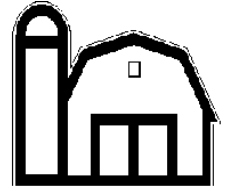


# 1992

## Census of Agriculture

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AC92-A-22

Volume 1  
GEOGRAPHIC AREA SERIES

Part 22

# Michigan

## State and County Data



U.S. Department of Commerce  
Economics and Statistics Administration  
BUREAU OF THE CENSUS

## Acknowledgments

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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.

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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.

If you have any questions concerning the statistics in this report, call:

301-763-8555 Division Chief

800-523-3215 General Information

301-763-8567 Crops Branch

301-763-8569 Livestock Branch

301-763-8514 Farm Economics Branch

301-763-8571 Statistical Methodology



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# Michigan

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**U.S. Department of Commerce**  
**Ronald H. Brown, Secretary**

**Economics and Statistics Administration**  
**Paul A. London, Acting Under Secretary**  
for Economic Affairs

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**Harry A. Scarr, Acting Director**



**Economics and Statistics  
Administration**  
**Paul A. London**, Acting Under  
Secretary for Economic Affairs



**BUREAU OF THE CENSUS**  
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**Charles A. Waite**, Associate Director for  
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Economic Programs

**ECONOMIC CENSUS AND SURVEYS DIVISION**  
**Thomas L. Mesenbourg**, Acting Chief

**AGRICULTURE DIVISION**  
**Charles P. Pautler, Jr.**, Acting Chief

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# Introduction

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## HISTORY

The 1992 Census of Agriculture is the 24th 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 1992 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 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 its farm definition.

## COMPARABILITY OF DATA

Data on acreages and inventories for 1992 and 1987 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.

## TABULAR PRESENTATION

**State data.** Tables 1 through 45 in chapter 1 show detailed State-level data usually accompanied by historical data for one or more past censuses. Tables 46 through 52 provide 1992 State data cross-tabulated by various farm classifications.

**County data.** Chapter 2 presents selected data items by county. Tables 1 through 17 include general data for all counties. The counties are listed in alphabetical order in the column headings. Tables 18 through 39 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."

## 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, DC 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 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.
(H)	Standard error or relative standard error of estimate is greater than or equal to 99.95 percent.
(IC)	Independent city.
(L)	Standard error or relative standard error of estimate is less than .05 percent.
(NA)	Not available.
(S)	Withheld because estimate did not meet publication standards on the basis of either the response rate or a consistency review.
(X)	Not applicable.
(Z)	Less than half of the unit shown.
cwt	Hundredweight.
sq ft	Square feet.

