

1982 Census of Agriculture

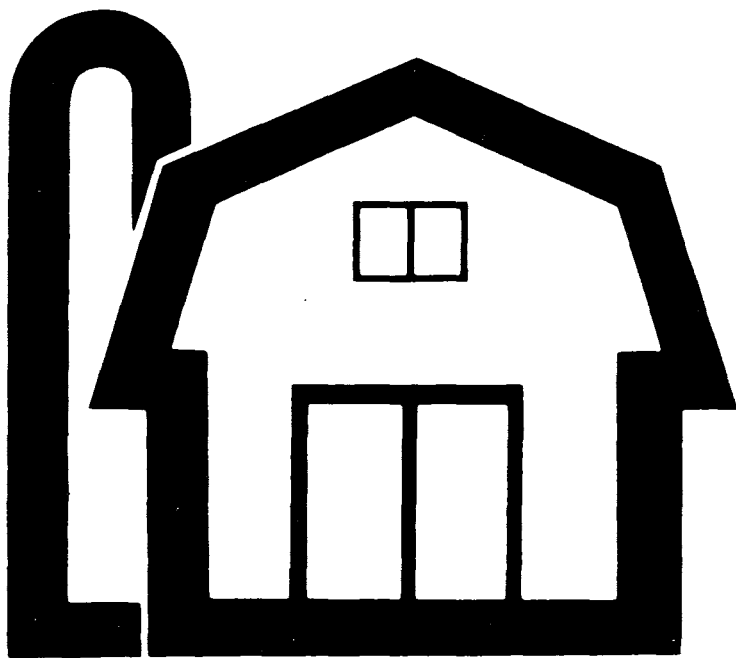
AC82-A-22

Volume 1
GEOGRAPHIC AREA SERIES

Part 22

Michigan

State and County Data



The publications
from the 1982 Economic and
Agriculture Censuses are dedicated
to the memory of Shirley Kallek,
Associate Director for Economic Fields.
During her career at the Bureau of the
Census (1955 to 1983), she continually
directed efforts to improve
the timeliness and accuracy of
economic statistics.

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Issued April 1984



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Malcolm Baldrige, Secretary
Clarence J. Brown, Deputy Secretary
Sidney Jones, Under Secretary for
Economic Affairs

BUREAU OF THE CENSUS
John G. Keane,
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ACKNOWLEDGMENTS—Many persons participated in conducting the 1982 Census of Agriculture. Primary direction was by **Shirley Kallek**, Associate Director for Economic Fields (to May 1983), **Charles A. Waite**, her successor, and **Michael G. Farrell**, Assistant Director for Economic and Agriculture Censuses.

This report was prepared in the Agriculture Division under the general supervision of **Orvin L. Wilhite**, Chief (to January 1980); **Arnold L. Bollenbacher**, Chief (to June 1982); and **John H. Berry**, Chief (from July 1982).

Many divisions contributed to this report. Data Preparation performed the clerical processing; Administrative Services provided the forms design and other administrative services; Publications Services contributed in publication planning and design, editorial review, composition, and printing procurement; Computer Services provided the computer processing facilities; Field provided selected data collection activities; and Economic Surveys assisted in preparation of data collection and processing procedures and computer programs.

Members of the Census Advisory Committee on Agriculture Statistics and representatives of both public and private organizations made significant recommendations which helped establish data content.

Members of various agencies of the U.S. Department of Agriculture provided valuable advice in the planning, publicizing, and processing phases of the census, and in helping farmers and ranchers complete the report forms.

The press, farm magazines, radio and television stations, and farm organizations were most helpful in publicizing the census and encouraging cooperation of farm and ranch operators.

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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*Not applicable.

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HISTORY

The census of agriculture provides a periodic statistical picture of the Nation's farming, ranching, and related activities. The 1982 Census of Agriculture is the 22d 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 to coincide with the 1982 Economic Censuses covering manufacturing, mining, construction, retail trade, wholesale trade, service industries, and selected transportation activities. After 1982, the agriculture census will revert to a 5-year cycle and be taken covering years ending in 2 and 7.

USES OF THE CENSUS

The census of agriculture is the leading source of statistics about the Nation's agriculture and the only source of consistent, comparable data about agriculture 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 affecting agriculture 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 farm 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 the census be taken in 1979, in 1983, and in every fifth year after 1983 covering the prior year. The 1982 census includes each State, Puerto Rico, Guam, and the Virgin Islands of the United States.

FARM DEFINITION

Since 1850, when minimum criteria defining a farm for census purposes were first established, the farm definition has been changed nine times. The current definition, first used for the 1974 final reports, is any place from which \$1,000 or more of agricultural 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 reports) was 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.

COMPARABILITY OF DATA

All censuses since 1969 were conducted primarily by mail. To improve the coverage of the 1978 census, especially in counting the number of small farms, the mailout/mailback enumeration was supplemented by the direct enumeration of all households in approximately 6,400 sample segments in rural areas in all States, except Alaska and Hawaii. Due to budget reductions, the direct enumeration area sample was eliminated for 1982.

