

Volume 1

State and County Data

Part 46

Virginia

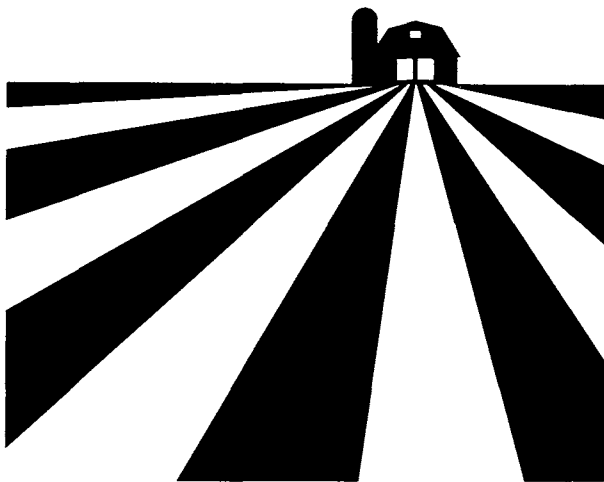
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1978
CENSUS OF
AGRICULTURE

U.S. Department of Commerce
BUREAU OF THE CENSUS

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AGRICULTURE

Volume 1
State and County Data



Part 46
Virginia
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U.S. Department of Commerce
Malcolm Baldrige, Secretary
William A. Cox,
Acting Chief Economist

BUREAU OF THE CENSUS
Daniel B. Levine,
Acting Director



BUREAU OF THE CENSUS
Daniel B. Levine, Acting Director
Shirley Kallek, Associate Director for
Economic Fields
Richard B. Quanrud, Assistant Director for
Economic and Agriculture Censuses

AGRICULTURE DIVISION
Arnold L. Bollenbacher, Chief

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¹ Not shown separately to avoid disclosing data for individual farms. However, the data for the county are included in the State totals.

² Independent city.

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HISTORY

The census of agriculture provides a periodic statistical picture of the Nation's farming, ranching, and related activities. The 1978 Census of Agriculture is the 21st 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. From 1840 to 1950, an agriculture census was taken as part of the decennial census of population. A 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. Thereafter, the agriculture census will revert to a 5-year cycle.

AUTHORITY AND AREA COVERED

The census of agriculture is authorized under the provisions of title 13, United States Code. Section 142(a) provides for the census to be taken in 1979, in 1983, and in every fifth year after 1983. Section 191 provides that the census shall include each State, the District of Columbia, Puerto Rico, Guam, and the Virgin Islands. A census of agriculture will be conducted in American Samoa and the Northern Mariana Islands in conjunction with the 1980 Census of Population and Housing.

FARM DEFINITION

Since 1850, when minimum criteria defining a farm for census purposes were first established, the farm definition has been changed nine times, as the Nation has grown and changed. The current definition was announced on August 12, 1975, in accordance with a joint agreement between the U.S. Department of Agriculture, the Office of Management and Budget, and the Bureau of the Census. It defines a farm, for statistical purposes, as any place from which \$1,000 or more of agri-

cultural 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 county reports) counted as a farm 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.

METHOD OF ENUMERATION

Evaluation studies of the 1969 and 1974 censuses, which were conducted primarily by mail, indicated that the administrative lists used to create the census mailing list were not adequate to assure complete coverage in the census. Also, censuses prior to 1969, conducted by direct enumeration, had been found by evaluation studies (conducted since 1950) to be progressively less and less complete, as increased mobility of farm operators led to increases in the numbers of nonresident operators, operators farming on a part-time basis, and operators farming two or more separate tracts.

The 1978 Census of Agriculture was conducted primarily by mail for maximum economy, supplemented by a personal canvass of a statistical area segment sample for maximum completeness of coverage. The area segment sample, which consists of selected geographic areas completely canvassed by direct enumeration, provides reliable estimates for States of the number and characteristics of any farms not represented in the mail portion of the census. Estimates for such farms are an integral part of the State totals published for the 1978 census. The direct enumeration sample estimates are statistically reliable only for State totals and have not been allocated to counties. Appendix A provides a more detailed description of how the 1978 census was taken and includes a discussion of census coverage.

