

1987

Census of Agriculture

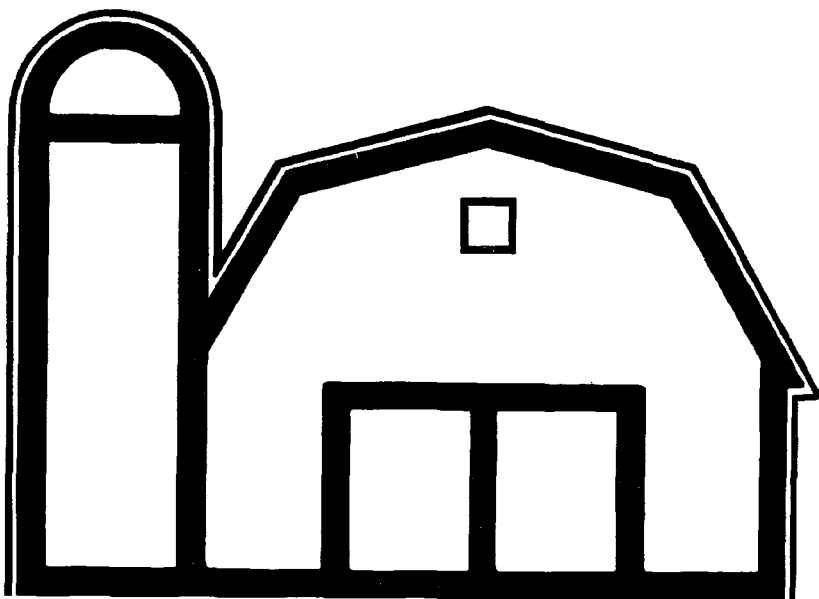
AC87-A-26

Volume 1
GEOGRAPHIC AREA SERIES

Part 26

Montana

State and County Data



U.S. Department of Commerce
BUREAU OF THE CENSUS

ACKNOWLEDGMENTS

This report was prepared in the Agriculture Division. Many other divisions contributed to this preparation: 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; Economic Programming prepared the computer programs; 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.

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

(301) 763-8555 Division Chief

(301) 763-8567 Crops Branch

(301) 763-8569 Livestock Branch

(301) 763-8566 Farm Economics Branch

(301) 763-1113 General Information

(301) 763-8558 Statistical Methodology

1987

Census of Agriculture

AC87-A-26

Volume 1
GEOGRAPHIC AREA SERIES

Part 26
Montana
State and County Data

Issued June 1989



U.S. Department of Commerce
Robert A. Mosbacher, Secretary
Michael R. Darby, Under Secretary
for Economic Affairs

BUREAU OF THE CENSUS



BUREAU OF THE CENSUS
C. L. Kincannon, Deputy Director

Charles A. Waite, Associate Director for
Economic Programs
Roger H. Bugenhagen, Assistant Director for
Economic and Agriculture Censuses

Thomas L. Mesenbourg, Chief,
Economic Census Staff

AGRICULTURE DIVISION
Charles P. Pautler, Jr., Chief

Library of Congress Cataloging-in-Publication Data

Census of agriculture (1987). Geographic area series.
1987 census of agriculture. Geographic area series.

Includes indexes.

Supt. of Docs. no.: C 3.31/4:987/v.1

1. Agriculture—Economic aspects—United States—
Statistics. 2. Agriculture—Economic aspects—United
States—States—Statistics. 3. Agriculture—Economic
aspects—United States—Territories and possessions
—Statistics. I. United States. Bureau of the Census.

II. Title.

HD1769.C46 1987 338.1'0973'021 88-600103

For sale by Superintendent of Documents, U.S. Government
Printing Office, Washington, DC 20402.

CONTENTS

	Page
Introduction	VII
Highlights of the State's Agriculture: 1987 and 1982	1

FIGURES

1. State Map	2
2. Profile of State's Agriculture: 1987	3
3. Percent of Farms and of Value of Products Sold: 1987	4
4. Farms by Value of Agricultural Products Sold: 1959 to 1987	4
5. Land Use: 1987	5
6. Selected Crops Harvested: 1987	5
7. Value of Livestock and Poultry Sold: 1987	6
8. Production Expenses: 1987	6

