1964 "AGRICULTURE

FARMS
FARM CHARACTERISTICS
LIVESTOCK AND PRODUCTS
CROPS
FRUITS
VALUES



VOLUME II CHAPTER 10

Type of Farm

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BUREAU OF THE CENSUS

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Volume II—Chapter 10

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Chapter 10. Type of Farm

Introduction—The information in this chapter is for 1964 only, except for the limited information for the earlier censuses presented in the text. The data for the 1964 census show characteristics of farms and farm operators, by type of farm, for the farms that were classified as "commercial."

United States agriculture is exceedingly heterogeneous. Farm operators and their families obtain their income by producing a large variety of farm products under a very large variety of conditions of soil, climate, resource combinations, management, etc., as well as from sources other than the farm operated. The organization of farms according to size of farm, methods of production, type of farming, productivity, use of resources, and combination of resources, vary greatly.

The purpose of a classification of farms by type is to show (a) the kinds of farms in the various parts of the Nation; (b) the variation in the use of resources, production, value of farm products sold, and combinations of resources among farms of various types; and (c) the characteristics of the operators for the different types of farms. The classification of farms by type groups together farms having a relatively high degree of uniformity in the kinds and amounts (or proportions) of crops and livestock products and in the practices followed in production. This kind of classification shows the degree of agricultural specialization and the pattern of agricultural production. Census data, thus classified, provide a basis for the study and analysis of agricultural problems, such as those relating to the development of land-use programs, farm-adjustment programs and plans, soil-conservation programs, and problems dealing with the production and marketing of agricultural commodities. The data are also of value to those who provide products for production purposes and services for farms and farm people.

Information for farms grouped by other classifications supplement the data provided by the type-offarm classification. These classifications include size of farm (as measured by total acres in the farm) which is reported in chapter 3; tenure of farm operator, reported in chapter 8; and economic class of farm, reported in chapter 6.

Source of datα—The data presented in this chapter are from the 1964 Census of Agriculture. Detailed comparable figures are not given for the prior censuses because of space limitations.

Data presented for characteristics of persons in farm operator's household, specified equipment and facilities, hired workers, use of agricultural chemicals, use of commercial fertilizer and lime, farm expenditures, and value of farmland and buildings are estimates for all farms made on the basis of reports for a sample comprising (1) all farms of 1,000 acres or more, (2) farms of less than 1,000 acres and with a value of farm products sold of \$100,000 or more, and (3) one-fifth of the remaining farms. A description of the sample and procedures for making the estimates, as well as a statement of the reliability of the estimates, are given in the introduction of this volume.

Presentation of statistics—Most of the statistics are presented only for the 1964 census for the United States. Data for each type of farm appear for each State in

State table 22 and for each important type of farm in the State, by economic class of farm, in State table 21 in volume I of the reports for the 1964 Census of Agriculture. Comparable data for the United States for the 1959 census are given in chapter 11, volume II, and comparable data by States are given in State tables 18 and 19 of volume I, of the reports for the 1959 Census of Agriculture.

Farms classified by type—In making the classification of farms by type for the 1964 census, the farms were classified or divided into two groups, "commercial farms" and "other farms."

Commercial farms comprise those, except abnormal farms, with (1) a total value of sales of farm products of \$2,500 or more in 1964 plus (2) those with a total value of sales of farm products of \$50 to \$2,499, provided the operator of the farm was under 65 years of age, and worked off the farm less than 100 days during the year. Reference should be made to Chapter 6, "Value of Farm Products Sold and Economic Class of Farm," for a more complete description of commercial farms and other farms.

Other farms comprise part-time, part-retirement, and abnormal farms.

Basis of classification by type—The classification of commercial farms by type was made on the basis of the relationship of the value of sales from one source, or a number of sources, to the total value of sales of all farm products sold from the farm. The value of sales of farm products was obtained by adding the value for all products sold from the farm. The value of sales for a part of the products was reported on the agriculture questionnaire as obtained from the operator during the enumeration. For the remaining products with sales, the quantity sold or produced was obtained during enumeration. The value of sales for these products was obtained by multiplying the quantity sold by State average prices. (For methods used in calculating value of farm products sold, see Chapter 6, "Value of Farm Products Sold and Economic Class of Farm.") In cases such as cotton or tobacco farms, the type was determined on the basis of sales from an individual source. In cases such as dairy or fruit and nut farms, it was determined on the basis of sales from closely related products. In other cases such as cash-grain farms, the type was determined on the basis of sales from a broader group of products (corn, sorghums, all small grains, dry field seed beans and peas, soybeans, and cowpeas). In order for a farm to be classified as a particular type, the value of sales from a product or a group of products had to represent 50 percent or more of the total value of sales of farm products.

The use of value of farm products sold for classifying farms by type—The value of sales of farm products has been used for several censuses as a basis for making a classification of farms by type. It provides a common denominator for relating the importance of the enterprises on the farm. In general, it reflects the physical resources and productivity of the farm. However, the use of income data has some limitations in making a type classification of farms. These limitations relate to farms where crop failure curtailed production during a year, to farms where livestock or other inventories were expanding or contracting at a

rate greater than the usual annual rate for the farm, and to farms on which a considerable part of the products sold is represented by purchased items. (For example, a farm with purchased feeder cattle may be classified as a livestock farm even though the net income from crops may exceed the net income from livestock.)

Changes in prices of several farm products at different rates or an increase or decrease in prices for products or groups of products directly related to type of farm, may cause a farm to be classified differently from one census to another. This is especially true for farms on which more than one

product or group of products supply important sources of sales. However, for farms on which one product provides a large part or the major part of the total sales, changes in prices will have little or no influence in classifying the farm by type.

Comparability of type-of-farm classification for various censuses—Farms have been classified by type of farm for seven censuses starting with the 1930 census. The criteria used for classifying farms by type have not been uniform. Table 1 presents a general description of the criteria used for determining the various types of farm for each census since 1930.

Table 1. Criteria Used for Classification of Farms by Type: Censuses of 1964, 1959, 1954, 1950, 1945, 1940, and 1930

Type of farm	1964 and 1959	1954	1950	1945	1940	1930
Cash-grain farms	Combined sales of corn, sorghums (except for sirup), small grains, dry field and seed beans and peas, soybeans for beans, cowpeas for peas accounted for 60 percent or more of total sales.	Same as 1959	Combined sales of corn, sorghums (except for strup), small grains and grain straw, dry field and seed beans and peas, soybeans, cowpeas, and velvetbeans accounted for 50 percent or more of total sales.	Included with field-crop farms.	Included with field-erop farms.	Combined value of corn, sorghums (except for strup), and small grains available for sale accounted for 40 percent or more of the total value of farm products sold and used by operator's family.
Tobacco farms	Sales of tobacco account- ed for 50 percent or more of total sales.	Included with other field-crop farms.	Included with other field-crop farms.	Included with field-crop farms.	Included with field-crop farms.	Included with field-crop farms.
Cotton farms	Sales of cotton (lint and seed) accounted for 50 percent or more of total sales.	Same as 1959.	Same as 1959.	Included with field-crop farms.	Included with field-crop farms.	Value of cotton (lint and seed) accounted for 40 percent or more of the total value of farm products sold and used by operator's family.
Other field-crop farms. (Field- crop farms 1945, 1940, and 1930).	Combined sales of pea- nuts, Irish potatoes, sweetpotatoes, sugar- cane for sugar and for sirup, sweet sorghums for sirup, broomcorn, popcorn, sugar beets for sugar, mint, hops, and sugar beet seed ac- counted for 50 percent or more of total sales.	Combined sales of pea- nuts, Irish potatoes, sweetpotatoes, tobac- co, sugarcane for sugar- and for sirup, sweet sorghums for sirup, broomcorn, popconn, sugar beets for sugar- mint, hops, and sugar- beet seed accounted for 50 percent or more of total sales.	Combined sales of peanuts, Irish potatoes, sweetpotatoes, tobacco, sugarcane for sugar and for sirup, sweet sorghums for sirup, sugar beets for sugar, and other miscellaneous crops accounted for 50 percent or more of total sales.	Combined sales of all crops except vege- tables, berries, fruits, nuts, and hortcultur- al specialties account- ed for 50 percent or more of total sales.	Combined sales of all crops except vegetables, berries, fruits, nuts, and horticultural specialities greater than any one of the other seven groups of farm products sold or the value of products of the farm used by farm households.	Combined value of sweet sorghums for sirup, sugarcane, sugar beets, maple sirup and sugar, soybeans, cowpeas, velvetbeans, dry field seed beans and peas, tobacco, hay, peanuts, Irish potatoes, sweetpotatoes, mushrooms, hops, broomcorn, and other field crops available for sale accounted for 40 percent or more of the total value of farm products sold and used by operator's family.
Vegetable farms	Sales of vegetables ac- counted for 50 percent or more of total sales.	Same as 1959.	Same as 1959.	Same as 1959.	Sales of vegetables greater than any one of the other seven groups of farm products sold or the value of prod- ucts of farm used by farm households.	Value of vegetables sold accounted for 40 per- cent or more of the total value of farm products sold and used by operator's family (called "truck farms").
Fruit-and-nut farms.	Combined sales of berries, and other small friuts, grapes, tree fruits, and nuts accounted for 50 percent or more of total sales.	Same as 1959.	Same as 1959.	Same as 1959.	Sales of berries, fruits, and nuts greater than any one of the other seven groups of farm products sold or the value of products of the farm used by farm households.	Value of berries, fruits, and nuts available for sale accounted for 40 percent or more of the total value of farm products sold and used by operator's family.
Poultry farms	Sales of chickens, chicken eggs, and all other poultry and poultry products accounted for 50 percent or more of total sales.	Same as 1959.	Same as 1959.	Sales of poultry and poultry products (in- cluding baby chicks) accounted for 50 per- cent or more of total sales.	Sales of poultry and poultry products (in- cluding baby chicks) greater than any one of the other seven groups of farm prod- ucts sold or the value of products of the farm used by farm house- holds.	Value of poultry and poultry products available for sale accounted for 40 percent or more of the total value of farm products sold and used by operator's family.
Dairy farms	Sales of milk and cream accounted for 50 per- cent or more of total sales. Also farms with 30 percent or more of total sales from milk and cream; pro- vided one-half of the cows were milk cows and the addition of sales of cattle and calves to the sales of milk and cream accounted for 50 percent or more of total sales.	Same as 1959.	Same as 1959.	Sales of dairy products accounted for 80 per- cent or more of total sales.	Sales of dairy products greater than any one of the other seven groups of farm products sold or the value of products of the farm used by farm households.	Value of dairy products available for sale, to-gether with sales of dairy cattle and calves, accounted for 40 percent or more of the total value of farm products sold and used by operator's family.

Table 1. Criteria Used for Classification of Farms by Type: Censuses of 1964, 1959, 1954, 1950, 1945, 1940, and 1930 Continued

Type of farm	1964 and 1959	1954	1950	1945	1940	1930
Livestock farms other than poultry and dairy.	Sales of cattle, calves, hogs, sheep, goats, wool, and mohair accounted for 50 percent or more of total sales. Livestock ranches were classified separately in the 17 Western States, Florida, Louisiana, Hawaii, and Alaska.	Sales of cattle, calves, hogs, sheep, goats, wool, and mohair accounted for 50 percent or more of total sales.	Sales of livestock and livestock products (other than dairy products, poultry products, horses and mules sold alive, and bees and honey) accounted for 50 percent or more of total sales.	Sales of all livestock and livestock products, other dairy products and poultry and poultry products accounted for 50 percent or more of total sales. (Horses, mules, fur animals, and bees included.)	Sales of livestock other than poultry, bees, and fur animals greater than any one of the other seven groups of farm products sold or the value of products of the farm used by farm households. (Horses and mules included.)	Value of all classes of meat animals, such as heef cattle, sheep, and hogs; also wool, mohair, and slaughtered animals; accounted for 40 percent or more of the total value of farm products sold and used by operator's family. These were divided into two groups: (a) Animal specialty, and (b) stook ranches, depending upon the ratio of cropacreage to pasture acreage. Livestock dealers and feedlot farms were separated. (See below.)
Livestock ranches	Sales of cattle, calves, hogs, sheep, goats, wool, and mohair accounted for 50 percent or more of total sales; provided the pastureland or grazing land amounted to 100 or more acres and was 10 or more times the acreage of cropland harvested. (For the 17 Western States, Florida, Louisiana, Alaska, and Hawaii.)	Included with livestock farms other than poultry and dairy.	Included with livestock farms other than poultry and dairy.	Included with livestock farms other than poul- try and dairy.	Included with livestock farms other than poul- try and dairy.	Value of beef cattle, sheep, hogs, wool and mohalr, and animals slaughtered accounted for 40 percent or more of the total value of products sold and used by operator's family; provided the acreage in pasture was 5 times the acreage in crops in the Eastern States and 10 times the crop acreage in the Western States.
Other livestock products farms.	Included with livestock farms other than poultry and dairy.	Included with livestock farms other than poultry and dairy.	Included with livestock farms other than poul- try and dairy.	Included with livestock farms other than poultry and dairy.	Sales of wool, mohair, meat, hides, bees, honey, wax, and fur animals greater than any one of the other seven groups of farm products sold or the value of products of the farm used by farm households.	Included with animal specialty, stock ranch, or unclassified farms.
General farms	Sales of field seed crops, hay, and silage ac- counted for 50 percent or more of total sales; or sales from 3 or more sources and none qualified for any other type.	Same as 1959	Same as 1959.	No single sales group ac- counted for as much as 50 percent of total sales.	No general farm type. The use of the largest single of eight sources of farm products sold or the value of products of the farm used by farm household left no farms for such a type.	Value of products available for sale from each of the sales groups less than 40 percent of the total value of farm products sold and used by operator's family.
Primarily crop	Included with general farms.	Less than 50 percent of total sales from any one group of products sold; but sales of all crops accounted for 70 percent or more of total sales.	Same as 1954.	Not classified separately.		Not classified separately.
Primarily livestock.	Included with general farms	Less than 50 percent of total sales from any one group of products sold; but sales of livestock and poultry and their products accounted for 70 percent or more of total sales.	Same as 1954.	Not classified separately.		Not classified separately.
Crop-and-livestock.	Included with general farms.	Less than 50 percent of total sales from any one group of products sold; sales of all crops amounted to at least 30 percent of total sales, but less than 70 percent of total sales.	Same as 1954.	Not classified separately.		Not classified separately.
Miscellaneous farms	Included farms with 50 percent or more of total sales from (a) sales of forest products, or (b) sales of nursery and greenhouse products; or (c) sales of horses, mules, colts, ponies, and sales of fur animals.	Included farms with 50 percent or more of total sales from (a) sales of forest products; or (b) sales of nursery and greenhouse products; or (c) sales of horses, mules, colts, and ponies.	Included farms with 50 percent or more of total sales from (a) sales of forest products; or (b) sales of nursery and greenhouse products; or (c) sales of horses, mules, colts, and ponies or (d) sales of fur animals; or (e) sales of bees, wax, and honey.	Farms not classified separately, except "forest-products farms" and "horticultural-special-ty farms." Information for these two types was reported separately for the 1945 census.	Farms not classified separately; the source of value or value-of-product group with the largest value for all farm products determined the grouping of farms for this group.	This group was designated as abnormal farms. These abnormal farms. These abnormal farms were subdivided into five subtypes: (a) institution or country estate, (b) part-time, (c) boarding and lodging, (d) forest products, and (e) horse farm, feedlot, or livestock dealer. (Farms operated by a public or semi-public agency such as schools, etc., were classified as institutional farms.

