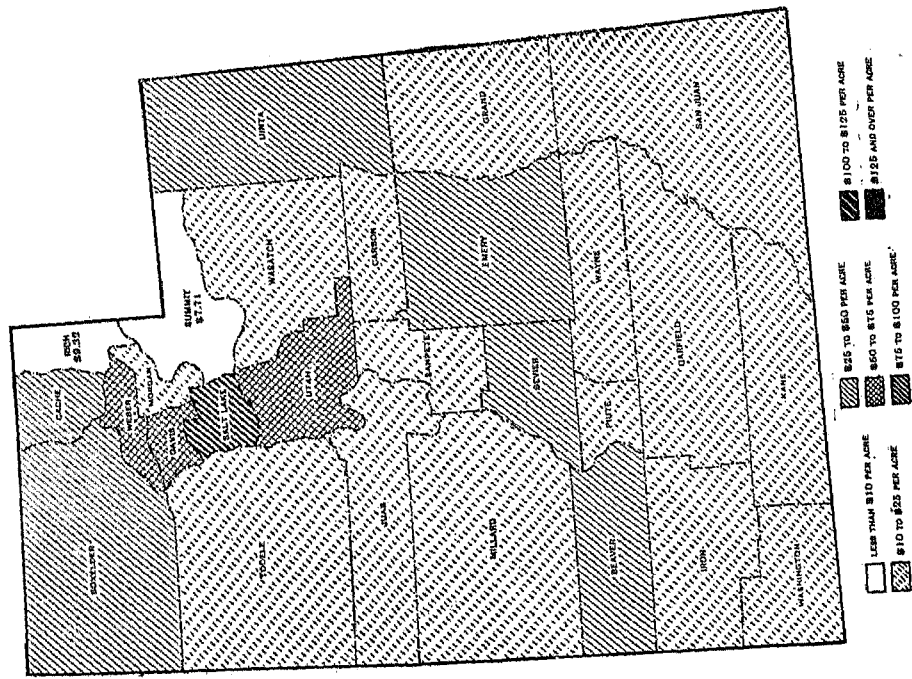


PER CENT OF LAND AREA IN FARMS, AND AVERAGE VALUE OF FARM LAND PER ACRE, IN UTAH, BY COUNTIES: 1910.

AVERAGE VALUE OF FARM LAND PER ACRE.

[Average for the state, \$29.28.]

When the value is less than \$10 per acre, it is inserted under the county name.

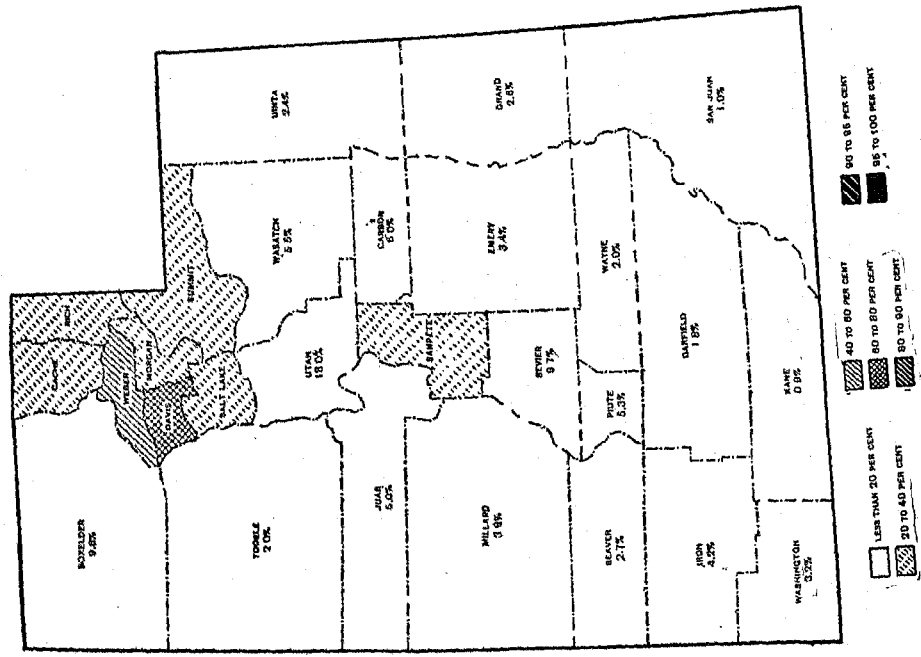


PER CENT OF LAND AREA IN FARMS.

PER CENT OF LAND AREA IN FARMS.

[Per cent for the state, 6.5.]

The per cent of land area in farms, when less than 20, is inserted under the county name.



UTAH.

FARMS AND FARM PROPERTY.

Utah ranks eleventh in land area and forty-first in population among the states and territories of continental United States. Only a small portion of the state of Utah lies at altitudes less than 4,000 feet above sea level. The northeastern part of the state consists of the high ranges of the Uinta and Wasatch Mountains. Practically all of eastern and southeastern Utah consists of a series of broad elevated plateaus, deeply cut by canyons and narrow stream valleys. The western portion of the state lies entirely within the Great Basin region and is separated from the more eastern portion by the steep escarpment of the plateau. Within the Great Basin region broad, nearly level desert areas are interrupted by steep and rugged mountain chains running north and south.

Within the plateau portion there are numerous small valleys which are irrigated for intensive agriculture, but upon the plateau itself grazing is the principal agricultural industry. The greater portion of the agricultural land of the state lies along the western border of the mountain and plateau district, where the waters from higher levels are brought down and applied to the sandy and gravelly loams around the margin of the Great Basin region, and to the finer-grained sediments of the stream valleys and of the level floors of recent lake basins.

The rainfall in the north central portion of the state is sufficient for growing grain crops on the higher lands without irrigation, the normal annual precipitation in

that section being about 15 inches. In the rest of the state the normal annual precipitation ranges from 5 to 10 inches. Irrigation is practiced throughout the state.

The two maps on the opposite page show, by counties, the proportion of the total land area which is in farms and the average value of farm land per acre. Of the state's entire land area 6.5 per cent is in farms. The first map shows that the proportion of the land area in farms is highest in the northeast corner of the state, to the east and south of Great Salt Lake, where a group of counties report 20 per cent or more of their area in farms. The highest percentage, 72.3, is in Davis County, and the second highest, 42.8, in Weber County. In all the remaining counties, with the exception of Sanpete, less than 20 per cent is reported as in farms.

The average value per acre of farm land for the whole state is \$29.28. As shown by the second map, in over half of the counties the value of land averages between \$10 and \$25 per acre, only two counties averaging less than \$10. Six scattered counties fall in the "\$25 to \$50 per acre" class; Weber, Davis, and Utah Counties are in the "\$50 to \$75 per acre" class; and in Salt Lake County the average reaches \$78.34.

Progress during the decade 1900 to 1910.—The following table summarizes for the state the more significant facts relating to population and land area, the number, value, and acreage of farms, and the value of all other farm property in 1910 and 1900:

NUMBER, AREA, AND VALUE OF FARMS.	1910 (April 15)	1900 (June 1)	INCREASE. ¹	
			Amount.	Per cent.
Population.....	373,351	276,749	96,602	34.9
Number of all farms.....	21,076	19,387	2,289	11.8
Approximate land area of the state.....acres..	52,597,760	52,597,760		
Land in farms.....acres..	3,397,699	4,116,951	-719,252	-17.5
Improved land in farms.....acres..	1,368,211	1,032,117	336,094	32.6
Average acres per farm.....	156.7	212.4	-55.7	-26.2
Value of farm property:				
Total.....	\$150,795,201	\$75,175,141	\$75,620,060	100.6
Land.....	99,482,164	40,126,560	59,355,604	147.9
Buildings.....	18,063,168	10,651,790	7,411,378	69.6
Implements and machinery.....	4,468,178	2,922,550	1,545,628	52.9
Domestic animals, poultry, and bees.....	28,781,691	21,474,241	7,307,450	34.0
Average value of all property per farm.....	\$6,957	\$3,878	\$3,079	79.4
Average value of land per acre.....	\$29.28	\$9.75	\$19.53	200.3

¹ A minus sign (-) denotes decrease.

NOTE.—Ranges or ranches using the public domain for grazing purposes, but not owning or leasing land, were counted as farms in 1910 and 1900. They were included as owned or managed, free from mortgage, and under 3 acres in size. The counting of these ranges as farms affects all totals, averages, and percentages in which the number of farms is a factor. In 1910 there were 162 such ranges included as farms.

Between 1900 and 1910 there was an increase of 96,602, or 34.9 per cent, in the population of the state, while the number of farms increased only 2,289, or 11.8 per cent; the total acreage in farms decreased 17.5 per cent during the period, while the improved acreage increased 32.6 per cent. The de-

crease of over one-sixth in the total acreage is explained by the abandonment of a few very large ranches which were reported as farms in the census of 1900.

The total value of farm property, including land, buildings, implements and machinery, and live stock (domestic animals, poultry, and bees), is \$150,795,000,

of which 77.9 per cent is represented by land and buildings, 3 per cent by implements and machinery, and 19.1 per cent by live stock. The value of farm property increased \$75,620,000 from 1900 to 1910, almost exactly doubling during the decade. This increase is chiefly made up of an increase of \$59,356,000 in the value of land. Buildings increased in value \$7,411,000, live stock \$7,307,000, and implements and machinery \$1,546,000. In considering the increase of values in agriculture the general increase in the prices of all commodities in the last 10 years should be borne in mind.

