	108	118	128	134	147	141	141	154	169	179	185
60-64	92	98	107	117	123	136	130	131	142	157	167
65-69	73	80	85	93	102	108	119	114	115	125	138
70-74	54	58	64	68	75	83	87	96	83	93	102
75 plus	57	67	75	83	90	98	108	116	127	130	131
All ages	2.471	2,515	2,553	2,587	2,616	2,638	2.651	2,659	2,662	2,660	2,651

<sup>\*</sup>Assumes expectation of life increases 5 years from 1930 to 1980, specific birth rates decline 20 percent and net migration from state equals 50 percent of natural increase. Source: Iowa Agr. Exp. Sta. Bul. No. 177, P. K. Whelpton.

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