Censuses of 1964, 1959, 1954, and 1950—The data by type of farm for 1964, 1959, 1954, and 1950 for farms with a value of farm products sold of less than \$2,500 are not comparable because of differences in the classification. For 1964 and 1959, farms with sales of \$50 to \$2,499 were not published by type, when (a) the operator worked off the farm 100 days or more, (b) the value of income from sources other than the farm operated exceeded the value of agricultural products sold for 1959, or (c) the farm operator was 65 years old or over. For the 1954 and 1950 censuses, all farms with sales of \$1,200 to \$2,499 were classified by type of farm. There were approximately 763,000 and 901,000 such farms in 1954 and 1950, respectively.

Data by type of farm for farms with \$2,500 or more value of products sold are comparable for the 1964, 1959, 1954, and 1950 censuses. Separate data for tobacco farms and for livestock ranches are not available for 1954 and 1950.

1945 and 1950 to 1964—The classification of farms by type for 1945 differed significantly from the classification for other years. In 1945, all farms on which the value of farm products used by farm households exceeded the value of farm products sold were not classified by type of farm. These farms (referred to as subsistence farms) totaled 1,289,206.

1940 and 1950 to 1964—The classification by type of farm used for 1940 differed significantly from the classification used for other censuses. The value of nine groups of farm products sold and the value of farm products used by the farm operator and members of his family were obtained separately and farms were classified by type on the basis of the group of farm products having the largest value. The value of the group of farm products sold which determined the type of farm could have represented as low as 12 percent of the total value of all farm products sold.

1930 and 1950 to 1964—The basis of the classification of farms by type for 1930 differed significantly from the classification used for subsequent censuses. In 1930, the value of farm products used by the farm operator and members of his family was added to the value of all farm products sold to provide a total as a basis for determining type of farm. Farms with sales from a single specified product or group of products equal to 40 percent or more of the total value of farm products sold and used by farm operators' families were classified as type of farm indicated by the source.

The classification of farms in Hawaii and Alaska have been made on essentially the same basis as for the conterminous United States. For a detailed description of the classification of farms in Hawaii and Alaska for the 1940 through the 1959 censuses, reference should be made to pages 1252 and 1253 of chapter XII of volume II of the reports for the 1959 Census of Agriculture.

For 1964, as in 1959, 1954, and 1950 the classification of farms by type was made on the basis of sales for a single year. The number and distribution of farms by type may have been influenced in areas affected by abnormal conditions of weather; disease, etc., and by shift in the relative prices of various farm products. The average price for the important farm products for each census from 1950 to 1964 is given in the following table.

Farm product	Unit	Average price, per unit (dollurs)						
		1964	1959	1954	1949			
Corn for grain. Wheat. Sorghums for grain. Oats. Barley. Soybeans for beans. Rice.	Bushel. Bushel. Bushel. Bushel. Bushel. Pushel.	1.16 1.37 1.06 0.63 0.93 2.66 0.05	1.05 1.77 0.86 0.64 0.86	1.44 2.13 1.26 0.71 1.08 2.52 0.05	1.24 1.86 0.98 0.65 1.05			
Rye Cotton and cottonseed Tobacco	Bushel Bale Pound	1.04 162.23 0.59	1.02 168.37 0.58	1.22 194.62 0.51	1.22 161.57 0.46			
Irish potatoes Sugarcane for sugar Sugar beets for sugar Peanuts for nuts	Hundredweight Ton Ton Pound	3.43 8.15 11.94 0.11	2.14 7.32 11.14 0.10	2.16 6.70 11.17 0.12	2.13 (NA) 10.82 0.10			
Eggs. Broilers. Other chickens. Whole milk. Cream.	Bozen Each Each Hundredweight Pounds of butterfat	0.34 0.49 0.47 4.25 0.59	0.32 0.53 0.52 3.97	0.36 0.70 0.80 3.76	0.42 (NA) (NA) 3.97			
Cattle excluding calves. Calves. Hogs and pigs. Sheep and lambs. Wool. Apples. Peaches.	Each. Each. Each. Each. Pound. Pound.	174.25 75.22 27.95 16.04 0.53 0.04 0.04	204.16 86.50 30.10 13.31 0.42 0.04	136.94 48.01 39.70 14.67 0.54 0.05	163.11 59.09 36.41 17.06 0.50 0.03 0.03			
Oranges	Pound	0.04	0.04	0.04	0.03			

NA Not available.

Type of farm and farm product specialization, 1964—The farms in each type-of-farm group account for a large part of the farm products or the group of farm products specified as the important source of gross sales for the type of farm. For example, fruit and nut farms accounted for 93 percent of the value of all berries, fruits and nuts sold and poultry farms for 90 percent of the value of all poultry and poultry products sold.

Type of form	All product	farm s sold	Field other fruit veget so	s and ables	Veget sc		Fruit nuts	s and sold	produc horticu spec prod	rest ets and ultural cialty lucts	Poult: poul produ soi	ıcts	De prod so		Cattl calves		live a	
	1964	1959	1964	1959	1964	1959	1964	1959	1964	1959	1964	1959	1964	1959	1964	1959	1964	1959
Total, all commercial farms	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	16.0	15.0	36.7	35.5	2.0	2.7	0.4	0.5	0.6	0.6	1.2	2.6	1.7	2.3	6.1	5.7	9.6	8.9
	3.3	3.0	8.2	7.6	0.4	0.4	0.1	0.1	0.7	0.6	0.1	0.2	0.3	0.5	0.5	0.5	0.9	1.4
	7.1	8.3	18.3	22.5	2.3	3.5	0.4	0.7	0.4	0.4	0.1	0.3	0.1	0.3	1.0	1.3	0.6	1.2
	3.7	2.7	9.5	7.2.	3.1	3.4	0.3	0.3	0.3	0.3	0.1	0.2	0.2	0.2	0.5	0.3	0.5	0.4
	2.5	2.2	0.8	0.7	74.1	71.6	1.2	1.3	0.7	0.7	(1)	0.1	(1)	0.1	0.2	0.2	0.1	0.1
	4.7	4.5	0.3	0.3	2.4	2.4	92.7	91.1	0.7	1.0	0.1	0.3	0.1	0.1	0.2	0.2	0.1	0.1
	8.5	6.8	0.6	0.6	0.5	0.6	0.5	0.8	0.6	0.7	89.9	80.1	0.6	0.6	0.7	0.6	1.2	1.0
	15.6	15.7	3.4	3.5	1.7	2.4	0.6	0.8	2.6	3.0	2.1	4.4	89.7	85.6	6.9	7.3	6.4	7.7
Livestock furms other than poultry, dairy, and livestock ranches Livestock ranches	24.1	27.4	9.4	10.9	1.6	2.8	0.6	1.1	1.6	2.5	3.3	6.5	2.9	5.2	64.6	64.3	61.2	62.7
	4.1	4.8	0.3	0.4	0.1	0.2	0.3	0.4	0.4	0.7	0.1	0.2	0.1	0.1	14.5	15.4	7.3	7.1
	7.6	7.0	12.5	10.7	11.2	9.4	2.6	2.5	3.8	3.6	3.0	5.0	4.2	5.0	4.6	4.0	7.5	8.3
	2.8	2.5	0.1	0.1	0.5	0.6	0.4	0.4	87.5	86.0	(1)	0.1	0.1	0.1	0.2	0.2	4.7	1.0

¹Less than 0.05 percent.

Farms by type, 1964—The distribution of farms by type in 1964 was as follows:

Type of farm	Number o	of farms	Percent distribution		
	1964	1959	1964	1959	
Total, commercial farms	2,165,712	2,416,017	100.0	100.	
Cash grain	404,253	398,047	18.7	16.	
Tobacco	171,384	190,057	7.9	7.	
Cotton	164,076	241,849	7.6	10.	
Other field crops	35,130	38,332	1.6	1.	
Vegetable	23,207	21,912	1.1	0.	
Fruit and nut	57,256	61,419	2.6	2.	
Poultry	82,120	103,279	3.8	4.	
Dairy	366,967	428,293	16.9	17.	
Livestock farms other than poultry, dairy, and					
livestock ranches	514,529	616,902	23.8	25.	
Livestock ranches	66,282	67,159	3.1	2.	
General	201,980	211,613	9.3	8.	
Miscellaneous	78,528	37,155	3.6	l.	

Cash-grain farms-Out of the 2.2 million commercial farms, almost one-fifth were cash-grain farms. The greatest concentration of cash-grain farms was in the Corn Belt where corn and soybeans are the principal cash-grain crops sold. In the Dakotas, Nebraska, Kansas, Oklahoma, Montana, Washington, and Oregon, wheat is the principal cash-grain crop and the cashgrain farms there were mostly wheat farms. Cashgrain farms in Arkansas, Mississippi, Louisiana, California, and on the Gulf Coast of Texas were rice farms. In some scattered areas, grain sorghums, dry field beans and peas, and small grains other than wheat and rice, were the principal source of income of the cash-grain farms, but such farms comprised a relatively small percentage of all cash-grain farms. Cash-grain farms were principally wheat farms, corn and soybean farms, or rice farms. By using data for cash-grain farms for selected areas, the importance and characteristics of commercial wheat, corn, and soybean, and rice farms can be obtained.

Commercial cash-grain farms accounted for 63 percent of the value of wheat sold, 59 percent of the value of soybeans sold, and 68 percent of the value of corn sold from commercial farms in 1964. The sales of these three crops comprised almost two-thirds of all farm products sold from cash-grain farms.

Cash-grain farms contained one-third of the cropland on commercial farms in the United States. They had 35 percent of the acreage of land from which crops were harvested and 65 percent of the land in cultivated summer fallow in 1964. They accounted for one-third of all farms having 100 acres or more of cropland harvested and almost three-fourths of the cash-grain farms had 100 acres or more of cropland harvested. The 39,000 cash-grain farms with 500 acres or more of cropland harvested are largely wheat farms.

Cash-grain farms were highly mechanized. Ninety-five percent had tractors other than garden, 66 percent had grain combines, 45 percent had corn-pickers, and 81 percent had motortrucks, in 1964. However, the degree of mechanization was much greater for the farms with \$10,000 or more value of farm products sold than for farms with less than \$10,000 value of farm products sold.

Over one-half of the cash-grain farms had a value of farm products sold of less than \$10,000. Nearly two-thirds of these farms contained less than 220 acres and more than 83 percent had less than 200 acres of cropland harvested. On more than one-fourth of these farms the income from sources other than the farm operated exceeded the value of farm products sold. Over two-fifths of the operators worked off their farms, over one-third had income from sources other than the farm operated, and more than one-fourth reported other members of the family working off the farm in 1964.

Cash-grain farms had about a third of the total acreage fertilized on commercial farms, more than one-third of the acreage of corn fertilized, and about three-fifths of the acreage of wheat and soybeans fertilized.

About one-half of all the farm products sold from cash-grain farms came from the 77,000 farms with a value of farm products sold of \$20,000 or more. These farms with \$20,000 or more sales were large farms with an average size of 957 acres and an average acreage of total cropland of 725 acres. The average value of farm products sold was \$37,421 per farm. All of these farms used hired labor and/or machine hire and the average expenditure per farm for hired labor and machine hire was \$2,825. The average expenditure for gasoline and other petroleum fuel and oil for the farm business was \$2,211. The data in the following table indicate some of the significant differences between the economic classes of cash-grain farms in 1964.

