

Volume 1

State and County Data

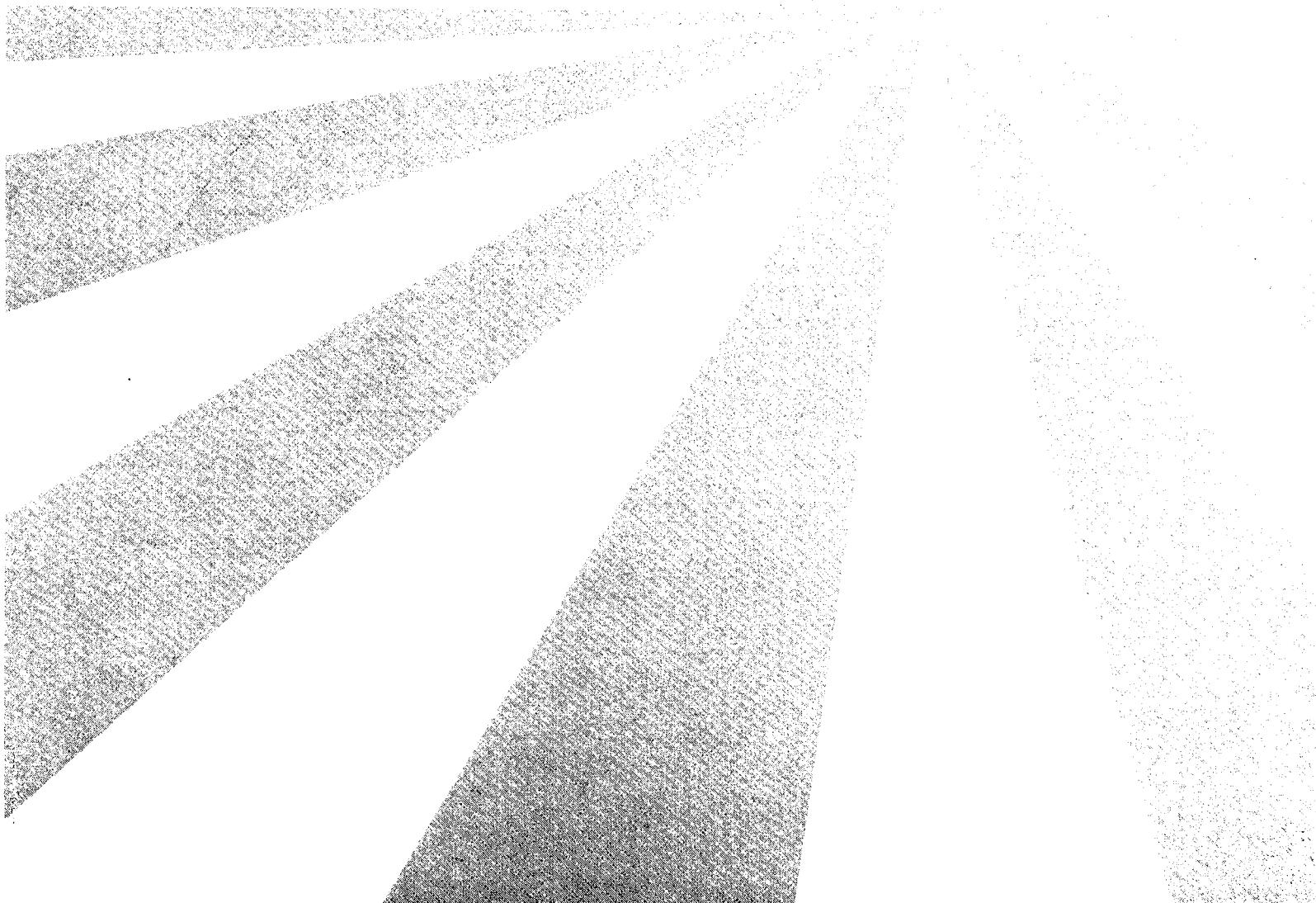
Part 3

Arizona

AC78-A-3

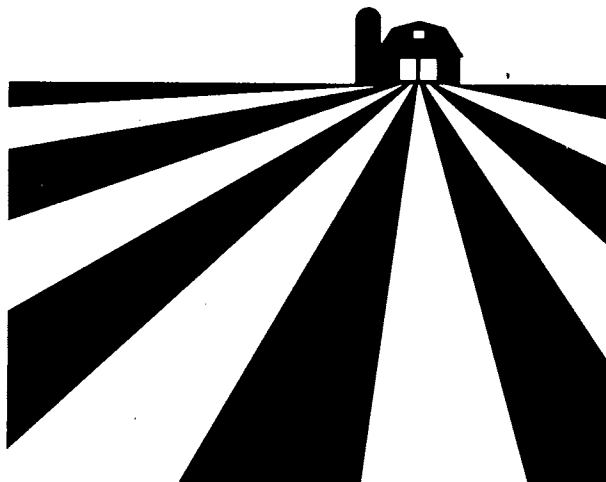
1978
CENSUS OF
AGRICULTURE

U.S. Department of Commerce
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1978
CENSUS OF
AGRICULTURE

Volume 1
State and County Data



Part 3
Arizona
AC78-A-3

Issued June 1981