The average value of farms with their equipment in 1910 was nearly \$7,000 as against a value of a little less than \$4,000 in 1900. The average value of land rose from \$9.75 per acre in 1900 to \$29.28 in 1910, a change due in a large measure to the elimination from the reports of a great deal of grazing land, valued at 50 cents or less per acre. There were at the same time increases in the average value per farm of buildings, of implements and machinery, and of live stock.

Irrigation.—Of the 21,676 farms in the state 19,709, or 90.9 per cent, are reported as irrigated. The acreage reported as irrigated is 999,410 acres, or 73 per cent of the improved land in farms. The area to which enterprises existing in 1910 are capable of supplying water is 1,250,246 acres, and the total acreage included in irrigation projects completed or under way in 1910 is 1,947,625 acres.

Population, number of farms, and farm acreage: 1850 to 1910.—The table following presents, for the state as a whole for each census from 1850 to 1910, inclusive, a statement of the total population, the number of farms, and the acreage of farm land and of improved land in farms. It also gives the percentage of the land area in farms, the percentage of farm land improved, and the percentage of increase during each decade in the number of farms and in the land in farms.

CENSUS YEAR.	Population.	FARMS.		LAND IN FARMS.			Per cent of land area in farms.	Per cent of farm land improved.
		Num-ber.	Per cent of in-crease.	All land.		Improved land (acres).		
				Acres.	Per cent of in-crease. ¹			
1910.....	373,351	21,076	11.8	3,307,000	-17.5	1,303,211	6.5	40.3
1900.....	276,749	10,387	84.3	4,110,951	211.0	1,032,117	7.8	25.1
1890.....	210,770	10,517	11.3	1,323,705	101.9	548,223	2.5	41.4
1880.....	143,063	9,452	92.6	1,055,524	341.8	410,105	1.2	33.0
1870.....	85,786	4,958	35.0	148,361	65.0	118,755	0.3	30.0
1860.....	40,273	3,035	292.5	89,011	01.9	77,210	0.2	85.9
1850.....	11,380	926	.....	46,849	.....	10,333	(?)	34.9

¹ A minus sign (-) denotes decrease. ² Less than one-tenth of 1 per cent.

In the 60 years since 1850 the population of the state has increased 361,971, and is now more than thirty times as great as in 1850. The largest numerical increase was during the last decade.

Since 1850 decades of rapid growth in number of farms have alternated with decades of small increase, the greatest increase in any decade being that for 1890

to 1900, when the number of farms rose from 10,517 to 19,387. In the last decade the number has increased to 21,676.

The land surface of Utah is approximately 52,597,760 acres. Of this area, 3,397,699 acres, or 6.5 per cent, are included in farms. Of the farm acreage, 1,368,211 acres, or 40.3 per cent, are improved, representing 2.6 per cent of the state's total land area. Though the total acreage of farm land decreased 17.5 per cent during the last decade, the acreage of improved land shows a considerable increase. Consequently the percentage of farm land which is improved is considerably higher at the census of 1910 than in 1900, 40.3 per cent as compared with 25.1 per cent.

Since 1850 both the total farm acreage and the improved land in farms have increased rapidly and continuously, except for the decrease in total acreage during the last decade. Both showed the greatest percentages of increase between 1850 and 1880, but the greatest actual number of acres was added during the last 30 years. The decline from 1860 to 1900 in the proportion of farm land reported as improved was due to the gradual inclusion in farms of grazing and other unimproved land. Prior to the time when such land was brought into farms, a considerable part of it was public land, actually in use more or less extensively for stock raising.

Values of farm property: 1850 to 1910.—The agricultural changes in Utah since 1850, as reflected in the values of the several classes of farm property, are shown in the table which follows:

CENSUS YEAR.	FARM PROPERTY.							
	Total.		Land and buildings.		Implements and machinery.		Domestic animals, poultry, and bees.	
	Value.	Per cent of increase.	Value.	Per cent of increase.	Value.	Per cent of increase. ¹	Value.	Per cent of increase.
1910.....	\$150,795,201	100.0	\$117,545,332	131.5	\$4,468,178	52.9	\$28,781,691	34.0
1900.....	75,176,141	90.4	50,773,350	78.8	2,922,550	150.0	21,474,241	116.6
1890.....	139,482,206	104.2	28,402,780	102.7	1,164,000	231.0	9,914,796	126.8
1880.....	19,333,500	409.9	14,015,178	662.4	840,733	306.1	4,371,638	154.2
1870.....	3,791,301	22.0	1,838,338	37.9	233,112	-4.0	1,719,851	15.4
1860.....	3,092,051	228.0	1,333,355	327.0	242,880	188.2	1,516,707	177.3
1850.....	943,055	.....	311,700	.....	84,288	.....	540,968	.....

¹ A minus sign (-) denotes decrease.
² Includes estimated value of range animals.
³ Computed gold values, being 80 per cent of the currency values reported.

The present aggregate value of farm property in the state, amounting to more than \$150,000,000, is practically all an accumulation of the last 40 years. In 1850 farm property was valued at less than \$1,000,000; in 1870 at less than \$4,000,000. In the decade 1870 to 1880 it increased to over \$19,000,000, and has practically doubled in value during each of the three decades 1880 to 1910. At the censuses of 1850 and 1860 the value of live stock exceeded, and in 1870 it was very nearly equal to, that of land and buildings combined. In 1880, however, the value of land and buildings was more than three times, and in 1910 more

than four times, that of live stock. In the decade 1890 to 1900 live stock more than doubled in value, while land and buildings increased 78.8 per cent. During the decade 1900 to 1910 land and buildings more than doubled in value while live stock increased only 34 per cent. Each census, except that of 1870, has shown also a considerable accumulation of property during the preceding decade in the form of implements and machinery, which in 1910 amounted to \$4,468,000.

Average acreage and values per farm: 1850 to 1910.—The changes which have taken place during the past 60 years in the average acreage of Utah farms and in the average values of the various classes of farm property, as well as in the average value per acre of land and buildings, are shown in the following table:

CENSUS YEAR.	Average acres per farm.	AVERAGE VALUE PER FARM. ¹				Average value of land and buildings per acre.
		All farm property.	Land and buildings.	Implements and machinery.	Domestic animals, poultry, and bees.	
1910.....	156.7	\$6,957	\$5,423	\$200	\$1,328	\$34.60
1900.....	212.4	3,878	2,610	151	1,108	12.33
1890.....	125.9	² 3,754	2,701	111	² 943	21.46
1880.....	69.4	² 2,045	1,483	100	² 403	21.38
1870 ³	30.2	772	375	47	350	12.39
1860.....	24.7	851	367	67	417	14.83
1850.....	50.6	1,018	337	91	591	6.66

¹ Averages are based on "all farms" in state.
² Includes estimated value of range animals.
³ Computed gold values, being 80 per cent of the currency values reported.

One of the striking characteristics of Utah is the presence of great areas of semiarid land which have thus far been utilized, if at all, for grazing purposes only. Upon this land are many very large farms or ranches, exceeding not infrequently 100,000 acres in extent. These large holdings increase materially the average acreage per farm for the state; in fact, two ranches, one in Uinta County and one in Boxelder County, which do not appear in the 1910 returns, together added 32.5 acres to the average for 1900. Farms other than those devoted almost exclusively to grazing are not unusually large. During the last decade the average size decreased 55.7 acres and is now 156.7 acres. Although the average size in 1850 barely exceeded 50 acres, it decreased in the decade 1850 to 1860 by one-half, to less than 25 acres. At these earlier census periods there was much free land, not in farms, but utilized for grazing purposes; the inclusion of such land in farms later on tended to increase the average size of farms.

Each census, from 1850 to 1870, showed a smaller average value of farm property per farm. Since 1870, however, each census has shown a greater average value, and in the decade 1900 to 1910 the average rose from \$3,878 to \$6,957.

Of the average in 1910, \$5,423 represents the value of land and buildings, \$1,328 the value of live stock, and \$206 the value of implements and machinery. The average value of land and buildings is now \$34.60 per acre, or nearly three times as great as 10 years ago.

This great increase—greater than had occurred during the preceding half century—in the average value per acre of land is due in considerable measure, though by no means wholly, to the fact that the average in 1900 was lowered by the inclusion of large acreages of grazing land valued at 50 cents or less per acre; comparatively little such land was reported in 1910.

Farm tenure: 1880 to 1910.—The following table shows the distribution of the farms of the state according to character of tenure at each census since 1880:

TENURE.	1910	1900	1890	1880
Number of all farms.....	21,676	10,387	10,517	9,452
Farms operated by owners and managers..	19,956	17,674	9,974	9,019
Farms consisting of owned land only.....	17,170	15,312	(1)	(1)
Farms consisting of owned and hired land.	2,580	2,051	(1)	(1)
Farms operated by managers.....	194	311	(1)	(1)
Farms operated by tenants.....	1,720	1,713	543	433
Share tenants.....	837	1,207	422	373
Share-cash tenants ²	97			
Cash tenants.....	490	500	121	60
Tenure not specified ³	296			
Per cent of farms operated by—				
Owners and managers.....	92.1	91.2	94.8	95.4
Tenants.....	7.9	8.8	5.2	4.6
Share and share-cash.....	4.3	0.2	4.0	3.9
Cash and nonspecified.....	3.0	2.0	1.2	0.6

¹ Not reported separately.
² Share-cash tenants were doubtless largely included with share tenants in 1900, 1890, and 1880.
³ Prior to 1910 nonspecified tenants were included with cash tenants.