Subject	All cash-			Econom	ic class		
Subject	grain farms	Class I	Class II	Class III	Class IV	Class V	Clase VI
Percent distribution:							
Number of farmspercent	100.0	4.8	14.2	26.8	26.1	19.3	8.8
All land in farmspercent	100.0	15.8	23.3	30.3	19.5	8.7	2.4
Cropland harvestedpercent.	100.0	15.9	24.8	31.0	19.0	7.8	1.4
Total croplandpercent.	100.0	15.9	24.2	30.7	19.2	8.2	1.9
Value of land and buildingspercent	100.0	19.3	26.2	28.1	17.0	7.5	2.
Total value of all farm products soldpercent	100.0	23.9	28.3	27.9	14.0	5.2	0.1
Value of field crops other than fruits and vegetables soldpercent	100.0	25.2	28.0	27.1	13.8	5.3	0.
Acres of corn harvested for all purposespercent Bushels of corn harvested for grainpercent	100.0	13.7	28.7	31.5	17.3	7.2	1.
Acres of wheat harvestedpercent.	100.0	17.3	32.9	30.0	13.8	5.1	0.
Bushels of wheat harvestedpercent	100.0 100.0	14.3 18.0	24.1 26.6	32.1 30.9	20.2	8.0 6.4	1.:
Percent of farms with land in diversion programs:	32.4	33.1	35.7	36.5	36.6	27.1	13.6
Wheatpercent	43.4	39.1	51.0	50.0	46.3	35.8	21.
Feed grainpercent				7010		22.0	22
Average per farm:						i	
Land in farmsacres Cropland harvestedacres.	465	1,539	762	526	347	210	120
	237	790	414	275	173	96	31
Total croplandacres. Land irrigatedaores.	343	1,142	585	394	252	145	7.
Value of land and buildingsdollars	16	181	27	10	4	2	
Corn for all purposesacres	86,685	342,204	154,829	91,326	55,162	34,358	20,54
Wheat for grain	50	144	102	59	33	19	9
Oats for grainacres	70	212	119	85	55	29	10
Barley for grainacres	12 15	21	17	16	12	7	:
All hay cropsacres	18	58 30	28 25	18 23	10 17	10	:
Expenditures for— Seeds, bulbs, plants, and treesdollars	375	1,740	655	383	. 234	150	68
Fertilizer and fertilizing materialsdollars Gasoline and other petroleum fuel and oil for the farm	1,039	5,305	2,136	1,007	540	310	130
businessdollars	1,005	3,856	1,710	1,079	722	428	207
Tractors other than garden and motor tillersnumber Grain and bean combinesnumber.	2	5	3	2	2	2	.,;
Regular hired workerspersons	(1)	2 2	(1)	(1)	(1)	(1)	(1)
Percent of acreage of crops fertilized:							
Cornpercent	82.7	94.1	90.8	79.4	74.3	67.9	61.8
Wheatpercent	48.4	56.1	56.5	47.6	41.0	35.9	26.5
Percent of farms with— Grain crops sprayed or dusted for control of insects							
and diseasespercent.	17.3	35.9			[
Fertilizer usedpercent	80.6	95.5	28.4 92.1	20.2	14.2	9.7	4.1
Corn treated for control of weeds, grasses, etcpercent	34.0	40.2	50.8	85.3 41.5	77.6 31.5	73.2	63.2
Grain crops treated for control of weeds, grasses, etcpercent	17.5	31.5	21.0	21.4	17.8	22.8 10.9	9.7
Average per acre:							
Corn for grainbushels	71	89	81	68	58	50	36
Wheat for grainbushels	26	33	29	25	23	21	11
Oats for grainbushels	44	55	50	44	39	36	31
Barley for grainbushels	34	41	35 304	32	29	26	22
Fertilizer per acre of corn fertilizedpounds Fertilizer per acre of wheat fertilizedpounds	296 125	360 1 122	304 122	269 119	263 130	291 164	347 178
Percent of farms operated by—		3.0-2		-17			170
Full ownerspercent	32.5	9.8	11.0	19.4	35.2	53.2	66.0
Part ownerspercent	39,3	62.2	53.8	47.5	37.4	24.9	16.2
Managerspercent	0.4	2.0	0.6	0.3	0.2	0.1	0.1
Tenantspercent	27.8	26.1	34.6	32.8	27.3	21.7	17.7
Cashpercent	1.9	1.5	1.4	1.7	2.3	2.1	2.3
Share-cashpercent	9.8	8.8	15.4	14.0	9.3	4.8	1.4
Crop-sharepercent	11.0	11.3	11.8	11.4	11.7	10.3	8.0
Livestock-sharepercent	2.7	3.9 1.1	4.6	3.6	2.2	1.2	0.6
Other and unspecifiedpercent	1.5		1.2	1.3	1.5	1.8	2.2

¹Less than 0.05.

Tobacco farms—Tobacco farms comprised 8 percent of the 2.2 million commercial farms in 1964. Nearly all of the tobacco farms are in the South. Five States—North Carolina, South Carolina, Virginia, Kentucky, and Tennessee—had more than 90 percent of the tobacco farms. Tobacco farms accounted for more than three-fourths of the value of tobacco sold from all commercial farms in 1964. Tobacco farms had about 2 percent of the cropland in commercial farms. Tobacco accounted for one-sixth of the acreage of crops harvested on tobacco farms. Corn and hay crops comprised almost three-fifths of the acreage of all crops harvested on tobacco farms.

Tobacco farms were relatively small. More than two-thirds contained less than 100 acres and more than two-fifths contained less than 50 acres. About 88 percent had less than 50 acres of cropland harvested. More than one-third were operated by tenants, renting mostly for a share of the crop. About one-fifth of the tobacco farms were operated by nonwhite operators. Tobacco farms operated by nonwhite operators represented one-fourth of all commercial farms operated by nonwhite operators. The labor on tobacco farms was furnished largely by the farm operator and members of his family. An expenditure of \$2,500 or more for hired labor was reported for approximately 4.8 percent

of the tobacco farms, and an expenditure of less than \$500 for two-fifths of the farms. Operators of tobacco farms depended primarily upon their farm operations for the main source of income for their families. For more than 85 percent of the farm operators, the income from the sale of agricultural products exceeded the income of the farm operator and his household from sources other than the farm operated.

Tobacco farms were highly specialized. The sale of tobacco provided for 78 percent of the value of all farm products sold. There were approximately 6,800 tobacco farms with a value of farm products sold of \$20,000 or more. These were largely farms on which shadegrown and cigar types of tobacco were grown. Although these farms accounted for only 4 percent of all tobacco farms, they accounted for almost one-fifth of the value of all tobacco sold.

More than one-half of the tobacco farms had a value of farm products sold of less than \$5,000. The average value of farm products sold per farm for these farms was less than \$2,600. Almost a third of these farms were operated by tenants. There were significant differences in 1964 between economic class of tobacco farms as the data in the following table indicates.

	All tobacco	Economic class of farms							
Subject	ferms	Class I	Class II	Cless III	Class IV	Class V	Class VI		
Percent distribution:									
Number of farmspercent.	100.0	0.6	3.4	13.3	26.8	29.2	26.7		
All land in fermspercent	100.0	4.4	9.8	20.7	27.4	23.3	14.3		
Cropland harvestedpercent.	100.0	5.3	12.9	25.6	29.1	19.1	7.9		
Total croplandpercent	100.0	4.6	10.8	22.4	28.3	22.3	11.6		
Value of land and buildingspercent	100.0	5.6	12.1	25.6	28.4	18.7	9.1		
Total value of farm products soldpercent	100.0	8.2	13.6	27.6	29.0	16.2	5.3		
Value of Cield crops other than fruits and vegetables soldpercent	100.0	8.3	13.7	27.9	29.0	15.9	5.2		
Acres of tobacco harvestedpercent	100.0	5.2	11.7	26.0	30.6	19.3	7.2		
Average per farm:							_		
Land in farmsacres	. 97	732	279	150	98	77	52		
Cropland harvestedacres	24	220	91	46	26	16	-7		
Total croplandaores	45	351	143	76	48	34	20		
Land irrigatedacres	1	21	6	. 2	1	(1)	(1)		
Value of land and buildingsdollars	22,554	214,880	81,688	42,578	23,265	14,850	8,197		
Tobacco harvestedacres	4	38	15	8	.5	3	j		
Corn harvested for all purposesacres	9	83	37 8	18	10	5 5	-		
All hay cropsacres Value of all farm products solddollars	6,527	92,029	26,196	13,525	7,055	3,631	1,301		
Expenditures for—									
Seeds, bulbs, plants, and trees	79	858	300	154	81	50	25		
Fertilizer and fertilizing materialsdollars	539	7,627	2,282	1,151	572	276	111		
Gasoline and other petroleum fuel and oil for farm		i .	· 1	1 1	1				
businessdollars	427	5,269	1.710	905	461	242	88		
Regular hired workerspersons	(1)	9.	1	(1)	(1)	(1)	(1		
Income from sources other than the farm operateddollars	1,558	4,032	2,303	1,640	1,636	1,801	1,02		
Percent of farms with-		1							
Tobacco fertilizedpercent	97.8	100.0	100.0	. 100.0	100.0	100.0	92.4		
Tractors other than garden and motor tillerpercent	65.7	99.4	97.9	89.9	76.7	66.3	36.4		
Income from sources other than the farm operatedpercent	67.7	69.2	68.9	65.0	65.2	72.3	66.8		
Average per acre:							-		
Tobacco harvestedpounds	2,022	2,069	2,296	2,198	1,995	1,798	1,62		
Corn for grainbushels Fertilizer per acre of tobacco fertilizedpounds	49 1,850	2,498	56 2,001	1,914	1,779	1,679	1,723		
Percent of farms operated by-									
Full ownerspercent.	35.0	19.7	15.3	16.8	23.9	37.2	55.1		
Part owners	27.8	58.6	53.1	38.1	28.9	27.0	18.		
Managerspercent.	0.2	6.2	1.1	0.4	0.1	(1)	(1		
Tenentspercent.	36.9	15.5	30.4	44.7	47.1	35.7	25.		
Cashpercent	1.9	1.1	3.2	2.6	2.2	2.0	1.		
Share cashpercent	2.1	2.7	4.5	4.1	2.6	1.6	1.0		
Crop sharepercent	27.5	8.8	17.9	32.5	37.2	26.4	17.		
Livestock sharepercent.	2.2	3.3	2.6	3.8	2.9	1.9	0.9		
Other and unspecifiedpercent	2.6	0.3	0.6	1.6	2.3	2.5	3.8		

less than 0.05.

Cotton farms—One out of 13 commercial farms in 1964 was classified as a cotton farm. Only cash-grain; tobacco; dairy; livestock farms, other than dairy and poultry farms; and general farms exceeded the number of cotton farms. Cotton farms were located almost entirely in the South and in irrigated areas of the West. The greatest concentration was in the Mississippi Delta. Operators of cotton farms accounted for 60 percent of the farm operators growing cotton in 1964 and 75 percent of all cotton harvested. Cotton farms had 7 percent of the total cropland on commercial farms. Many of the cotton farms were small. Thirty-six percent contained less than 50 acres of land in farms and 52 percent contained less than 100 acres. Approximately three-fifths contained less than 50 acres of cropland harvested and less than one-third had 100 acres or more of cropland harvested.

More than 1 out of 4 acres of cropland harvested on cotton farms was irrigated, and 16 percent of all

irrigated land was on cotton farms. However, more than 85 percent of the irrigated land on cotton farms was on the 27,000 cotton farms with a value of farm products sold of \$20,000 or more. The same 27,000 farms produced almost two-thirds of all cotton sold in 1964.

The sale of cotton accounted for 78 percent of all crops sold, and for 74 percent of all farm products sold from cotton farms. Almost half of the cotton farms were tenant operated under a crop-share arrangement. More than 35 percent of the cotton farms were operated by nonwhite operators, and almost one-half of all commercial farms operated by nonwhite operators were cotton farms. The data in the following table show differences among economic classes of cotton farms in 1964.

	All cotton	Economic class of farm						
Subject	ferms	Class I	Cless II	Class III	Class IV	Class V	Class VI	
ercent distribution:			1	-	1			
Number of farmspercent.	100.0	7.9	8.6	12.0	17.6	25.4	28,	
All land in farmspercent	100.0	41.6	17.2	15.2	12.0	8.6	5.	
Cropland harvestedpercent	100.0	44.3	18.6	15.2	11.1	7.3	3.	
Total croplandpercent	100.0	42.7	18.4	15.7	11.7	7.7	3.	
Value of land and buildingspercent	100.0	50.2	17.7	13.5	9.3	6.0	3.	
Total value of all farm products soldpercent	100.0	55.2	16.3	11.4	8.3	6.1	2.	
Value of field crop other than fruits and vegetables soldpercent	100.0	55.6	16.4	11.3	8.1	6.0	2.	
Cotton harvestedpercent Quantity of cotton harvestedpercent	100.0	40.0 53.2	18.7 16.5	16.4 11.7	12.4	8.5 6.8	3.	
verage per farm:								
Land in farmsacres	256	1,340	514	326	175	87		
Cropland hervestedacres	126	703	273	160	79	36		
Total croplandseres	172	921	369	225	114	52		
Value of land and buildingsdollars	63,012	396,416	128,507	71,236	32,767	15,100	7,2	
Cotton harvestedacres	62	313	136	85	44	21		
Quantity harvestedbales	68	456	131	67	34	18		
Tractors other than garden and motor tillersnumber	2	6	3	2	1	1	(
Corn harvested for all purposesacres	8	19	12	11	9	7		
All hay crop harvestedecres	6	37	12	7	200	2	1,:	
Value of all farm products solddollars Land irrigatedacres	14,835	103,106 296	28,212 80	14,196 25	7,043 5	3,569 1	1,	
Expenditures for-)							
Seeds, bulbs, plants, and treesdollars	284	1,642	564	342	165	92		
Fertilizer and fertilizing materialsdollars	1,002	6,337	1,996	979	538	294		
Gasoline and other petroleum fuel and oil for the farm		6.750	2,043	1,060	496	253	ì	
businessdollars	935	5,752	2,967	1,306	546	222	l	
Hired farm labordollars	1,630	13,213	1,170	745	437	175		
Machine hire, custom and contract workdollars		4,002	2,1.0				ĺ	
Regular hired workerspersons	1	5	1	(1)	(1)	(1)	}	
Income from sources other than the farm operateddollars	1,611	3,307	2,267	1,984	1,830	1,467		
ercent of farms with-		}		84.2	84.0	89.4	,	
Cotton fertilizedpercent	89.1	96.2	90.5	56.7	55.3	52.6	1 2	
Cotton appayed or dusted for control of insects and diseasespercent	53.9	77.3	37.3	32.1	28.5	23.3	ì	
Cotton treated for control of weeds, grasses, etcpercent	25.4 67.4	50.6	98.4	96.8	84.0	61.3	1 3	
Tractors other than garden and motor tillerspercent.,	65.8	53.8	59.6	65.6	68.5	69.5	1 6	
Income from sources other than the farm operatedpercent.,	6,.0) ///		1			ŀ	
verage per acre: Cotton harvestedbales	1.1	1.5	1.0	0.8	0.8	0.9	1	
Cotton fertilizedpounds	356	345	331	321	386	435		
ercent of farms operated by—		,	13.7	17.5	22.5	26.9		
Full ownerspercent	24.9	13.2	52.8	45.1	34.2	21.1	1 3	
Part ownerspercent	30.0	59.9	0.6	0.3	0.1	(1)	1	
Management	0.4	22.9	32.9	37.1	43.2	51.9	1	
Tenantspercent	44.6	4.3	3.4	3.0	3.8	4.1	l	
Cook	3.3	4.5	5.9	6.3	3.8	2.3	1	
Shere cashpercent.	31.3	11.5	21.4	25.7	31.4	40.3	1 .	
Crop sharepercent	0.8	0.6	1.5	0.8	1.2	0.8	1	
Other and unspecifiedpercent.	3.6	1.1	1.4	2.1	2.2	1 3.8	1	

¹Less than 0.05.

Other field-crop farm;—Other field-crop farms comprised only 1.6 percent of all commercial farms in 1964 and accounted for 2.1 percent of the acreage of cropland harvested. Other field-crop farms represented different kinds of farms in the various areas. In most areas, it was possible to identify other field-crop farms with a specific crop. In Maine, New York, New Jersey, North Dakota, Minnesota, Idaho, and California they were principally potato farms; in North Carolina, Virginia, Georgia, Alabama, and Texas they were primarily peanut farms; and in Louisiana and Hawaii, they were sugarcane farms.

