

F
D
53
1982
26

DEPOS. ITEM NO. 159. A261

1982 Census of Agriculture

AC82-A-26

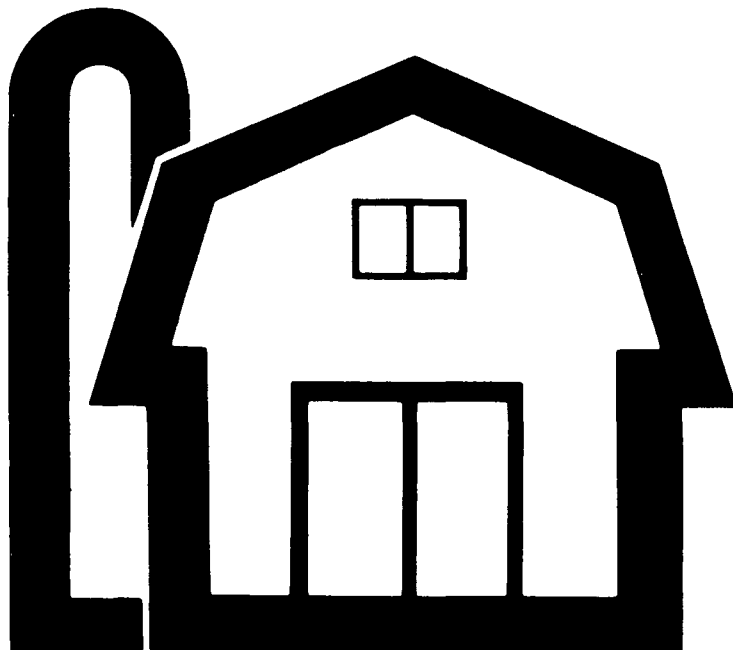
Volume 1
GEOGRAPHIC AREA SERIES

Part 26

Montana State and County Data

ALBERT R. MANN
LIBRARY
THACA, N.Y. 14853

SEP 10 1984



U.S. Department of Commerce
BUREAU OF THE CENSUS

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.

1982 Census of Agriculture

AC82-A-26

Volume 1
GEOGRAPHIC AREA SERIES

Part 26

Montana State and County Data

Issued July 1984



U.S. Department of Commerce
Malcolm Baldrige, Secretary
Clarence J. Brown, Deputy Secretary
Sidney Jones, Under Secretary for
Economic Affairs

BUREAU OF THE CENSUS
John G. Keane,
Director



BUREAU OF THE CENSUS
John G. Keane, Director
C.L. Kincannon, Deputy Director
Charles A. Waite, Associate Director
for Economic Fields
Michael G. Farrell, Assistant Director for
Economic and Agriculture Censuses

AGRICULTURE DIVISION
John H. Berry, Chief

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.

Library of Congress Cataloging in Publication Data

Main entry under title:

1982 census of agriculture.

"October 1983."

Includes indexes.

Supt. of Docs. no.: C3.31/4:982/v.1/pt.

1. Agriculture—United States—Statistics. I. United States. Bureau of the Census.

HD1769.A14 1983 338.1'0973 83-60030

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

If you have any questions concerning the statistics in this report, call (301) 763-5230.

CONTENTS

	Page
Introduction	V
State Map	VII
Highlights of the State's Agriculture: 1982 and 1978	VIII