There was an increase of 2,289 in the total number of farms during the last decade, which occurred almost wholly in the number of farms operated by owners and managers, since farms operated by tenants increased only seven in number.

The relative amount of farm tenancy in Utah has thus far been low, and conforms to the usual conditions in newly settled sections of the United States. In 1880 and 1890 about five out of every hundred farms were operated by tenants, as compared with about nine in 1900 and eight in 1910. This is less than one-fourth the proportion for the country as a whole. The great majority of the farms of the state have been acquired by their owners from the Government in the form of homesteads, Carey Act entries, desert-land entries, or irrigated farm land purchased from private corporations. Most of these have been acquired at a small price or on long-time credit, making ownership possible to farmers of small means. This fact doubtless accounts in the main for the small proportion of tenancy.

For comparison with earlier censuses the four classes of tenure detailed for 1910 have been combined into two classes—(1) share, including share-cash, and (2) cash, including nonspecified. Share tenancy has been at each census the more common form of tenancy, although the proportion of tenants renting for cash has increased during each decade. In 1910, 4.3 per cent of all farms were rented wholly or in part for a share of the products, 3.6 per cent for cash. In 1880 share

tenancy was over six times as frequent as cash tenancy, and they are now more nearly equal than ever before.

The following table shows the total and improved acreage and the value of land and buildings for farms operated by owners (including part owners), managers, and tenants, respectively:

FARMS OPERATED BY--	ALL LAND IN FARMS (ACRES).		IMPROVED LAND IN FARMS (ACRES).		VALUE OF LAND AND BUILDINGS.	
	1910	1900	1910	1900	1910	1900
Total.....	3,397,699	4,116,951	1,368,211	1,032,117	\$117,545,332	\$50,778,350
Owners.....	2,888,040	2,901,554	1,292,072	965,071	101,417,754	43,005,130
Managers.....	315,376	923,298	46,462	43,649	6,545,737	2,621,530
Tenants.....	194,233	292,099	29,677	23,397	9,581,841	5,151,690

The following table shows the per cent distribution by tenure groups of the items in the preceding table, and also of the number of farms:

FARMS OPERATED BY--	PER CENT OF TOTAL.							
	Number of farms.		All land in farms.		Improved land in farms.		Value of land and buildings.	
	1910	1900	1910	1900	1910	1900	1910	1900
Total.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Owners.....	84.7	70.8	35.0	23.2	87.9	87.7	80.3	84.7
Managers.....	5.6	2.2	1.3	2.2	4.0	4.2	5.6	5.2
Tenants.....	9.7	2.0	5.7	14.2	7.3	8.1	8.2	10.1

It will be seen that, in 1910, 85 per cent of all land in farms was in farms operated by their owners (including part owners), 9.3 per cent in farms operated by managers, and 5.7 per cent in farms operated by tenants, the percentage for owners being higher and those for managers and for tenants lower than in 1900.

As shown by the next table, the average size of farms operated by managers in 1910 (1,625.6 acres) was more than eleven times as great as that of farms operated by owners (146.1 acres), which was in turn larger than that of farms operated by tenants (112.9 acres). The average size of each class of farms decreased between 1900 and 1910, the absolute decrease being greatest for farms operated by managers. In 1910 the percentage of farm land improved was highest for farms operated by tenants, and lowest for those operated by managers.

FARMS OPERATED BY--	AVERAGE ACRES PER FARM.				PER CENT OF FARM LAND IMPROVED.		AVERAGE VALUE OF LAND AND BUILDINGS.			
	All land.		Improved land.		1910	1900	Per farm.		Per acre.	
	1910	1900	1910	1900			1910	1900	1910	1900
Total.....	156.8	212.4	63.1	53.2	40.3	25.1	\$5,423	\$2,619	\$34.60	\$12.33
Owners.....	146.1	149.8	49.8	52.1	41.0	34.8	5,132	2,477	35.12	16.53
Managers.....	1,625.6	2,088.1	342.0	140.4	21.1	4.7	35,741	5,429	20.70	2.82
Tenants.....	112.9	342.1	58.0	48.7	51.3	14.2	5,571	3,007	43.33	8.70

Farm mortgages: 1890 to 1910.—The Eleventh Census (1890) was the first to collect data relating to mortgage debt on farms. The basis of the returns was

the "farm home" occupied by its owner. The same class of information was secured by the population schedules of the Twelfth Census (1900). The agricultural schedules of the Thirteenth Census (1910) secured practically the same information, except that the basis was "owned farms" instead of "owned farm homes"—a difference involving, however, no appreciable incomparability.

The following table relates to farms operated by persons owning all or part of the land, and shows for 1910 (1) the number of such farms reported as free from mortgage; (2) the number reported as mortgaged; and (3) the number for which no mortgage reports were secured. Comparable items are included for 1900 and 1890.

CLASS.	OWNED FARMS. ¹		OWNED FARM HOMES. ²		OWNED FARM HOMES. ²	
	1910		1900		1890	
	Number.	Per cent. ³	Number.	Per cent. ³	Number.	Per cent.
Total.....	19,762	.....	17,766	.....	10,763	.....
Free from mortgage.....	15,131	77.1	15,307	88.9	10,108	94.5
Mortgaged.....	4,492	22.9	1,932	11.1	607	5.5
Unknown.....	139	.....	437	.....	.....	.....

¹ Includes all farms owned in whole or in part by the operator.
² The 392 "owned farm homes" for which no reports were secured were distributed between "free from mortgage" and "mortgaged" in 1890.
³ Per cent of combined total of "free from mortgage" and "mortgaged."

In 1910 the total number of farms owned in whole or in part by the operators was 19,762. Of this number, 15,131 were reported as free from mortgage; 4,492 were reported as mortgaged; and for 139 no report relative to mortgage indebtedness was obtained. The number of mortgaged farms constituted 22.9 per cent of the total number of owned farms, exclusive of those for which no mortgage report was obtained. The corresponding percentage was only about half as great, 11.1, in 1900, and only about half of that, 5.5, in 1890. It may be noted that the percentages given for the three censuses are comparable, but that the number of mortgaged and unmortgaged farms reported in 1890 is not entirely comparable with the numbers reported at the later censuses because at the census of 1890 the farms for which no reports were secured were distributed between the two classes of mortgaged and unmortgaged farms. It can be seen, however, that the number of farms free from mortgage increased considerably from 1890 to 1900, and decreased slightly from 1900 to 1910, while there has been a continuous increase in the number of mortgaged farms.

The statement of mortgage debt and of the value of mortgaged farm property is restricted to the farms of those farmers who own all of their land and report the amount as well as the fact of indebtedness. Of the 4,492 farms reported as mortgaged, 3,745 are wholly owned by the farmers, and for 3,526 of these the amount of mortgage debt is reported. Only these last-mentioned farms are included under 1910 in the next table, which presents data relating to mort-

gaged farms for 1910 and 1890. In this connection it should be noted that in 1890 the amount of mortgage debt of farms with incomplete reports was estimated according to the percentages and averages obtained from farms with full reports, but that no such estimate is here made for 1910. The table gives a comparative statement of the value of mortgaged farms owned entirely by their operators and the amount of indebtedness, together with the average value of such farms, the average debt per farm, and the average equity per farm for 1910 and 1890. Data regarding the amount of mortgage debt were not obtained in 1900.

	OWNED FARMS OR FARM HOMES MORTGAGED.		INCREASE.	
	1910 ¹	1890 ²	Amount.	Per cent.
Number.....	3,526	597		
Value—Land and buildings.....	\$21,319,580	\$2,191,004		
Amount of mortgage debt.....	\$4,564,175	\$546,245		
Per cent of debt to value.....	21.4	24.9		
Average value per farm.....	\$6,046	\$3,670	\$2,376	64.7
Average debt per farm.....	\$1,294	\$915	\$379	41.4
Average equity per farm.....	\$4,752	\$2,755	\$1,997	72.5

¹ Includes only farms consisting wholly of owned land and reporting value of farm and amount of debt.
² Includes all owned farm homes, estimates being made of value of farms and amount of debt for all defective reports.

The average debt of the mortgaged farms has increased in the last 20 years from \$915 to \$1,294, or 41.4 per cent, while the average value of such farms rose from \$3,670 to \$6,046, or 64.7 per cent. Hence the owner's equity increased from \$2,755 to \$4,752, or 72.5 per cent. As a result of the greater relative increase in farm values than in farm debt, the mortgage indebtedness, which was 24.9 per cent of the value of the mortgaged farms in 1890, had decreased to 21.4 per cent of the value in 1910.

Farms by size groups: 1910 and 1900.—The following table shows the distribution of farms by size groups at the censuses of 1910 and 1900:

SIZE GROUP.	NUMBER OF FARMS.		INCREASE. ¹		PER CENT OF TOTAL.	
	1910	1900	Number.	Per cent.	1910	1900
	Total.....	21,076	19,387	2,289	11.8	100.0	100.0
Under 3 acres.....	297	595	-298	-50.1	1.4	3.1
3 to 9 acres.....	1,836	1,407	429	30.5	8.5	7.3
10 to 19 acres.....	2,541	2,202	339	15.4	11.7	11.4
20 to 49 acres.....	5,550	5,261	289	5.5	25.6	27.1
50 to 99 acres.....	4,170	3,741	429	11.5	19.2	19.3
100 to 174 acres.....	3,660	3,363	297	8.8	16.0	17.3
175 to 259 acres.....	1,372	1,194	178	14.0	6.3	6.2
260 to 499 acres.....	1,309	1,005	301	29.9	6.0	5.2
500 to 999 acres.....	551	368	183	49.7	2.5	1.9
1,000 acres and over....	390	248	142	57.3	1.8	1.3

¹ A minus sign (—) denotes decrease.