The characteristics of the different kinds of specialized farms included in other field-crop farms have a significant effect on the totals for the farms in the various economic classes. Other field-crop farms include 7,334 farms with sales of farm products of \$40,000 or more. These 7,334 farms accounted for almost three-fourths of the value of all farm products sold from other field-crop farms. Approximately 2,237 of these farms were large-scale potato farms

(average production of potatoes per farm reporting of 57,892 hundred-weight). These 2,237 farms accounted for more than half of the fertilizer used and approximately three-fifths of the regular hired workers and cash expenditures for hired labor on all other field-crop farms. The average amount of fertilizer used per farm reporting was 273 tons and the average expenditure for hired labor per farm reporting was \$58,508.

Almost one-fourth of the other field-crop farms had a value of farm products sold of less than \$5,000. These 8,740 farms accounted for less than 2 percent of the total value of farm products sold from other field-crop farms. They were predominantly peanut farms and almost one-third were tenant operated. The average value of farm products sold per farm was \$2,520, the average amount of fertilizer used per farm reporting was 5.2 tons, and the expenditure for hired labor per farm reporting was \$293. The data in the following table show some of the significant differences between economic classes of other field-crop farms in 1964.

	All other	Economic class of farms							
Subject	field-crop farms	Class I	Class II	Class III	Class IV	Class V	Cless VI		
Percent distribution;		1							
Number of farmspercent	100.0	20.9	17.5	19.5	17.2	14.0	10.		
All land in farmspercent	100.0	52.1	17.8	14.1	8.9	4.8	2.		
Cropland harvestedpercent.	100.0	55.3	19.1	14.0	7.2	3.3	ĩ.		
Total croplandpercent.	100.0	54.2	18.8	14.1	7.6	3.7	1.		
Value of land and buildingspercent.	100.0	61.1	16.8	11.6	6.2	3.0	1.		
Total value of all farm products soldpercent	100.0	73.7	13.5	7.7	3.4	1.4	ō		
Value of field crops other than fruits and vegetables soldpercent	100.0	74.6	13.1	7.4	3,2	1.3	ŏ		
Irish potatoes harvestedpercent.	100.0	80.1	13.1	4.8	1.4	0.4	Š		
verage per farm-	İ								
Land in farmsacres	359	897	366	259	185	125			
Cropland harvestedacres	167	443	184	120	70	39			
Total croplandacres	221	574	238	159	98	59			
Value of land and buildingsdollars	86,682	244,466	81,122	53,782	29,908	19,509	10,6		
Irish potatoes harvestedacres	27	105	21	7	2	1	(
Tractors other than garden and motor tillersnumber	3	5	3	2	2	1			
Value of all farm products solddollars	36,677	129,462	28,301	14,466	7,272	3,635	1,0		
Land irrigatedacres	74	236	77	41	14	3			
Expenditures for—	,								
Seeds, bulbs, plants, and treesdollars	1,318	4,320	1,180	592	359	186			
Fertilizer and fertilizing materialsdollars Casoline and other petroleum fuel and oil for the farm	2,902	9,529	2,633	1,302	762	371	1		
businessdollars	1,512	4,276	1,597	967	566	301	1		
Hired farm labordollars	5,584	22,660	2,886	1,163	527	201			
Machine hire, custom and contract workdollars	998	3,030	936	541	380	183			
Regular hired workerspersons	1	_6	1	(¹)	(1)	(¹)	(
Income from sources other than the farm operateddollars	2,037	2,395	2,012	1,711	2,507	2,103	1,1		
ercent of farms with—		99.6	20.0		25.3				
Fertilizer usedpercent	95.2	98.5	99.2 96.5	97.8	95.1	91.0	79		
Tractors other than garden and motor tillerspercent	88.4	98.5 59.7		94.4	89.3	80.1	50		
Income from sources other than the farm operatedpercent	65.2	59.7	63.1	64.2	66.8	71.0	72		
verage per acre: Irish potatoes harvestedhundredweight	194	205	162	140	131	128			
Fertilizer per acre fertilizedpounds	552	637	466	384	394	403	4		
ercent of farms operated by-].					
Full ownerspercent	32.8	25.6	27.1	28.9	32.1	41.0	52		
Part ownerspercent	41.0	56.0	49.2	43.8	36.5	27.5	18		
Managerspercent	1.1	4.5	0.5	0.3	0.1	(1)	, a		
Tenantspercent	25.1	13.9	23.1	27.0	31.2	31.5	28		
Cashpercent	5.5	4.6	4.2	4.3	7.7	5.7	7		
Share-cashpercent	2.8	2.0	4.2	4.2	2.8	2.1	ì		
Crop-sharepercent	11.7	4.3	10.4	12.7	16.0	16.8	1		
Livestock-sharepercent	1.3	0.8	1.6	1.6	1.9	1.3	7		
Other and unspecifiedpercent.	1.9	1.0	0.6	1.3	2.5	3.1	2		

less than 0.05.

Vegetable farms—Vegetable farms comprised about 1 percent of all commercial farms and contained less than 1 percent of the total cropland in commercial farms. However, vegetable farms accounted for 2.5 percent of the value of all farm products sold, 74.1 percent of the value of all vegetables sold in 1964, and about 56.3 percent of the total acreage of vegetables harvested for sale in 1964.

Vegetable farms were highly specialized. The sale of vegetables accounted for 83.8 percent of the value of all farm products sold, and the acreage of vegetables harvested for sale was equivalent to almost three-fourths of the acreage from which crops were harvested. Fertilizer was used on 89 percent of the farms and the acreage fertilized was equivalent to 88 percent of the acreage from which crops were harvested. The average amount of fertilizer used per acre fertilized was 825 pounds.

Vegetable farms are widely scattered with the greatest concentrations in California, Texas, Florida, New Jersey, New York, Michigan, and Wisconsin. Production of vegetables was concentrated on a relatively small number of large highly specialized farms. The 3,577 vegetable farms with a value of farm products sold of \$40,000 or more, accounted for 82 percent of the value of all vegetables sold on vegetable farms and for 60 percent of the value of all vegetables harvested for sale in the United States. More than half of the land used for crops was irrigated and the average acreage of irrigated land per farm was about 309 acres. The average value of farm products sold from these farms was \$195,000, and the average expenditure for hired labor was more than \$54,000 per farm. Data in the following table indicate differences in characteristics among economic classes in 1964.

Subject	All vegetable			Economic cla	se of farms		
audjec c	farms	Class I	Class II	Cless III	Class IV	Cless V	Class VI
Percent distribution:							
Number of farmspercent	100.0	15.4	10.6	13.3	16.1	19.3	25.
All land in farmspercent	100.0	57.8	10.7	9.5	8.0	7,5	6.
Cropland harvestedpercent	100.0	65.8	11.2	9.0	6.5	4.9	ž.
Total croplandpercent.	100.0	61.5	11.0	9.5	7.3	6.3	4.
Value of land and buildingspercent	100.0	70.3	9.3	7.5	5.6	4.5	2.
Total value of all farm products soldpercent.	100.0	81.4	8.0	5.1	3.1	1.8	0.
Value of vegetables soldpercent	100.0	82.0	7.7	4.9	3.0	1.8	o.
Acres of vegetables harvested for salepercent Expenditure for hired farm laborpercent	100.0	71.3 86.3	9.8 7.1	7.5 3.9	5.6 1.7	4.0 0.7	1. 0.
Average per farm:			İ			Ĭ	
Land in farmsacres	202	755	205	144	100	78	5
Cropland harvestedacres	105	449	111	71	42	27	i
Total croplandacres	129	513	135	92	58	42	2
Value of land and buildingsdollars	117,412	537,457	101,944	65,226	41,254	27,113	13,45
Acres of vegetables harvested for saleacres	78	360	72	44	27	16	
Tractors other than garden and motor tillersnumber	3	7	4	3	2	1	
Value of all farm products solddollars Value of all vegetables harvested for saledollars	36,946 30,943	195,015	27,959 22,680	14,026 11.340	7,040	3,513	1,00
Land irrigatedacres.	30,943	164,630 309	22,680	20	5,706 9	2,805	79
Expenditures for—							
Seeds, bulbs, plants, and treesdollars	1,090	5,112	1,006	678	338	178	6
Fertilizer and Certilizingdollars Gasoline and other petroleum fuel and oil for the Carm	2,879	14,392	2,580	1,426	634	338	12
businessdollars	1.272	5.643	1.332	794	447	277	114
Hired farm labordoliers	9,692	54,280	6,555	2,848	1,003	373	8
Machine hire, contract and custom workdollars	1,977	11,363	1,058	466	1,163	794	2
Regular hired workerspersons	3	14	2	1	(¹)	(1)	(1
Income from sources other than the farm operateddollars	2,434	2,943	1,977	2,687	2,613	3,130	1,53
Percent of tarms with-							
Fertilizer usedpercent	89.4	99.0	97.6	95.1	90.3	87.1	78.
Tractors other than garden and motor tillerspercent. Income from sources other than the farm operatedpercent.	83.1 68.8	98.5 49.7	97.7 60.7	95.6 66.6	93.0 67.1	86.7 81.3	52.1 76.1
iverage per acre:							
Value of vegetables harvested for sale per acredollars	397	457	314	257	211	174	14
Fertilizer and fertilizing materials used per acre fertilizedpound	825	917	679	663	593	483	49
erms operated by-	1 1					ľ	
Full ownerspercent	46.3	14.8	28.2	39.6	51.2	59.6	63.
Part ownerspercent	35.0	55.0	53.9	43.8	33.5	26.0	18.
Managerspercent Tenantspercent.	1.4	7.1 23.1	1.0 16.9	0.7 15.8	0.3 14.9	0.2 14.1	0.:
renemespercent	1 1/.3	22.1	10.9	17.8	14.9	14.1	LO.

¹Less than 0.05.

Fruit and nut farms—Fruit and nut farms represented 2.6 percent of all commercial farms; had 1.1 percent of the total cropland; 78.3 percent of the land in small fruits, fruit orchards, groves, vineyards, and planted nut trees; 4.7 percent of the value of all farm products sold; and 92.7 percent of all fruits and nuts sold in 1964. Fruit and nut farms were highly concentrated in a few localities. More than two-thirds of these farms were in four States—California, Florida, Michigan, and Washington.

The kinds of fruits and nuts grown in the various localities differ greatly. In western New York, apples and grapes were the principal crops; apples, cherries, peaches, grapes, pears, and berries were the principal fruits in Michigan. In Washington and northern California, there was a large variety of fruits grown separately and in combination-apples, pears, plums and prunes, cherries, grapes, walnuts, strawberries, and In southern California, citrus fruits raspberries. principally oranges and lemons; olives; grapes; walnuts; almonds; peaches; and apricots were grown separately and in combination. Oranges and grapefruit were the predominant fruits in Florida and the Rio Grande Valley of Texas. In Georgia and South Carolina, peaches were the principal fruit grown. Apples were the important fruit crop along the

Appalachian Mountains and parts of Arkansas and Missouri. Strawberries represented an important fruit crop in Arkansas and Louisiana.

Fruit and nut farms were highly specialized. The sales of fruits and nuts accounted for 94 percent of all farm products sold on fruit and nut farms. The acreage of land in fruit orchards, groves, vineyards, and planted nut trees was equivalent to 82 percent of the acreage of cropland harvested on these farms.

Approximately 16,000 large and highly specialized fruit farms accounted for more than 76 percent of the value of all fruits and nuts sold on commercial farms. These large specialized farms with a value of farm products sold of \$20,000 or more had an average acreage of more than 134 acres of land in fruit orchards, groves, vineyards, and planted nut trees. The average value of all farm products sold on these farms was \$80,759 and the average value of fruits and nuts sold was \$76,154. They had an average of 3.1 tractors other than garden per farm, an average expenditure for machine hire and hired labor of \$24,559, and used an average of 58 tons of commercial fertilizer per farm. The data in the following table indicate the differences in fruit and nut farms by economic classes in 1964.

	All fruit end			Economic cla	ss of ferms		
Subject	nut farms	Class I	Class II	Cless III	Class IV	Cless V	Cless VI
Percent distribution:							
Number of farmspercent.	100.0	14.2	14.6	19.0	20.6	19.2	12.
All land in farmspercent	100.0	53.6	13.9	12.6	9.3	6.7	3.
Cropland harvestedpercent	100.0	56.1	15.7	12.5	8.5	5.2	1.
Total croplandpercent.	100.0	52.6	15.5	13.0	9.4	6.4	3.
Value of land and buildingspercent.	100.0	57.9	14.4	11.3	8.3	5.4	2
Total value of farm products soldpercent.	100.0	67.6	14.6	9.7	5.2	2.4	0
Value of fruits and nuts soldpercent	100.0	67.7	14.6	9.7	5.2	2.4	0.
Land in bearing and nonbearing fruit orchards, groves, vineyards, and planted nut treespercent.	100.0	58.1	15.3	11.9	8.0	4.8	1.
and paulous new saccountry	20010	,,,,		11.7	0.0	4.0	
iverage per farm;							
Land in farmsacres	7.54	581	146	101	70	54	
Cropland harvestedacres	64	254	69	42	27	18	:
Total croplandacres	78	290	83	53	36	26	
Value of land and buildingsdollars Land in bearing and nonbearing fruit orchards, groves, vineyards.	143,145	574,007	143,426	86,668	55,731	41,729	30,1
and planted nut treesscres.	53	216	55	33	21	13	
Value of all farm products solddollars.	28,231	134.936	28,216	14,343	7,194	3,608	9:
Value of Cruits and nuts solddollars	26,601	127,244	26,605	13,508	6,749	3,368	85
Tractors other than garden and motor tillersnumber.	20,001	127,244	20,005	2,,00	0,749	3,300	0.
Land irrigatedacres	37	169	38	21	12	$\hat{\tau}$	
Expenditures for-			,				
Seeds, bulbs, plants, and treesdollars	302	1,287	291	190	105	72	4
Fertilizer and fertilizing materialsdollars	1.403	6,506	1,205	725	481	281	12
Gasoline and other petroleum fuel and oil for the farm	1,405	0,500	1,200	120	401	201	12
businessdollaro	794	3,103	891-	530	339	206	11
Hired farm labordollars	6,262	31,166	5,943	2,828	1,458	638	19
Machine hire, contract and custom workdollars	2,165	10,887	1,647	1,023	594	291	9
Regular hired workerspersons	1	7	1	1	(1)	(1)	(1
Income from sources other than the farm operateddollars	4,432	4,401	4,305	4,130	5.157	5,215	2,68
Percent of farms with-							
Fertilizer usedpercent.	93.4	99.8	99.6	99.3	98.5	96.9	
Tractors other than garden and motor tillerspercent.	80.4	92.9	90.0	86.2	81.2	73.8	55. 54.
Income from sources other than the farm operatedpercent.	77.3	61.9	68.7	75.5	84.5	89.2	77.
10							
Percent of farm operated by— Full ownerspercent.	75.5	49.4	65.7	75.9	22.6		45
Part ownerspercent.	15.1	29.4	23.7	16.3	82.6 11.3	86.4	87.
Managerspercent.	4.1	17.0	4.7	2.3	11.3	0.9	5.
Tenentspercent.	5.3	4.2	5.9	5.5	4.8	5.4	0. 6.

