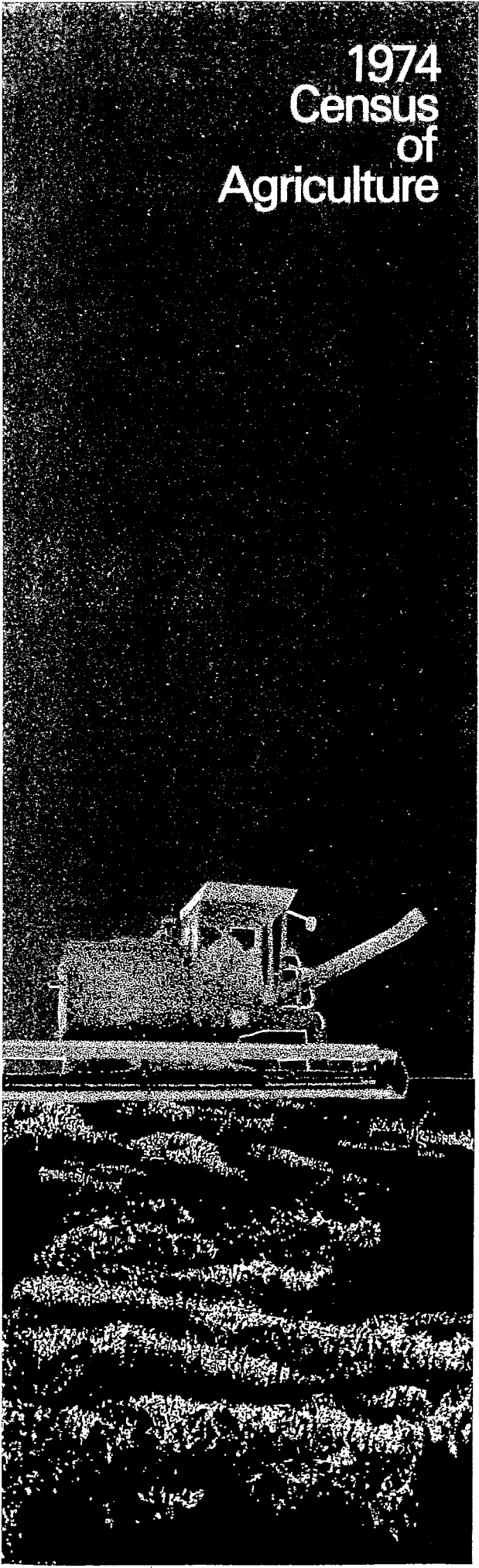


1974
Census
of
Agriculture

Volume I Part 34
**North
Dakota**
State and
County Data



Issued May 1977



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REPORTS OF 1974 CENSUS OF AGRICULTURE

Preliminary Reports. Four pages of data published separately for each county having 10 farms or more, and for each State, the four geographic regions, and the United States. *The statistics printed in these reports are superseded by those in the final reports, Volumes I through IV.*

Volume I. State and County Data. One for each State, Puerto Rico, Guam, and the Virgin Islands, covering the area and its subdivisions. The reports for the States contain data for all farms and farms with sales of \$2,500 and over. *Chapter I* contains detailed data at the State level classified by size of farm, tenure and age of farm operator, type of organization, value of products sold, and major type of farm; *Chapter II*, county data summarized by subject; *Chapter III*, county data by subject for miscellaneous crop and livestock items found in relatively few counties; *Chapter IV*, county data by county.

Volume II. Statistics by Subject. Chapters containing total data for the United States, geographic regions and divisions, and States, for all farms and farms with sales of \$2,500 and over.

Volume III. Agricultural Services. Data by county for each State covering establishments whose primary activities are providing agricultural services. Data at the U.S., State, and county levels for all establishments are presented for selected four-digit standard industrial classification codes by size and type of organization. Data shown include dollar volume of business, gross receipts from products provided, gross receipts, labor and payroll by type of service performed, capital expenditures, and expenditures for electricity, gasoline, petroleum, and other fuels.

Volume IV. Special Reports.

Part 1. Graphic Summary. Profiles the Nation's agricultural system in a series of U.S. maps, a number of which are printed in color. The characteristics of America's farms in 1974 are illustrated for crops, livestock, and many other characteristics.

Part 2. Ranking Counties and States. Reports on the top ranking 100 counties and 10 States in descending order of importance for 88 selected items for 1974 with comparative data for 1969.

Part 3. Coverage Evaluation. Shows the completeness of the agriculture census for States, geographic divisions, and the United States. Data also show the characteristics of farms missed by value of sales and by selected standard industrial (type-of-farm) classifications. Sampling reliability of the estimate of coverage is shown by value of sales classifications.

Part 4. Procedural History. A comprehensive summary of the procedures used in conducting the 1974 Census of Agriculture in the 50 States, Puerto Rico, Guam, and the Virgin Islands. The history explains the procedures used from early planning and testing through tabulation and publication of the final reports.

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INTRODUCTION

Authority, Area Covered, and History

The 1974 Census of Agriculture was taken in accordance with the provisions of Title 13, United States Code, reaffirmed by section 818 of the Agriculture and Consumer Protection Act of 1973 (Public Law 93-86). Sections 142(a) and 191 of Title 13 provide for a census of agriculture every 5 years in each State, the District of Columbia, Puerto Rico, Guam, and the Virgin Islands.

The 1974 census is the 20th nationwide census of agriculture and the second conducted primarily by mail. The first agricultural census data were collected in 1840 as part of the sixth decennial census. Since that time, a census of agriculture has been a part of each decennial census program, and since 1920 a national census of agriculture has been taken every 5 years.

Farm Definition

For each of the 20 censuses of agriculture except the first, taken in 1840, the agency responsible for conducting the census has established minimum criteria which define a farm for the purpose of the census. As the Nation has developed and grown, agriculture also has changed and grown, and from time to time the minimum criteria for the definition of a farm have been changed.

Prior to 1974, the eighth and most recent change in minimum criteria was for the 1959 Census of Agriculture, when the definition of a farm was based primarily on a combination of acres in the place and value of agricultural products sold.

The word "place" was defined to include all land on which agricultural operations were conducted at any time in the census year under the day-to-day control or supervision of one person or partnership. Control may have been exercised through ownership or management or through a lease, rental, or cropping arrangement.

Places of less than 10 acres in the census year were counted as farms if the estimated sales of agricultural products for the year amounted to at least \$250. Places of 10 or more acres in the census year were counted as farms if the estimated sales of agricultural products for the year amounted to at least \$50. Places having less than the \$50 or \$250 minimum estimated sales in the census year were also counted as farms if they could normally be expected to produce agricultural products in sufficient quantity to meet the requirements of the definition.