# A. Highlights of the State's Agriculture: 1992 and 1987

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

Item	All farms		
	1992	1987	Percent change from 1987 to 1992
Farms ----- number .....	46 562	51 172	-9.0
Land in farms ----- acres .....	10 088 170	10 316 861	-2.2
Average size of farm ----- acres .....	217	202	7.4
Estimated market value of land and buildings <sup>1</sup> :			
Average per farm ----- dollars .....	247 370	196 065	26.2
Average per acre ----- dollars .....	1 131	971	16.5
Estimated market value of all machinery and equipment <sup>1</sup> :			
Average per farm ----- dollars .....	55 028	45 954	19.7
Farms by size:			
1 to 9 acres -----	2 562	2 866	-10.6
10 to 49 acres -----	11 148	12 174	-8.4
50 to 179 acres -----	17 449	19 779	-11.8
180 to 499 acres -----	10 289	11 329	-9.2
500 to 999 acres -----	3 576	3 667	-2.5
1,000 to 1,999 acres -----	1 234	1 134	8.8
2,000 acres or more -----	304	223	36.3
Total cropland ----- farms .....	44 320	48 653	-8.9
Harvested cropland ----- acres .....	8 156 388	8 181 320	-3
Irrigated land ----- farms .....	41 334	46 017	-10.2
----- acres .....	6 584 251	6 172 468	6.7
Irrigated land ----- farms .....	3 823	3 755	1.8
----- acres .....	366 465	314 953	16.4
Market value of agricultural products sold ----- \$1,000 .....	3 028 547	2 545 078	19.0
Average per farm ----- dollars .....	65 043	49 736	30.8
Crops, including nursery and greenhouse crops ----- \$1,000 .....	1 671 563	1 272 802	31.3
Livestock, poultry, and their products ----- \$1,000 .....	1 356 984	1 272 276	6.7
Farms by value of sales:			
Less than \$2,500 -----	10 923	12 670	-13.8
\$2,500 to \$4,999 -----	5 579	6 774	-17.6
\$5,000 to \$9,999 -----	6 387	7 548	-15.4
\$10,000 to \$24,999 -----	7 752	8 460	-8.4
\$25,000 to \$49,999 -----	4 683	5 002	-6.4
\$50,000 to \$99,999 -----	4 163	4 322	-3.7
\$100,000 to \$249,999 -----	4 363	4 339	.6
\$250,000 to \$499,999 -----	1 793	1 469	22.1
\$500,000 or more -----	919	588	56.3
Total farm production expenses <sup>1</sup> ----- \$1,000 .....	2 583 189	2 211 823	16.8
Average per farm ----- dollars .....	55 483	43 221	28.4
Net cash return from agricultural sales for the farm unit (see text) <sup>1</sup> ----- farms .....	46 558	51 175	-9.0
----- \$1,000 .....	431 005	319 953	34.7
Average per farm ----- dollars .....	9 257	6 252	48.1
Operators by principal occupation:			
Farming -----	24 396	26 112	-6.6
Other -----	22 166	25 060	-11.5
Operators by days worked off farm:			
Any -----	25 462	29 155	-12.7
200 days or more -----	17 984	20 818	-13.6
Livestock and poultry:			
Cattle and calves inventory ----- farms .....	17 031	19 436	-12.4
----- number .....	1 113 604	1 163 352	-4.3
Beef cows ----- farms .....	7 548	8 163	-7.5
----- number .....	116 106	110 156	5.4
Milk cows ----- farms .....	5 198	6 499	-20.0
----- number .....	316 954	344 550	-8.0
Cattle and calves sold ----- farms .....	15 780	18 164	-13.1
----- number .....	594 685	653 806	-9.0
Hogs and pigs inventory ----- farms .....	4 774	5 577	-14.4
----- number .....	1 231 641	1 227 069	.4
Hogs and pigs sold ----- farms .....	4 770	5 603	-14.9
----- number .....	2 300 151	2 215 872	3.8
Sheep and lambs inventory ----- farms .....	1 831	2 057	-11.0
----- number .....	97 433	101 330	-3.8
Chickens 3 months old or older inventory ----- farms .....	2 454	3 550	-30.9
----- number .....	5 388 894	8 428 623	-36.1
Broilers and other meat-type chickens sold ----- farms .....	386	495	-22.0
----- number .....	400 262	702 431	-43.0
Selected crops harvested:			
Corn for grain or seed ----- farms .....	18 962	25 140	-24.6
----- acres .....	2 221 271	1 982 401	12.0
Wheat for grain ----- bushels .....	226 824 263	189 779 819	19.5
----- farms .....	12 433	10 327	20.4
----- acres .....	583 245	356 073	63.8
Soybeans for beans ----- bushels .....	29 350 586	16 465 394	78.3
----- farms .....	13 175	12 734	3.5
----- acres .....	1 332 114	1 023 599	30.1
Dry edible beans, excluding dry limas ----- bushels .....	41 633 625	36 267 622	14.8
----- farms .....	3 176	4 098	-22.5
----- acres .....	322 334	383 687	-16.0
----- cwt .....	4 229 224	4 931 689	-14.2
Hay—alfalfa, other tame, small grain, wild, grass silage, green chop, etc. (see text) ----- farms .....	22 285	25 983	-14.2
----- acres .....	1 283 598	1 436 630	-10.7
----- tons, dry .....	2 821 347	3 323 175	-15.1
Vegetables harvested for sale (see text) ----- farms .....	3 007	3 267	-8.0
----- acres .....	138 851	139 145	-.2
Land in orchards ----- farms .....	3 531	3 791	-6.9
----- acres .....	162 183	161 567	.4

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

## B. Highlights of the State's Agriculture: 1992 and 1987 (Metric Measurement)

[1 acre = 0.4047 hectare. For further metric conversions, see metric conversion table in appendix E. Dollar figures are in current dollars with no adjustment for price changes. For meaning of abbreviations and symbols, see introductory text]