¹Less than 0.05.

Poultry farms—Poultry farms comprised 82,000 of the 2.2 million commercial farms. They had 72 percent of the chickens 4 months old and over on hand on all farms. These farms accounted for 79 percent of the chicken eggs and 90 percent of the chickens including broilers sold, and 96 percent of the value of poultry and poultry products sold from all commercial farms. More than three-fourths of the poultry farms were located east of the Mississippi River. The greatest concentration of poultry farms was in the broiler-producing areas in Georgia, Alabama, Mississippi, Arkansas, Delaware, and Maryland. Nine out of 10 poultry farms were owner operated.

The 19,000 poultry farms with sales of farm products with a value of \$40,000 or more were distinctly different from the poultry farms with a smaller value of farm products sold. The average value of farm products sold per farm of these large-scale poultry farms was \$103,000 as compared with \$15,000 of all other commercial poultry farms. These 19,000 farms accounted for 68 percent of all farm products sold by poultry farms and 62 percent of all poultry and poultry products sold from all commercial farms. The expenditures for feed on these farms were equivalent to 67 percent of the feed expenditures for all poultry

farms and 31 percent of the feed expenditures for all commercial farms. The average per farm of the various items of expenditure was:

Item	Dollars
Feed Purchase of livestock and poultry, Hired labor	. 15,416

Poultry farms also included many farms with relatively small operations. There were about 25,700 poultry farms with a value of farm products sold of less than \$10,000. These farms comprised 31 percent of all commercial poultry farms but accounted for only 4 percent of all farm products sold and 4 percent of all poultry products sold from poultry farms. More than half the operators of these small-scale poultry farms were 55 years old or over. Over two-fifths of the operators worked off their farms and almost a third worked off their farms 100 days or more. The operator and members of his household on 2 out of 5 of these farms obtained more income from sources off the farm operated than from the sale of agricultural products. Statistics in the following table provide a comparison of the characteristics and importance of poultry farms by economic class in 1964.

	All poultry			Economic cla	ss of farm		
Subject	farms	Class I	Class II	Cless III	Class IV	Class V	Class VI
Percent distribution:							
Number of fermspercent.	100.0	23.4	23.4	21.8	14.6	9.6	7.3
Land in farmspercent	100.0	40.2	23.8	17.5	9.5	5,5	3.6
Cropland harvested	100.0	41.3	25.0	17.2	9.4	5,3	1.8
Value of land and buildings	100.0	46.3	22.0	15.0	8.6	5.1	3.3
Total value of all farm products soldpercent.	100.0	67.9	18.8	9.1	3.0	1.0	0.3
Value of poultry and poultry products soldpercent	100.0	68.8	18.4	8.8	2.9	0.9	0.2
Chickens 4 months old and overpercent.	100.0	68.0	17.0	8.9	3.8	1.7	Ŏ. :
Chicken eggspercent	100.0	71.8	15.7	7.6	3.2	1.4	0.3
Turkeys and turkey fryers raisedpercent	100.0	38.1	9.2	2.1	0.5	0.1	(i)
Average per farm;	1					!	
Land in farmsacres.	116	199	118	93	76	66 [58
Value of land and buildingsdoltars	32,917	65,073	30.314	23.131	19,430	17.651	13,763
Chickens 4 months old and over	2,853	8,231	2.074	1.164	748	499	202
Total value of all farm products sold	35,540	103,002	28,481	14,737	7,427	3,661	944
Value of poultry and poultry products solddollars	33,119	97,275	26,037	13,324	6,548	3.077	775
Broilers and other meat type chickens solddollars	11,331	27,095	12,655	6,970	2,845	758	56
Chicken eggs solddollars	14,338	44,285	9,514	4.841	2,986	1,979	625
Turkeys and turkey fryers raisednumber	1,219	4,579	477	116	41	17	· · · ·
Expenditures for-	1	1					
Feed for livestock and poultrydollars	19,997	57,394	16,396	8,376	4,370	1,968	635
Purchase of livestock and poultrydollars Gasoline and other petroleum fuel and oil for the farm	5,720	15,406	5,376	2,700	1,348	546	146
busînessdollars	635	1,409	631	401	284	207	110
Hired farm labordollars	1,514	5,396	663	282	155	74	34
Regular hired workerspersons	1	2	(¹)	(¹)	(¹)	(¹)	(1)
Income from sources other than farm operateddollars	2,786	2,744	73.1	78.8	83.8	89.4	75.8
Percent of forms:	ì						
Selling only broilers and other meat type chickensfarms Selling only started pullets, turkeys, ducks, geese and other	36.5	31.9	46.0	48.1	38.2	20.0	3.1
poultry and their eggsfarms	9.0	16.1	9.8	7.0	6.0	4.2	2.1
Having only turkeys and turkey fryers raisedfarms	4.9	11.7	5.4	2.4	1.7	1.4	0.9
Income from sources other than the farm operatedfarms	76.0	66.1	74.4	77.0	83.6	88.0	79.2
Percent of farms operated by-] [1	
Full ownerspercent	78.0	69.1	75.3	80.4	83.5	86.0	86.3
Part ownerspercent	15.0	21.2	18.0	13.8	10.8	8.7	5.3
Managerspercent	1.2	3.8	0.8	0.3	0.2	0.1	0.1
Tenentspercent	5.8	5.9	5.9	5.5	5.5	5.1	8.3

less then 0.05.

Dairy farms - Dairy farms represented the second largest group of specialized farms in 1964. contained 8.6 percent of all land in commercial farms, 12.8 percent of cropland harvested, accounted for 15.6 percent of all farm products sold and 89.7 percent of all dairy products sold from all commercial farms in 1964. Dairy farms comprised only 17 percent of all commercial farms, and they had 15 percent of all regular hired workers in 1964. They were most heavily concentrated in the New England States, New York, Pennsylvania, New Jersey, Delaware, Maryland, Ohio, Illinois, Indiana, Michigan, Wisconsin, Minnesota, and along the Pacific coast. There were also concentrations of dairy farms around urban centers. In the eastern part of the country, in Ohio, northern Indiana, Illinois, and southeastern Wisconsin, and along the Pacific coast and around urban centers, dairy farms principally were those producing milk for sale as fluid milk, while in other parts of the country dairy farms were primarily those producing milk for processing into butter, cheese, and other dairy products.

There were large differences in the size of operations of dairy farms. There were 15,463 dairy farms with a value of farm products sold of \$40,000 or more. These farms accounted for 25 percent of all dairy products sold on dairy farms and 23 percent of dairy products sold from all commercial farms. About 50 percent of these farms had 100 or more milk cows. The expenditures for feed for these farms represented over 32 percent of the expenditures for feed for all dairy farms and 7 percent for the feed expenditures for all commercial farms. There were 77,000 commercial dairy farms with a value of farm products sold of less than \$5,000. Over 35 percent of these farms had fewer than 10 milk cows. They accounted for less than 4 percent of all dairy products sold from all commercial dairy farms. A comparison of the importance and characteristics of the dairy farms in the various economic classes may be obtained from the data in the following

631	All dairy						
Subject	forms	Class I	Class II	Class III	Class IV	Class V	Cless VI
Percent distribution:	1 1	1					
Number of farmspercent	100.0	4.2	14.5	32.0	28.3	16.2	4.8
All land in farmspercent	100.0	10.5	21.0	33.2	22.9	10.2	2.3
Cropland harvestedpercent	100.0	9.5	23.3	36.4	21.9	7.7	1.2
Total croplandpercent	100.0	9.9	22.4	35.2	22.2	8.7	1.7
Total pasturelandpercent	100.0	11.8	19.0	30.4	23.7	12.0	3.1
Value of land and buildingspercent	100.0	18.7	24.7	31.6	17.5	6.2	1.3
Total value of all farm products soldpercent	100.0	23.4	26.5	31.1	14.3	4.1	0.5
Value of dairy products soldpercent Value of cattle and calves soldpercent	100.0	25.3 19.9	26.3 24.6	30.4	13.7 17.1	3.9 6.1	0.4
Average per farm:		- 1	ŀ	1			
Land in farmsacres	227	564	328	236	183	143	109
Cropland harvestedacres	96	216	155	110	74	46	24
Total croplandacres	130	305	201	143	102	70	45
Total pasturelandacres	87	243	114	82	72	64	55
Hay harvestedacres	44	100	67	48	35	24	15
Value of land and buildingsdollars	42,972	188,808	73,305	42,795	26,088	16,903	11,269
Cattle and calvesnumber.	54	211	86	56	37	24	14
Milk cowsnumber	30	128	48	31	20	13	7
Value of all farm products solddollars	14,593	80,970	26,690	14,211	7,385	3,747	1,499
Value of dairy products solddollars	11,140	66,884	20,232	10,584	5,392	2,657	1,018
Value of cattle and calves solddollars Tractors other than garden and motor tillersnumber	1,469	6,954	2,493	1,440	889	551	277
Land irrigated	·2 5	42	3 8	3	2	1 2	1
Expenditures for-	[[-		1	
Feed for livestock and poultrydollars	3,309	25,160	5,733	2,755	1,409	732	411
Purchase of livestock and poultrydollars	639	4,754	1,133	518	277	160	87
Seeds, bulbs, plants, and trecsdollars	211	619	366	239	145	79	42
Fertilizer and fertilizing materialsdollars	552	2,502	1,195	550	259	129	62
Casoline and other petroleum fuel and oil for				1			
the farm businessdollars	663 k	2,096	1,063	706	490	294	174
Hired farm labordollars Machine hire, contract and custom workdollars	205	9,442	, 1,674	521 209	198 151	81	28 51
Regular hired workerspersons	(1)	3	1	(2)	(1)	(2)	(1)
Income from sources other than the farm operateddollars	1,908	2,683	1,853	1,705	1,976	2,194	1,389
Percent of farms with—							
Milking machines	89.6	98.1	97.5	97.3	92.3	76.0	37.9
Fertilizer usedpercent.	46.3	93.4	84.1 92.1	63.0	29.8	9.2	2.0
Tractors other than garden and motor tillerspercent.	94.8	81.1 96.8	95.3	88.2 97.7	77.5 95.7	63.9 91.1	43.7 71.6
Percent of farms operated by—							
Full ownerspercent	53.9	29.7	34.7	46.3	60.8	72.5	79.2
Part ownerspercent	32.7	52.3	47.2	37.4	27.9	19.7	12.9
Managerspercent	0.4	3.1	0.7	0.4	0.1	(1)	0.1
Tenantspercent	13.1	15.0	17.4	15.9	11.2	7.7	7.8
Cashpercent	4.5	8.9	6.5	4.9	3.7	2.4	3.0
Share cashpercent	2.2	1.3	2.8	2.9	2.1	0.9	0.8
Crop sharepercent	1.1	0.4	1.1	1.4	1.1	1.0	1.3
Livestock sharepercent. Other and unspecifiedpercent.	3.5 1.5	2.5	5.3	4.9	2.9	1.4	0.7
vance and ampress seattless	1.5	4.7	1.3	1.6	1.3	1.6	2.7

Less than 0.05.

Livestock farms (other than poultry and dairy farms and livestock ranches)—Livestock farms represented the largest group of commercial farms, accounting for 24 percent of all commercial farms in 1964. They contained 22 percent of land in farms and 25 percent of cropland harvested, accounted for 24 percent of all farm products sold, and 64 percent of all livestock and livestock products (except dairy and poultry products) sold from all commercial farms in 1964. Marketings from these farms represented 52 percent of all cattle and calves, 66 percent of all hogs and pigs, and 43 percent of all sheep and lambs sold from all commercial farms. While sales of all farm products averaged more than \$16,000 per farm, only 12 percent of the farms had regular hired workers.

Livestock farms were concentrated in the Corn Belt of the Middle West. The heaviest concentration occurred in Ohio, Indiana, Illinois, Iowa, northern Missouri, northeastern Kansas and Nebraska, southeastern South Dakota, and southeastern Minnesota. More than 80 percent of the income of livestock farms was from the sale of cattle, hogs, and sheep. Generally, hogs are raised on the farms from which marketed,

but cattle and sheep are obtained as feeders largely from livestock ranching and grazing areas of the West. Corn and hay were the important crops. However, considerable quantities of feed were purchased—the expenditures for feed on livestock farms accounted for 30 percent of the feed expenditures on all commercial

There were 35,000 livestock farms with a value of farm products of \$40,000 or more. These 35,000 farms accounted for a significant part of farm production not only on livestock farms but also on all farms. The value of all farm products sold from these farms was equivalent to 11 percent of the value of farm products sold from all farms and 47 percent of all farm products sold from livestock farms. These 35,000 farms included a considerable number of feedlots and the sales from such farms overstate the relative importance of these farms as producing units.

The data in the following table indicate the use of major resources and the characteristics of livestock farms with different size of operations.