Using the 1959 definition, the 1969 census reported about 571,000 farms in the United States having sales of less than \$1,000; these farms comprised 20.9 percent of all farms but contributed less than 1 percent of total sales. In 1974 there were only about 152,000 such farms, accounting for less than 6 hundredths of 1 percent of total sales. Between censuses many of these small farms had ceased operations, while many others had sales of \$1,000 or more in the census year, either because of increased agricultural activity or because of increases in the per unit value of agricultural products sold.

In view of increases in price levels and other changes in the structure of agricultural operations, various individuals

and organizations, including members of the Census Advisory Committee on Agriculture Statistics, the Office of Management and Budget, and the U.S. Department of Agriculture, agreed that a change in the definition of a farm was justified. The Department of Commerce announced on August 12, 1975, that the census definition of a farm, for purposes of publishing the 1974 census data, was any establishment which during the census year had or normally would have had sales of agricultural products of \$1,000 or more.

In the next 10 months, Congress held four hearings on the appropriateness of changing the definition. During this time, Public Law 94-229, enacted March 15, 1976, included a provision requiring the statistical classification of farms in effect on January 1, 1975, to be continued in effect through June 30, 1976, and that any statistical report issued on or before June 30, 1976, should reflect such classification, but could also include additional classifications as deemed appropriate by the Secretary of Commerce.

Definition for preliminary reports. Publication of the preliminary county reports began in April 1976, and these reports for all counties and States, the four regions, and the United States were tabulated and published in accordance with the same farm definition used for the 1959, 1964, and 1969 censuses.

Definition for final reports. For all final reports, the 1974 statistics are in accordance with the 1974 definition, which differs from the earlier definition in only two respects:

INTRODUCTION Continued

1. The criterion for number of "acres in place" has been deleted.
2. The criterion for minimum value of agricultural products sold has been changed to \$1,000.

Thus for 1974, a farm was defined to include all land on which agricultural operations were conducted at any time in the census year under the day-to-day control of an individual management, and from which \$1,000 or more of agricultural products were sold during the census year. Control may have been exercised through ownership or management, or through a lease, rental, or cropping arrangement. Places having less than the minimum \$1,000 sales in the census year were also counted as farms if they could normally be expected to produce agricultural products in sufficient quantity to meet the requirements of the definition.

Three tables in this report provide users with measures of the effect of the change in definition: The table following this introduction shows farms and sales, by county, for 1974 and 1969, for both the old and the new definitions, and also for those places excluded by the 1974 but not by the 1959 definition. In chapter II, table 33 presents data by county for 1974 showing comparisons between farms (1974 definition) and agricultural operations that would have been farms under the 1959 definition. The table that comprises appendix B presents data by State for 1974 and 1969 showing characteristics of 1974 agricultural operations excluded by the new definition and of 1969 farms having less than \$1,000 total value of sales.

The 1974 "all farms" data shown in State tables 1 through 9 and county tables 1 through 10 are for those agricultural operations with at least \$1,000 in total (or potential) sales of farm products. All other tables in this report are limited to farms with sales of \$2,500 or more (see the paragraphs in appendix A that describe the report forms and the enumeration method).

Comparability of Data

In general, data for 1974 and earlier

censuses are comparable with data from earlier censuses only for farms with \$2,500 or more total value of sales, because the data for farms with \$2,500 or more value of sales are not affected by the change in farm definition. Data for all farms for 1974 are based on the new definition so they are not directly comparable to earlier censuses. It is also important to note that in addition to the difference in farm definition used in this report from that in the preliminary version, this final report contains 1974 figures which will not agree with figures in the preliminary reports because of corrections, additions, and deletions.

Even for farms with \$2,500 or more value of sales, the difference in timing and the change from personal interview to mail enumeration affect the comparability between the data for 1974 and 1969 and that for earlier censuses. Both 1974 and 1969 censuses were taken by mail; all earlier censuses were taken by direct interview.

Dramatic changes in rates of farm expenditure and unit prices of products sold between the 1969 and 1974 censuses affect the comparability of some census data. During the period between the two censuses, prices paid by farmers greatly increased. Prices received by farmers also increased but with wide fluctuations among commodities at different times during the census year of 1974.

Crop and livestock production data are for the calendar year 1974, except for a few crops (such as citrus) for which the production year overlaps the calendar year. Expenditures, crops irrigated, usage of agricultural chemicals and fertilizers, and sale of farm products were all asked for the calendar year. Respondents were instructed to report inventory numbers of livestock, poultry, and other specified items as of December 31, 1974. The reporting period and inventory data are the same as for the 1969 census.

Censuses prior to 1969 were taken by enumerators, each assigned to a specific geographic area. Field work for the 1964 and 1959 censuses was completed largely in October, November, and December of the reference year. Livestock and poultry inventories for those two censuses were as

of the time of enumeration. Other variations in time of enumeration occurred in censuses prior to 1959.

Graphics

On the following pages, there is a graphic presentation of selected agricultural statistics for this State. The first four dot maps are being published for all States. The second four dot maps have been selected to present data of particular importance to this State.

Tabular Presentation

State data—In chapter I, State tables 1 through 27 show detailed State level data generally accompanied by historical data for one or more censuses. Tables 28 through 33 provide 1974 State data cross-tabulated by various farm classifications.

County summary data—A summary of selected data items for each county of the State is presented in chapter II of this publication. In these tables the counties are listed in alphabetical order with the State total at the beginning of each table.

County miscellaneous data—In chapter III, data for additional crop and livestock items not common to a large number of counties are reported in a separate set of tables by county for each State. Some of these items, even though reported in only a few counties of the State, are sufficiently important to account for a significant proportion of the agricultural production.

Counties not having the subject item of a given table, or with only a very limited number of farms reporting the item, are not listed separately; their data are combined with other counties and presented as "All other."

Final county data—Six pages of data are presented in chapter IV for each county with 10 farms or more in 1974. The tables include final data for each county and are more comprehensive than those in the preliminary reports. Data are for the year 1974 with inventory (on place)

INTRODUCTION Continued

figures as of December 31, 1974. Information covering all farms and farms with sales of \$2,500 and over are presented for both the 1974 and 1969 censuses. A State level six-page report like the county report is published at the beginning of the chapter.

Preliminary county data—Preliminary reports have been published separately for all counties in the United States with 10 farms or more in 1974. This four-page series provided, at the earliest possible date, usable information on a limited number of major data items, with comparative final figures from the 1969 census.

The reports were issued on a flow basis, with a State report following the release of the last county report for each State. Tables showing regional and U.S. totals were also prepared as a part of this series.

For all States, the same table format was used to present the data except data for six selected crops shown in table 7. These crops were varied by State depending upon their relative importance.

For major items at the county level differences between the preliminary and final figures are in general less than 5 percent. At the State level, differences are significantly less.

"See Text" Reference

The remark "See text" in the tables refers to explanations, definitions, and classifications in sections 5 and 6 of appendix A.

Abbreviations and Symbols

The following abbreviations and symbols are used throughout the tables:

- Represents zero.
- D Data withheld to avoid disclosing information for individual farms.
- X Not applicable.
- Z Less than half of the unit reported.
- NA Not available.

