

# 1987

## Census of Agriculture

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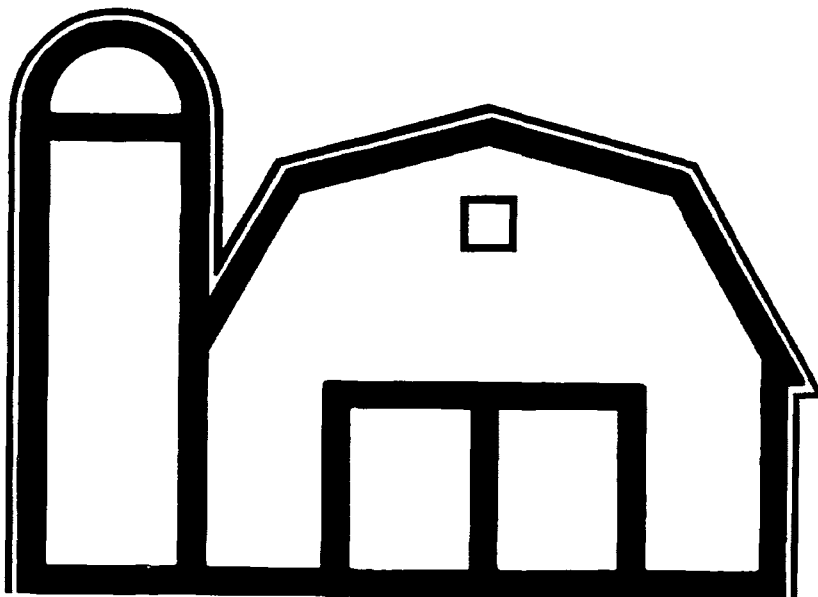
Volume 1  
GEOGRAPHIC AREA SERIES

Part 23

# Minnesota

State and County Data

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U.S. Department of Commerce  
BUREAU OF THE CENSUS

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Special tribute is paid to the millions of farm and ranch operators who furnished the information requested. Only through their cooperation was it possible to collect and publish the data in this report.

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# 1987

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GEOGRAPHIC AREA SERIES

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**Minnesota**  
State and County Data

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Issued June 1989



**U.S. Department of Commerce**  
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**BUREAU OF THE CENSUS**

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# INTRODUCTION

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## HISTORY

The 1987 Census of Agriculture is the 23d 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 of population. From 1840 to 1950, an agriculture census was taken as part of the decennial census. A separate 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 so that it coincided with the economic censuses covering manufacturing, mining, construction, retail trade, wholesale trade, service industries, and selected transportation activities. This adjustment in timing established the agriculture census on a 5-year cycle collecting data for years ending in 2 and 7.

## USES OF THE CENSUS

The census of agriculture is the leading source of statistics about the Nation's agricultural production and the only source of consistent, comparable data at the county, State, and national levels. Census statistics are used by Congress in developing and changing farm programs and for determining the effects of these programs. Many national and State programs are designed or allocated on the basis of census data, such as funds for extension services, research, and soil conservation projects. Private industry uses census statistics to provide a more effective production and distribution system for the agricultural community.

## AUTHORITY AND AREA COVERED

The census of agriculture is required by law under Title 13, United States Code, sections 142(a) and 191, which directs that a census be taken in 1979, 1983, and in every

fifth year after 1983 covering the prior year. The 1987 census includes each State, Puerto Rico, Guam, and the Virgin Island of the United States. A census of agriculture will be conducted in American Samoa and the Commonwealth of the Northern Mariana Islands in conjunction with the 1990 Census of Population and Housing.

## FARM DEFINITION

Since 1850, when minimum criteria defining a farm for census purposes first were established, the farm definition has been changed nine times. The current definition, first used for the 1974 census, is any place from which \$1,000 or more of agricultural products were produced and sold or normally would have been sold during the census year. The farm definition used for the outlying areas varies according to area. The report for each area includes a discussion of the farm definition.

## COMPARABILITY OF DATA

Data on acreages and inventories for 1987 and 1982 are generally comparable. Dollar figures shown for expenses and agricultural product sales are expressed in current dollars and have not been adjusted for inflation or deflation. In general, data for censuses since 1974 are not fully comparable with data for 1969 and earlier censuses due to changes in the farm definition.

