

Volume 1

**State and County Data**

Part 16

**Kansas**

AC78-A-16

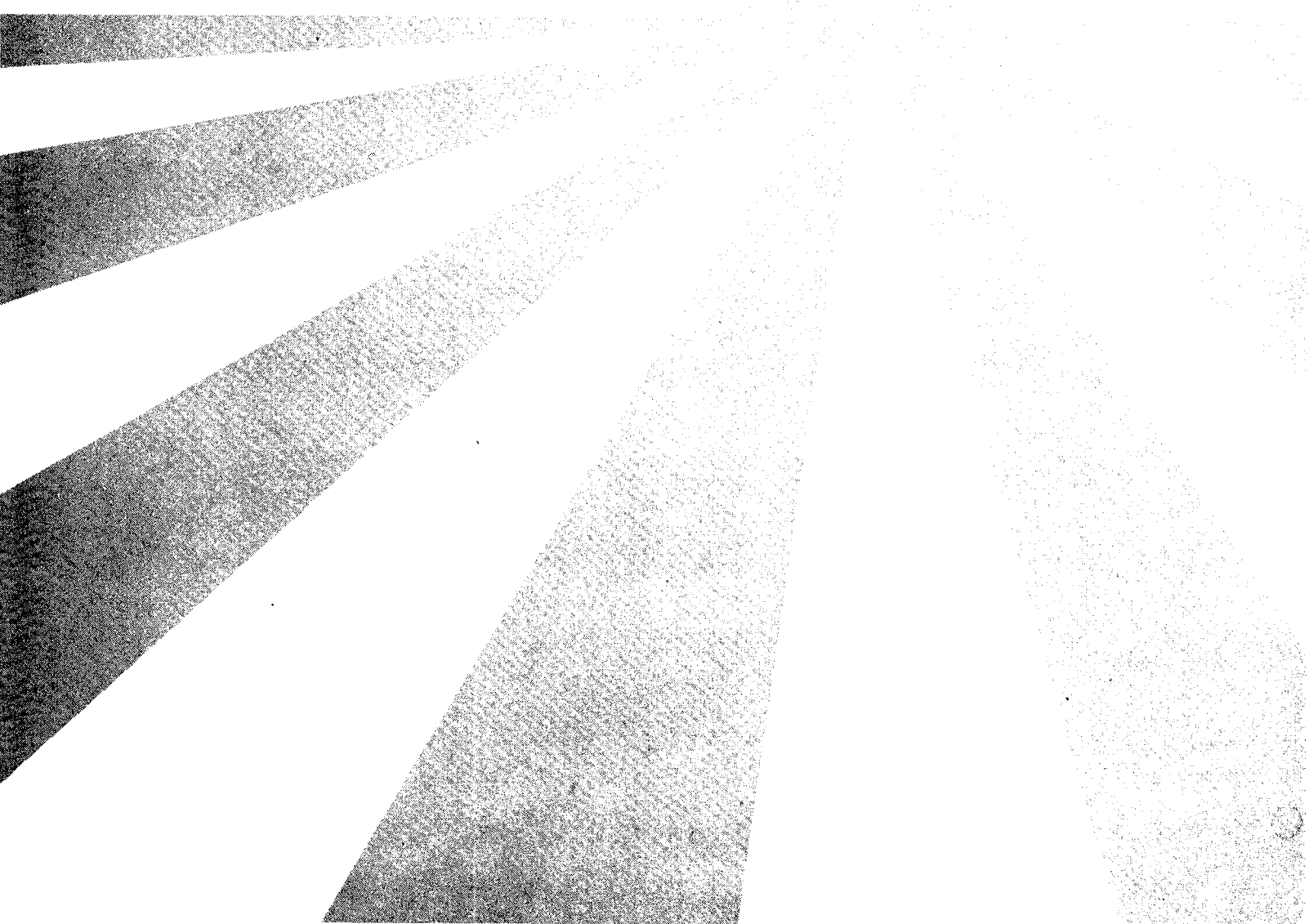
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1978