INTRODUCTION Continued

FARMS AND VALUE OF PRODUCTS SOLD BY 1974 AND 1959 DEFINITIONS, WITH COMPARABLE DATA FOR AGRICULTURAL OPERATIONS EXCLUDED BY 1974 DEFINITION: 1974 AND 1969

COUNTY	BY 1974 DEFINITION				BY 1959 DEFINITION				AGRICULTURAL OPERATIONS EXCLUDED BY 1974 DEFINITION BUT NOT BY 1959 DEFINITION			
	NUMBER		VALUE OF AGRICULTURAL PRODUCTS SOLD (\$1,000)		NUMBER		VALUE OF AGRICULTURAL PRODUCTS SOLD (\$1,000)		NUMBER		VALUE OF AGRICULTURAL PRODUCTS SOLD (\$1,000)	
	1974	1969	1974	1969	1974	1969	1974	1969	1974	1969	1974	1969
NORTH DAKOTA, TOTAL, . . .	42 710	44 298	1 802 791	747 986	43 319	46 381	1 802 954	748 910	609	2 083	163	924
ADAMS,	481	475	18 689	8 916	486	498	18 691	8 924	5	23	2	8
BARNES,	1 248	1 274	57 709	22 490	1 257	1 324	57 714	22 509	9	50	5	20
BENSON,	1 006	935	38 903	14 401	1 032	977	38 912	14 415	26	42	9	14
BILLINGS,	271	273	5 653	3 627	276	292	5 656	3 637	5	19	3	11
BOTTINEAU,	1 192	1 191	50 319	16 105	1 217	1 277	50 326	16 139	25	86	7	34
BOWMAN,	380	395	16 492	6 804	396	418	16 497	6 812	16	23	5	8
BURKE,	671	691	23 781	8 300	678	739	23 785	8 323	7	48	4	22
BURLEIGH,	845	872	24 973	14 949	861	932	24 979	14 973	16	60	6	24
CASS,	1 909	1 600	105 927	41 735	1 936	1 684	105 937	41 769	27	84	9	34
CAVALIER,	1 122	1 246	43 475	17 820	1 132	1 274	43 477	17 829	10	28	2	10
DICKEY,	798	803	33 607	15 687	813	837	33 610	15 701	15	34	2	14
DIVIDE,	693	699	30 537	9 156	697	733	30 538	9 170	4	34	(2)	14
DUNN,	792	802	23 899	12 472	801	821	23 901	12 482	9	19	2	9
EDDY,	394	428	12 790	7 030	403	445	12 791	7 034	9	17	1	4
EMMONS,	951	992	23 683	13 712	956	1 055	23 684	13 738	5	63	1	26
FOSTER,	372	414	24 748	9 377	376	430	24 748	9 381	4	16	(2)	4
GOLDEN VALLEY,	287	288	13 304	4 927	291	305	13 305	4 932	4	17	1	6
GRAND FORKS,	1 136	1 227	77 849	28 351	1 154	1 281	77 854	28 379	18	54	5	28
GRANT,	828	835	21 452	12 059	834	872	21 453	12 120	6	37	1	21
GRIGGS,	925	539	21 202	9 553	925	562	21 204	9 565	20	23	2	12
HETTINGER,	609	624	29 553	10 935	613	663	29 554	10 955	4	39	1	19
KIDDER,	626	654	18 292	10 173	635	674	18 294	10 178	9	20	2	5
LA MOURE,	924	978	37 842	17 196	933	1 011	37 844	17 214	9	33	2	18
LOGAN,	659	687	18 003	10 400	661	717	18 003	10 416	2	30	-	16
MCENRY,	1 156	1 144	34 252	14 983	1 174	1 211	34 254	15 014	18	67	2	31
MCINTOSH,	707	730	19 610	11 162	711	759	19 612	11 175	4	29	1	12
MCKENZIE,	884	858	32 266	14 342	897	905	32 269	14 363	13	47	3	21
MCLEAN,	1 322	1 379	43 273	19 636	1 342	1 439	43 277	19 664	20	60	4	28
MERCER,	644	672	15 044	8 464	659	706	15 047	8 481	15	34	3	17
MORTON,	1 095	1 085	28 701	16 441	1 107	1 146	28 704	16 472	12	61	3	31
MOUNTRAIL,	1 041	1 037	35 436	12 971	1 048	1 112	35 437	13 004	7	75	1	32
NELSON,	762	769	30 583	12 830	765	787	30 583	12 839	3	18	(2)	9
OLIVER,	391	418	10 401	6 062	398	434	10 403	6 068	7	16	2	6
PEMBINA,	920	998	68 031	23 321	927	1 065	68 032	23 357	7	67	1	36
PIERCE,	686	744	25 074	10 667	693	778	25 078	10 684	7	34	3	17
RAMSEY,	785	868	33 106	14 165	797	888	33 113	14 173	12	20	6	8
RANSON,	646	727	28 353	12 228	661	770	28 357	12 251	15	43	4	23
RENVILLE,	547	589	23 187	8 409	551	616	23 187	8 422	4	27	(2)	13
RICHLAND,	1 488	1 577	88 056	29 530	1 511	1 627	88 070	29 555	28	50	14	24
ROLETTE,	628	563	20 998	7 651	633	603	21 001	7 673	5	40	2	22
SARGENT,	681	744	29 894	12 348	704	787	29 899	12 368	23	43	5	19
SHERIDAN,	565	622	16 839	8 756	568	654	16 839	8 771	3	32	-	14
SIOUX,	257	235	7 306	4 718	258	239	7 306	4 720	1	4	-	2
SLOPE,	330	305	14 743	5 431	332	324	14 744	5 440	2	19	1	9
STARK,	889	872	29 169	12 195	899	909	29 170	12 210	10	37	(2)	14
STEELE,	569	567	33 145	10 667	571	581	33 145	10 673	2	14	(2)	6
STUTSMAN,	1 249	1 362	54 209	26 397	1 268	1 412	54 213	26 420	19	50	3	24
TOWNER,	684	708	34 143	12 394	692	722	34 148	12 401	8	14	5	7
TRAILL,	845	960	55 159	19 696	854	992	55 162	19 712	9	32	3	16
WALSH,	1 210	1 350	82 856	29 396	1 229	1 415	82 858	29 425	19	65	3	29
WARD,	1 425	1 465	55 060	21 927	1 471	1 555	55 092	21 960	46	90	12	33
WELLS,	881	937	39 861	18 814	890	971	39 864	18 824	9	34	2	10
WILLIAMS,	1 106	1 091	41 331	16 169	1 126	1 153	41 337	16 196	20	62	5	27