The 1978 U.S., region, and State data shown in the 1978 Census of Agriculture publications included data for farms on the mail list plus estimates from an area sample for farms not on the mail list. For comparability, the 1978 data in the 1987 publications include only farms on the mail list.

## TABULAR PRESENTATION

**State data**—Tables 1 through 47 in chapter 1 show detailed State-level data usually accompanied by historical data for one or more past censuses. Tables 48 through 53 provide 1987 State data cross-tabulated by various farm classifications.

**County data**—Chapter 2 presents selected data items by county. Tables 1 through 16 include general data for all counties. The counties are listed in alphabetical order in the column headings. Tables 17 through 36 include only



counties reporting the data item. Counties not having the item, or with a limited number of farms reporting the item, have data combined and presented as "all other counties."

## ADVANCE REPORTS

Advance reports of 1987 census data have been published separately for each county with 10 farms or more, each State, and the United States. This series provided, at the earliest possible date, final data on major data items together with comparable final data from the 1982 census. Data items are standard across States except information on selected crops harvested, which vary by State according to their relative importance in the State.

## ELECTRONIC DATA DISSEMINATION

The volume 1 data are available on computer tapes and compact disc. The advance report data are available on computer tapes, computer diskettes, and through electronic data services such as the AGRIDATA network, the CENDATA package on Dialog, CompuServe on-line services, and the Census Bureau's State Data Center Bulletin Board. Computer tapes, diskettes, and compact discs are sold by the Customer Services Branch, Data User Services Division, Bureau of the Census, Washington, D.C. 20233 (telephone (301) 763-4100).

## SPECIAL TABULATIONS

Custom designed tabulations can be developed to individual user specifications on a programming cost reimbursable basis. Inquiries about special tabulations should be directed to the Chief, Agriculture Division, Bureau of the Census, Washington, D.C. 20233.

## CENSUS DISCLOSURE RULES

In keeping with the provisions of Title 13, United States Code, no data are published that would disclose the operations of an individual farm. However, the number of

farms in a given size category or other classification, such as size of farm, is not considered a release of confidential information and is provided even though other information is withheld.

## INVENTORIES, PRODUCTION, AND SALES DATA

Inventories of livestock, poultry, and machinery and equipment are measured as of December 31 of the census year. Crop and livestock production, sales, and expense data are for the calendar year, except for a few crops (such as citrus) for which the production year overlaps the calendar year.

## ABBREVIATIONS AND SYMBOLS

The following abbreviations and symbols are used throughout the tables:

-	Represents zero.
(D)	Withheld to avoid disclosing data for individual farms.
(IC)	Independent city.
(NA)	Not available.
(S)	Withheld because estimate did not meet publication standards on the basis of either the response rate (associated relative standard error) or a consistency review.
(X)	Not applicable.
(Z)	Less than half of the unit shown.
cwt	Hundredweight.
sq ft	Square feet.

# Highlights of the State's Agriculture: 1987 and 1982

[Dollar figures are in current dollars with no adjustment for price changes. For meaning of abbreviations and symbols, see introductory text]