The U.S. region, and State data for 1978 shown in the 1978 Census of Agriculture publications included data for farms represented on the mail list plus estimates from the area sample for farms not on the mail list. The 1978 county data included only farms represented on the mail list as the sample was not large enough to provide reliable estimates for each county.

To provide comparable data for 1982 and 1978, estimates from the 1978 area sample have been subtracted from the 1978 data. Thus, the 1978 data in this report include only farms represented on the mail list. Appendix B includes a detailed discussion of the effect of the area sample on census comparability.

In general, data for 1982, 1978, and 1974 are not fully comparable with data for 1969 and earlier censuses due to changes in the farm definition. Data on acreages and inventories for 1982 and 1978 are generally comparable. Dollar figures shown for expenses and agricultural product sales have not been adjusted for changes in price levels between census years.

TABULAR PRESENTATION

State data—In chapter 1, State tables 1 through 43 show detailed State level data usually accompanied by historical data for one or more past censuses. Tables 44 through 50 provide 1982 State data cross-tabulated by various farm classifications.

County data—Selected data items are presented by county in chapter 2. Tables 1 through 16 include general data for all counties. The counties are listed in alphabetical order in the

column headings. In tables 17 through 36, only counties reporting the data item are included in the table stub. Counties not having the item, or with a limited number of farms reporting the item, are not listed separately. Data for these counties are combined and presented as "all other counties."

PRELIMINARY REPORTS

Preliminary reports have been published separately for each county with 10 farms or more in 1982, each State, and the United States. This series provided, at the earliest possible date, information on major data items together with comparable final data from the 1978 census. The data items were standard except in tables 4 and 5 where the selected crops varied by State according to their relative importance.

For farms, land in farms, livestock inventories, and other major items at the county level, differences between the preliminary and final figures are generally less than 5 percent. At the State level, differences are significantly less.

MICROFICHE AND COMPUTER TAPES

The data in this report and final data for individual counties are available on microfiche. The final microfiche county tables have the same format as the county preliminary report. Also, computer tapes are available for the same summary statistics that are found in the preliminary and volume 1 reports. Microfiche reports are sold by the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. Computer tapes are sold by the Customer Services Branch, Data User Services Division, Bureau of the Census, Washington, D.C. 20233.

UNPUBLISHED DATA

Copies of computer printouts of the following unpublished county summary tables are available:

- Land in Farms With Cropland Harvested and Land in Farms and Cropland Harvested on Irrigated Farms, by Size of Farm: 1982
- Owned and Rented Land—Farms, Land in Farms, and Value of Land and Buildings: 1982
- Farms With Grazing Permits: 1982

Other special unpublished tables and summaries on computer tape can be developed to individual user specifications.

Inquiries about the availability and cost of unpublished 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 is not considered a disclosure, so this information may be given even though other information is withheld.

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.

INVENTORIES, PRODUCTION, AND SALES DATA

Inventories of livestock, poultry, and machinery and equipment are 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. |
| (X) | Not applicable. |
| (Z) | Less than half of the unit shown. |
| (NA) | Not available. |
| (IC) | Independent city. |
| cwt. | Hundredweight. |
| sq. ft. | Square feet. |