	All livestock			Economic el	ass of farm		
Subject	farms	Class I	Class II	Class III	Class IV	Class V	Class VI
Percent distribution:							
Number of farmspercent	100.0	6.8	12.0	19.4	21.5	21.2	19.0
Land in farmspercent	100.0	19.8	19.2	23.9	19.0	12.0	6.1
Cropland harvestedpercent	100.0	21.4	22.8	26.4	18.2	8.7	2.5
Total croplandpercent	100.0	20.1	21.1	25.2	18.7	10.5	4.4
Total pasturelandpercent	100.0	19.7 22.6	17.8 21.1	23.1	19.4 16.7	13.1	6.9 5.9
Value of land and buildingspercent Total value of farm products soldpercent	100.0	46.8	20.6	17.1	9.6	4.7	1.1
Total value of all livestock products other than dairy	100.0	40.0	20.0	17.1	7.0	4.7	1.1
and poultry products soldpercent	100.0	50.5	19.4	15.5	8.9	4.6	1.2
Value of cattle and calves soldpercent	100.0	58.8	16.7	12.0	7.1	4.2	1.2
Value of hogs and pigs soldpercent	100.0	24.2	28.6	26.9	13.9	5.5	1.0
Acres in corn for all purposespercent	100.0	24.2	26.0	26.5	15.6	6.1	1.6
Acres in sorghums harvested for grainpercent	100.0	26.4	22.8	26.3	17.2	6.2	1.0
Acres in all hay cropspercent	100.0	17.7	18.3	25.0	21.1	13.0	4.9
Average per form;					241		
Land in farmsacres	411	1,190	656	504	364	232 54	131 18
Cropland harvestedacres	133	418 594	253 353	181 261	113 175	100	47
Total eroplandacres Total pasturelandacres	201	596	305	245	187	127	75
Land irrigatedacres	13	77	22	12	8	12/	ĺ
Value of land and buildingsdollars	58.211	194,470	100.839	67,662	44,782	30,925	18,050
Cattle and calvesnumber	74	342	109	75	53	36	19
Cows including heifers that have calvednumber	24	47	33	31	25	18	10
Hogs and pigsnumber	64	192	145	92	47	20	6
Litters farrowed, December 1, 1963 to November 30, 1964number	13	33	29	19	10	5	ı,
Cattle and calves soldnumber	60	430	84	45	30	20	8
Hogs and pigs soldnumber	103	336	233	143	73	33	9
Sheep and lambs soldnumber	18	116	23	14	10 7,222	3,590	2 946
Value of all farm products solddollars	16,122	110,577	27,650	14,170	3,286	1,938	610
Cattle and calves solddollars Hogs and pigs solddollars	9,872	85,095 10,761	13,710 7,221	6,077 4,210	1,970	780	155
Sheep and lambs solddollarsdollars	3,040	2,275	404	232	158	96	29
Expenditures for-		İ					
Feed for livestock and poultrydollars	3,125	23,744	4,744	2,411	1,230	680	300
Purchase of livestock and poultrydollars	4,783	46,919	6,685	2,252	934	497	171
Seeds, bulbs, plants, and treesdollars	220	766	427	279	169	91	36
Fertilizer and fertilizing materialsdollars	601	2,542	1,208	674	388	232	96
Gasoline and other petroleum fuel and oil for the				892	605	352	152
farm businessdollars	711 582	2,261	1,247	452	253	153	52
Hired farm labordollars	253	4,156 913	408	297	213	140	46
Machine hire, contract and costom work	2,5	,,,,		271			
Regular hired workerspersons	2,819	3,213	(1) 2,437	(¹) 2,428	2,977	3,801	2,041
Income from sources other than the farm operateddollars	2,019	3,213	2,457	2,420	2,711	3,001	2,041
Percent of farms with- Fertilizer usedpercent	67.8	87.9	86.5	78.7	68.8	62.1	42.9
Tractors other than garden and motor tillerspercent	88.5	97.8	97.9	96.9	94.4	88.2	64.3
Income from sources other than the ferm operatedpercent	78.1	68.6	71.7	74.4	78.4	86.9	79.4
Percent of farms operated by-						,	,
Full ownerspercent	53.9	24.9	28.2	38.2	54.0	69.2	79.4
Part ownerspercent	29.0	48.0 3.1	42.1 1.0	37.7 0.7	30.2 0.4	21.1	12.6
Managerspercent	0.6	24.1	28.7	23.4	15.4	9.4	7.7
Tenents	3.0	24.1	3,4	3.6	3.1	2.7	2.5
Cashpercent	5.4	8.2	11.6	9.3	5.3	1.9	0.5
Crop sharepercent.	2.0	2.3	2.8	2.6	2.2	1.4	1.0
Livestock sharepercent.	4.3	9.8	10.1	6.6	3.2	1.4	0.6
Other and unspecifiedpercent.	1.7	1.5	1.2	1.2	1.3	1.5	3.2
- Para -							

¹Less than 0.05.

Livestock ranches—The classification "livestock ranches" was used only in the 17 Western States, Florida, Louisiana, Hawaii, and Alaska. Livestock operations of this type represent those farms or ranches on which the chief emphasis is placed upon the production of livestock by grazing. The classification was not used in the remaining 29 States as livestock farms consist almost entirely of farms on which livestock products are produced primarily by the feeding of crops produced on the farm or by the feeding of purchased feed.

Livestock ranches comprised only 3 percent of all commercial farms. They contained 31 percent of the land in commercial farms, 2 percent of the cropland harvested, they had 55 percent of all land used for pasture and grazing, 15 percent of all the cattle and calves, and 45 percent of the sheep and lambs. They accounted for 4 percent of the value of all farm products sold from commercial farms, and 40 percent of the number of sheep and lambs sold in 1964. Livestock ranches are located mainly in grazing areas of the western half of the United States. Areas of concentration include the Edwards Plateau of Texas, the Flint Hills of Kansas, the Sand Hills of Nebraska, western South Dakota, western North Dakota, Montana, Wyoming, Colorado, New Mexico, Arizona, Utah, Nevada, and Florida.

Other areas of concentration were in the grazing areas of Washington, Oregon, and California.

The characteristics of the livestock ranches differ in various parts of the country. About three-fourths of the livestock ranches sold only one kind of livestock. Both cattle and sheep ranches are found in the western part of the country. Goat ranches are limited almost entirely to Texas. The livestock ranches in Florida, Louisiana, and Hawaii are cattle ranches. Livestock ranches are highly specialized. The sale of livestock and livestock products (other than dairy and poultry products) accounted for 96 percent of all farm products sold from the farms. Almost 90 percent of the livestock ranches are owner or manager operated. Only 1 out of 4 had regular hired workers.

The 5,900 large ranches, those with sales of all farm products of \$40,000 or more, accounted for a large part of the production on livestock ranches. These large-scale ranches accounted for 64 percent of the sales of livestock and livestock products (other than dairy and poultry products), 54 percent of the cattle and calves, and 60 percent of the sheep and lambs sold from livestock ranches.

The figures in the following table show some of the important characteristics of ranches of various sizes of operation.

	All livestock			Economic cla	ss of farm		
Subject	ranches	Class I	Cless II	Class III	Class IV	Class V	Class VI
Percent distribution:	1 1				1		
Number of farmspercent	100.0	8.9	10.2	15.8	21.0	25.3	18.
Land in farmspercent	100.0	45.8	18.6	15.9	10.4	6.5	2.
Cropland harvestedpercent	100.0	39.1	19.5	19.2	12.9	7.0	2.
Total croplandpercent	100.0	28.7	16.6	18.3	16.5	13.2	6.
Total pasturelandpercent	100.0	46.2	18.7	15.8	10.3	6.3	2.
Value of land and buildingspercent	100.0	38.7	16.8	16.4	13.2	10.0	4.
Total value of all farm products soldpercent	100.0	64.0	13.3	10.4	7.0	4.2	1
Value of cattle and calves soldpercent	100.0	65.5	12.4	9.8	6.9	4.3	1
Value of sheep and lambs soldpercent	100.0	66.3	16.2	10.3	4.8	2.1	0
verage per farm:		Ī			i	1	
Land in farmacres	4,571	23,438	8,316	4,618	2,269	1,167	64
Cropland harvestedacres	. 71	309	135	86	43	20	
Total croplandacres	207	664	337	240	163	108	
Total pasturelandacres	4,376	22,648	8,002	4,389	2,142	1,087	6.
Value of land and buildingsdollars	203,691	865,484	330,916	211,326	126,256	82,088	53,1
Cattle and calvesnumber	220	1,082	357	215	125	75	
Cows including heifers that have calvednumber	113	462	198	125	75	45	
Sheep and lambsnumber	159	998	304	137	51	20	
Ewes 1 year old and overnumber	116	708	. 232	104	39	14	
Cattle and calves soldnumber	140	. 855	200	113	65	37	
Sheep and lambs soldnumber	125	846 (225	98	35	13	
Value of all farm products solddollars	. 21,270	152,409	27,797	14,063	7,075	3,545	1,1
Cattle and calves solddollars	17,233	126,402	20,903	10,725	5,629	2,949	9
Sheep and lambs solddollars	1,849	13,717	2,938	1,204	420	154	:
Expenditures for-						ì	
Feed for livestock and poultrydollars	4,253	30,919	4,307	2,395	1,508	962	6
Purchase of livestock and poultrydollars	6,357	54,526	5,580	2,534	1,324	710	3
Seeds, bulbs, plants, and treesdollars	88	403	130	. 82	59	38	
Fertilizer and fertilizing materialsdollars	278	1,301	390	241	175	132	
Gasoline and other petroleum fuel and oil for the					ì		
farm businessdollars	887	3,520	1,530	1,021	612	360	1
Hired farm labordollars	1,898	12,979	3,029	1,344	590	284	11
Machine hire, contract and custom workdollars	385	1,954	602	366	223	132	
Regular hired workerspersons	1	4	1	1	(1)	(1)	(
Income from sources other than the farm operateddollars	4,034	7,383	4,067	3,727	4,023	4,448	2,1
ercent of farms with-				J	i		
Fertilizer usedpercent	28.3	36.0	30.0	27.7	28.1	28.9	23
Tractors other than garden and motor tillerspercent	75.6	85.0	82.4	80.7	77.6	73.4	63
Income from sources other than the farm operatedpercent	74.7	62.8	65.0	69.6	76.8	85.3	73
Percent of farms operated by-						. 1	
Full ownerspercent	39.3	16.9	23.7	28.7	38.7	47.5	57
Part ownerspercent	46.9	64.0	61.1	57.1	47.7	40.7	30
Managerspercent	2.9	11.6	5,5	3.3	1.7	0.9	0
Tenantspercent	10.9	7.5	9.7	11.0	11.9	10.9	1.2
Cashpercent	6.7	5.7	6.9	7.6	7.5	7.0	5
Share cashpercent	0.6	0.3	0.7	0.8	1.0	0.6	0
Crop sharepercent	0.2	0.1	0.1	0.2	0.3	0.2	0
Livestock sharepercent	0.7	0.5	0.9	1.0	0.9	0.4	ō
Other and unspecifiedpercent	2.0	1.0	1.1	1.0	2.0	2.0	ž

¹Less than 0.05.

General farms—Farms on which one source of products did not provide 50 percent or more of the total value of all farm products sold were classified as general farms. There were wide differences in the sources of value of farm products sold from general farms in various parts of the country. In some areas the sources of sales were only three or four farm products, while in other areas many farm products contributed to the sales of farm products. In the Midwest, cash grains and two or more kinds of livestock and livestock products were the principal sources of sales. In the Southern States, cotton, tobacco, peanuts, livestock, and poultry and poultry products were the principal sources of

sales. The sales of all crops including vegetables, fruits and nuts, forest products, and horticultural specialties provided 67 percent of all farm products sold in 1964 on general farms.

About 14 percent of the general farms had a total value of farm products sold of \$20,000 or more. More than two-fifths of all general farms had sales of all farm products of less then \$5,000.

As indicated by the data in the following table the use of resources and the characteristics of general farms vary widely.

Sub.jec t	All general			Economic cla	ss of farms		
Subject	faras	Class I	Class II	Class III	Class IV	Class V	Class VI
Percent distribution:							
Number of farmspercent	100.0	4.3	9.7	21.5	26.5	24.7	13.3
All land in farmspercent	100.0	17.8	15.8	24.8	22.1	14.5	5.1
Cropland hervestedpercent	100.0	18.6	18.1	27.2	21.8	11.4	2.9
Total croplandpercent	100.0	17.4	17.2	26.6	22.2	12.7	3.8
Value of land and buildingspercent	100.0	26.6	17.5	22.8	17.9	11.2	3.9
Total value of farm products soldpercent	100.0	33.6	20.3	23.2	14.7	6.9	1.3
Value of all crops soldpercent Value of all livestock, poultry and their products soldpercent	100.0	40.0 20.5	19.2 22.7	19.8 29.9	12.9 18.3	6.6 7.4	1.4
Average per farm:	1						
Lend in fermsacres	343	1,425	564	402	291	204	133
Cronland harvestedacres	146	625	270	185	120	67	32
Total croplendacres	198	789	350	245	166	102	57
Value of land and buildingsdollars	64,341	398,177	113,246	68,883	43,040	29,300	19,259
Value of all farm products solddollars	12,975	100,250	27,068	14,003	7,206	3,629	1,283
Value of all crops solddollars	8,695	90,064	17,096	8,032	4,249	2,341	910
Value of all livestock, poultry and their products solddollars	4,266	20,097	9,941	5,954	2,947	1,281	371
Tractors other than garden and motor tillersnumber	2	5	3	3	2	2	96
Land Irrigatedacres	26	298	49	20	9	5	2
Expenditures for-		!					
Seeds, bulbs, plants and treesdollars	319	2,085	623	351	207	121	56
Fertilizer and fertilizing materialsdollars	965	7,297	2,125	965	531	343	64
Gesoline and other petroleum fuel and oil for farm businessdollars	852	4,540	1,657	975	631	378	177
Hired farm labordollars	1.046	13,648	1,870	647	307	170	62
Machine hire, contract and custom workdollars	461	4,163	743	415	269	162	57
Feed for livestock and poultrydollars	970	4,633	2,212	1,317	654	334	156
Purchase of livestock and poultrydollars	846	6,522	1,903	892	437	238	84
Regular hired workerspersons	(1)	4	1	(1)	(1)	(¹)	(1)
Income from sources other than the farm operated	2,594	3,807	2,517	2,249	2,534	3,172	1,856
Percent of Carms with-			4				
Fertilizer usedpercent	80.7	97.1	94.1	0.88	81.4	75.4	61.7
Tractors other than garden and motor tillerspercent Income from sources other than the farm operatedpercent	90.9 76.3	98.6 62.4	98.4 69.5	96.8 72.5	94.2 76.9	89.0 83.5	69.9 77.5
Percent of farms operated by-						i	
Full ownerspercent	45.6	16.5	21.0	28.6	44.0	61.8	73.5
Part ownerspercent.	34.5	61.9	52.2	43.5	34.8	24.4	15.7
Managerspercent	0.6	4.3	1.1	0.5	0.3	0.2	0.2
Tenantspercent	19.4	17.2	25.7	27.3	20.9	13.6	10.6
Ceshpercent	3.1	3.0	3.0	3.4	3.1	3.0	2.8
Share cashpercent	6.1	4.9	10.7	11.1	6.6	2.6	0.6
Crop sharepercent	6.1	6.4	7.4	6.9	6.7	5.7	3.6
Livestock sharepercent	2.7	2.3	4.6	4.7	3.0	1.3	0.5
Other and unspecifiedpercent	1.4	1.0	1.0	1.1	1.4	1.3	2.5

Less than 0.05.