HIGHLIGHTS of the State's Agriculture: 1974 and 1969

	All Farms		Farms with sales of \$2,500 and over	
	1974	1969 ¹	1974	1969
Number of farms total..	42 710	46 381	40 661	41 528
Acres in farms total..	42 387 424	43 117 831	40 792 094	40 374 480
..... per farm..	992	930	1 003	972
Acres of harvested cropland total..	19 207 401	17 174 891	19 158 983	16 968 109
..... per farm..	450	370	471	409
Number of farms by size:				
1 to 49 acres.....	1 754	2 006	875	540
50 to 499 acres.....	12 586	14 126	11 550	11 113
500 acres and over.....	28 370	30 249	28 236	29 875
1,000 acres and over.....	15 121	14 500	15 067	14 416
Value of land and buildings total..	8 267 540 000	4 045 470 000	8 128 210 000	3 910 467 000
..... per farm..	193 574	87 223	199 902	94 165
Value of machinery and equipment on farms total..	1 635 670 000	829 187 000	1 612 294 000	802 734 000
..... per farm..	38 297	17 878	39 652	19 330
Machinery and equipment on farms—specified items (number):				
Automobiles.....	53 283	56 706	51 249	51 924
Motortrucks, including pickups.....	101 291	91 216	99 132	86 769
Tractors, excluding garden tractors and motor tillers.....	123 072	118 069	120 208	112 123
Value of all agricultural products sold total..	1 802 791 000	748 910 000	1 798 949 000	741 563 000
..... per farm..	42 210	16 147	44 243	17 857
Crops total..	1 438 258 000	480 535 000	1 436 814 000	476 474 000
..... per farm..	33 675	10 361	35 336	11 474
Livestock, poultry, and their products total..	364 496 000	268 337 000	362 099 000	265 052 000
..... per farm..	8 534	5 786	8 905	6 382
Number of farms, excluding abnormal farms, by value of agricultural product sold:				
Under \$2,500.....	2 267	5 154	248	333
\$2,500 and over.....	40 413	41 195	40 413	41 195
\$2,500 to \$9,999.....	5 921	14 641	5 921	14 641
\$10,000 to \$39,999.....	19 931	23 954	19 931	23 954
\$40,000 to \$99,999.....	11 226	2 272	11 226	2 272
\$100,000 to \$199,999.....	2 469	243	2 469	243
\$200,000 and over.....	866	85	866	85
Value of agricultural products sold by farms, excluding abnormal farms, having sales of—				
Under \$2,500.....	2 900 000	6 123 000	383 000	444 000
\$2,500 and over.....	1 798 566 000	741 119 000	1 798 566 000	741 119 000
\$2,500 to \$9,999.....	37 208 000	92 309 000	37 208 000	92 309 000
\$10,000 to \$39,999.....	465 342 000	456 536 000	465 342 000	456 536 000
\$40,000 to \$99,999.....	672 972 000	128 360 000	672 972 000	128 360 000
\$100,000 to \$199,999.....	331 193 000	63 914 000	331 193 000	63 914 000
\$200,000 and over.....	291 853 000			
Farm production expenses—specified items:				
Commercially mixed formula feeds.....	33 002 000	13 246 000	32 720 000	13 018 000
Commercial fertilizer.....	90 055 000	30 527 000	89 926 000	30 327 000
Gasoline and other petroleum fuel and oil for the farm business.....	102 766 000	59 009 000	102 163 000	57 628 000
Farm labor, contract labor, machine hire and customwork.....	79 590 000	53 654 000	79 020 000	52 471 000

¹ Not fully comparable because of change in farm definition; see introduction.