TABLES

CHAPTER 1. State Data

1. Historical Highlights: 1987 and Earlier Census Years	7
2. Market Value of Agricultural Products Sold: 1987, 1982, and 1978	9
3. Farm Production Expenses: 1987, 1982, and 1978	10
4. Net Cash Return From Agricultural Sales: 1987	12
5. Government Payments and Other Farm-Related Income: 1987 and 1982	13
6. Commodity Credit Corporation Loans: 1987 and 1982	14
7. Land Use and Acres Diverted: 1987, 1982, and 1978	15
8. Land in Farms, Harvested Cropland, and Irrigated Land, by Size of Farm: 1987 and 1982	16
9. Irrigation: 1987, 1982, and 1978	16
10. Selected Characteristics of Irrigated and Nonirrigated Farms: 1987 and 1982	17
11. Value of Land and Buildings: 1987, 1982, and 1978	18
12. Value of Machinery and Equipment on Place: 1987 and 1982	18
13. Selected Machinery and Equipment on Place: 1987 and 1982	18
14. Petroleum Products Expenses: 1987, 1982, and 1978	19
15. Agricultural Chemicals Used, Including Fertilizer and Lime: 1987, 1982, and 1978	19
16. Tenure and Characteristics of Operator and Type of Organization for All Farms and Farms Operated by Black and Other Races: 1987, 1982, and 1978	20
17. Selected Characteristics of Farms Operated by Females, Persons of Spanish Origin, and Specified Racial Groups: 1987 and 1982	21
18. Selected Characteristics of Farms by Standard Industrial Classification: 1987	23
19. Selected Characteristics of Abnormal Farms: 1987 and 1982	24
20. Livestock and Poultry—Inventory and Sales: 1987, 1982, and 1978	25
21. Poultry—Inventory and Sales: 1987 and 1982	25
22. Broilers and Started Pullets—Sales: 1987 and 1982	26
23. Poultry—Inventory and Sales by Size of Flock: 1987	26
24. Turkeys—Sales by Number Sold Per Farm: 1987	27
25. Cattle and Calves—Inventory: 1987 and 1982	27
26. Cattle and Calves—Sales: 1987 and 1982	28
27. Cattle and Calves—Inventory and Sales by Size of Herd: 1987	28
28. Cattle and Calves—Inventory and Sales by Size of Cow Herd: 1987	29
29. Cattle and Calves—Inventory and Sales by Size of Beef Cow Herd: 1987	29
30. Cattle and Calves—Inventory and Sales by Size of Milk Cow Herd: 1987	30
31. Cattle and Calves—Sales by Number Sold Per Farm: 1987	30
32. Hogs and Pigs—Inventory: 1987 and 1982	30
33. Hogs and Pigs—Sales: 1987 and 1982	31

	Page
34. Hogs and Pigs—Litters Farrowed: 1987 and 1982	31
35. Hogs and Pigs—Inventory and Sales by Size of Herd: 1987	31
36. Hogs and Pigs—Inventory and Sales by Number Sold Per Farm: 1987	32
37. Hogs and Pigs—Inventory, Sales, and Litters by Total Farrowed: 1987	32
38. Sheep and Lambs—Inventory and Sales: 1987 and 1982	32
39. Sheep and Lambs—Inventory and Sales by Size of Flock: 1987	33
40. Sheep and Lambs—Inventory and Sales by Size of Ewe Flock: 1987	33
41. Other Livestock and Livestock Products—Inventory and Sales: 1987 and 1982	34
42. Crops Harvested and Value of Production: 1987 and 1982	35
43. Specified Crops Harvested—Yield Per Acre Irrigated and Nonirrigated: 1987	35
44. Specified Crops by Acres Harvested: 1987 and 1982	36
45. Specified Fruits and Nuts by Acres: 1987 and 1982	*
46. Nursery and Greenhouse Crops, Mushrooms, and Sod Grown for Sale by Value of Sales: 1987 and 1982	37
47. Farms by Concentration of Market Value of Agricultural Products Sold: 1987	38
48. Summary by Tenure of Operator: 1987	40
49. Summary by Type of Organization: 1987	50
50. Summary by Age and Principal Occupation of Operator: 1987	60
51. Summary by Size of Farm: 1987	80
52. Summary by Value of Agricultural Products Sold: 1987	100
53. Summary by Standard Industrial Classification of Farm: 1987	120