U.S. Department of Commerce
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William A. Cox,
Acting Chief Economist

BUREAU OF THE CENSUS
Daniel B. Levine,
Acting Director



BUREAU OF THE CENSUS
Daniel B. Levine, Acting Director
Shirley Kallek, Associate Director for
Economic Fields
Richard B. Quanrud, Assistant Director for
Economic and Agriculture Censuses

AGRICULTURE DIVISION
Arnold L. Bollenbacher, Chief

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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:

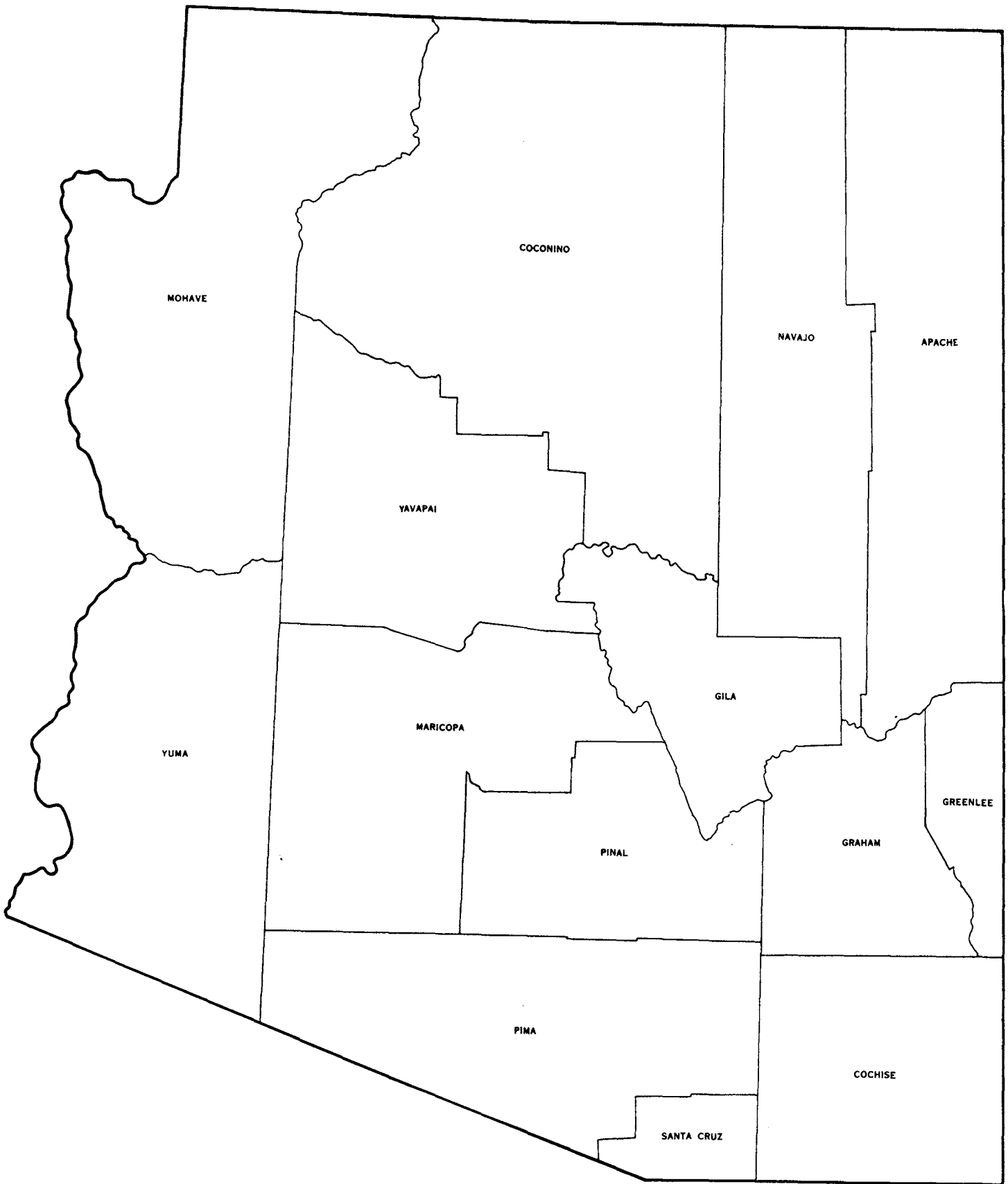
- Zero.
- (D) Data withheld to avoid disclosing information for individual farms.
- (X) Not applicable.
- (Z) Less than half of the unit reported.
- (NA) Not available.
- * Independent city.