Over three-fifths of all farms in Utah are between 20 and 174 acres in size, thus including the 40, 80, and 160 acre farms.

A study of the distribution of farms by size groups discloses the fact that the number of places "under 3 acres" reported as farms is only about half as great as 10 years ago. This decrease may be due to a different interpretation by the enumerators as to what to in-

clude as a small farm or may represent an actual decrease in that type of farm. Every other group shows a considerable absolute and relative increase, but the relative increase is least marked among the "20 to 49 acres" and the "100 to 174 acres" groups and most marked among classes including the very large and the very small farms. The very large farms and the farms of from 3 to 19 acres constituted larger percentages of the total number of farms in 1910 than in 1900; farms of 20 to 174 acres, a smaller proportion.

The following table shows the total and improved acreage and the value of land and buildings for farms of various size groups, consolidating into one group the farms of less than 20 acres (numbering in all 4,674), and also the farms of between 175 and 499 acres (numbering 2,681):

SIZE GROUP.	ALL LAND IN FARMS (ACRES).		IMPROVED LAND IN FARMS (ACRES).		VALUE OF LAND AND BUILDINGS.	
	1910	1900	1910	1900	1910	1900
Total.....	3,397,699	4,116,951	1,368,211	1,032,117	\$117,545,332	\$50,778,350
Under 20 acres.....	45,627	40,732	42,000	36,267	11,096,852	5,077,480
20 to 49 acres.....	181,178	173,303	153,899	130,157	22,188,727	10,290,176
50 to 99 acres.....	293,613	268,880	214,076	178,062	20,065,001	9,812,010
100 to 174 acres.....	512,595	480,041	256,127	241,338	19,000,162	8,576,900
175 to 499 acres.....	745,164	663,085	328,168	265,110	21,359,510	9,163,170
500 to 999 acres.....	370,088	244,201	133,974	83,221	7,626,182	2,664,500
1,000 acres and over.....	1,240,434	2,300,000	238,371	88,092	13,718,908	5,185,120

The following table shows the per cent distribution, by size groups, of the items presented in the preceding table, and also of the number of farms:

SIZE GROUP.	PER CENT OF TOTAL.							
	Number of farms.		All land in farms.		Improved land in farms.		Value of land and buildings.	
	1910	1900	1910	1900	1910	1900	1910	1900
Total.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Under 20 acres.....	21.6	21.7	1.3	1.0	3.1	3.5	10.2	10.0
20 to 49 acres.....	25.6	27.1	5.3	4.2	11.2	13.5	18.9	20.3
50 to 99 acres.....	19.2	10.3	8.6	6.5	15.7	17.3	17.8	19.3
100 to 174 acres.....	16.9	17.3	15.1	11.7	18.7	23.4	16.8	16.9
175 to 499 acres.....	12.4	11.4	21.9	14.6	24.0	25.7	18.2	18.0
500 to 999 acres.....	2.5	1.9	10.9	5.9	6.8	8.1	6.5	5.2
1,000 acres and over....	1.8	1.3	36.8	56.0	17.4	8.5	11.7	10.2

Of the total farm acreage of the state in 1910, 36.8 per cent was in farms of 1,000 acres and over, this being from the standpoint of aggregate acreage the most important size group, although it comprised only 1.8 per cent of the total number of farms. The most notable change between 1900 and 1910 is the decrease in the proportion of the total acreage which was in farms of 1,000 acres and over, offset by increases in the proportion in every other size group.

As shown by the next table, the percentage of farm land improved diminishes as the average size of the farms increases. For this reason, and also because buildings have normally a higher value in proportion to farm acreage on small than on large farms, the average value of land and buildings per acre of land also diminishes with the increase in the size of the

farms; it is very much higher for the farms under 20 acres in size than for those of any other group.

SIZE GROUP.	PER CENT OF FARM LAND IMPROVED.		AVERAGE VALUE OF LAND AND BUILDINGS.			
	1910	1900	Per farm.		Per acre.	
			1910	1900	1910	1900
Total.....	40.3	25.1	\$5,423	\$2,619	\$34.60	\$12.33
Under 20 acres.....	93.6	89.0	2,567	1,208	262.93	124.60
20 to 49 acres.....	85.0	80.3	3,998	1,958	122.47	59.43
50 to 99 acres.....	73.2	66.6	5,028	2,623	71.40	36.49
100 to 174 acres.....	50.0	50.3	5,380	2,550	38.41	17.87
175 to 499 acres.....	44.0	44.0	7,967	4,161	28.66	15.10
500 to 999 acres.....	36.2	34.1	13,841	7,240	20.61	10.01
1,000 acres and over.....	19.1	3.8	35,177	20,968	10.98	2.25

Color and nativity of farmers: 1910.—Prior to the Thirteenth Census no attempt was made to secure information on the farm schedules concerning the nativity of farmers. The table in the next column shows the color and nativity of farm operators by character of tenure for 1910.

Almost three-fourths of the Utah farmers in 1910 were native whites and about one-fourth foreign-born whites. Only 276, or 1.3 per cent of all farmers, were nonwhites; of these, 200 are Indians, 52 Japanese, 13 Chinese, and 11 negroes. The table indi-

cates that the percentage of owners was smaller and the percentage of tenants larger among native-born whites than among whites of foreign birth. Among the native whites, 8.8 per cent were tenants, as compared with only 4.7 per cent among the foreign-born whites.

Of the 5,452 foreign-born white farmers in Utah in 1910, 1,922 were born in England; 1,420 in Denmark; 742 in Sweden; 257 in Scotland; 202 in Wales; 175 in Germany; 173 in Switzerland; 168 in Norway; 74 in Canada; 67 in Italy; and 65 in Ireland. Other European countries were represented by a total of 125 farmers, and non-European countries, other than Canada, by 62.

COLOR AND NATIVITY.	FARM OPERATORS.							
	Total.		Own-ers.	Ten-ants.	Man-agers.	Per cent of total.		
	Num-ber.	Per cent dis-tribution.				Own-ers.	Ten-ants.	Man-agers.
Total.....	21,676	100.0	19,762	1,720	194	91.2	7.9	0.9
Native white.....	15,948	73.6	14,380	1,404	164	90.2	8.8	1.0
Foreign-born white.....	5,452	25.2	5,166	257	20	94.8	4.7	0.5
Negro and other non-white.....	276	1.3	216	59	1	78.3	21.4	0.4

DOMESTIC ANIMALS, POULTRY, AND BEES.

Domestic animals on farms: 1910.—The census of 1910 was taken as of April 15, and that of 1900 as of June 1. Since a great many domestic animals are born during the six weeks between April 15 and June 1, and on the other hand a considerable number of older animals are slaughtered or die during the same period, the numbers of the different classes of animals for the two censuses are not closely comparable, and the same is true in somewhat less degree of the values. For this reason the figures for 1900 are not presented here, but in the general reports of the census the figures for the several states will be presented and the extent to which their comparability is affected by the change in the date of enumeration will be discussed.

Of the total farms enumerated, 20,798, or 95.9 per cent, report domestic animals of some kind, the number without any domestic animals being only 878.

Of all the farms in the state, 87.9 per cent report cattle, 85.5 per cent report "dairy cows," and 33.5 per cent report "other cows." The total number of cows increased 98,230 during the decade, while the number of all other cattle (excluding calves) increased 16,312. The average number of dairy cows per farm reporting is approximately 4, while the average number of other cows per farm reporting is over 25.

The census of 1900 was taken as of June 1, after all the spring calves were born, while that of 1910 was taken as of April 15, before the close of the calving season and when the calves on hand were on the average

younger than at the enumeration of 1900. As a result, the calves enumerated were fewer in number and of lower average value in 1910 than in 1900, the number decreasing from 78,940 to 33,042, and the average value decreasing from \$9.24 to \$7.12.

Horses are reported by 90.8 per cent of all the farms in the state. The relatively large extent to which farmers produce horses for their own use or for sale is shown by the fact that 33.1 per cent report yearling colts. The average value of mature horses is nearly three times as great as in 1900. Only about one farm in every twenty-five reports mules.

Sheep and lambs were reported from 3,544 farms in 1900, or 18.3 per cent of all the farms in the state, while in 1910 they were reported from only 2,388 farms, or 11 per cent of the total number.

Of the 2,388 farms reporting sheep and lambs, but 47.5 per cent report spring lambs, the number of the latter being equal to only 11.7 per cent of the number of ewes. There was a decrease of 1,108,999 in the reported number of lambs during the decade, doubtless due largely to the fact that the date of enumeration was earlier in 1910 than in 1900. Eliminating the lambs, there were 720 sheep per farm reporting in 1900, while in 1910 there were 700.

Of all farms, 56.3 per cent report swine, the average number being over 5 per farm reporting. The average value of the swine reported as "hogs and pigs born before January 1, 1910," is \$9.08, while that of spring pigs is less than one-third as much.

The next table summarizes the statistics of domestic animals on farms for the state, recorded as of April 15, 1910. Cattle and sheep are divided into age and sex groups, while horses, mules, and swine are presented by age groups only.