CENSUS OF  
AGRICULTURE

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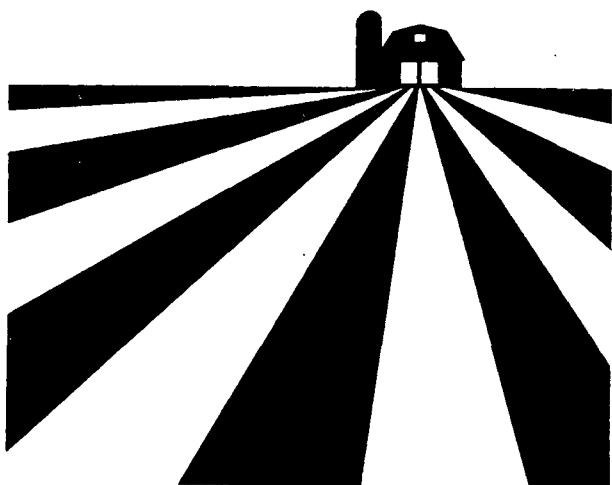


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Issued June 1981



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### HISTORY

The census of agriculture provides a periodic statistical picture of the Nation's farming, ranching, and related activities. The 1978 Census of Agriculture is the 21st taken by the U.S. Department of Commerce, Bureau of the Census.

The first agriculture census was taken in 1840 as part of the sixth decennial census. From 1840 to 1950, an agriculture census was taken as part of the decennial census of population. A mid-decade census of agriculture was conducted in 1925, 1935, and 1945. From 1954 to 1974 a census of agriculture was taken for the years ending in 4 and 9. In 1976, Congress authorized the census of agriculture to be taken for 1978 and 1982 to adjust the data reference year to coincide with the 1982 Economic Censuses covering manufacturing, mining, construction, retail trade, wholesale trade, service industries, and selected transportation activities. Thereafter, the agriculture census will revert to a 5-year cycle.

### AUTHORITY AND AREA COVERED

The census of agriculture is authorized under the provisions of title 13, United States Code. Section 142(a) provides for the census to be taken in 1979, in 1983, and in every fifth year after 1983. Section 191 provides that the census shall include each State, the District of Columbia, Puerto Rico, Guam, and the Virgin Islands. A census of agriculture will be conducted in American Samoa and the Northern Mariana Islands in conjunction with the 1980 Census of Population and Housing.

### FARM DEFINITION

Since 1850, when minimum criteria defining a farm for census purposes were first established, the farm definition has been changed nine times, as the Nation has grown and changed. The current definition was announced on August 12, 1975, in accordance with a joint agreement between the U.S. Department of Agriculture, the Office of Management and Budget, and the Bureau of the Census. It defines a farm, for statistical purposes, as any place from which \$1,000 or more of agri-

cultural products were sold or normally would have been sold during the census year. The previous definition (used for the 1959, 1964, and 1969 censuses, and for the 1974 preliminary county reports) counted as a farm any place with less than 10 acres from which \$250 or more of agricultural products were sold or normally would have been sold during the census year, or any place of 10 acres or more from which \$50 or more of agricultural products were sold or normally would have been sold during the census year.

### METHOD OF ENUMERATION

Evaluation studies of the 1969 and 1974 censuses, which were conducted primarily by mail, indicated that the administrative lists used to create the census mailing list were not adequate to assure complete coverage in the census. Also, censuses prior to 1969, conducted by direct enumeration, had been found by evaluation studies (conducted since 1950) to be progressively less and less complete, as increased mobility of farm operators led to increases in the numbers of nonresident operators, operators farming on a part-time basis, and operators farming two or more separate tracts.

The 1978 Census of Agriculture was conducted primarily by mail for maximum economy, supplemented by a personal canvass of a statistical area segment sample for maximum completeness of coverage. The area segment sample, which consists of selected geographic areas completely canvassed by direct enumeration, provides reliable estimates for States of the number and characteristics of any farms not represented in the mail portion of the census. Estimates for such farms are an integral part of the State totals published for the 1978 census. The direct enumeration sample estimates are statistically reliable only for State totals and have not been allocated to counties. Appendix A provides a more detailed description of how the 1978 census was taken and includes a discussion of census coverage.

### COMPARABILITY OF DATA

State totals for 1978 are not directly comparable with totals for 1974 or earlier censuses as they include data for farm operations represented on the mail list plus estimates from the direct enumeration sample for farms not represented on the mail list. The 1974 State level data include only operations represented on the mail list.

Coverage evaluation studies for the 1974 census indicated that 10.7 percent of all farms were not included in the census. Farms missed in the census were usually small and accounted for less than 3 percent of the total value of agricultural products sold and less than 6 percent of the land in farms. The proportion of farms missed in the 1974 census was generally higher in



States having a large proportion of small farms and urbanized areas having a sizable number of part-time farms. Farm counts for 1974, adjusted for the net undercount, are shown in appendix C.