Highlights of the State's Agriculture: 1978 and 1974

	All farms			Farms with sales of \$2,500 or more		
	1978		1974 ¹	1978		1974 ¹
	Total	Not on mail list	Total	Total	Not on mail list	Total
Farms..... number.....	7 660	1 362	5 803	4 982	338	4 321
Land in farms..... acres.....	38 657 700	151 795	37 944 191	17 115 674	103 425	16 965 315
Average size of farm..... acres.....	5 047	111	6 539	3 436	306	3 926
Harvested cropland..... acres.....	1 113 890	7 259	1 096 525	1 074 707	5 423	1 052 199
Average per farm..... acres.....	145	5	189	216	16	244
Farms by size:						
1 to 49 acres..... number.....	3 586	1 055	2 213	1 565	183	1 192
50 to 499 acres..... number.....	2 019	220	1 772	1 565	102	1 486
500 to 999 acres..... number.....	649	35	512	573	1	455
1,000 acres or more..... number.....	1 406	52	1 306	1 279	52	1 188
Value of land and buildings: ²						
Average per farm..... dollars.....	1 002 923	96 970	723 169	1 058 730	155 322	637 925
Average per acre..... dollars.....	199	870	111	308	508	162
Value of machinery and equipment on farms ² \$1,000.....	356 087	10 865	210 949	323 249	5 064	194 135
Average per farm..... dollars.....	46 487	7 977	36 352	64 883	14 981	44 928
Value of agricultural products sold..... \$1,000.....	1 317 770	6 312	1 080 530	1 284 763	5 219	1 053 587
Average per farm..... dollars.....	172 033	4 634	186 202	257 881	15 440	243 829
Crops sold..... \$1,000.....	659 552	2 125	500 163	649 319	2 035	491 031
Average per farm..... dollars.....	86 103	1 560	86 190	130 333	6 020	113 638
Livestock and livestock products sold..... \$1,000.....	650 669	4 156	573 786	627 980	3 174	556 119
Average per farm..... dollars.....	84 944	3 052	98 877	126 050	9 390	128 701
Poultry and poultry products sold..... \$1,000.....	7 549	31	6 461	7 465	10	6 422
Average per farm..... dollars.....	986	22	1 113	1 498	30	1 486
Farms by value of agricultural products sold:						
Less than \$2,500..... number.....	2 586	1 024	1 584	-	-	183
\$2,500 to \$9,999..... number.....	1 570	230	1 173	1 570	230	1 173
\$10,000 to \$39,999..... number.....	1 213	88	1 098	1 213	88	1 098
\$40,000 to \$99,999..... number.....	681	14	636	681	14	636
\$100,000 to \$199,999..... number.....	505	-	408	505	-	408
\$200,000 or more..... number.....	1 013	6	823	1 013	6	823
Abnormal farms..... number.....	92	(X)	81	(X)	(X)	(X)
Value of agricultural products sold by farms having sales of—						
Less than \$2,500..... \$1,000.....	2 830	1 093	1 741	-	-	202
\$2,500 to \$9,999..... \$1,000.....	7 833	981	6 232	7 833	981	6 232
\$10,000 to \$39,999..... \$1,000.....	25 687	1 821	23 583	25 687	1 821	23 583
\$40,000 to \$99,999..... \$1,000.....	44 437	872	39 741	44 437	872	39 741
\$100,000 to \$199,999..... \$1,000.....	72 118	-	59 282	72 118	-	59 282
\$200,000 or more..... \$1,000.....	1 134 687	1 545	924 545	1 134 687	1 545	924 545
Abnormal farms..... \$1,000.....	30 177	(X)	25 405	(X)	(X)	(X)
Farm production expenses for selected items: ²						
Feed for livestock and poultry..... \$1,000.....	218 830	2 750	262 959	214 210	1 615	260 314
Seeds, bulbs, plants, and trees..... \$1,000.....	12 149	177	11 698	11 733	117	11 322
Commercial fertilizer..... \$1,000.....	45 195	223	40 150	44 101	196	39 248
Other agricultural chemicals..... \$1,000.....	46 356	100	23 351	45 161	92	22 965
Petroleum products—gasoline, diesel, etc..... \$1,000.....	40 947	647	22 523	38 915	429	21 554
Hired farm labor..... \$1,000.....	129 977	459	92 272	125 524	401	88 719
Livestock and poultry inventory:						
Cattle and calves..... number.....	1 265 896	16 314	1 217 769	1 133 464	10 560	1 091 410
Hogs and pigs..... number.....	192 146	36 412	101 922	155 415	4 382	99 654
Sheep and lambs..... number.....	447 866	280	535 624	214 651	64	222 544
Chickens 3 months old or older..... number.....	649 701	22 114	800 981	622 567	11 717	789 915
Crops harvested:						
Sorghums for grain or seed..... acres.....	22 016	16	93 217	20 535	-	91 395
Wheat for grain..... acres.....	1 578 209	1 712	7 024 313	1 532 825	-	6 943 780
Cotton..... acres.....	104 500	365	175 737	101 696	221	171 055
Hay crops..... acres.....	7 552 742	17 188	11 111 528	7 379 141	11 050	10 874 981
Cotton..... bales.....	569 950	2 386	401 301	560 116	2 386	393 542
Hay crops..... bales.....	1 152 165	5 500	936 790	1 134 196	5 500	919 072
Hay crops..... tons, dry.....	178 227	3 683	194 280	167 597	2 376	184 594
Hay crops..... tons, dry.....	994 092	11 860	1 098 292	956 382	10 264	1 067 071

¹Not fully comparable because of direct enumeration sample in 1978 totals; see text.
²1978 data are based on a sample of farms; see text.

ARIZONA



0 20 40 SCALE 60 80 100 MILES

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