AGE AND SEX GROUP.	FARMS REPORTING.		ANIMALS.		
	Number.	Per cent of all farms.	Number.	Value.	Average value.
Total.....	20,708	95.0	.....	\$28,330,215	.....
Cattle	19,053	87.9	412,334	8,948,702	\$21.70
Dairy cows (cows and heifers kept for milk; born before Jan. 1, 1900).....	18,524	85.5	75,810	2,586,544	34.12
Other cows (cows and heifers not kept for milk, born before Jan. 1, 1900).....	7,257	33.5	185,174	4,017,205	21.69
Heifers born in 1909.....	9,446	43.6	50,126	685,660	13.08
Calves born after Jan. 1, 1910.....	8,596	39.7	33,042	235,357	7.12
Steers and bulls born in 1909.....	3,933	18.1	34,752	542,002	15.62
Steers and bulls born before Jan. 1, 1909.....	2,172	10.0	26,383	720,067	27.33
Unclassified cattle.....	76	0.4	7,047	160,107	22.72
Horses	19,684	90.8	115,676	9,999,835	86.45
Mares, stallions, and geldings born before Jan. 1, 1909.....	19,550	90.2	94,290	0,149,915	97.04
Colts born in 1909.....	7,167	33.1	14,070	600,117	46.92
Colts born after Jan. 1, 1910.....	3,029	14.0	4,541	182,091	29.09
Unclassified horses.....	39	0.2	2,775	57,712	20.80
Mules	814	3.8	2,277	157,497	69.17
Mules born before Jan. 1, 1909.....	590	2.7	1,594	125,278	80.10
Mule colts born in 1909.....	268	1.2	575	28,304	49.33
Mule colts born after Jan. 1, 1910.....	100	0.5	138	3,855	27.93
Asses and burros	210	1.0	1,180	68,246	58.83
Swine	12,200	56.3	64,286	445,653	6.93
Hogs and pigs born before Jan. 1, 1910.....	10,709	49.4	42,107	382,284	9.08
Pigs born after Jan. 1, 1910.....	3,045	18.2	22,179	63,369	2.86
Sheep	2,388	11.0	1,827,180	8,634,735	4.73
Ewes born before Jan. 1, 1910.....	2,230	10.3	1,340,595	0,709,594	5.00
Rams and wethers born before Jan. 1, 1910.....	1,189	5.5	330,295	1,602,373	4.55
Lambs born after Jan. 1, 1910.....	1,135	5.2	156,290	422,768	2.70
Goats	134	0.6	29,014	75,547	2.60

Poultry on farms: 1910 and 1900.—The following table gives the numbers of the various kinds of poultry reported in 1910 and 1900, together with their value and the number of farms reporting each kind in 1910:

KIND.	1910 (April 15)				1900 (June 1)	
	Farms reporting.		Number of fowls.	Value.	Number of fowls.	
	Number.	Per cent of all farms.				
Total.....	17,443	80.5	691,941	\$327,908	556,758	
Chickens.....	17,424	80.4	673,062	303,330	534,342	
Turkeys.....	1,084	7.8	7,990	15,830	10,610	
Ducks.....	891	4.1	3,782	2,914	8,503	
Geese.....	909	2.8	2,938	4,894	2,759	
Guinea fowls.....	83	0.4	249	173	(1)	
Pigeons.....	214	1.0	3,306	639	(2)	
Peafowls.....	3	(3)	8	72	(2)	

1 Included with chickens. 2 Not reported. 3 Less than one-tenth of 1 per cent.

The number of farms reporting poultry increased from 16,145 to 17,443, or 8 per cent, during the past decade.

The number of fowls on these farms increased 24.3 per cent, and their value increased from \$187,000 to \$328,000, or 75.4 per cent. The number of fowls per farm reporting increased from 34 to 40. The value of poultry and the number of farms reporting were obtained in 1900 for the total of all fowls only, and not for each kind as in 1910.

Bees on farms: 1910 and 1900.—The number of farms reporting bees has decreased from 3,707 in 1900 to 1,873 in 1910, or 49.5 per cent. The number of colonies of bees decreased from 33,818 to 26,185, or 22.6 per cent, but their value increased from \$111,452 to \$123,568, or 10.9 per cent. The average value of bees per farm reporting was \$30.07 in 1900 and \$65.97 in 1910. About nine farms in every hundred report bees.

Domestic animals not on farms: 1910.—Most of the domestic animals not on farms are found in cities, towns, and villages. Statistics for such animals are shown below. No provision was made by law to secure data pertaining to poultry and bees not on farms. In the table below age groups are omitted for the sake of brevity, but it may be noted that in cities and villages a comparatively small proportion of the animals of each class are in the younger age groups.

KIND.	Number of individuals reporting.	ANIMALS.		
		Number.	Value.	Average value.
Total.....	10,923	.....	\$2,667,162	.....
All cattle.....	6,029	16,459	481,140	\$20.23
Dairy cows.....	0,735	9,851	372,019	37.86
Horses.....	7,747	18,287	1,865,027	101.99
Mules.....	94	488	59,901	122.75
Asses and burros.....	29	53	6,810	128.40
Swine.....	1,741	4,252	34,351	8.08
Sheep.....	194	30,780	216,443	5.44
Goats.....	40	1,368	3,490	2.55

Horses are the most important class of domestic animals not on farms when value is considered, but the number of sheep is greater than the number of horses.

Domestic animals on farms and not on farms: 1910.—The following table gives the total number and value of domestic animals, distinguishing those on farms from those not on farms.

KIND.	DOMESTIC ANIMALS.					
	Total.		On farms.		Not on farms.	
	Number.	Value.	Number.	Value.	Number.	Value.
Total.....	.....	\$30,997,377	.....	\$28,330,215	.....	\$2,667,162
All cattle.....	428,793	9,420,842	412,334	8,948,702	16,459	481,140
Dairy cows.....	85,661	2,959,463	75,810	2,586,544	9,851	372,919
Horses.....	133,903	11,804,862	115,676	9,999,835	18,227	1,865,027
Mules.....	2,705	217,398	2,277	157,497	428	59,901
Asses and burros.....	1,213	75,056	1,160	68,246	53	6,810
Swine.....	68,538	480,004	64,286	445,653	4,252	34,351
Sheep.....	1,866,969	8,851,178	1,827,180	8,634,735	39,789	216,443
Goats.....	30,382	70,037	29,014	75,547	1,368	3,490

The total value of all domestic animals in the state in 1910 was \$30,997,000, of which the value of animals not on farms constituted 8.6 per cent.

LIVE STOCK PRODUCTS.

The returns for live stock products obtained at the census of 1910, like those for crops, relate to the activities of the calendar year 1909. It is impossible to give a total representing the annual production of live stock products for the reason that, as shown elsewhere, the total value of products from the business of raising domestic animals for use, sale, or slaughter can not be calculated from the census returns. Even if this value could be ascertained and were added to the value of the crops the sum would not correctly represent the total value of farm products, because, as already more fully explained, duplication would result from the fact that part of the crops are fed to the live stock.

Dairy products: 1909 and 1899.—The next table shows the principal statistics relative to dairy products in 1909, with certain comparative statistics for 1899.

	FARMS REPORTING.		Number or quantity.	Unit.	VALUE.	
	Number.	Per cent of all farms			Total.	Average per unit.
Dairy cows on farms April 15, 1910.....	18,524	85.5	75,810	Head	.....	.....
On farms reporting dairy products in 1909.....	15,802	72.0	67,702	Head	.....	.....
On farms reporting milk produced in 1909.....	14,165	65.3	59,007	Head	.....	.....
Specified dairy products, 1909:						
Milk reported.....			20,486,317	Gals.	.....	.....
Butter made.....	10,606	48.0	2,407,306	Lbs.	\$672,470	\$0.27
Cheese made.....	104	0.5	84,102	Lbs.	13,125	0.16
Milk sold.....	3,708	17.1	8,471,713	Gals.	916,015	0.11
Cream sold.....	1,275	5.9	270,225	Gals.	223,840	0.83
Butter fat sold.....	1,240	5.7	614,133	Lbs.	242,075	0.26
Butter sold.....	3,788	17.5	919,581	Lbs.	257,379	0.28
Cheese sold.....	52	0.2	62,005	Lbs.	9,346	0.15
Total receipts from sales, 1909.....					1,648,655	.....
Total value of milk, cream, and butter fat sold and cheese made, 1909.....					2,067,534	.....
Specified dairy products, 1899:						
Butter made.....	11,272	58.1	2,812,122	Lbs.	.....	.....
Cheese made.....	250	1.3	160,251	Lbs.	.....	.....
Butter sold.....			1,125,377	Lbs.	214,010	0.19
Cheese sold.....			122,983	Lbs.	12,273	0.10

The number of farms reporting dairy cows on April 15, 1910, was 18,524, but only 15,802 reported dairy products in 1909. That there should be this difference is not surprising. Doubtless some farmers who had dairy cows in 1910 had none in 1909, while other farmers neglected to give information for the preceding year, or were unable to do so, perhaps because the farm was then in other hands. Dairy products in general are somewhat less accurately reported than the principal crops. This is particularly the case as regards the quantity of milk produced. The number of farms which made any report of milk produced during 1909 was 14,165 (somewhat less than the total number reporting dairy products), and the number of dairy cows on such farms on April 15, 1910, was 59,007. The amount of milk reported was 20,486,000 gallons; as-

suming that there were the same number of cows in 1909 as in 1910, this would represent an average of 347 gallons per cow. In considering this average, however, it should be borne in mind that the quantity of milk reported is probably deficient and that the distinction between dairy and other cows is not always strictly observed in the census returns.