County level data on acreages and inventories for 1978 and 1974 are generally comparable; however, improvements in the coverage of the 1978 census, especially of smaller farms, should be taken into consideration when comparing farm counts.

## USE OF SAMPLING

Two types of sampling were used for data collection for the 1978 census. In addition to the State estimates from the direct enumeration sample discussed previously, data for items in sections 22 through 27 of the census report form were collected from only a sample of farms. Data based on a sample are subject to sampling error. Detailed discussions of the census report forms, the use of sampling, and estimates of sampling error are included in appendix A.

## GRAPHICS

Several charts and maps presented on the following pages show selected agricultural statistics for this State. The items in the charts and the first four maps are presented for all States. The last four maps present data of particular importance to this State.

## TABULAR PRESENTATION

**State data**—In chapter 1, State tables 1 through 28 show detailed State level data usually accompanied by historical data for one or more censuses. Tables 29 through 35 provide 1978 State data cross-tabulated by various farm classifications.

**County summary data**—Selected data items are presented by county in chapter 2. Tables 1 through 15 include general data such as land in farms, size of farms, land use, operator characteristics, expenses, and machinery and equipment. Inventory and sales data for livestock, poultry, and animal specialties are contained in tables 16 through 27 and detailed crop data in tables 28 through 35. Tables 36 through 43 present data on foreign ownership, income from customwork, direct sales to consumers, operators by racial group, and female operators.

**Individual county data**—Five pages of tables are presented in chapter 3 for each county with 10 farms or more in 1978. The tables include final data for each county and are more comprehensive than those in the preliminary reports. Data are provided for all farms and for farms with sales of \$2,500 or more for both 1978 and 1974.

This chapter also includes a set of similar tables for the State as a whole and for those farms in the State not on the mailing list and not included in county tables.

## PRELIMINARY REPORTS

Preliminary reports have been published separately for all counties in the United States with 10 farms or more in 1978, each State, the four geographic regions, and the United States. This series provided, at the earliest possible date, information on major data items, with comparable final data from the 1974 census. The data items were standard for each State and county except in table 3 where the selected crops varied by State according to their relative importance in the State. The State preliminary report also included a full set of tables providing data derived from the direct enumeration sample on the estimated number and characteristics of farms not included in county totals because they were not represented on the mailing list.

For major data items at the county level differences between the preliminary and final figures are in general less than 5 percent. At the State level, differences are significantly less.

## CENSUS DISCLOSURE RULES

In keeping with the provisions of title 13, United States Code, data that would disclose the operations of an individual farm are not published. However, the number of farms in a given size category or other classification is not considered a disclosure. Appendix A presents additional information on disclosure rules.

## DEFINITIONS AND EXPLANATIONS

Appendix A includes definitions and explanations of selected terms used in the tables.

## “SEE TEXT” REFERENCE

Items in the tables which are followed by the reference “See text” are explained or defined in appendix A.

## ABBREVIATIONS AND SYMBOLS

The following abbreviations and symbols are used throughout the tables:

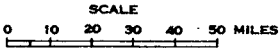
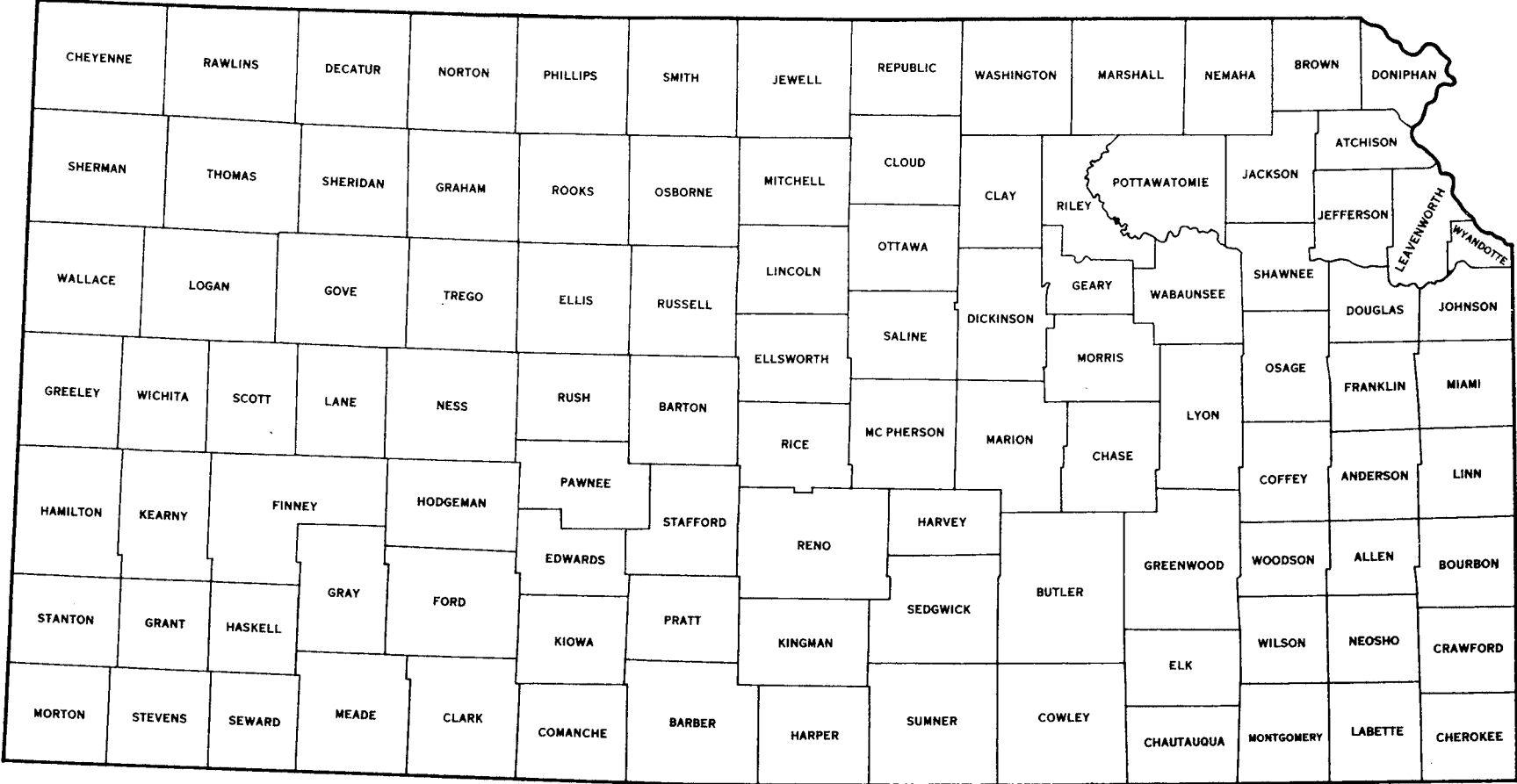
- Zero.
- (D) Data withheld to avoid disclosing information for individual farms.
- (X) Not applicable.
- (Z) Less than half of the unit reported.
- (NA) Not available.
- \* Independent city.