CHART 1. Changes in the State's Agriculture: 1974 From 1969

FARMS WITH SALES OF \$2,500 AND OVER

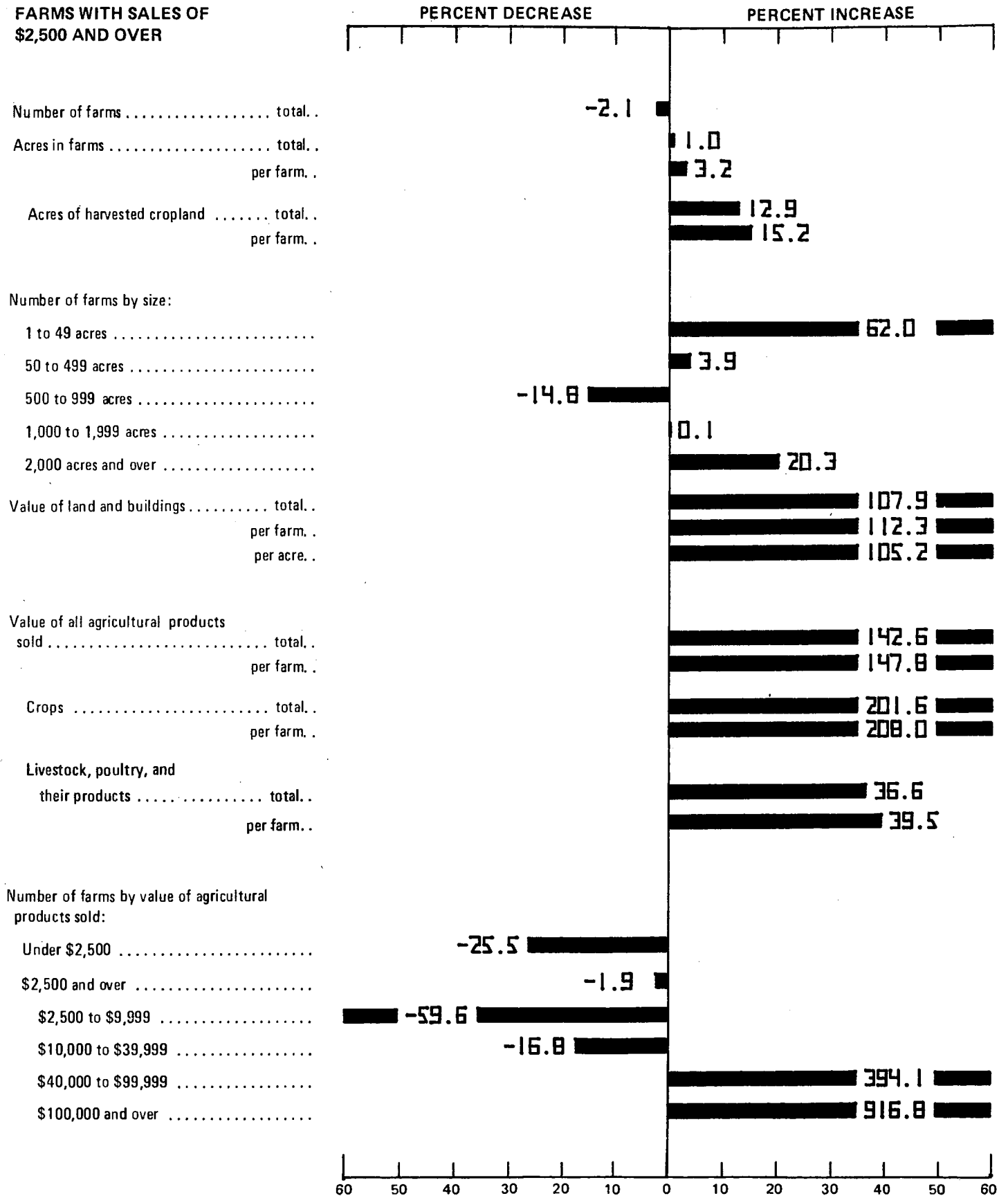


CHART 1. Changes in the State's Agriculture: 1974 From 1969—Continued

FARMS WITH SALES OF \$2,500 AND OVER

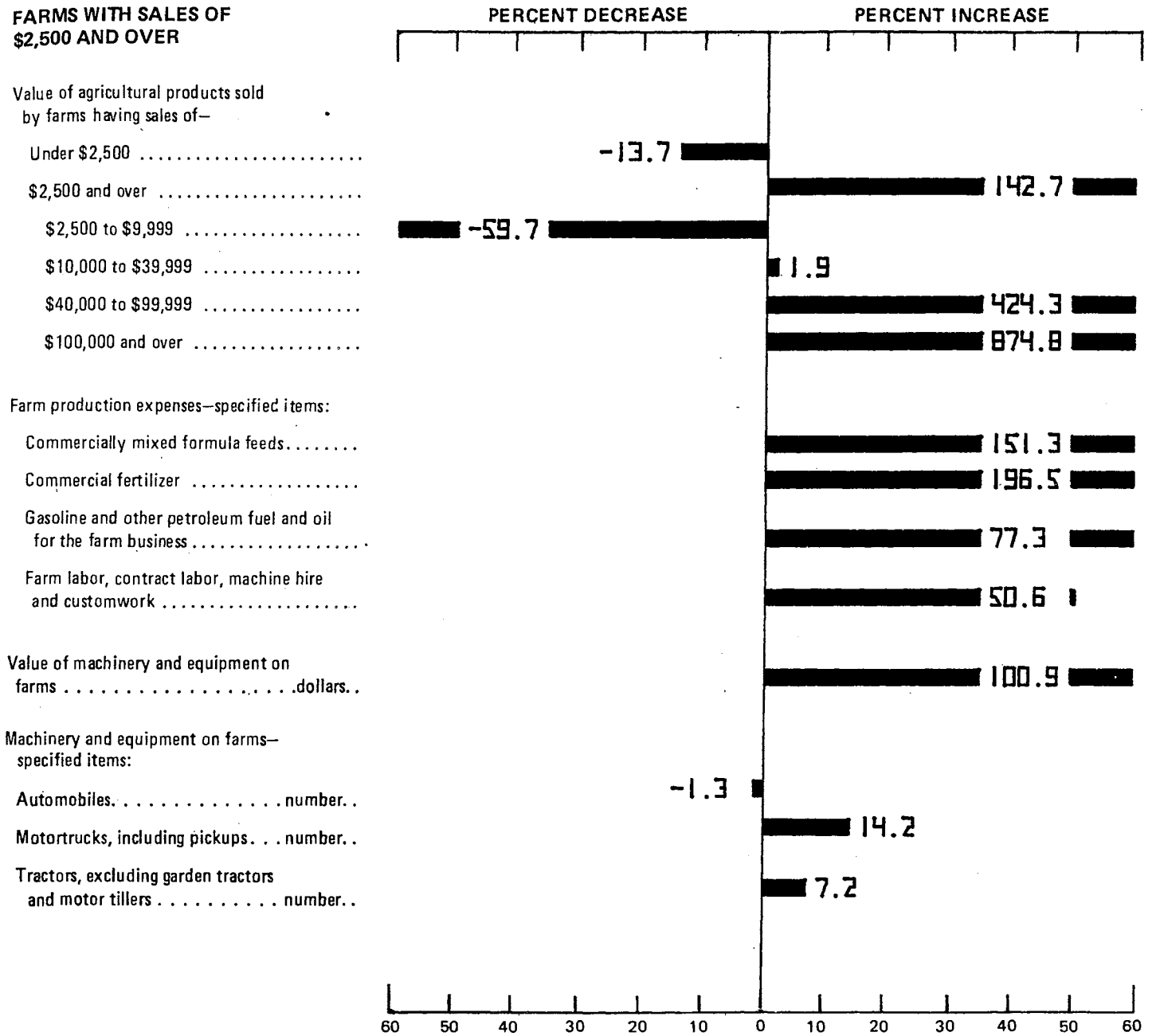
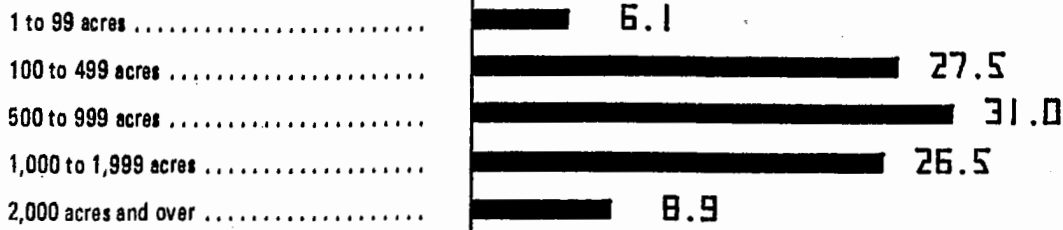


CHART 2. Profile of the State's Agriculture: 1974

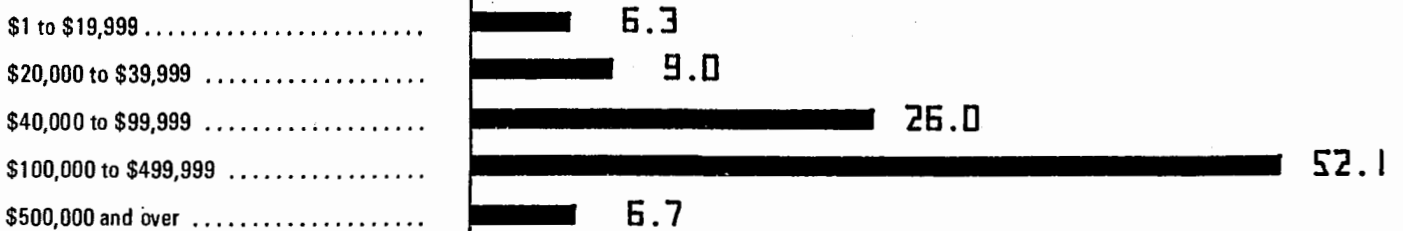
ALL FARMS

PERCENT OF TOTAL FARMS

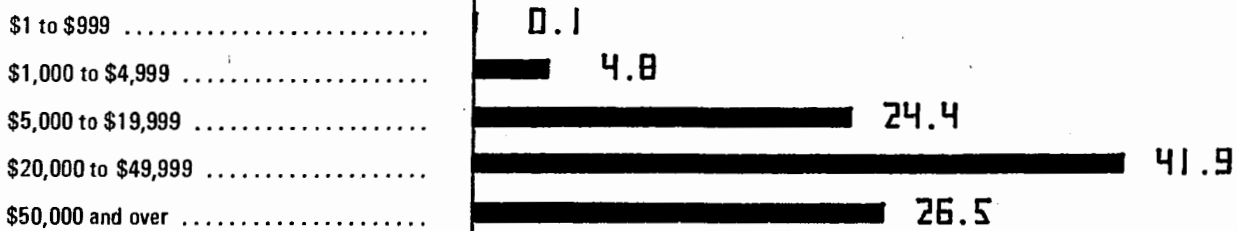
Farms by size:



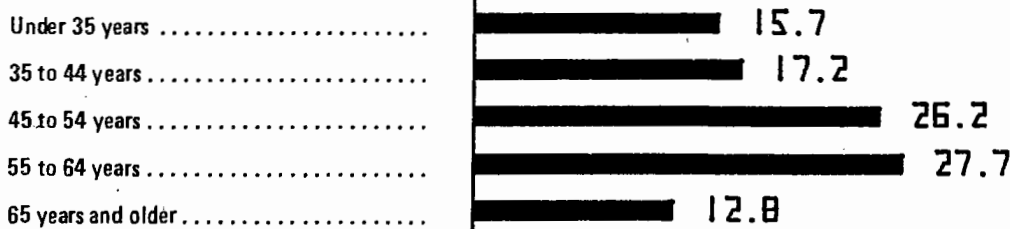
Farms by value of land and buildings:



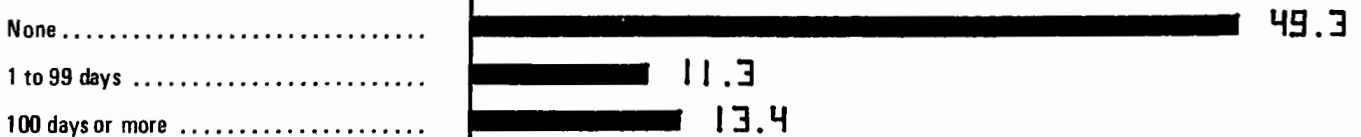
Farms by value of machinery and equipment:



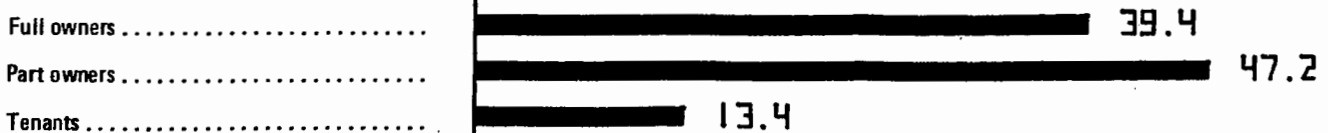
Farm operators by age:¹



Farm operators working off farm:¹



Farm operators by tenure:



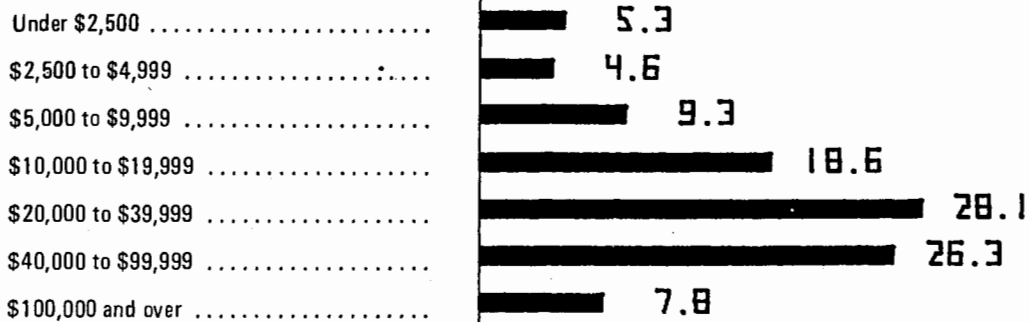
¹ Data apply only to individual or family operations (sole proprietorships) and partnerships.

CHART 2. Profile of the State's Agriculture: 1974—Continued

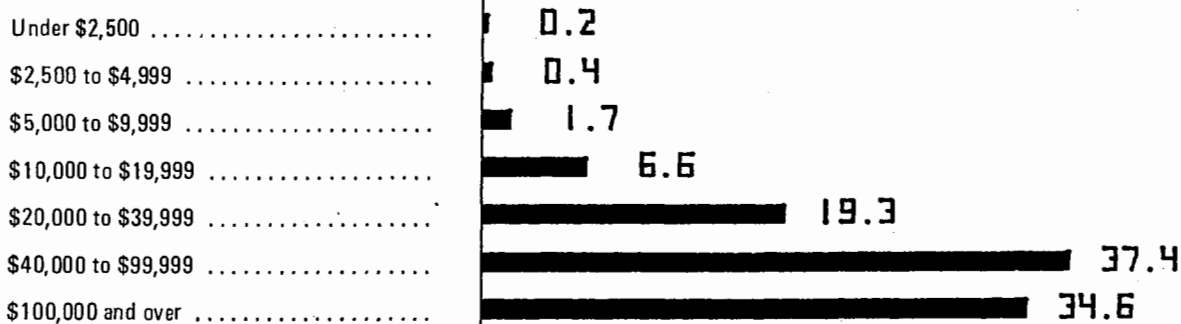
ALL FARMS

PERCENT OF TOTAL FARMS

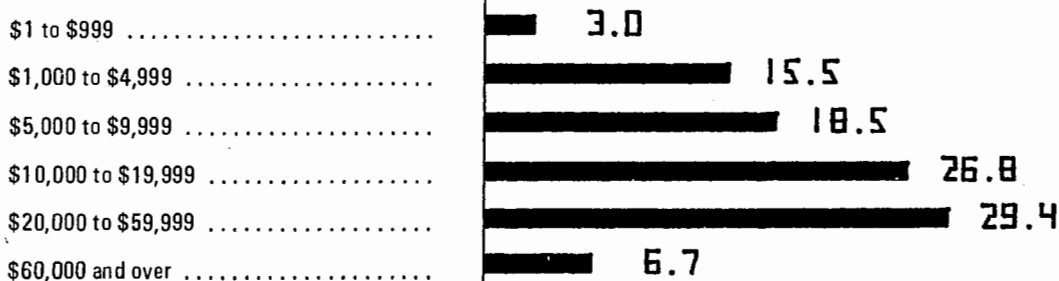
Farms by value of agricultural products sold:



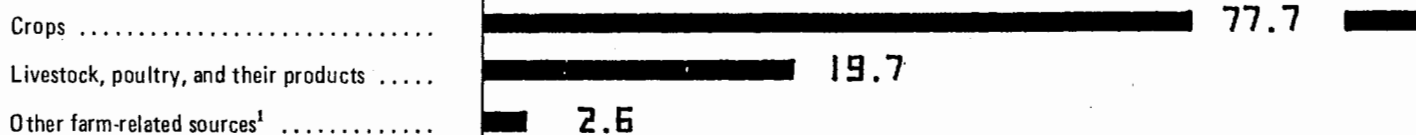
Value of agricultural products sold by farms having sales of—