Item	All farms		
	1987	1982	Percent change from 1982 to 1987
Farms.....number.....	85 079	94 382	-9.9
Land in farms.....acres.....	26 573 819	27 708 456	-4.1
Average size of farm.....acres.....	312	294	6.1
Value of land and buildings <sup>1</sup> :			
Average per farm.....dollars.....	218 808	342 593	-36.1
Average per acre.....dollars.....	700	1 165	-39.9
Farms by size:			
1 to 9 acres.....	4 613	4 547	1.5
10 to 49 acres.....	9 481	10 461	-9.4
50 to 179 acres.....	24 947	29 258	-14.7
180 to 499 acres.....	30 963	35 897	-13.7
500 to 999 acres.....	10 814	10 602	2.0
1,000 to 1,999 acres.....	3 619	2 935	23.3
2,000 acres or more.....	642	682	-5.9
Harvested cropland.....farms.....	76 537	85 948	-10.9
.....acres.....	16 635 264	19 722 645	-15.7
Irrigated land.....farms.....	2 425	2 172	11.6
.....acres.....	353 504	315 376	12.1
Market value of agricultural products sold.....\$1,000.....	5 676 376	5 939 629	-4.4
Average per farm.....dollars.....	66 719	62 932	6.0
Crops, including nursery and greenhouse crops.....\$1,000.....	2 500 827	2 671 482	-6.4
Grains.....\$1,000.....	2 033 704	2 334 836	-12.9
Cotton and cottonseed.....\$1,000.....	-	-	(D)
Tobacco.....\$1,000.....	25	(D)	(D)
Hay, silage, and field seeds.....\$1,000.....	81 039	68 937	17.6
Vegetables, sweet corn, and melons.....\$1,000.....	62 934	50 426	24.8
Fruits, nuts, and berries.....\$1,000.....	6 460	(D)	(D)
Nursery and greenhouse crops.....\$1,000.....	57 966	45 853	26.4
Other crops.....\$1,000.....	258 700	165 888	55.9
Livestock, poultry, and their products.....\$1,000.....	3 175 549	3 268 146	-2.8
Poultry and poultry products.....\$1,000.....	489 459	391 005	25.2
Dairy products.....\$1,000.....	1 059 526	1 180 493	-10.2
Cattle and calves.....\$1,000.....	749 374	847 157	-11.5
Hogs and pigs.....\$1,000.....	811 788	800 688	1.4
Sheep, lambs, and wool.....\$1,000.....	20 544	15 231	34.9
Other livestock and livestock products (see text).....\$1,000.....	44 858	33 572	33.6
Farms by type of organization:			
Individual or family (sole proprietorship).....	75 105	83 010	-9.5
Partnership.....	7 952	9 530	-16.6
Corporation.....	1 755	1 582	10.9
Other—cooperative, estate or trust, institutional, etc. ....	267	260	2.7
Operators by principal occupation:			
Farming.....	58 519	67 742	-13.6
Other.....	26 560	26 640	-3
Operators by days worked off farm:			
Any.....	39 567	40 289	-1.8
200 days or more.....	22 006	21 334	3.1
Average age of operator.....years.....	48.5	47.2	2.8
Total farm production expenses <sup>1</sup> .....\$1,000.....	4 427 445	(NA)	(NA)
Selected farm production expenses <sup>1</sup> :			
Livestock and poultry purchased.....\$1,000.....	541 852	557 597	-2.8
Feed for livestock and poultry.....\$1,000.....	747 728	711 701	5.1
Commercial fertilizer <sup>2</sup> .....\$1,000.....	328 661	374 854	-12.3
Agricultural chemicals <sup>2</sup> .....\$1,000.....	218 630	224 044	-2.4
Petroleum products.....\$1,000.....	249 831	424 167	-41.1
Hired farm labor.....\$1,000.....	244 055	207 615	17.6
Interest expense <sup>3</sup> .....\$1,000.....	446 200	712 786	-37.4
Livestock and poultry inventory:			
Cattle and calves.....farms.....	40 222	51 589	-22.0
.....number.....	2 700 095	3 377 956	-20.1
Milk cows.....farms.....	17 454	24 178	-27.8
.....number.....	709 832	839 302	-15.4
Hogs and pigs.....farms.....	16 042	20 813	-22.9
.....number.....	4 236 500	4 473 181	-5.3
Chickens 3 months old or older.....farms.....	4 003	6 468	-38.1
.....number.....	12 124 965	12 928 376	-6.2
Selected crops harvested:			
Corn for grain or seed.....farms.....	51 355	57 612	-10.9
.....acres.....	4 756 348	5 904 579	-19.4
Wheat for grain.....farms.....	20 238	21 070	-3.9
.....acres.....	2 444 294	2 972 376	-17.8
Barley for grain.....farms.....	8 412	7 037	19.5
.....acres.....	807 374	827 093	-2.4
Oats for grain.....farms.....	25 984	38 907	-33.2
.....acres.....	730 864	1 290 191	-43.4
Sunflower seed.....farms.....	683	2 747	-75.1
.....acres.....	82 278	467 408	-82.4
Soybeans for beans.....farms.....	36 348	38 867	-6.5
.....acres.....	4 384 981	4 501 543	-2.6
Hay—alfalfa, other tame, small grain, wild, grass silage, green chop, etc. (see text).....farms.....	46 531	53 227	-12.6
.....acres.....	2 418 800	2 504 795	-3.4

<sup>1</sup>Data are based on a sample of farms.

<sup>2</sup>Data for 1987 include cost of custom applications.

<sup>3</sup>Data for 1982 do not include imputation for item nonresponse.