COMPARABILITY OF DATA

State totals for 1978 are not directly comparable with totals for 1974 or earlier censuses as they include data for farm operations represented on the mail list plus estimates from the direct enumeration sample for farms not represented on the mail list. The 1974 State level data include only operations represented on the mail list.

Coverage evaluation studies for the 1974 census indicated that 10.7 percent of all farms were not included in the census. Farms missed in the census were usually small and accounted for less than 3 percent of the total value of agricultural products sold and less than 6 percent of the land in farms. The proportion of farms missed in the 1974 census was generally higher in

States having a large proportion of small farms and urbanized areas having a sizable number of part-time farms. Farm counts for 1974, adjusted for the net undercount, are shown in appendix C.

County level data on acreages and inventories for 1978 and 1974 are generally comparable; however, improvements in the coverage of the 1978 census, especially of smaller farms, should be taken into consideration when comparing farm counts.

USE OF SAMPLING

Two types of sampling were used for data collection for the 1978 census. In addition to the State estimates from the direct enumeration sample discussed previously, data for items in sections 22 through 27 of the census report form were collected from only a sample of farms. Data based on a sample are subject to sampling error. Detailed discussions of the census report forms, the use of sampling, and estimates of sampling error are included in appendix A.

GRAPHICS

Several charts and maps presented on the following pages show selected agricultural statistics for this State. The items in the charts and the first four maps are presented for all States. The last four maps present data of particular importance to this State.

TABULAR PRESENTATION

State data—In chapter 1, State tables 1 through 28 show detailed State level data usually accompanied by historical data for one or more censuses. Tables 29 through 35 provide 1978 State data cross-tabulated by various farm classifications.

County summary data—Selected data items are presented by county in chapter 2. Tables 1 through 15 include general data such as land in farms, size of farms, land use, operator characteristics, expenses, and machinery and equipment. Inventory and sales data for livestock, poultry, and animal specialties are contained in tables 16 through 27 and detailed crop data in tables 28 through 35. Tables 36 through 43 present data on foreign ownership, income from customwork, direct sales to consumers, operators by racial group, and female operators.

Individual county data—Five pages of tables are presented in chapter 3 for each county with 10 farms or more in 1978. The tables include final data for each county and are more comprehensive than those in the preliminary reports. Data are provided for all farms and for farms with sales of \$2,500 or more for both 1978 and 1974.

This chapter also includes a set of similar tables for the State as a whole and for those farms in the State not on the mailing list and not included in county tables.

PRELIMINARY REPORTS

Preliminary reports have been published separately for all counties in the United States with 10 farms or more in 1978, each State, the four geographic regions, and the United States. This series provided, at the earliest possible date, information on major data items, with comparable final data from the 1974 census. The data items were standard for each State and county except in table 3 where the selected crops varied by State according to their relative importance in the State. The State preliminary report also included a full set of tables providing data derived from the direct enumeration sample on the estimated number and characteristics of farms not included in county totals because they were not represented on the mailing list.

For major data 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.

CENSUS DISCLOSURE RULES

In keeping with the provisions of title 13, United States Code, data that would disclose the operations of an individual farm are not published. However, the number of farms in a given size category or other classification is not considered a disclosure. Appendix A presents additional information on disclosure rules.

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.

ABBREVIATIONS AND SYMBOLS

The following abbreviations and symbols are used throughout the tables:

- 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.
- * Independent city.