Item	All farms		
	1992	1987	Percent change from 1987 to 1992
Farms ----- number .....	46 562	51 172	-9.0
Land in farms ----- hectares .....	4 082 682	4 175 234	-2.2
Average size of farm ----- hectares .....	88	82	7.3
Estimated market value of land and buildings <sup>1</sup> :			
Average per farm ----- dollars .....	247 370	196 065	26.2
Average per hectare ----- dollars .....	1 131	971	16.5
Estimated market value of all machinery and equipment <sup>1</sup> :			
Average per farm ----- dollars .....	55 028	45 954	19.7
Farms by size:			
.01 to 3.84 hectares ----- .....	2 562	2 866	-10.6
3.85 to 20.04 hectares ----- .....	11 148	12 174	-8.4
20.05 to 72.67 hectares ----- .....	17 449	19 779	-11.8
72.68 to 202.22 hectares ----- .....	10 289	11 329	-9.2
202.23 to 404.65 hectares ----- .....	3 576	3 667	-2.5
404.66 to 809.51 hectares ----- .....	1 234	1 134	8.8
809.52 hectares or more ----- .....	304	223	36.3
Total cropland ----- farms .....	44 320	48 653	-8.9
----- hectares .....	3 300 890	3 310 980	-3
Harvested cropland ----- farms .....	41 334	46 017	-10.2
----- hectares .....	2 664 646	2 497 998	6.7
Irrigated land ----- farms .....	3 823	3 755	1.8
----- hectares .....	148 308	127 461	16.4
Market value of agricultural products sold ----- \$1,000 .....	3 028 547	2 545 078	19.0
Average per farm ----- dollars .....	65 043	49 736	30.8
Crops, including nursery and greenhouse crops ----- \$1,000 .....	1 671 563	1 272 802	31.3
Livestock, poultry, and their products ----- \$1,000 .....	1 356 984	1 272 276	6.7
Farms by value of sales:			
Less than \$2,500 ----- .....	10 923	12 670	-13.8
\$2,500 to \$4,999 ----- .....	5 579	6 774	-17.6
\$5,000 to \$9,999 ----- .....	6 387	7 548	-15.4
\$10,000 to \$24,999 ----- .....	7 752	8 460	-8.4
\$25,000 to \$49,999 ----- .....	4 683	5 002	-6.4
\$50,000 to \$99,999 ----- .....	4 163	4 322	-3.7
\$100,000 to \$249,999 ----- .....	4 363	4 339	.6
\$250,000 to \$499,999 ----- .....	1 793	1 469	22.1
\$500,000 or more ----- .....	919	588	56.3
Total farm production expenses <sup>1</sup> ----- \$1,000 .....	2 583 189	2 211 823	16.8
Average per farm ----- dollars .....	55 483	43 221	28.4
Net cash return from agricultural sales for the farm unit (see text) <sup>1</sup> ----- farms .....	46 558	51 175	-9.0
----- \$1,000 .....	431 005	319 953	34.7
Average per farm ----- dollars .....	9 257	6 252	48.1
Operators by principal occupation:			
Farming ----- .....	24 396	26 112	-6.6
Other ----- .....	22 166	25 060	-11.5
Operators by days worked off farm:			
Any ----- .....	25 462	29 155	-12.7
200 days or more ----- .....	17 984	20 818	-13.6
Livestock and poultry:			
Cattle and calves inventory ----- farms .....	17 031	19 436	-12.4
----- number .....	1 113 604	1 163 352	-4.3
Beef cows ----- farms .....	7 548	8 163	-7.5
----- number .....	116 106	110 156	5.4
Milk cows ----- farms .....	5 198	6 499	-20.0
----- number .....	316 954	344 550	-8.0
Cattle and calves sold ----- farms .....	15 780	18 164	-13.1
----- number .....	594 685	653 806	-9.0
Hogs and pigs inventory ----- farms .....	4 774	5 577	-14.4
----- number .....	1 231 641	1 227 069	.4
Hogs and pigs sold ----- farms .....	4 770	5 603	-14.9
----- number .....	2 300 151	2 215 872	3.8
Sheep and lambs inventory ----- farms .....	1 831	2 057	-11.0
----- number .....	97 433	101 330	-3.8
Chickens 3 months old or older inventory ----- farms .....	2 454	3 550	-30.9
----- number .....	5 388 894	8 428 623	-36.1
Broilers and other meat-type chickens sold ----- farms .....	386	495	-22.0
----- number .....	400 262	702 431	-43.0
Selected crops harvested:			
Corn for grain or seed ----- farms .....	18 962	25 140	-24.6
----- hectares .....	898 948	802 278	12.0
----- metric tons .....	5 761 604	4 820 631	19.5
Wheat for grain ----- farms .....	12 433	10 327	20.4
----- hectares .....	236 039	144 103	63.8
----- metric tons .....	798 792	448 115	78.3
Soybeans for beans ----- farms .....	13 175	12 734	3.5
----- hectares .....	539 107	414 251	30.1
----- metric tons .....	1 133 082	987 043	14.8
Dry edible beans, excluding dry limas ----- farms .....	3 176	4 098	-22.5
----- hectares .....	130 449	155 278	-16.0
----- metric tons .....	191 834	223 698	-14.2
Hay—alfalfa, other tame, small grain, wild, grass silage, green chop, etc. (see text) ----- farms .....	22 285	25 983	-14.2
----- hectares .....	519 472	581 404	-10.7
----- metric tons .....	2 559 484	3 014 734	-15.1
Vegetables harvested for sale (see text) ----- farms .....	3 007	3 267	-8.0
----- hectares .....	56 193	56 312	-.2
Land in orchards ----- farms .....	3 531	3 791	-6.9
----- hectares .....	65 635	65 386	.4

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

## 2 MICHIGAN

## 1992 CENSUS OF AGRICULTURE