TABLES

CHAPTER 1. State Data

1. Farms, Land in Farms, and Land Use: 1982 and Earlier Census Years	1
2. Irrigation: 1982, 1978, and 1974	2
3. Selected Characteristics of Irrigated and Nonirrigated Farms: 1982 and 1978	2
4. Farms, Land in Farms, and Land Use, by Size of Farm: 1982 and 1978	3
5. Tenure and Characteristics of Operator and Type of Organization: 1982, 1978, and 1974	3
6. Selected Characteristics of Farms Operated by Females, Persons of Spanish Origin, and Specified Racial Groups: 1982 and 1978	4
7. Selected Farm Production Expenses: 1982, 1978, and 1974	6
8. Energy and Petroleum Products Expenses: 1982 and 1978	7
9. Storage Capacity and Fuel Expenses by Kind of Fuel: 1982	7
10. Farm Payroll, Employment, and Contract Labor Expenses: 1982 and 1978	7
11. Market Value of Agricultural Products Sold: 1982, 1978, and 1974	8
12. Commodity Credit Corporation Loans, Agricultural Services, and Direct Sales of Agricultural Products: 1982, 1978, and 1974	8
13. Value of Machinery and Equipment on Place: 1982 and 1978	9
14. Selected Machinery and Equipment on place: 1982 and 1978	9
15. Selected Characteristics of Farms by Standard Industrial Classification: 1982	9
16. Agricultural Chemicals Used, Including Fertilizer and Lime: 1982 and 1978	10
17. Livestock and Poultry—Inventory and Sales: 1982, 1978, and 1974	11
18. Poultry—Inventory and Sales: 1982 and 1978	11
19. Broilers and Started Pullets—Sales: 1982 and 1978	12
20. Poultry—Inventory and Sales by Size of Flock: 1982	12
21. Turkeys—Sales by Number Sold Per Farm: 1982	12
22. Cattle and Calves—Inventory: 1982 and 1978	13
23. Cattle and Calves—Sales: 1982 and 1978	13
24. Cattle and Calves—Inventory and Sales by Size of Herd: 1982	14
25. Cattle and Calves—Inventory and Sales by Size of Cow Herd: 1982	14
26. Cattle and Calves—Inventory and Sales by Size of Beef Cow Herd: 1982	14
27. Cattle and Calves—Inventory and Sales by Size of Milk Cow Herd: 1982	15
28. Cattle and Calves—Sales by Number Sold Per Farm: 1982	15
29. Hogs and Pigs—Inventory: 1982 and 1978	16
30. Hogs and Pigs—Sales: 1982 and 1978	16
31. Hogs and Pigs—Litters Farrowed: 1982 and 1978	16
32. Hogs and Pigs—Inventory and Sales by Size of Herd: 1982	17
33. Hogs and Pigs—Inventory and Sales by Number Sold Per Farm: 1982	17
34. Hogs and Pigs—Inventory, Sales, and Litters by Total Litters Farrowed: 1982	17
35. Sheep and Lambs—Inventory and Sales: 1982 and 1978	18
36. Sheep and Lambs—Inventory and Sales by Size of Flock: 1982	18
37. Sheep and Lambs—Inventory and Sales by Size of Ewe Flock: 1982	18
38. Other Livestock, Livestock Products, and Animal Specialties—Inventory and Sales: 1982 and 1978	19
39. Crops Harvested and Value of Production: 1982 and 1978	19
40. Specified Crops Harvested—Yield Per Acre Irrigated and Nonirrigated: 1982	20

41. Specified Crops by Acres Harvested: 1982 and 1978	20
42. Specified Fruits and Nuts by Bearing and Nonbearing Acres: 1982 and 1978	*
43. Nursery and Greenhouse Products, Mushrooms, and Sod Grown for Sale by Value of Sales: 1982 and 1978	22
44. Summary by Tenure of Operator: 1982	24
45. Summary by Type of Organization: 1982	32
46. Summary by Age and Principal Occupation of Operator: 1982	40
47. Summary by Age and Principal Occupation of Operators for Farms With Sales of Less Than \$20,000: 1982	56
48. Summary by Size of Farm: 1982	72
49. Summary by Value of Agricultural Products Sold: 1982	88
50. Summary by Standard Industrial Classification of Farm: 1982	104