Highlights of the State's Agriculture: 1978 and 1974

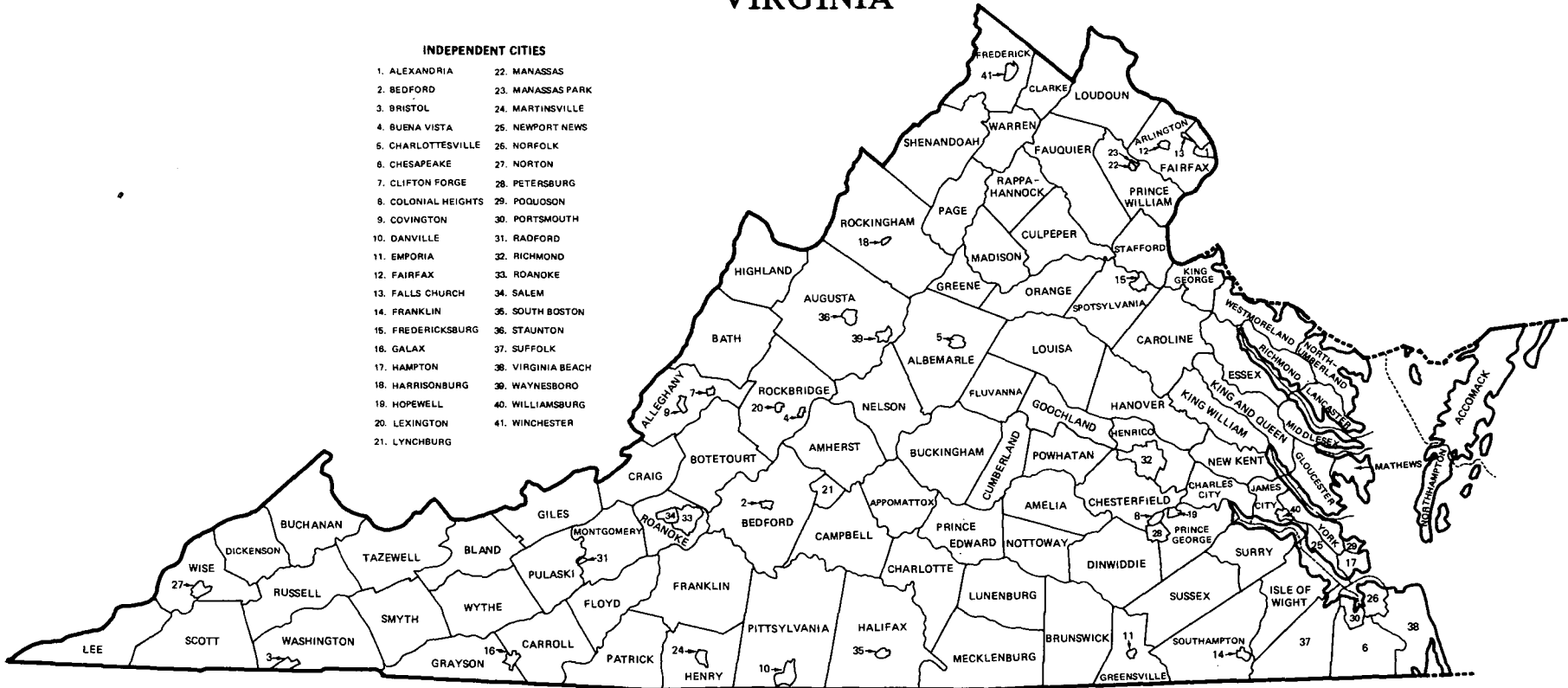
| | All farms | | | Farms with sales of \$2,500 or more | | |
|--|-------------|------------------|-------------------|-------------------------------------|------------------|-------------------|
| | 1978 | | 1974 ¹ | 1978 | | 1974 ¹ |
| | Total | Not on mail list | Total | Total | Not on mail list | Total |
| Farms..... number..... | 56 869 | 6 933 | 52 699 | 38 424 | 2 959 | 31 697 |
| Land in farms..... acres..... | 9 965 481 | 506 052 | 9 678 307 | 8 616 176 | 327 990 | 7 883 643 |
| Average size of farm..... acres..... | 175 | 73 | 184 | 224 | 111 | 249 |
| Harvested cropland..... acres..... | 2 712 675 | 113 015 | 2 446 897 | 2 525 911 | 92 289 | 2 228 343 |
| Average per farm..... acres..... | 48 | 16 | 46 | 66 | 31 | 70 |
| Farms by size: | | | | | | |
| 1 to 49 acres..... number..... | 19 257 | 4 530 | 15 065 | 9 328 | 1 696 | 5 777 |
| 50 to 499 acres..... number..... | 33 354 | 2 224 | 33 762 | 25 019 | 1 107 | 22 221 |
| 500 to 999 acres..... number..... | 3 075 | 166 | 2 756 | 2 933 | 143 | 2 620 |
| 1,000 acres or more..... number..... | 1 183 | 13 | 1 116 | 1 144 | 13 | 1 079 |
| Value of land and buildings:² | | | | | | |
| Average per farm..... dollars..... | 163 918 | 108 171 | 102 388 | 204 957 | 138 325 | 138 440 |
| Average per acre..... dollars..... | 930 | 1 482 | 558 | 912 | 1 248 | 557 |
| Value of machinery and equipment on farms:² | | | | | | |
| \$1,000..... | 1 125 842 | 65 751 | 699 383 | 991 267 | 40 400 | 556 883 |
| Average per farm..... dollars..... | 19 797 | 9 484 | 13 271 | 25 798 | 13 653 | 17 569 |
| Value of agricultural products sold | | | | | | |
| \$1,000..... | 1 304 164 | 42 908 | 959 687 | 1 277 888 | 39 049 | 930 484 |
| Average per farm..... dollars..... | 22 933 | 6 189 | 18 211 | 33 258 | 13 197 | 29 356 |
| Crops sold..... \$1,000..... | 530 176 | 26 597 | 435 652 | 519 936 | 25 320 | 423 849 |
| Average per farm..... dollars..... | 9 323 | 3 836 | 8 267 | 13 532 | 8 557 | 13 372 |
| Livestock and livestock products sold..... \$1,000..... | 559 352 | 13 407 | 368 223 | 543 590 | 10 885 | 351 971 |
| Average per farm..... dollars..... | 9 836 | 1 934 | 6 987 | 14 147 | 3 679 | 11 104 |
| Poultry and poultry products sold..... \$1,000..... | 214 635 | 2 905 | 146 023 | 214 363 | 2 844 | 145 693 |
| Average per farm..... dollars..... | 3 774 | 419 | 2 771 | 5 579 | 961 | 4 596 |
| Farms by value of agricultural products sold: | | | | | | |
| Less than \$2,500..... number..... | 18 406 | 3 974 | 21 495 | - | - | 537 |
| \$2,500 to \$9,999..... number..... | 19 996 | 2 003 | 16 209 | 19 996 | 2 003 | 16 209 |
| \$10,000 to \$39,999..... number..... | 11 552 | 697 | 9 634 | 11 552 | 697 | 9 634 |