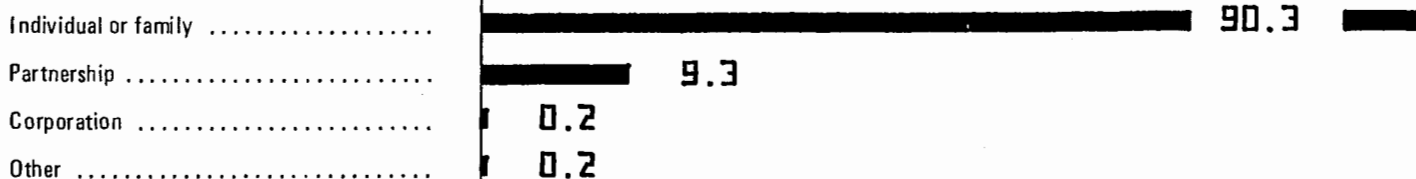
Farms by amount of total production expenses:



Sources of farm income:

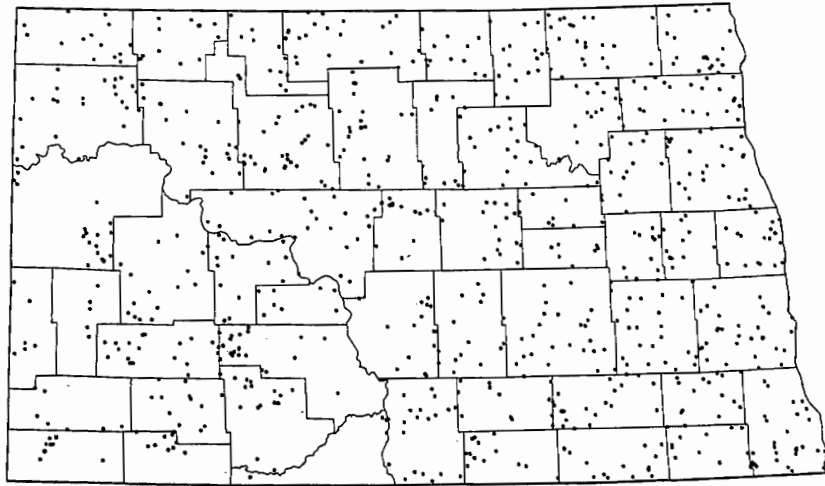


Type of organization for farms with sales of \$2,500 and over:



¹ Includes forest products sold, and income from customwork and other agricultural services, recreational services, participation in government farm programs, rental of farm property, and other miscellaneous sources closely related to the agricultural operation.