By reason of the incompleteness of the returns for milk produced, the Census Bureau has made no attempt to determine the total value of dairy products for 1909. For convenience a partial total has been presented comprising the reported value of milk and cream sold as such and sold on the butter fat basis and the reported value of butter and cheese made, whether for home consumption or for sale. The total thus obtained for 1909 is \$2,068,000, which may be defined as the total value of dairy products exclusive of milk and cream used on the farm producing.

About two-fifths of the milk reported as produced by Utah farmers in 1909 was sold as such. The butter made on farms in 1909 was valued at \$672,000.

Comparisons are made between 1909 and 1899 for but few of the census items relating to dairy products, for the reason that in 1899 estimates were made for farms with incomplete reports, which was not done at the census of 1910. The figures for milk produced and milk sold are particularly affected, but those for butter and cheese are approximately comparable. The table shows a material decrease between 1899 and 1909 in the amount of butter made and a still greater relative decrease in the production of cheese.

Wool: 1909 and 1899.—The next table gives statistics as to the production of wool on farms, the figures being partly based on estimates.¹

The total number of sheep of shearing age in Utah on April 15, 1910, was 1,671,000, representing a decrease of 34.6 per cent as compared with the number on June 1, 1900 (2,553,000). The approximate production of wool during 1909 was 1,663,000 fleeces, weighing 12,102,000 pounds, and valued at \$2,094,000. Of these totals, about one-tenth represents estimates. The number of fleeces produced in 1909 was 37.9 per cent less than in 1899. The average weight per fleece in 1909 was 7.3 pounds, as compared with 6.4 pounds in

¹ Farmers should be able in general to report the production of wool more accurately than that of dairy products. There were, however, 1,027 farmers who reported the possession of 210,347 sheep of shearing age on April 15, 1910, without reporting any wool produced in 1909. Probably in a large proportion of cases this failure was due to the fact that they did not have these sheep, or did not occupy the same farm, during the preceding year. The returns of farms reporting wool in 1909 but no sheep of shearing age on April 15, 1910, would partially make up this deficiency, but it is believed that in many cases enumerators, having found that a farm had no sheep in 1910, omitted the inquiry as to wool produced in 1909 and thus missed more or less wool actually produced. It is a fairly safe assumption that the entire production of wool in 1909 bore the same relation to the entire number of sheep of shearing age on April 15, 1910, as the production of wool on those farms reporting both production and sheep bore to the number of sheep reported on such farms. Statistics for this group of farms are given in the table, and the total wool product, estimated on the basis of the above assumption, is also given.

1899, and the average value per pound was 17 cents, as compared with 15 cents in 1899.

	Number of farms reporting.	Sheep of shearing age.	WOOL PRODUCED.		
			Fleeces (number).	Weight (pounds).	Value.
Sheep of shearing age on farms April 15, 1910.	2,276	1,070,890			
Wool produced, as reported, 1909.	1,330		1,497,211	10,877,323	\$1,870,981
On farms reporting sheep April 15, 1910.	1,249	1,460,543	1,453,711	10,578,681	1,830,237
On other farms.	81		43,500	208,642	40,744
Total production of wool (partly estimated):					
1909.			1,003,074	12,102,220	2,003,827
1899.			2,076,703	17,050,077	2,509,038
Decrease, 1899 to 1909.			1,013,680	4,948,757	505,811
Per cent of decrease.			37.9	29.0	19.5

Goat hair and mohair: 1909 and 1899.—Although 134 farmers reported 29,014 goats and kids on their farms April 15, 1910, only 21 reported the production of goat hair or mohair during 1909. These farmers reported 13,040 fleeces, weighing 44,708 pounds, and valued at \$11,240. In 1899 the production of goat hair and mohair was negligible. Many farmers who have goats do not produce goat hair or mohair, but it is believed that the report is somewhat short of the actual production.

Poultry products: 1909 and 1899.—The statement below gives data relative to the production and sale of eggs and poultry:

	Number of farms reporting.	Number of fowls on hand.	PRODUCT.	
			Quantity.	Value.
Fowls on farms April 15, 1910.	17,443	691,041		
On farms reporting eggs produced in 1909.	15,088	629,538		
On other farms.	2,355	62,403		
Eggs produced, as reported, 1909.	15,304		4,240,007	\$907,330
Total production of eggs (partly estimated):				
1909.			4,672,806	999,950
1899.			3,387,340	424,628
Increase, 1899 to 1909.			1,285,526	575,331
Per cent of increase.			38.0	135.5
Eggs sold, as reported, 1909.	10,378		2,315,120	499,988
Fowls on farms April 15, 1910:				
On farms reporting poultry raised in 1909.	13,844	590,553		
On other farms.	3,599	101,388		
Poultry raised, as reported, 1909.	14,223		No. of fowls. 820,505	351,937
Total poultry raised (partly estimated):				
1909.			971,917	412,369
1899.				262,563
Increase, 1899 to 1909.				149,806
Per cent of increase.				57.1
Fowls sold, as reported, 1909.	7,238		208,015	140,798

The total number of fowls on Utah farms on April 15, 1910, was 692,000. Of the 17,443 farms reporting fowls, 2,355 did not report any eggs produced in 1909, and 3,599 did not report any poultry raised in 1909. The production of eggs actually reported for the year 1909 was 4,240,000 dozens, valued at \$907,000. According to the Twelfth Census reports the production of eggs in 1899 was 3,387,000 dozens, the value being \$425,000. The latter figures, however, are somewhat in excess of the actual returns at that census, because

they include estimates made to cover those cases where the schedules reported fowls on hand without reporting the production of eggs. In order to make the returns for 1909 comparable with those published for 1899 similar estimates have been made, the method of estimate and the justification therefor being substantially the same as in the case of wool. The total production of eggs in 1909, including these estimates, was 4,673,000 dozens, valued at \$1,000,000. The total production of poultry in 1909, including estimates made on the same basis as for eggs, was 972,000 fowls, valued at \$412,000.

Honey and wax: 1909.—Although, as noted elsewhere, 1,873 farms reported 26,185 colonies of bees on hand April 15, 1910, 525 of these farms, with 2,231 colonies on hand April 15, 1910, made no report of honey or wax produced in 1909. The actual returns show the production of 1,138,091 pounds of honey, valued at \$75,892, and 16,667 pounds of wax, valued at \$3,871; the true totals are doubtless somewhat above these figures.

Sale or slaughter of domestic animals on farms: 1909 and 1899.—The following statement presents statistics relating to the sale or slaughter of domestic animals by Utah farmers during the year 1909, with certain items for 1899:

	FARMS REPORTING.		Number of animals.	VALUE.	
	Number.	Percent of all farms.		Total.	Average.
1909—All domestic animals:					
Sold				\$5,899,382	
Slaughtered				750,854	
Calves:					
Sold	5,173	23.9	20,754	182,138	\$8.78
Slaughtered	1,293	5.7	5,312	40,830	8.82
Other cattle:					
Sold	5,060	27.4	110,780	2,958,063	26.71
Slaughtered	2,214	10.2	8,208	209,876	25.57
Horses:					
Sold	2,540	11.8	7,000	758,914	107.30
Mules:					
Sold	130	0.6	382	32,341	84.00
Asses and burros:					
Sold	20	0.1	79	7,770	98.35
Swine:					
Sold	2,850	13.2	30,072	232,347	7.73
Slaughtered	10,040	46.3	31,210	434,053	13.94
Sheep:					
Sold	738	3.4	425,080	1,714,184	4.03
Slaughtered	670	3.1	10,579	59,470	3.59
Goats:					
Sold	10	0.1	4,068	13,025	3.20
Slaughtered	53	0.2	2,798	5,724	2.05
1899—All domestic animals:					
Sold ¹				2,095,502	
Slaughtered				659,369	

¹ Schedules called for receipts from sales of animals raised on the farms reporting.

The total value of domestic animals sold during 1909 was \$5,899,000, and that of animals slaughtered on farms \$757,000, making an aggregate of \$6,656,000. This total, however, involves considerable duplication, resulting from the resale or slaughter of animals which had been purchased by the farmers during the same year.

The total value of the cattle (including calves) sold during 1909 represented somewhat more than one-half of the total value of animals sold, and the value

of sheep sold represented somewhat less than one-third.

The census of 1900 called for the receipts from the sale of all domestic animals raised on the farms reporting and the total value of those slaughtered during the year 1899, which amounted, respectively, to \$2,696,000 and \$659,000.

The item of sales is not closely comparable with that for 1909, when the inquiry covered all sales whether of animals raised on the farms reporting or elsewhere. It is believed, however, that in many cases the returns for 1899 also included receipts from sales of animals not actually raised on the farms reporting.

CROPS.

Summary: 1909 and 1899.—The following table summarizes the census data relative to all of the farm crops of 1909 and 1899. It includes not only general farm crops, but also flowers and plants, nursery products, and forest products of farms. In comparing one year with the other it should be borne in mind that acreage is on the whole a better index of the general

changes or tendencies of agriculture than either the quantity or the value of the crops, since variations in quantity may be due largely to temporarily favorable or unfavorable climatic conditions, and variations in the value of the crops are largely affected by changes in prices. (See also discussion of "Total value of farm products.")