| \$40,000 to \$99,999..... number..... | 4 033 | 259 | 3 420 | 4 033 | 259 | 3 420 |
| \$100,000 to \$199,999..... number..... | 1 804 | - | 1 264 | 1 804 | - | 1 264 |
| \$200,000 or more..... number..... | 1 039 | - | 633 | 1 039 | - | 633 |
| Abnormal farms..... number..... | 39 | (X) | 44 | (X) | (X) | (X) |
| Value of agricultural products sold by farms having sales of- | | | | | | |
| Less than \$2,500..... \$1,000..... | 22 708 | 3 859 | 25 441 | - | - | 719 |
| \$2,500 to \$9,999..... \$1,000..... | 103 619 | 9 097 | 86 159 | 103 619 | 9 097 | 86 159 |
| \$10,000 to \$39,999..... \$1,000..... | 228 108 | 14 938 | 189 139 | 228 108 | 14 938 | 189 139 |
| \$40,000 to \$99,999..... \$1,000..... | 255 910 | 15 014 | 213 423 | 255 910 | 15 014 | 213 423 |
| \$100,000 to \$199,999..... \$1,000..... | 248 199 | - | 172 502 | 248 199 | - | 172 502 |
| \$200,000 or more..... \$1,000..... | 442 053 | - | 268 543 | 442 053 | - | 268 543 |
| Abnormal farms..... \$1,000..... | 3 567 | (X) | 4 481 | (X) | (X) | (X) |
| Farm production expenses for selected items:² | | | | | | |
| Feed for livestock and poultry..... \$1,000..... | 246 035 | 7 342 | 181 081 | 239 816 | 5 674 | 174 569 |
| Seeds, bulbs, plants, and trees..... \$1,000..... | 31 267 | 1 248 | 19 672 | 30 408 | 1 113 | 18 967 |
| Commercial fertilizer..... \$1,000..... | 96 438 | 2 475 | 80 091 | 92 377 | 2 072 | 75 914 |
| Other agricultural chemicals..... \$1,000..... | 36 802 | 1 233 | 22 243 | 35 625 | 1 098 | 21 739 |
| Petroleum products—gasoline, diesel, etc..... \$1,000..... | 63 215 | 2 871 | 38 960 | 59 357 | 2 363 | 35 751 |
| Hired farm labor..... \$1,000..... | 106 395 | 2 890 | 69 582 | 102 293 | 2 596 | 67 085 |
| Livestock and poultry inventory: | | | | | | |
| Cattle and calves..... number..... | 1 500 168 | 45 126 | 1 703 583 | 1 361 202 | 21 381 | 1 444 076 |
| Hogs and pigs..... number..... | 568 270 | 30 858 | 502 033 | 537 312 | 22 972 | 473 418 |
| Sheep and lambs..... number..... | 149 177 | 3 926 | 176 356 | 138 267 | 3 708 | 154 164 |
| Chickens 3 months old or older..... number..... | 4 809 555 | 57 846 | 5 131 750 | 4 705 331 | 20 870 | 5 018 268 |
| Crops harvested: | | | | | | |
| Corn for all purposes..... acres..... | 856 470 | 19 520 | 750 147 | 829 367 | 16 520 | 716 695 |
| Soybeans for beans..... acres..... | 486 515 | 12 228 | 421 462 | 477 884 | 11 502 | 412 556 |
| Tobacco..... bushels..... | 13 340 132 | 325 104 | 10 011 420 | 13 172 016 | 300 744 | 9 849 739 |
| acres..... | 76 021 | 5 093 | 67 308 | 72 762 | 4 637 | 63 618 |
| Hay crops..... pounds..... | 140 624 284 | 9 102 062 | 122 370 907 | 135 586 615 | 8 293 892 | 116 350 651 |
| acres..... | 979 871 | 69 721 | 787 434 | 842 820 | 54 774 | 632 178 |
| tons, dry..... | 1 603 541 | 68 313 | 1 403 313 | 1 452 419 | 52 669 | 1 186 599 |