CHAPTER 2. County Data

1. County Summary Highlights: 1987	140
2. Market Value of Agricultural Products Sold and Farms by Standard Industrial Classification: 1987 and 1982	148
3. Farm Production Expenses: 1987 and 1982	164
4. Net Cash Return From Agricultural Sales, Government Payments, Other Farm-Related Income, and Commodity Credit Corporation Loans: 1987 and 1982	172
5. Farms, Land in Farms, and Land Use: 1987 and 1982	180
6. Harvested Cropland by Size of Farm and Acres Harvested: 1987 and 1982	196
7. Irrigation: 1987 and 1982	204
8. Machinery and Equipment on Place: 1987 and 1982	212
9. Agricultural Chemicals Used, Including Fertilizer and Lime: 1987 and 1982	220
10. Tenure and Characteristics of Operator and Type of Organization: 1987 and 1982	224
11. Cattle and Calves—Inventory and Sales: 1987 and 1982	240
12. Hogs and Pigs—Inventory, Litters, and Sales: 1987 and 1982	256
13. Sheep and Horses—Inventory and Sales: 1987 and 1982	264
14. Poultry—Inventory and Sales: 1987 and 1982	268
15. Selected Crops: 1987 and 1982	276
16. Farms With Sales of \$10,000 or More: 1987 and 1982	284
17. Milk Goats—Inventory and Sales: 1987 and 1982	320
18. Angora Goats—Inventory and Sales: 1987 and 1982	320
19. Mink and Their Pelts—Inventory and Sales: 1987 and 1982	320
20. Colonies of Bees and Honey—Inventory and Sales: 1987 and 1982	321
21. Fish Sales: 1987 and 1982	321
22. Miscellaneous Poultry—Inventory and Sales: 1987 and 1982	321
23. Miscellaneous Livestock and Animal Specialties—Inventory and Sales: 1987 and 1982	322
24. Grains—Corn, Sorghum, Wheat, and Other Small Grains: 1987 and 1982	324
25. Cotton, Tobacco, Soybeans, Dry Beans and Peas, Potatoes, Sugar Crops, and Peanuts: 1987 and 1982	329
26. Field Seeds, Grass Seeds, Hay, Forage, and Silage: 1987 and 1982	330
27. Vegetables, Sweet Corn, and Melons Harvested for Sale: 1987 and 1982	337
28. Fruits and Nuts: 1987 and 1982	338
29. Berries Harvested for Sale: 1987 and 1982	339
30. Nursery and Greenhouse Crops, Mushrooms, and Sod Grown for Sale: 1987 and 1982	340
31. Other Crops: 1987 and 1982	341
32. Farms Operated by Black and Other Races by Value of Sales and Occupation: 1987 and 1982	341
33. Farms Operated by Black and Other Races by Tenure: 1987 and 1982	342
34. Operators by Selected Racial Groups: 1987 and 1982	342
35. Operators of Spanish Origin: 1987 and 1982	343
36. Farms With Grazing Permits: 1987	343

APPENDIXES

A.	General Explanation	A-1
B.	Places With All Cropland in the Conservation Reserve Program	B-1
C.	Statistical Methodology	C-1
D.	Report Form and Information Sheet	D-1

Index	Index 1
Publication Program	Inside back cover

*Not published for this State.

INTRODUCTION

	Page
HISTORY	VII
USES OF THE CENSUS	VII
AUTHORITY AND AREA COVERED	VII
FARM DEFINITION	VII
COMPARABILITY OF DATA	VII
TABULAR PRESENTATION	VII
ADVANCE REPORTS	VIII
ELECTRONIC DATA DISSEMINATION	VIII
SPECIAL TABULATIONS	VIII
CENSUS DISCLOSURE RULES	VIII
INVENTORIES, PRODUCTION, AND SALES DATA	VIII
ABBREVIATIONS AND SYMBOLS	VIII