NUMBER OF FARMS: 1974

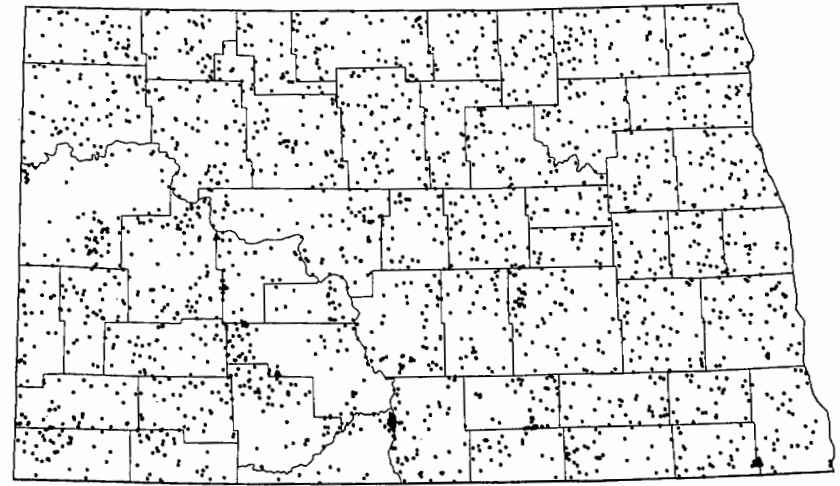


1 DOT = 50

U.S. Department of Commerce
Bureau of the Census

74 - 1ND

LAND IN FARMS: 1974

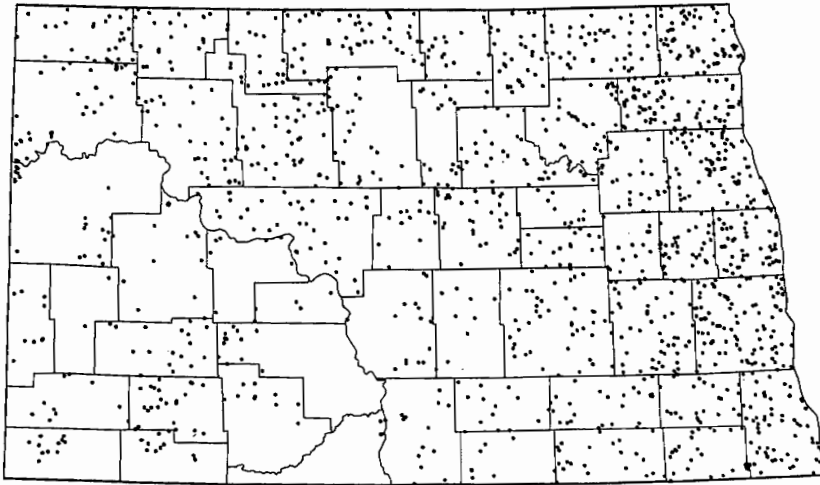


1 DOT = 20,000 ACRES

U.S. Department of Commerce
Bureau of the Census

74 - 2ND

VALUE OF CROPS SOLD: 1974

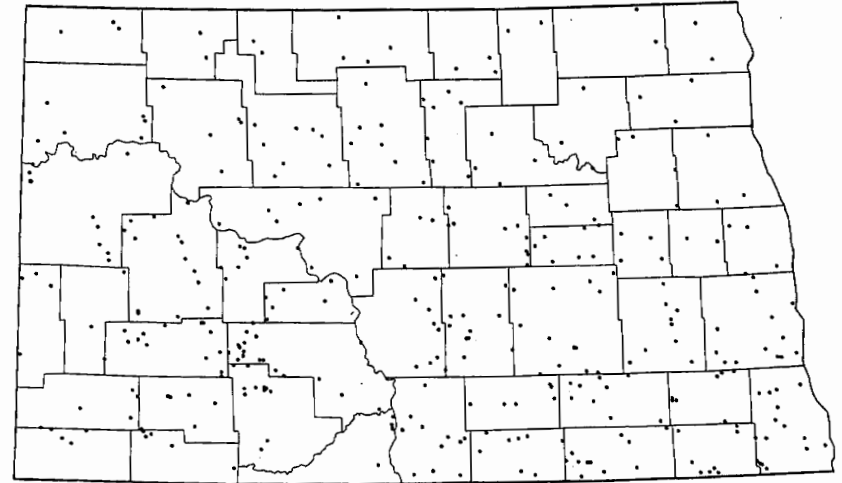


1 DOT = \$1,000,000

U.S. Department of Commerce
Bureau of the Census

74 - 3ND

**VALUE OF LIVESTOCK, POULTRY,
AND THEIR PRODUCTS SOLD: 1974**

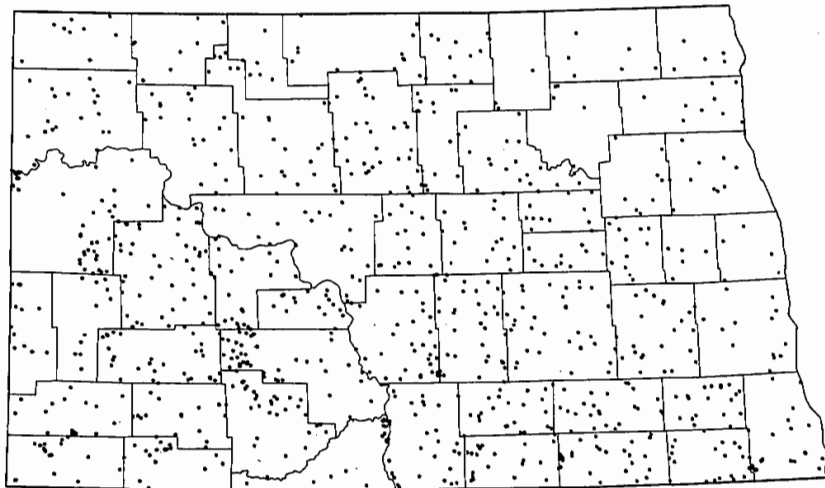


1 DOT = \$1,000,000

U.S. Department of Commerce
Bureau of the Census

74 - 4ND

CATTLE AND CALVES: 1974

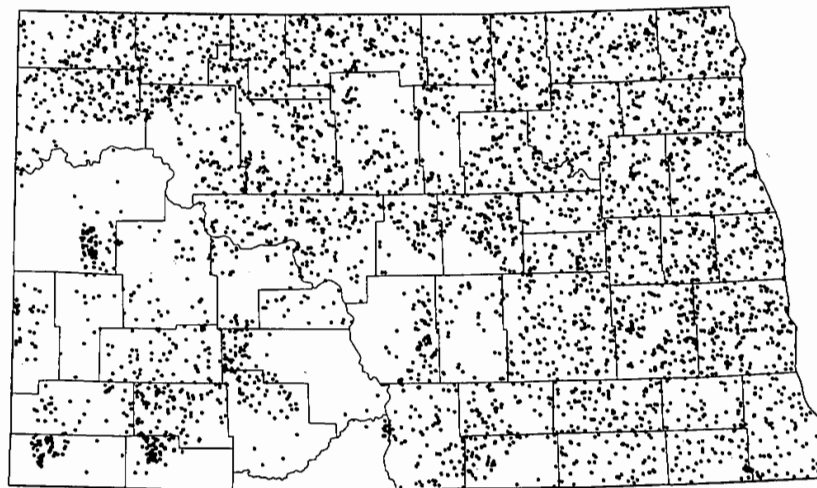


1 DOT = 2,500

U.S. Department of Commerce
Bureau of the Census

74 - 5ND

WHEAT HARVESTED: 1974

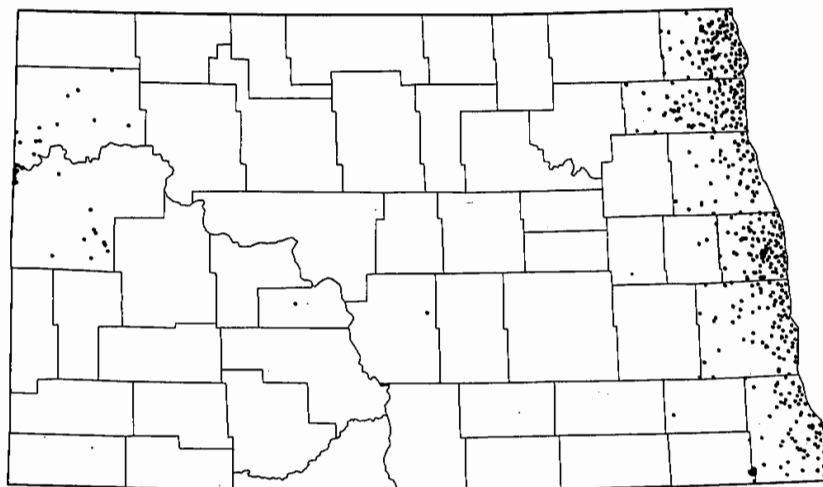


1 DOT = 2,500 ACRES

U.S. Department of Commerce
Bureau of the Census

74 - 10ND

**SUGAR BEETS HARVESTED FOR SUGAR: 1974
(FARMS WITH SALES OF \$2,500 AND OVER)**

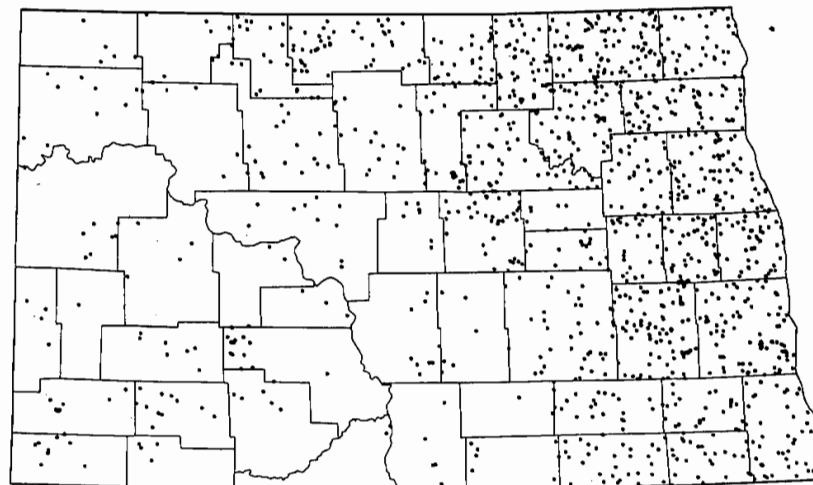


1 DOT = 250 ACRES

U.S. Department of Commerce
Bureau of the Census

74 - 22ND

**BARLEY HARVESTED: 1974
(FARMS WITH SALES OF \$2,500 AND OVER)**



1 DOT = 1,500 ACRES

U.S. Department of Commerce
Bureau of the Census

74 - 26ND

NORTH DAKOTA

Counties, County Seats, Mountains, and Rivers