	ACRES.				PER CENT OF IMPROVED LAND OCCUPIED.		VALUE OF PRODUCTS.					
	1909	1899	Increase. ¹		1909	1899	1909	1899	Increase. ¹		Per cent of total.	
			Amount.	Per cent.					Amount.	Per cent.	1909	1899
All crops.....							\$18,484,615	\$8,242,085	\$10,241,630	124.2	100.0	100.0
Crops with acreage reports.....	755,370	689,824	85,546	12.8	55.2	64.9	17,488,271	7,794,365	9,693,906	124.4	94.6	94.6
Cereals.....	298,613	255,939	42,674	16.8	21.8	24.8	6,092,281	2,386,789	3,705,492	155.3	33.0	20.0
Other grains and seeds.....	322	322	—	—	(3)	(3)	15,786	7,702	8,084	105.0	0.1	0.1
Hay and forage.....	405,394	388,043	17,351	4.5	29.6	37.6	7,420,901	3,862,820	3,567,081	92.3	40.2	40.0
Cotton (including cotton seed).....	—	10	—	—	(3)	(3)	—	262	262	—	(3)	(3)
Sugar crops.....	27,812	7,017	20,795	251.3	2.0	0.8	1,871,478	378,508	1,492,880	394.3	10.1	4.6
Sundry minor crops.....	(5)	35	—	—	(2)	(2)	80	334	—	—	(3)	(3)
Potatoes and sweet potatoes and yams.....	14,210	10,473	3,737	35.7	1.0	1.0	874,071	480,451	384,620	78.6	4.7	5.0
Other vegetables.....	7,006	6,023	983	10.3	0.5	0.6	717,776	300,099	321,077	81.2	3.0	4.8
Flowers and plants and nursery products.....	507	250	257	138.8	(3)	(3)	269,571	154,821	114,750	74.1	1.5	1.0
Small fruits.....	1,416	1,052	364	34.0	0.1	0.1	217,327	117,489	90,838	85.0	1.2	1.4
Crops with no acreage reports.....							996,344	448,620	547,724	122.1	5.4	5.4
Seeds.....							314,514	138,318	176,196	127.4	1.7	1.7
Fruits and nuts.....							671,165	620,102	379,293	120.0	3.6	3.5
Forest products of farms.....							6,730	13,325	—	—	(2)	0.2
Miscellaneous.....							3,935	5,075	—1,140	—22.5	(3)	0.1

¹ A minus sign (—) denotes decrease.
² Less than one-tenth of 1 per cent.

³ Less than 1 acre.
⁴ Per cent not calculated when base is less than 100.

⁵ Includes value of raisins and other dried fruits, wine, cider, vinegar, etc.

The total value of crops in 1909 was \$18,485,000. Of this amount, 94.6 per cent was contributed by crops for which the acreage as well as the value was reported, the remainder consisting of the value of by-products (straw, garden and grass seeds, etc.) derived from the same land as other crops reported, or of orchard fruits, nuts, forest products, and the like. The combined acreage of crops for which acreage was reported was 755,370, representing 55.2 per cent of the total improved land in farms (1,368,211 acres). Most of the remaining improved land doubtless consisted of improved pasture, land lying fallow, house and farm yards, and land occupied by orchards and vineyards, the acreage for which was not reported.

The general character of Utah agriculture is indicated by the fact that about one-third (33 per cent) of the total value of crops in 1909 was contributed by the cereals, about two-fifths (40.2 per cent) by hay and forage, and about one-tenth (10.1 per cent) by sugar crops. The remainder, representing in value 16.7 per cent of the total, consisted mostly of potatoes and other vegetables and fruits and nuts.

The total value of crops in 1909 was 124.2 per cent greater than in 1899, this increase being no doubt due in part to higher prices. There was an increase of 12.8 per cent in the total acreage of crops for which acreage was reported; there were increases in the acreage of every crop, the greatest absolute increase being that in the acreage of cereals.

General farm crops, minor grains and seeds, and sundry minor crops: 1879 to 1909.—The next table presents statistics for 1909 regarding cereals, other grains and seeds, hay and forage, potatoes, and sundry minor crops.

The leading crops covered by the table, in the order of their importance as judged by value, are hay and forage, \$7,430,000; wheat, \$3,765,000; oats, \$1,671,000; potatoes, \$874,000; and barley, \$473,000. It should be noted, however, that the production of sugar beets, which is reported in another table, is more important than that of oats, potatoes, or barley.

In both acreage and value hay and forage is the leading crop of the state, showing more than double the acreage and almost double the value of wheat, the

next crop in importance, and an acreage over 35 per cent greater and a value 22 per cent greater than that of the combined cereals. Both the acreage and the value of oats are less than half as great as that of wheat. Potatoes, with an acreage of about one-twelfth that of wheat, show a value a little less than one-fourth as great.

Of the hay and forage crops, by far the greatest in both acreage and value is alfalfa, the acreage of this crop being over seven-tenths and the value over eight-tenths that of all hay and forage. Next in order are "wild, salt, or prairie grasses," and "timothy alone."

CROP.	Farms reporting.	Acres harvested.	QUANTITY.		Value.
			Amount.	Unit.	
Cereals, total		298,613	8,296,625	Bu...	\$6,092,281
Corn.....	2,533	7,207	169,088	Bu...	134,896
Oats.....	9,781	80,810	3,221,280	Bu...	1,071,005
Wheat, total.....	12,387	178,423	3,943,910	Bu...	3,705,017
Common winter.....	5,294	110,048	2,388,663	Bu...	2,245,100
Common spring.....	7,550	58,442	1,554,684	Bu...	1,510,222
Durum or macaroni.....	7	33	563	Bu...	535
Emmer and spelt.....	15	48	1,131	Bu...	763
Barley.....	3,554	26,752	801,471	Bu...	472,810
Buckwheat.....	12	73	3,382	Bu...	1,880
Rye.....	390	5,234	65,754	Bu...	46,338
Other grains and seeds with acreage report, total		322	6,585	Bu...	15,786
Dry edible beans.....	208	196	3,352	Bu...	10,000
Dry peas.....	55	126	3,222	Bu...	5,786
Seeds with no acreage report, total					314,514
Clover seed.....	27	(²)	422	Bu...	2,595
Alfalfa seed.....	1,015	(²)	51,812	Bu...	310,100
Flower and garden seeds.....	1	(²)			700
Hay and forage, total	17,987	405,394	1,015,913	Tons.	7,429,901
Timothy alone.....	1,026	16,819	34,214	Tons.	302,950
Timothy and clover mixed.....	633	11,508	24,115	Tons.	204,650
Clover alone.....	77	728	1,793	Tons.	14,780
Alfalfa.....	16,565	284,182	791,355	Tons.	5,950,250
Millet or Hungarian grass.....	34	447	876	Tons.	6,312
Other tame or cultivated grasses.....	788	19,140	30,072	Tons.	217,886
Wild, salt, or prairie grasses.....	2,110	67,883	91,315	Tons.	530,020
Grains cut green.....	220	1,541	2,625	Tons.	20,500
Coarse forage.....	131	591	1,320	Tons.	9,218
Root forage.....	474	2,555	37,310	Tons.	173,278
Potatoes	12,109	14,210	2,400,003	Bu...	873,961
Sweet potatoes and yams.....	5	(⁴)	68	Bu...	110
Sundry minor crops, total.....		(⁴)			80

¹ Includes small amounts of flaxseed and peanuts.
² Includes small amounts of timothy seed, millet seed, and "other tame grass seed."
³ The entire acreage from which these seeds were secured is believed to be included in the acreage given elsewhere for hay and forage crops, flowers and plants, etc.
⁴ Less than 1 acre.
⁵ Includes small amounts of tobacco and broom corn.

The fluctuations in the acreages of some of the principal crops during the past 30 years are shown in the next table.

During the 30-year period covered by the table the total acreage of cereals increased from 116,495 to 298,613 acres, or 156.3 per cent. The acreage of corn fluctuated greatly, decreasing over 50 per cent from 1879 to 1889, increasing during the next 10 years to nearly the acreage of 1879, and falling off 36.9 per cent during the last decade. The acreage of oats has increased during each decade and is now over four times as great as at the beginning of the period. The acreage of wheat increased from 1879 to 1899 and in the latter year was over two and one-half times as great as in 1879. During the last decade the acreage has fallen off somewhat. Barley decreased in acreage

during the decade from 1879 to 1889, but has since increased, the acreage in 1909 being more than three times that of 1899. The acreage of hay and forage has increased during each decade and is now over six times as great as 30 years ago. Potatoes, though falling off in acreage during the first decade of the period, have since that time increased to nearly double the acreage of 1879.

CROP YEAR.	ACRES HARVESTED.					
	Corn.	Oats.	Wheat.	Barley.	Hay and forage.	Potatoes.
1909.....	7,207	80,810	178,423	26,752	405,394	14,210
1899.....	11,517	43,304	180,235	8,644	388,043	10,433
1889.....	5,782	22,747	84,505	0,440	150,308	6,591
1879.....	12,007	10,525	72,542	11,268	65,214	7,800

The following table shows for 1909 and 1899 the percentage which the farms reporting specified crops represented of all farms, the percentage of improved land devoted to these crops, and the percentage of increase or decrease in the acreage of each crop during the decade, together with the average yields and average values per acre for 1909:

CROP.	PER CENT OF FARMS REPORTING.		PER CENT OF IMPROVED LAND.		Per cent of increase in acres, 1899 to 1909. ¹	AVERAGE YIELD PER ACRE.	AVERAGE VALUE PER ACRE.
	1909	1899	1909	1899			
	Corn.....	11.7	18.0	0.5	1.1	-36.9	23.4 Bu.	$18.40
Oats.....	45.1	32.7	5.0	4.2	86.2	30.9 Bu.	20.08
Wheat.....	57.1	63.9	18.0	18.3	-5.7	22.1 Bu.	21.10
Barley.....	16.4	7.7	2.0	0.8	200.5	33.3 Bu.	17.07
Hay and forage.....	82.8	87.9	29.6	37.6	4.5	2.51 Tons.	18.33
Alfalfa.....	76.4	81.0	20.8	20.0	5.9	2.78 Tons.	20.94
Potatoes.....	56.3	52.5	1.0	1.0	36.2	100.5 Bu.	61.50

¹ A minus sign (-) denotes decrease.