# Highlights of the State's Agriculture: 1978 and 1974

	All farms				Farms with sales of \$2,500 or more			
	1978		1974 <sup>1</sup>		1978		1974 <sup>1</sup>	
	Total	Not on mail list	Total		Total	Not on mail list	Total	
<b>Farms</b> ..... number	77 129	2 958	79 188		67 401	1 235	69 088	
<b>Land in farms</b> ..... acres	47 747 446	247 615	47 945 722		46 835 366	198 374	46 985 958	
Average size of farm..... acres	619	84	605		695	161	680	
<b>Harvested cropland</b> ..... acres	19 092 053	104 409	19 870 535		18 921 455	93 589	19 721 348	
Average per farm..... acres	248	35	251		281	76	285	
<b>Farms by size:</b>								
1 to 49 acres..... number	10 310	1 745	7 924		5 156	397	3 605	
50 to 499 acres..... number	38 228	1 213	42 205		33 783	838	36 548	
500 to 999 acres..... number	14 871	-	16 047		14 784	-	15 948	
1,000 acres or more..... number	13 720	-	13 012		13 678	-	12 987	
<b>Value of land and buildings:<sup>2</sup></b>								
Average per farm..... dollars	313 288	90 690	179 454		347 045	119 238	199 725	
Average per acre..... dollars	501	1 083	296		496	742	294	
<b>Value of machinery and equipment on farms<sup>2</sup></b>								
\$1,000.....	3 175 075	37 379	2 109 529		3 096 259	26 946	2 021 312	
Average per farm..... dollars	41 166	12 637	26 640		45 938	21 819	29 257	
<b>Value of agricultural products sold</b> ..... \$1,000	5 012 183	16 640	3 682 044		4 995 576	14 574	3 666 051	
Average per farm..... dollars	64 984	5 625	46 497		74 117	11 801	53 063	
<b>Crops sold</b> ..... \$1,000	1 450 209	9 366	1 794 548		1 444 322	8 862	1 789 385	
Average per farm..... dollars	18 802	3 166	22 662		21 429	7 176	25 900	
<b>Livestock and livestock products sold</b> ..... \$1,000	3 535 585	7 080	1 864 002		3 525 246	5 712	1 853 625	
Average per farm..... dollars	45 840	2 393	23 539		52 303	4 625	26 830	
<b>Poultry and poultry products sold</b> ..... \$1,000	26 389	194	22 978		26 009	-	22 543	
Average per farm..... dollars	342	66	290		386	-	326	
<b>Farms by value of agricultural products sold:</b>								
Less than \$2,500..... number	9 690	1 723	10 897		-	-	830	
\$2,500 to \$9,999..... number	19 369	528	18 765		19 369	528	18 765	
\$10,000 to \$39,999..... number	27 277	640	29 123		27 277	640	29 123	
\$40,000 to \$99,999..... number	13 827	67	14 299		13 827	67	14 299	
\$100,000 to \$199,999..... number	4 374	-	4 106		4 374	-	4 106	
\$200,000 or more..... number	2 554	-	1 965		2 554	-	1 965	
Abnormal farms..... number	38	(X)	33		(X)	(X)	(X)	
<b>Value of agricultural products sold by farms having sales of—</b>								
Less than \$2,500..... \$1,000	12 849	2 066	13 854		-	-	1 295	
\$2,500 to \$9,999..... \$1,000	111 116	2 882	109 183		111 116	2 882	109 183	
\$10,000 to \$39,999..... \$1,000	589 031	8 957	638 977		589 031	8 957	638 977	
\$40,000 to \$99,999..... \$1,000	860 062	2 735	881 317		860 062	2 735	881 317	
\$100,000 to \$199,999..... \$1,000	597 068	-	559 241		597 068	-	559 241	
\$200,000 or more..... \$1,000	2 838 300	-	1 476 037		2 838 300	-	1 476 037	
Abnormal farms..... \$1,000	3 758	(X)	3 434		(X)	(X)	(X)	
<b>Farm production expenses for selected items:<sup>2</sup></b>								
Feed for livestock and poultry..... \$1,000	805 448	1 736	602 285		800 828	508	597 085	
Seeds, bulbs, plants, and trees..... \$1,000	73 417	449	54 398		72 724	412	54 017	
Commercial fertilizer..... \$1,000	253 327	924	205 830		251 542	837	204 433	
Other agricultural chemicals..... \$1,000	68 962	419	43 071		68 321	358	42 857	
Petroleum products—gasoline, diesel, etc..... \$1,000	209 399	1 667	138 140		206 739	1 350	135 902	
Hired farm labor..... \$1,000	131 607	163	85 140		129 595	112	84 062	
<b>Livestock and poultry inventory:</b>								
Cattle and calves..... number	5 950 800	20 782	5 590 628		5 879 248	15 338	5 459 598	
Hogs and pigs..... number	2 040 714	26 173	1 520 269		2 018 807	21 252	1 501 921	
Sheep and lambs..... number	224 662	-	245 543		217 717	-	235 083	
Chickens 3 months old or older..... number	2 826 117	29 965	2 728 432		2 755 687	3 424	2 636 231	
<b>Crops harvested:</b>								
Corn for grain or seed..... acres	1 578 299	11 286	1 597 279		1 574 596	10 560	1 590 505	
Sorghums for grain or seed..... bushels	154 848 226	674 850	126 247 120		154 657 502	633 600	125 970 580	
Wheat for grain..... acres	3 674 328	9 768	3 238 489		3 647 303	9 768	3 221 056	
Hay crops..... bushels	176 677 300	458 700	132 210 153		175 880 363	458 700	131 754 717	
Tons, dry..... acres	9 650 652	48 804	11 040 335		9 590 210	43 986	11 007 668	
Hay crops..... bushels	269 982 026	1 524 896	299 416 699		268 729 338	1 366 760	298 713 464	
Tons, dry..... acres	2 259 820	18 532	2 066 168		2 197 757	12 972	1 989 285	
Tons, dry..... tons, dry	4 490 401	27 605	4 032 977		4 413 683	20 175	3 933 236	

<sup>1</sup>Not fully comparable because of direct enumeration sample in 1978 totals; see text.  
<sup>2</sup>1978 data are based on a sample of farms; see text.

# KANSAS



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