CHAPTER 2. County Data

1. Farms, Land in Farms, and Land Use: 1982 and 1978	120
2. Irrigation: 1982 and 1978	132
3. Market Value of Agricultural Products Sold and Farms by Standard Industrial Classification: 1982 and 1978	136
4. Land in Farms, Harvested Cropland, and Irrigated Land: 1982 and 1978	152
5. Tenure and Characteristics of Operator and Type of Organization: 1982 and 1978	164
6. Selected Farm Production Expenses and Fuel Storage Capacity: 1982 and 1978	176
7. Agricultural Chemicals Used, Including Fertilizer and Lime: 1982 and 1978	184
8. Machinery and Equipment on Place: 1982 and 1978	188
9. Hired Farm Labor—Workers and Payroll: 1982 and 1978	199
10. Commodity Credit Corporation Loans, Agricultural Services, and Direct Sales of Agricultural Products: 1982 and 1978	210
11. Cattle and Calves—Inventory and Sales: 1982 and 1978	214
12. Hogs and Pigs—Inventory, Litters, and Sales: 1982 and 1978	230
13. Sheep and Horses—Inventory and Sales: 1982 and 1978	238
14. Poultry—Inventory and Sales: 1982 and 1978	242
15. Selected Crops: 1982 and 1978	250
16. Farms With Sales of \$10,000 or More: 1982 and 1978	258
17. Milk Goats—Inventory and Sales: 1982 and 1978	294
18. Angora Goats—Inventory and Sales: 1982 and 1978	
19. Mink and Their Pelts—Inventory and Sales: 1982 and 1978	294
20. Colonies of Bees and Honey—Inventory and Sales: 1982 and 1978	294
21. Fish Sales: 1982 and 1978	294
22. Miscellaneous Poultry—Inventory and Sales: 1982 and 1978	295
23. Miscellaneous Livestock and Animal Specialties—Inventory and Sales: 1982 and 1978	296
24. Grains—Corn, Sorghum, Wheat, and Other Small Grains: 1982 and 1978	297
25. Cotton, Tobacco, Soybeans, Dry Beans and Peas, Potatoes, Sugar Crops, and Peanuts: 1982 and 1978	300
26. Field Seeds, Grass Seeds, Hay, Forage, and Silage: 1982 and 1978	301
27. Vegetables, Sweet Corn, and Melons Harvested for Sale: 1982 and 1978	308
28. Fruits and Nuts: 1982 and 1978	310
29. Berries Harvested for Sale: 1982 and 1978	311
30. Nursery and Greenhouse Products, Mushrooms, and Sod Grown for Sale: 1982 and 1978	311
31. Other Crops: 1982 and 1978	312
32. Farms Operated by Black and Other Races: 1982 and 1978	313
33. Farms Operated by Black and Other Races by Tenure: 1982 and 1978	313
34. Operators by Selected Racial Groups: 1982 and 1978	314
35. Operators of Spanish Origin: 1982 and 1978	314
36. Commodity Credit Corporation Loans by Commodity Group: 1982	315

APPENDIXES

A. General Explanation	A-1
B. Effect of the Area Sample on Census Comparability	B-1
C. Report Form and Information Sheet	C-1

Index	Index
Publication Program	Inside back cover

*Not applicable.

INTRODUCTION

	Page
HISTORY	V
USES OF THE CENSUS	V
AUTHORITY AND AREA COVERED	V
FARM DEFINITION	V
COMPARABILITY OF DATA	V
TABULAR PRESENTATION	V
PRELIMINARY REPORTS	VI
MICROFICHE AND COMPUTER TAPES	VI
UNPUBLISHED DATA	VI
CENSUS DISCLOSURE RULES	VI
DEFINITIONS AND EXPLANATIONS	VI
"SEE TEXT" REFERENCE	VI
INVENTORIES, PRODUCTION, AND SALES DATA	VI
ABBREVIATIONS AND SYMBOLS	VI

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

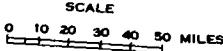
Inventories of livestock, poultry, and machinery and equipment are as of December 31 of the census year. Crop and livestock production, sales, and expense data are for the calendar year, except for a few crops (such as citrus) for which the production year overlaps the calendar year.

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.