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..	24 568	23 570	4.2
Land in farms.....acres..	60 203 993	60 539 209	-6
Average size of farm.....acres..	2 451	2 568	-4.6
Value of land and buildings ¹ :			
Average per farm.....dollars..	505 526	677 995	-25.4
Average per acre.....dollars..	205	259	-20.8
Farms by size:			
1 to 9 acres.....	1 940	1 551	25.1
10 to 49 acres.....	2 745	2 673	2.7
50 to 179 acres.....	3 019	3 080	-2.0
180 to 499 acres.....	3 315	3 097	7.0
500 to 999 acres.....	2 737	2 640	3.7
1,000 to 1,999 acres.....	3 460	3 345	3.4
2,000 acres or more.....	7 352	7 184	2.3
Harvested cropland.....farms..	19 267	19 279	-1
.....acres..	9 128 013	9 365 775	-2.5
Irrigated land.....farms..	9 520	9 226	3.2
.....acres..	1 996 882	2 023 003	-1.3
Market value of agricultural products sold.....\$1,000..	1 547 286	1 547 160	(Z)
Average per farm.....dollars..	62 980	65 641	-4.1
Crops, including nursery and greenhouse crops.....\$1,000..	639 202	759 171	-15.8
Grains.....\$1,000..	524 908	665 689	-21.1
Cotton and cottonseed.....\$1,000..	-	-	-
Tobacco.....\$1,000..	-	-	-
Hay, silage, and field seeds.....\$1,000..	55 418	44 019	25.9
Vegetables, sweet corn, and melons.....\$1,000..	461	407	13.4
Fruits, nuts, and berries.....\$1,000..	1 871	2 489	-24.8
Nursery and greenhouse crops.....\$1,000..	7 377	5 850	26.1
Other crops.....\$1,000..	49 166	40 716	20.8
Livestock, poultry, and their products.....\$1,000..	908 084	787 989	15.2
Poultry and poultry products.....\$1,000..	10 621	9 232	15.0
Dairy products.....\$1,000..	37 486	35 785	4.8
Cattle and calves.....\$1,000..	774 052	676 086	14.5
Hogs and pigs.....\$1,000..	33 888	32 350	4.8
Sheep, lambs, and wool.....\$1,000..	37 606	21 085	78.4
Other livestock and livestock products (see text).....\$1,000..	14 431	13 451	7.3
Farms by type of organization:			
Individual or family (sole proprietorship).....	19 506	18 842	3.5
Partnership.....	2 147	2 099	2.3
Corporation.....	2 656	2 336	13.7
Other--cooperative, estate or trust, institutional, etc.....	259	293	-11.6
Operators by principal occupation:			
Farming.....	17 405	16 898	3.0
Other.....	7 163	6 672	7.4
Operators by days worked off farm:			
Any.....	10 764	10 108	6.5
200 days or more.....	5 607	5 272	6.4
Average age of operator.....years..	51.4	50.5	1.8
Total farm production expenses ¹\$1,000..	1 288 298	(NA)	(NA)
Selected farm production expenses ¹ :			
Livestock and poultry purchased.....\$1,000..	191 557	165 312	15.9
Feed for livestock and poultry.....\$1,000..	119 817	110 919	8.0
Commercial fertilizer ²\$1,000..	79 449	79 823	-5
Agricultural chemicals ²\$1,000..	64 461	43 347	48.7
Petroleum products.....\$1,000..	100 191	136 526	-26.6
Hired farm labor.....\$1,000..	102 470	84 462	21.3
Interest expense ³\$1,000..	157 891	207 237	-23.8
Livestock and poultry inventory:			
Cattle and calves.....farms..	14 866	15 822	-6.0
.....number..	2 591 391	2 918 599	-11.2
Milk cows.....farms..	1 732	2 594	-33.2
.....number..	26 879	29 447	-8.7
Hogs and pigs.....farms..	1 406	1 643	-14.4
.....number..	200 663	195 949	2.4
Chickens 3 months old or older.....farms..	2 102	2 824	-25.6
.....number..	978 754	1 022 336	-4.3
Selected crops harvested:			
Corn for silage or green chop.....farms..	641	686	-6.6
.....acres..	46 581	54 679	-14.8
Wheat for grain.....farms..	10 375	9 982	3.9
.....acres..	4 703 455	5 215 965	-9.8
Barley for grain.....farms..	9 621	8 283	16.2
.....acres..	1 900 275	1 613 964	17.7
Oats for grain.....farms..	2 345	3 118	-24.8
.....acres..	132 308	168 097	-21.3
Sugar beets for sugar.....farms..	429	439	-2.3
.....acres..	48 403	41 123	17.7
Hay--alfalfa, other tame, small grain, wild, grass silage, green chop, etc. (see text).....farms..	13 701	14 116	-2.9
.....acres..	2 135 438	2 238 390	-4.6

¹Data are based on a sample of farms.

²Data for 1987 include cost of custom applications.

³Data for 1982 do not include imputation for item nonresponse.