Miscellaneous farms—Detailed data by economic class of farm are not presented separately for miscellaneous farms. The most important group of commercial farms included in miscellaneous farms are farms producing nursery and greenhouse products. group of farms also included a considerable number of farms with no value of farm products sold in 1964, and also some farms on which the sale of forest products, or horses and mules, or mink, or other miscellaneous livestock products were the principal farm products sold. The following table presents selected data for miscellaneous commercial farms by economic class.

Forest products and horticultural specialty products provided 78 percent of the value of all farm products sold from miscellaneous farms in 1964. More than 61 percent of the miscellaneous commercial farms had 1 or more acres of cropland harvested. However, the acreage of irrigated land in miscellaneous farms was equal to more than one-fourth of the acreage of cropland harvested in 1964.

			-	Com	mercial farm	9				ther farms	
Subject	Total all farms	Total	Class I	Class II	Class III	Class IV	Cless V	Class VI	6 116,883 56,359 5 7,701,716 5,550,688 65.9 98.5 4 365,594 174,755 3 39,934 21,456 8 8,152 3,784 1 2,124 8 1,027 448 1,027 448 1,027 49 1,07 70 33 5 17 7 8 2 1 1 6,868 2,268 8 78,074 25,495 5 19,309,534 9,750,325	Abnormal	
FARMS, ACREAGE, AND VALUE											
Farmsnumber	3,157,857	78,528	5,034	4,823	6,597	8,731	10,767	42,576	116,883	56,359	254
Lend in formsacres Average size of formacres	1,110,187,000 351.6	15,490,867 197.3	2,908,574 577.8	1,454,802 301.6	1,800,197 272.9	1,984,080 227.2	1,984,699 184.3	5,358,515 125.9		5,550,688 98.5	4,208,265 16,568.0
Land in forms according to use: Cropland herwested	2,701,694 286,891,974 489,036 342,938 331,378 311,906 462,698 454,885 329,726 64,010 15,117	47,990 997,154 30,494 6,544 3,196 3,225 2,652 1,198 534 115 32	4,171 323,342 1,965 369 226 293 492 388 316 91	3,635 123,526 1,907 394 285 302 393 248 95	5,002 132,513 2,588 669 385 486 539 273 59 3	6,586 130,848 3,541 927 575 750 611 161 19	8,106 117,591 4,620 1,317 834 846 410 68 10	20,490 168,934 15,873 2,868 891 548 207 60 35 8	365,594 39,934 8,152 2,124 1,027 319 70 17 2	174,755 21,456 3,784 924 418 131 33 7	7,366 23 4 4 11 8 5 3
Irrigated land in formsfarms acres	297,387 37,056,083	9,626 258,478	2,111 122,343	1,233 26,019	1,333 22,127	1,369 18,992	1,296 13,749	2,284 55,248			32 4,263
All farm products sold	11,176	12,068	122,914	130,754,948	13,578	6,860	3,495	261	165	173	10,439,506 41,100
specialty products	879,749,901	740,484,818	511,178,083	91,822,276	61,746,036	41,829,327	26,213,376	7,695,720	11,322,013	6,622,656	7,812,763

CHANGES IN THE NUMBER OF FARMS BY TYPE

Changes in number of farms by type 1950-1964—Because of changes in the criteria for classifying farms by economic class of farm and type of farm, after the 1954 census, a direct comparison of the number of farms by type of farm for all farms cannot be made for the 1950 and 1954 censuses with the 1959 and 1964

censuses. However, comparisons can be made for farms with a value of products sold of \$2,500 or more, for farms in the 48 States comprising the conterminous United States. The following table presents comparative data for the conterminous United States for the number of farms by type of farm for the 1950, 1954, 1959, and 1964 censuses for three value-of-farm-products-sold groups.

Value of farms products sold and year	Total, all commercial farms	Cash- grain farms	Cotton farms	Tobacco farms	Other. field- erop farms	Vege- table farms	Fruit and nut farms	Poultry farms	Dairy farms	Livestock farms other than poultry, dairy, and livestock ranches	Live- stock ranches	General farms	Miscel- lenous farms
All commercial farms1964 1959	2,162,678 2,412,917		164,076 241,849	171,384 190,057	34,457 37,435	22,787 21,551	56,567 60,709	81,956 103,046	366,839 428,152	514,149 616,544	66,062 66,979	201,930 211,584	78,227 36,974
Farms with a value of farm products sold of-						,							
\$2,500 or more1964 1959 1954 1950	1,815,044 2,064,444 2,101,871 2,087,895	368,509 365,697 421,971 325,424	158,647	125,593 133,298 (1) (1)	31,700 1182,927	16,981 17,221 19,709 23,923	49,616 55,470 59,248 50,691	76,170 94,154 97,878 93,636	349,124 397,811 397,977 405,129	416,618 533,736 456,607 525,425	60,544 (²)	175,065 185,521 ² 238,590 ² 293,382	35,751 30,645 22,964 25,897
\$2,500 to \$4,9991964 1959 1954 1950	443,192 616,819 812,108 882,302	77,996 92,160 129,042 109,815	41,700 67,058 116,163 91,377	49,989 73,166 (1) (1)		4,379 4,430 6,384 9,248	10,725 12,927 16,876 18,929	7,902 17,640 27,605 34,030	59,276 97,315 153,690 179,935	109,235 156,638 143,072 176,580	16,700 19,027 (²)	49,789 61,134 ² 97,932 ² 138,940	10,701 8,843 7,122 9,131
\$5,000 to \$9,9991964 1959 1954 1950	503,996 653,150 706,852 721,211	124,559	28,828 37,961 47,013 44,972	45,969 46,357 (1) (1)	5,890 7,640 147,706 137,316	3,648 4,090 5,094 6,743	11,638 14,357 16,367 15,491	11,963 22,254 28,582 28,427	104.011 145,963 156,506 153,980	110,425 160,698 152,413 189,087	13,888 15,548 (²)	53,488 65.819 ² 87,301 ² 110,854	8,665 7,904 5,533 6,597
\$10,000 or more1964 1959 1954 1950	867,856 794,475 582,911 484,382	184,930 148,978 132,592 87,865	46,713 53,628 40,824 38,488	29,635 13,775 (¹)	20,020 17,579 120,999 117,918	8,954 8,701 8,231 7,932	27,253 28,186 26,005 16,271	56,305 54,260 41,691 31,179	185,837 154,533 87,781 71,214	196,958 216,400 161,122 159,758	23,078 25,969 (²)	71,788 58,568 253,357 243,588	16,385 13,898 10,309 10,169

¹In 1954 and 1950, tobacco farms were included with other field crop farms. ²In 1954 and 1950, livestock ranches were included with livestock farms other than poultry and dairy.

Changes in the 15-year period 1950 to 1964 had different impacts upon the several types and sizes of farms. Improved techniques to increase yields and to decrease labor requirements in farming have varied in their adaptability to different crop and livestock enterprises and to different sizes of farms. Differential rates of progress have occurred in the invention and putting into actual use farm machinery to mechanize completely the production of major cash crops and major types of livestock and poultry. Mechanization has been more feasible for farm operators on larger units and for those with agricultural land in larger tracts. Moreover, the high capital requirements and the financial and credit positions of farm operators have been important factors influencing the rate of mechanization, the adoption of new and improved practices, and the use of purchased inputs. Some crops have been benefited more than others by the development of improved or new varieties. Changes in transportation cost, in the relative increase in population in various areas, in the relative demand for various farm products, in government programs, in farm managerial requirements, in the improvement in the management of farms, and other factors have influenced significantly the number of farms by type and by value of farm products sold.

In the last 15 years, commercial farms have become fewer, but they are much larger whether size is measured in terms of value of farm products sold, acres of cropland, or acres of land in the farm. The larger farms have become more numerous and there are fewer small farms. However, there continues to exist a large number of small farms, with low production, low utilization of resources, low levels of gross income from farm operations and without recent changes in enterprise combinations, production practices, land use, use of new technology, management, or without any more land, livestock, machinery, fertilizer, or other capital items per farm than 15 years ago.

Changing conditions have had their effect upon types of farming, the kinds of farm products produced, the number of producers, and the combination of farm enterprises. Data indicate that most major farm products are now produced by fewer farms and by a small proportion of the farms. The need for efficient use of machinery and other capital equipment has brought about greater farm specialization. Increased investments in farm machinery and in improved housing and facilities for livestock and poultry have required increases in the size of livestock farm enterprises. To utilize new technology satisfactorily many farmers have found it necessary to concentrate on one or a few enterprises rather than several.

The number of commercial farms with a value of farm products sold of \$2,500 or more varied less than 2 percent for the census years 1950 to 1959. However, the number in 1964 was 12 percent less than the number in 1959 and 14 percent less than the number in 1954. The decrease of 273,000 in the number of commercial farms from 1950 to 1964, resulted largely from a decline of 58,000 in the number of cotton farms, 17,000 in the number of poultry farms, 56,000 in the number of dairy farms, 55,000 in the number of livestock farms other than poultry and dairy farms, and 118,000 in the number of general farms. The decrease in the number of these five types of farms was partially offset by an increase of 43,000 in the number of cashgrain farms. The decrease in the number of cotton, poultry, and dairy farms reflects to a large extent farm operators quitting these types of farming. The decline in the number of livestock farms other than poultry and dairy, and in the number of general farms, reflects, in part, shift of farms producing livestock to the production of cash grains, as well as the decline in the number of farm operators engaged in farming.

Type of farm	Number of all commercial All commercial farms with sales of farms of \$2,500 and more					m products
	1964	1959	1964	1959	1954	1950
Total, commercial farms	2,162,678	2,412,917	1,815,044	2,064,444	2,101,871	2,087,895
Cash grain farms. Tobacco farms Cotton farms Other field crop farms	404,244	398,037	368,509	365,697	421,971	325,424
	171,384	190,057	125,593	133,298	(1)	(1)
	164,076	241,849	117,241	158,647	204,000	174,837
	34,457	37,435	30,710	31,700	1182,927	1169,551
Vegetable farms. Fruit and nut farms. Poultry farms. Dairy farms.	22,787	21,551	16,981	17,221	19,709	23,923
	56,567	60,709	49,616	55,470	59,248	50,691
	81,956	103,046	76,170	94,154	97,878	93,636
	366,839	428,152	349,124	397,811	397,977	405,129
Livestock farms other than poultry, dairy and livestock ranches. Livestock ranches. General farms. Miscellaneous farms.	514,149	616,544	416,618	533,736	² 456,607	² 525,425
	66,062	66,979	53,666	60,544	(²)	(²)
	201,930	211,584	175,065	185,521	238,590	293,382
	78,227	36,974	35,751	30,645	22,964	25,897

¹In 1954 and 1950, tobacco ferms were included with other field crop ferms.

²In 1954 and 1950, livestock ranches were included with livestock farms other than poultry and dairy.

The number of commercial farms with a value of farm products sold of \$2,500 to \$4,999 decreased 439,000, almost 50 percent from 1950 to 1964. The number of farms of every type except miscellaneous farms, in 1964, was at least 29 percent less than in 1950. The largest proportion of decline from 1950 to 1964 occurred in the number of poultry, dairy, and general

Commercial farms with a value of farm products sold of \$5,000 to \$9,999 declined 217,000 or 30 percent from 1950 to 1964. Except for other field crop farms, including tobacco farms and miscellaneous farms, the number of farms of each type was less in 1964 than in

1950. The decrease of 50,000 in the number of dairy farms, 65,000 in the number of livestock farms other than poultry and dairy, and 57,000 in the number of general farms accounted for four-fifths of the 217,000 decrease in the number of commercial farms from 1950 to 1964.

There were 383,000 or 79 percent more commercial farms with a value of farm products sold of \$10,000 or more in 1964 than in 1950. There were more farms with a value of farm products sold of \$10,000 or more in 1964 than in 1950 for each type of farm. The number of farms with a value of farm products sold of \$10,000 or more in 1964 exceeded the number in 1959 by 97,000 for cash-grain farms, 11,000 for fruit and nut farms, 25,000 for poultry farms, 115,000 for dairy farms, 60,000 for livestock farms other than poultry and dairy, and 28,000 for general farms.

Changes in farms by type from 1959 to 1964—The total number of commercial farms in 1964 was 2,166,000 compared with 2,416,000 in 1959. The decrease of 250,000 in the number of commercial farms actually

understates the decline in the number of commercial farms, because the change between 1959 and 1964 in criteria for distinguishing between farms in economic class VI and part-time farms resulted in an overstatement of the number of class VI farms by 158,000. On the basis of the use of the same criteria for class VI and part-time farms in 1964 as in 1959, the decline in the number of commercial farms was from 2,416,000 to 2,008,000 or a decrease of more than 16 percent.