¹Not fully comparable because of direct enumeration sample in 1978 totals; see text.
²1978 data are based on a sample of farms; see text.

VIRGINIA

INDEPENDENT CITIES

- | | |
|---------------------|--------------------|
| 1. ALEXANDRIA | 22. MANASSAS |
| 2. BEDFORD | 23. MANASSAS PARK |
| 3. BRISTOL | 24. MARTINSVILLE |
| 4. BUENA VISTA | 25. NEWPORT NEWS |
| 5. CHARLOTTESVILLE | 26. NORFOLK |
| 6. CHESAPEAKE | 27. NORTON |
| 7. CLIFTON FORGE | 28. PETERSBURG |
| 8. COLONIAL HEIGHTS | 29. POQUOSON |
| 9. COVINGTON | 30. PORTSMOUTH |
| 10. DANVILLE | 31. RADFORD |
| 11. EMPORIA | 32. RICHMOND |
| 12. FAIRFAX | 33. ROANOKE |
| 13. FALLS CHURCH | 34. SALEM |
| 14. FRANKLIN | 35. SOUTH BOSTON |
| 15. FREDERICKSBURG | 36. STAUNTON |
| 16. GALAX | 37. SUFFOLK |
| 17. HAMPTON | 38. VIRGINIA BEACH |
| 18. HARRISONBURG | 39. WAYNESBORO |
| 19. HOPEWELL | 40. WILLIAMSBURG |
| 20. LEXINGTON | 41. WINCHESTER |
| 21. LYNCHBURG | |



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