MONTANA



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.....	23 570	23 565	(2)	15 467	16 081	-3.8
Land in farms.....acres.....	60 539 209	61 690 919	-1.9	53 404 255	54 207 046	-1.5
Average size of farm.....acres.....	2 568	2 618	-1.9	3 453	3 371	2.4
Value of land and buildings ¹ :						
Average per farm.....dollars.....	677 995	512 791	32.2	906 576	648 660	38.8
Average per acre.....dollars.....	259	195	32.8	259	193	34.2
Farms by size:						
1 to 9 acres.....	1 551	1 255	23.6	347	331	4.8
10 to 49 acres.....	2 673	1 889	41.5	299	203	47.3
50 to 179 acres.....	3 080	2 987	3.1	908	848	7.1
180 to 499 acres.....	3 097	3 420	-9.4	1 866	1 926	-3.1
500 to 999 acres.....	2 640	2 928	-9.8	2 104	2 282	-7.8
1,000 to 1,999 acres.....	3 345	4 011	-16.6	3 036	3 684	-17.8
2,000 acres or more.....	7 184	7 075	1.5	6 907	6 807	1.5
Harvested cropland.....farms.....	19 279	20 313	-5.1	14 389	15 103	-4.7
.....acres.....	9 365 775	8 741 043	7.1	9 079 352	8 402 653	8.1
Irrigated land.....farms.....	9 226	9 384	-1.7	6 161	6 422	-4.1
.....acres.....	2 023 003	2 069 531	-2.2	1 877 642	1 914 430	-1.9
Market value of agricultural products sold.....\$1,000.....	1 547 160	1 177 454	31.4	1 509 841	1 144 581	31.9
Crops, including nursery and greenhouse products.....farms.....	14 227	15 191	-6.3	11 515	12 004	-4.1
.....\$1,000.....	759 171	488 486	55.4	747 292	476 416	58.9
Livestock, poultry, and their products.....farms.....	17 175	17 448	-1.6	11 689	12 310	-5.0
.....\$1,000.....	787 989	688 968	14.4	762 549	668 165	14.1
Farms by standard industrial classification:						
Cash grains (011).....	7 579	7 627	-6	6 683	6 368	4.9
Field crops, except cash grains (013).....	1 696	1 884	-10.0	748	876	-14.6
Vegetables and melons (016).....	30	34	-11.8	7	5	40.0
Fruits and tree nuts (017).....	208	173	20.2	79	43	83.7
Horticultural specialties (018).....	98	90	8.9	57	51	11.8
General farms, primarily crop (019).....	717	553	29.7	337	331	1.8
Livestock, except dairy, poultry, and animal specialties (021).....	11 567	12 064	-4.1	7 055	7 918	-10.9
Dairy farms (024).....	319	309	3.2	273	274	-4
Poultry and eggs (025).....	78	64	21.9	15	20	-25.0
Animal specialties (027).....	931	492	89.2	153	136	12.5
General farms, primarily livestock (029).....	347	275	26.2	60	59	1.7
Farms by type of organization:						
Individual or family.....	18 842	19 042	-1.1	11 524	12 286	-6.2
Partnership.....	2 099	2 305	-8.9	1 635	1 811	-8.7
Corporation.....	2 336	2 012	16.1	2 185	1 932	13.1
Other—cooperative, estate or trust, institutional, etc.....	293	206	42.2	123	52	136.5
Tenure of operator:						
Full owners.....	11 662	10 892	7.1	5 768	5 649	2.1
Part owners.....	9 239	9 908	-6.8	7 892	8 594	-8.2
Tenants.....	2 669	2 765	-3.5	1 807	1 838	-1.7
Operators by principal occupation:						
Farming.....	16 898	16 855	.3	13 732	13 869	-1.0
Other.....	6 672	6 710	-6	1 735	2 212	-21.6
Selected farm production expenses ¹ :						
Feed for livestock and poultry.....\$1,000.....	110 919	108 728	2.0	105 021	103 588	1.4
Commercial fertilizer.....\$1,000.....	79 823	64 950	22.9	78 713	62 899	25.1
Other agricultural chemicals ²\$1,000.....	43 347	27 945	55.1	42 305	26 832	57.7
Energy and petroleum products.....\$1,000.....	157 696	89 523	76.2	150 390	83 981	79.1
Hired farm labor.....\$1,000.....	84 462	70 884	19.2	81 737	68 879	18.7
Livestock and poultry inventory:						
Cattle and calves.....farms.....	15 822	15 887	-4	10 957	11 470	-4.5
.....number.....	2 918 599	2 786 829	4.7	2 764 110	2 661 144	3.9
Milk cows.....farms.....	2 594	3 183	-18.5	1 823	2 328	-21.7
.....number.....	29 447	29 306	.5	27 721	27 324	1.5
Hogs and pigs.....farms.....	1 643	2 433	-32.5	1 163	1 723	-32.5
.....number.....	195 949	211 350	-7.3	187 659	192 547	-2.5
Chickens 3 months old or older.....farms.....	2 824	3 130	-8.8	1 615	2 045	-21.0
.....number.....	1 022 336	886 813	15.3	990 118	850 488	16.4
Crops harvested:						
Corn for silage or green chop.....farms.....	686	906	-24.3	661	843	-21.8
.....acres.....	54 679	72 257	-24.3	53 815	70 350	-23.3
Wheat for grain.....farms.....	9 982	10 726	-6.9	9 174	9 468	-3.1
.....acres.....	5 215 965	4 799 795	8.7	5 141 650	4 677 191	8.9
Barley for grain.....farms.....	8 283	8 274	.1	7 575	7 340	3.2
.....acres.....	1 613 964	1 263 343	27.8	1 585 934	1 227 663	28.6
Oats for grain.....farms.....	3 116	3 473	-10.2	2 796	3 085	-9.4
.....acres.....	168 097	173 074	-2.9	161 189	163 936	-1.7
Sugar beets for sugar.....farms.....	439	538	-18.4	434	512	-16.4
.....acres.....	41 123	43 749	-6.0	41 041	43 395	-5.4
Hay—alfalfa, other tame, small grain, wild, grass silage, green chop, etc. (see text).....farms.....	14 116	15 374	-8.2	10 169	11 401	-10.8
.....acres.....	2 238 390	2 324 110	-3.7	2 061 000	2 155 365	-4.4

¹Data are based on a sample of farms.

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