			T				Ec	onomic cl	ass of fa	rm.		****		
Subject and type of farm	To	tal	Cla	ss I	Clas	s II	Clas	s III	Class	s IV	C1	ass V	Clas	s VI
545000 and 50F2 == ====	1964	1959	1964	1959	1964	1959	1964	1959	1964	1959	1964	1959	1964	1959
Number of farms	2,165,712	2,416,017	141,914	102,099	259,898	210,402	467,096	483,004	504,614	653,881	443,913	617,677	348,272	348,954
Cash grain Tobacco Cotton. Other field crop. Vegetables. Fruit and nut	404,253	398,047	19,301	10,828	57,480	36,884	108,151	101,267	105,588	124,563	77,998	92,163	35,735	32,342
	171,384	190,057	1,000	322	5,828	1,806	22,807	11,647	45,969	46,357	49,989	73,166	45,791	56,759
	164,076	241,849	13,033	13,171	14,050	15,984	19,630	24,473	28,828	37,961	41,700	67,058	46,835	83,202
	35,130	38,332	7,334	4,011	6,133	5,389	6,866	8,533	6,057	7,910	4,909	6,673	3,831	5,811
	23,207	21,912	3,577	2,730	2,449	2,537	3,090	3,531	3,747	4,190	4,482	4,541	5,862	4,383
	57,256	61,419	8,103	6,547	8,355	8,923	10,885	12,763	11,791	14,488	10,974	13,228	7,148	5,465
Poultry Dairy Livestock farms other	82,120	103,279	19,249	11,151	19,250	18,299	17,928	24,948	11,974	22,303	7,921	17,678	5,798	8,900
	366,967	428,293	15,463	8,538	53,171	32,624	117,315	113,496	104,018	145,972	59,277	97,321	17,723	30,342
then dairy, poultry, and livestock ranches Livestock ranches General farms Miscellaneous farms	514,529	616,902	35,116	29,439	61,909	63,246	100,036	123,839	110,476	160,764	109,329	156,728	97,663	82,886
	66,282	67,159	5,921	6,757	6,766	7,815	10,462	11,475	13,933	15,603	16,767	19,068	12,433	6,441
	201,980	211,613	8,783	4,775	19,684	12,826	43,329	40,974	53,502	65,825	49,805	61,145	26,877	26,068
	78,528	37,155	5,034	3,830	4,823	4,064	6,597	6,058	8,731	7,945	10,767	8,903	42,576	6,355
Average size of farm(acres)	445.8	404.5	1905.6	2465.7	714.6	791.1	465.3	444.9	313.0	288.3	206.2	191.9	122.0	106.3
Cash grain Tobacco. Cotton. Other field crop. Vegetable. Fruit and nut.	464.9	440.9	1539.3	2155.6	761.6	906.6	525.9	509.2	347.4	338.6	210.3	219.4	126.0	147.7
	96.5	89.6	731.7	868.1	278.7	378.6	150.3	194.3	98.4	104.6	77.2	78.8	51.8	56.3
	255.8	197.9	1340.2	1238.7	513.5	488.0	325.8	305.2	175.4	171.2	87.0	86.5	47.2	47.8
	359.2	272.0	897.0	998.2	365.6	326.6	258.7	237.7	185.1	173.0	124.6	123.5	76.0	75.7
	201.5	186.9	755.0	818.7	205.0	193.0	144.3	122.1	100.3	92.3	78.1	71.3	51.6	52.2
	153.6	140.4	581.4	594.6	146.4	163.2	101.4	100.3	69.6	70.1	53.5	53.1	48.6	50.4
Poultry Dairy Livestock farms other	116.0	96.5	198.8	191.8	117.6	115.9	93.1	92.4	75.5	78.2	66.3	62.0	58.4	62.9
	227.0	208.2	564.2	639.5	328.3	360.0	235.7	241.1	183.4	192.1	142.7	148.8	108.8	116.5
than poultry, dairy, and livestock ranches Livestock ranches General farms Miscellaneous farms	410.6	385.7	1189.8	1286.0	656.0	639.3	504.4	470.0	363.8	339.3	232.2	230.2	131.3	130.2
	4,571.2	4,584.8	23,437.7	21,728.6	8,315.8	7,451.7	4,617.9	4,019.4	2,268.8	1,997.4	1,167.4	1,083.0	679.8	763.7
	348.3	281.2	1425.2	1444.8	563.6	554.1	402.4	343.9	291.0	251.9	204.3	181.7	132.5	134.3
	197.3	249.0	577.8	654.5	301.6	288.2	272.9	260.8	227.2	203.4	184.3	166.2	125.9	141.3
Average value of all farm products sold per farm.(dollars)	15,869	12,195	105,786	94,536	27,373	26,842	14,160	13,882	7,240	7,223	3,629	3,683	1,044	1,321
Cash grain	13,621	11,132	68,223	68,570	27,078	26,541	14,199	13,884	7,309	7,328	3,667	3,761	1,114	1,367
	6,527	4,623	92,029	105,530	26,196	24,346	13,525	12,890	7,055	6,703	3,631	3,565	1,301	1,393
	14,835	10,150	103,106	87,158	28,212	25,044	14,196	12,864	7,043	6,574	3,569	3,419	1,354	1,357
	36,677	21,088	129,462	112,480	28,302	27,235	14,466	14,434	7,272	7,216	3,635	3,538	1,091	1,126
	36,946	29,417	195,015	173,127	27,959	27,901	14,026	14,047	7,040	7,222	3,513	3,621	1,007	1,111
	28,231	21,661	134,936	110,492	28,216	27,791	14,343	14,666	7,194	7,729	3,608	3,992	938	1,259
Poultry Dairy Livestock farms other	35,540	19,507	103,002	81,426	28,481	27,475	14,737	14,426	. 7,427	7,460	3,661	3,847	944	1,087
	14,593	10,796	80,970	83,036	26,690	26,292	14,211	13,792	7,385	7,349	3,747	3,805	1,499	1,603
than poultry, dairy, and livestock ranches Livestock ranches General farms Miscellaneous farms	16,122 21,271 12,975 12,068	13,086 20,989 9,714 19,881	110,577 152,409 100,250 122,914	92,912 124,786 89,198 119,749	27,650 27,797 27,068 27,111	27,465 27,836 26,343 26,042	14,170 14,063 14,003 13,578	14,130 14,149 13,548 13,471	7,222 7,075 7,206 6,860	7,317 7,075 7,148 6,844	3,590 3,545 3,629 3,495	3,698 3,587 3,724 3,488	946 1,144 1,283 261	1,143 1,203 1,474 1,126
Cropland harvested (1,000 acres) total.	273,841	295,478	58,146	44,375	60,936	51,209	75,802	32,478	50,131	71,865	22,827	36,628	6,000	8,924
Cash grain Tobacco Cotton Other field crop Vegetable Fruit and nut.	95,843	96,485	15,239	10,755	23,797	17,959	29,741	30,398	18,210	24,493	7,471	10,839	1,385	2,040
	4,117	5,080	220	83	530	218	1,054	797	1,198	1,681	788	1,634	326	668
	20,691	25,219	9,166	8,937	3,838	4,559	3,144	4,112	2,288	3,242	1,509	2,729	745	1,639
	5,881	4,935	3,251	1,816	1,126	1,002	822	1,032	424	622	193	320	65	144
	2,441	2,251	1,606	1,326	273	291	221	251	159	189	120	130	64	63
	3,666	3,563	2,057	1,594	575	685	458	569	312	410	192	246	71	59
Poultry Dairy Livestock farms other	2,315	2,565	956	573	579	606	397	616	218	422	123	258	42	91
	35,244	37,042	3,332	1,674	8,215	5,097	12,845	12,692	7,725	11,466	2,698	5,175	430	938
than poultry, dairy, and livestock ranches Livestock ranches General farms Miscellaneous farms	68,492 4,681 29,473 997	84,380 4,713 28,451 794	14,676 1,831 5,488 323	12,395 1,990 2,969 264	15,646 913 5,322 124	16,175 943 3,569 106	18,070 898 8,018 133	23,414 850 7,625 122	12,424 605 6,437 131	20,109 576 8,527 127	5,931 328 3,355 118	10,115 297 4,761 123	1,744 107 853 169	2,172 57 1,001 52

The decreases in the number of farms by type as shown by the published data and as adjusted to make the

criteria for class VI and part-time farms for 1964 the same as the criteria for 1959 are as follows:

	Number of fa		Decrease in number of farms 1959 to 1964 (1,000)				
Type of farm	As indicated by published data	As adjusted to make 1964 comparable with 1959	As indicated by published data	As adjusted to make 1964 comparable with 1959			
Total, all commercial							
farms	2,166	2,009	250	408			
Cash grain	404	388	+6	1.0			
Tobacco	171	153	19	32			
Cotton	164	153	78	88			
Other-field crop	35	34	3	5			
Vegetable	23	21	+1	1			
Fruit and nut	57	53	4	8			
Poultry	82	79	21	24			
Dairy	367	361	61	67			
Livestock other than poultry, dairy, and live-							
stock ranches	51.5	460	102	157			
Livestock ranches	66	60	1	7			
General	202	190	10	21			
Miscellaneous	79	50	+41	+13			

The data in the following table indicate significant decreases in the number of cotton farms, poultry farms, dairy farms, and livestock farms other than poultry, dairy, and livestock ranches. The decrease in the number of farms of these four types of farm groups accounted for approximately all the decline in the number of commercial farms from 1959 to 1964. If the criteria for part-time farms and class VI farms used in 1959 are applied to the 1964 census, then the decline in the number of commercial farms from 1959 to 1964 would have been approximately 408,000. Again, the decrease in cotton farms, poultry farms, dairy farms, and livestock farms other than poultry, dairy, and livestock ranches would have accounted for 83 percent of the decrease in the number of commercial farms. The decline in the number of farms of these types has accompanied the decrease in the number of farms producing the products which determine these types of farms as indicated by the following data.

All farms	Farms producing (1,000)			
	1964	1959		
Cotton	324 527 545 1,991 803	510 1,068 770 2,304 1,273		

The number of cash grain farms with a value of farm products sold of \$2,500 or more in 1964 exceeded the number in 1950 by 43,000; most of this increase resulted from the shift of livestock farms other than poultry and dairy farms and general farms to cash grain farms because of changes in relative prices of cash grain crops and livestock and livestock products, shifts in the relative importance of cash grain and livestock and livestock products on individual farms, and because of the increasing specialization in farm production. The number of cash-grain farms with a value of farm products sold of \$2,500 to \$9,999 declined 54,000 or 23 percent from 1950 to 1964, while the number of cash-grain farms with a value of farm products sold of \$10,000 or more increased 97,000 or 110 percent during the same period. During the 15-year period, the operators of many cash grain farms moved from the group of farm operators with a value of farm products sold of less than \$10,000 to the group of farm operators with a value of farm products sold of \$10,000

or more, by increasing the size of their farm and by obtaining high yields and greater production through the use of new and improved varieties, more fertilizer, and improved cultural practices.

From 1950 to 1964, the number of cotton farms with a value of farm products sold of \$2,500 or more decreased 58,000 or one-third. This change resulted largely from the decrease in the number of farms growing cotton. The number of cotton farms with a value of farm products sold of \$2,500 to \$9,999 declined 66,000 from 1950 to 1964, while the number of cotton farms with a value of farm products sold of \$10,000 and over increased 8,000 or 21 percent during the same period.

The number of tobacco and other field crop farms with a value of farm products of \$2,500 or more declined 8 percent from 1950 to 1964. However, the number of tobacco and other field crop farms with a value of farm products sold of \$2,500 to \$4,999 declined more than 50 percent, while the number of these farms with a value of farm products sold of \$5,000 to \$9,999 increased 15,000 or 39 percent, and the number of farms with a value of \$10,000 or more of farm products sold more than doubled from 1950 to 1964.

The number of vegetable farms with a value of farm products sold of \$2,500 or more decreased 7,000 or one-third from 1950 to 1964. This decrease was a result of the decrease in the number of vegetable farms with a value of farm products sold of less than \$10,000. Vegetable farms with a value of farm products sold of \$10,000 or more increased 1,000 or 13 percent from 1950 to 1964.

There was very little change in the number of fruit and nut farms with a value of farm products sold of \$2,500 or more from 1950 to 1964. However, an increase of 11,000 or 67 percent of the number of fruit and nut farms with a value of farm products sold of \$10,000 or more was offset by a decrease in the number of farms with a value of farm products sold of less than \$10,000.

The number of poultry farms with a value of farm products sold of \$2,500 or more declined 17,000 or 19 percent from 1950 to 1964. More than 42,000 or 68 percent of the poultry farms with a value of farm products sold of less then \$10,000 either disappeared

or shifted to the group of poultry farms with a value of farm products sold of \$10,000 or more in the 15year period. There were almost twice as many poultry farms with a value of farm products sold of \$10,000 or more in 1964 as in 1950.

Over 56,000 dairy farms with a value of farm products sold of \$2,500 or more disappeared from 1950 to 1964. The number of dairy farms with a value of farm products sold of \$10,000 or more increased more

than 2 1/2 times from 1950 to 1964 as dairy farm operators enlarged their farming operations.

There was a decline of 55,000 or 10 percent in the number of livestock farms other than poultry and dairy farms and livestock ranches from 1950 to 1964. The number of farms of these types with a value of farm products sold of \$10,000 or more increased 60,000 from 1950 to 1964, as the level of agricultural production increased significantly on many livestock farms.

	Land in farms by type of farm (1,000 acres)												
Value of farm products sold and year	All com- merical farms	Cash- grain farms	Tobacco farms	Cotton farms	Other field- crop farms	Vege- table farms	Fruit and nut farms	Poultry farms	Dairy farms	Livestock farms other than poultry, dairy, and livestock ranches	Live- stock ranches	General farms	Miscel- laneous farms
All commercial farms1964	961,482		16,539	41,972	11,869	4,669	8,775	9,520	83,222	211,202	300,409	70,044	15,316
1959	974,172		17,033	47,866	9,607	4,086	8,606	9,962	89,097	237,919	305,736	59,493	9,244
Farms with a value of farm products sold of— \$2,500 or more	919,436	183,444	14,169	39,760	11,579	4,367	8,430	9,184	81,299	198,385	292,342	66,485	9,992
	937,158	170,746	13,838	43,885	9,167	3,857	8,336	9,403	85,563	227,104	300,920	55,993	8,347
	885,036	186,535	(1)	46,151	¹ 22,306	4,007	8,787	9,023	79,544	449,224	(²)	² 71,380	8,078
\$2,500 to \$4,9991964	91,023	16,401	3,860	3,627	610	349	583	525	8,459	25,382	19,441	9,871	1,914
1959	118,470	20,222	5,764	5,801	822	322	698	1,096	14,479	36,080	20,597	11,110	1,479
1954	163,242	33,565	(¹)	11,536	19,021	498	908	1,896	23,437	59,761	(²)	20,992	1,628
\$5,000 to \$9,9991964	157,756	36,677	4,525	5,056	1,117	374	818	904	19,076	40,190	31,466	15,569	1,983
1959	188,403	42,179	4,847	6,499	1,363	385	1,013	1,744	26,585	54,537	31,056	16,581	1,616
1954	220,525	58,280	(¹)	9,249	15,910	500	1,188	2,278	29,637	87,792	(²)	² 24,161	1,530
\$10,000 or more1964	670,657	130,365	5,784	31,077	9,853	3,644	7,028	7,755	53,764	132,813	241,434	41,045	6,095
1959	630,286	108,345	3,227	31,585	6,983	3,151	6,624	6,563	44,499	136,487	249,267	28,303	5,253
1954	501,268	94,690	(¹)	25,366	1 _{7,374}	3,010	6,691	4,849	26,471	301,671	(²)	² 26,228	4,920

¹In 1954, tobacco farms were included with other field crop farms. ²In 1954, livestock ranches were included with livestock farms other than poultry and dairy.