MICHIGAN



U. S. DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS

Highlights of the State's Agriculture: 1982 and 1978

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

Item	All farms			Farms with sales of \$10,000 or more		
	1982	1978	Percent change from 1978 to 1982	1982	1978	Percent change from 1978 to 1982
Farms.....number.....	58 661	60 426	-2.9	28 432	27 341	4.0
Land in farms.....acres.....	10 942 172	11 038 419	-9	8 714 677	8 192 175	6.4
Average size of farm.....acres.....	187	183	2.2	307	300	2.3
Value of land and buildings ¹ :						
Average per farm.....dollars.....	228 238	175 171	30.3	378 401	292 994	29.1
Average per acre.....dollars.....	1 223	960	27.4	1 230	983	25.1
Farms by size:						
1 to 9 acres.....	2 714	1 972	37.6	547	461	18.7
10 to 49 acres.....	14 300	12 627	13.2	1 712	1 427	20.0
50 to 179 acres.....	23 336	26 479	-11.9	10 071	9 118	10.5
180 to 499 acres.....	13 539	15 035	-10.0	11 474	12 199	-5.9
500 to 999 acres.....	3 672	3 451	6.4	3 546	3 292	7.7
1,000 to 1,999 acres.....	924	747	23.7	908	733	23.9
2,000 acres or more.....	176	115	53.0	174	111	56.8
Harvested cropland.....farms.....	53 738	57 294	-6.2	27 631	26 706	3.5
acres.....	7 255 909	6 774 229	7.1	6 427 512	5 644 737	13.9
Irrigated land.....farms.....	3 179	3 157	.7	2 455	2 406	2.0
acres.....	285 983	225 928	26.6	281 338	220 105	27.8
Market value of agricultural products sold.....\$1,000.....	2 588 317	1 914 314	35.2	2 480 450	1 793 037	38.3
Crops, including nursery and greenhouse products.....farms.....	44 046	47 613	-7.5	24 375	23 091	5.6
Livestock, poultry, and their products.....farms.....	1 364 665	997 743	36.8	1 295 967	915 860	41.5
.....\$1,000.....	30 755	30 955	-.6	16 228	16 143	.5
.....\$1,000.....	1 223 652	916 571	33.5	1 184 484	877 177	35.0
Farms by standard industrial classification:						
Cash grains (011).....	22 117	22 180	-.3	11 715	9 767	19.9
Field crops, except cash grains (013).....	4 324	6 051	-28.5	1 151	1 180	-2.5
Vegetables and melons (016).....	1 911	1 934	-1.2	958	970	-1.2
Fruits and tree nuts (017).....	3 586	3 950	-9.2	1 856	2 099	-11.6
Horticultural specialties (018).....	1 105	1 169	-5.5	684	665	2.9
General farms, primarily crop (019).....	2 215	2 337	-5.2	674	713	-5.5
Livestock, except dairy, poultry, and animal specialties (021).....	13 177	13 026	1.2	4 110	4 346	-5.4
Dairy farms (024).....	6 575	6 913	-4.9	6 284	6 494	-3.2
Poultry and eggs (025).....	594	594	-	280	363	-22.9
Animal specialties (027).....	2 327	1 459	59.5	339	255	32.9
General farms, primarily livestock (029).....	730	813	-10.2	381	489	-22.1
Farms by type of organization:						
Individual or family.....	52 022	53 931	-3.5	23 563	22 886	3.0
Partnership.....	5 495	5 635	-2.5	3 983	3 792	5.0
Corporation.....	947	699	35.5	819	615	33.2
Other—cooperative, estate or trust, institutional, etc.....	197	161	22.4	67	48	39.6
Tenure of operator:						
Full owners.....	35 489	37 025	-4.1	11 938	11 317	5.5
Part owners.....	19 523	19 570	-.2	14 490	14 112	2.7
Tenants.....	3 649	3 831	-4.8	2 004	1 912	4.8
Operators by principal occupation:						
Farming.....	30 107	29 296	2.8	21 328	20 197	5.6
Other.....	28 554	31 130	-8.3	7 104	7 144	-.6
Selected farm production expenses ¹ :						
Feed for livestock and poultry.....\$1,000.....	254 964	179 958	41.7	241 267	169 003	42.8
Commercial fertilizer.....\$1,000.....	242 091	173 192	39.8	228 331	154 878	47.4
Other agricultural chemicals ²\$1,000.....	114 159	67 558	69.0	108 087	61 268	76.4
Energy and petroleum products.....\$1,000.....	228 553	128 428	78.0	207 035	109 730	88.7
Hired farm labor.....\$1,000.....	186 312	136 868	36.1	179 495	130 610	37.4
Livestock and poultry inventory:						
Cattle and calves.....farms.....	25 657	25 293	1.4	13 284	13 022	2.0
.....number.....	1 345 793	1 248 623	7.8	1 167 528	1 072 443	8.9
Milk cows.....farms.....	9 142	9 867	-7.3	7 431	7 742	-4.0
.....number.....	398 211	377 999	5.3	391 050	367 968	6.3
Hogs and pigs.....farms.....	7 433	8 572	-13.3	4 169	4 347	-4.1
.....number.....	1 064 073	931 240	14.3	1 007 780	837 591	20.3
Chickens 3 months old or older.....farms.....	5 788	6 146	-5.8	1 764	1 964	-10.2
.....number.....	7 572 108	7 011 188	8.0	7 415 006	6 824 328	8.7
Crops harvested:						
Corn for grain or seed.....farms.....	30 792	33 676	-8.6	20 242	19 609	3.2
.....acres.....	2 568 541	2 337 985	9.9	2 386 819	2 052 150	16.3
Wheat for grain.....farms.....	15 416	13 966	10.4	11 150	8 975	24.2
.....acres.....	513 445	370 398	38.6	453 529	303 907	49.2
Soybeans for beans.....farms.....	14 905	13 914	7.1	9 972	8 250	20.9
.....acres.....	1 122 617	888 449	26.4	1 001 445	739 034	35.5
Dry edible beans, excluding dry limas.....farms.....	5 841	5 218	11.9	4 750	3 909	21.5
.....acres.....	502 275	441 925	13.7	478 959	406 930	17.7
Hay—alfalfa, other tame, small grain, wild, grass silage, green chop, etc. (see text).....farms.....	28 522	32 863	-13.2	14 091	14 988	-6.0
.....acres.....	1 365 495	1 561 452	-12.5	1 037 167	1 107 464	-6.3
Vegetables harvested for sale (see text).....farms.....	3 634	3 793	-4.2	2 102	2 173	-3.3
.....acres.....	126 248	119 287	5.8	118 910	110 383	7.7
Land in orchards.....farms.....	4 280	4 722	-9.4	2 093	2 407	-13.0
.....acres.....	165 238	169 413	-2.5	148 000	152 063	-2.7

¹Data are based on a sample of farms.

²Data for 1978 include the cost of lime which was not collected in 1982.