Out of every hundred farms, 83 report hay and forage, 76 report alfalfa, 57 report wheat, 56 report potatoes, 45 report oats, 16 report barley, and 12 report corn. The proportions represent increases since 1899 in the case of oats, barley, and potatoes; and decreases in the case of corn, wheat, hay and forage, and alfalfa.

The six crops included in the table cover about one-half of the improved land. The leading crop in acreage is hay and forage, which covers about three-tenths of all improved land of the state, and of this proportion the acreage of alfalfa represents over two-thirds.

The average value per acre of the combined cereals in 1909 was \$20.40, wheat and oats showing averages in excess of this figure, and corn and barley averages below it. The average value per acre of all hay and forage is but little below that of the combined cereals, while that of alfalfa alone is above this amount.

The greater part of the agricultural land of Utah being in the north central and northern counties, the major part of the agricultural products are reported from these counties. Seven counties in this section report half of the oats acreage of the state. Two-thirds of the wheat acreage is reported from Cache,

Boxelder, Utah, Salt Lake, and Sanpete Counties. The acreage of hay and forage, although more widely distributed over the state than the acreages of the cereals, is heaviest in the same regions.

Vegetables, flowers and plants, and nursery products: 1909 and 1899.—The table which follows shows details with regard to vegetables (not including potatoes and sweet potatoes and yams, which appear elsewhere), and also with regard to flowers and plants and nursery products.

CROP.	FARMS REPORTING, 1909		ACRES.		VALUE OF PRODUCTS.	
	Number.	Per cent of all farms.	1909	1899	1909	1899
Vegetables, other than potatoes and sweet potatoes and yams, total.....	10,040	41.7	7,006	6,023	\$717,776	\$306,000
Farms reporting a product of \$500 or over.....	256	1.2	1,630		225,613	
All other farms.....	8,784	40.6	5,376		492,163	
Flowers and plants, total.....	33	0.2	20	14	81,116	34,173
Farms reporting a product of \$250 or over.....	25	0.1			79,914	
All other farms.....	8	(²)			1,202	
Nursery products, total.....	38	0.2	577	236	188,455	120,648
Farms reporting a product of \$250 or over.....	15	0.1			185,832	
All other farms.....	23	0.1			2,623	

¹ Does not include 1,996 farms which reported that they had vegetable gardens, but gave no information as to their products.

² Less than one-tenth of 1 per cent.

In 1909 the total acreage of potatoes and other vegetables was 21,216 and their value \$1,591,847. Excluding (so far as reported separately¹) potatoes and sweet potatoes and yams, the acreage of vegetables was 7,006 and their value \$718,000, both acreage and value being materially greater than in 1899. The table distinguishes between farms which make the raising of vegetables a business of some importance (having produced vegetables valued at \$500 or more in 1909) and other farms, on most of which vegetables are raised mainly for home consumption. There were in 1909 only 256 farms in the first class, representing nearly one-fourth of the total acreage of vegetables and nearly one-third of the total value, the average acreage of vegetables per farm for these farms being 6.4 and the average value of product per acre \$138.41.

The raising of flowers and plants and of nursery products was also of some importance in Utah, for, while only 597 acres were devoted to it in 1909, the output was valued at \$269,571. Most of the product was raised on farms where these branches of agriculture were carried on as an important business.

Orchard fruits, grapes, nuts, and tropical fruits: 1909 and 1899.—The following table presents data with regard to orchard fruits, grapes, nuts, and tropical

fruits. The acreage devoted to these products was not ascertained. In comparing one year with the other the number of trees or vines of bearing age is on the whole a better index of the general changes or tendencies than the quantity of product, but the data for the censuses of 1910 and 1900 are not closely comparable, and the product is therefore compared, although variations may be due largely to temporarily favorable or unfavorable climatic conditions.

CROP.	TREES OR VINES OF BEARING AGE, 1910		TREES OR VINES NOT OF BEARING AGE, 1910		PRODUCT.		
	Farms reporting.	Number.	Farms reporting.	Number.	Quantity. ¹	Value.	Quantity. ¹
Orchard fruits, total	1,385,681	1,641,755	633,739	\$640,904	397,863		
Apples.....	8,419	517,039	4,631	789,260	350,023	310,691	189,882
Peaches and nectarines.....	4,765	544,314	2,856	651,233	143,237	150,451	85,315
Pears.....	4,747	79,355	1,642	39,901	38,054	44,365	59,982
Plums and prunes.....	5,771	135,619	1,616	23,388	68,249	54,040	45,984
Cherries.....	4,244	79,775	2,300	109,119	21,402	54,170	9,905
Apricots.....	2,760	28,978	1,101	28,639	12,047	12,037	5,272
Quinces.....	134	597	48	215	118	135	(²)
Mulberries.....	1	4			9	15	(²)
Unclassified.....							1,523
Grapes	692	204,445	277	94,043	1,576,363	28,126	920,000
Nuts, total	1,737	1,180	16,649	1,547	9,110		
Persian or English walnuts.....	53	292	42	484	5,985	533	1,310
Almonds.....	113	1,408	39	664	10,664	1,014	7,600
Unclassified.....							2,200
Tropical fruits, total	387	175	588				
Figs.....	46	287	16	175	22,104	576	5,425
Pomegranates.....	1	100			400	12	

¹ Expressed in bushels for orchard fruits and pounds for grapes, nuts, and tropical fruits.

² Included with "unclassified."

³ Consists of products not separately named by the enumerator, but grouped under the designation "all other."

⁴ Includes hickory nuts, chestnuts, and pecans.

The total quantity of orchard fruits produced in 1909 was 634,000 bushels, valued at \$641,000. Apples contributed considerably more than one-half of this quantity, and peaches and nectarines ranked next in importance. The production of grapes in 1909 was 1,576,363 pounds, valued at \$28,126; there was also a small production of nuts and of tropical fruits.

The production of all orchard fruits together in 1909 was 59.3 per cent more in quantity than in 1899, and that of grapes also increased. The value of orchard fruits increased from \$263,000 in 1899 to \$641,000 in 1909, and that of grapes from \$27,736 in 1899 to \$28,126 in 1909. It should be noted in this connection that the values for 1899 include the value of more advanced products derived from orchard fruits or grapes, such as cider, vinegar, dried fruits, and the like, and may therefore involve some duplication, while the values shown for 1909 relate only to the products in their original condition.

The next table shows the quantities of the more advanced products manufactured by farmers from orchard fruits and grapes. Values were not called for on the schedule.

¹ It is probable that some of the potatoes and sweet potatoes and yams raised in farm gardens were not reported separately by farmers, but were included in their returns for vegetables.

PRODUCT.	FARMS REPORTING, 1909		QUANTITY PRODUCED.		
	Num-ber.	Percent of all farms.	Unit.	1909	1899
Cider.....	65	0.3	Gals...	5,347	13,828
Vinegar.....	92	0.4	Gals...	2,089	6,111
Wine and grape juice.....	50	0.2	Gals...	12,173	16,804
Raisins and dried grapes.....	66	0.3	Lbs.....	32,245	145,380
Other dried fruits.....	240	1.1	Lbs.....	71,498	

Small fruits: 1909 and 1899.—The following table shows data with regard to small fruits on farms:

CROP.	Number of farms report- ing, 1909	ACRES.		Quantity (quarts), 1909	Value, 1909
		1909	1899		
Small fruits, total.....		1,416	1,052	3,118,395	\$217,327
Strawberries.....	1,049	719	345	1,832,796	125,854
Blackberries and dewberries.....	247	65	72	184,140	13,447
Raspberries and loganberries.....	1,291	374	284	753,317	54,820
Currants.....	1,043	128	194	195,901	13,435
Gooseberries.....	851	100	110	147,241	9,705
Other berries.....			47		

Strawberries are by far the most important of the small fruits raised in Utah, with raspberries and loganberries ranking next. The acreage of small fruits in 1909 was 1,416 and in 1899, 1,052, an increase of 34.6 per cent. The production in 1909 was 3,118,000 quarts, as compared with 1,695,000 quarts in 1899, and the value \$217,000, as compared with \$117,000.

Forest products: 1909 and 1899.—The census schedules for 1910 called for the "value of all firewood, fencing material, logs, railroad ties, telegraph and telephone poles, materials for barrels, bark, naval stores, or other forest products cut or produced in 1909, whether used on farm, sold, or on hand April 15, 1910;" and also, in a separate item for the "amount received from sale of standing timber in 1909." There were 130 farms in Utah (0.6 per cent of all farms in the state) which reported forest products in 1909,

the total value of such products being \$6,730, as compared with \$13,325 in 1899, a decrease of 49.5 per cent. Of the value in 1909, \$5,809 was reported as that of products used or to be used on the farms themselves, \$765 as that of products sold or for sale, and \$156 as the amount received for standing timber. It should be noted that forest products not produced on farms are not included in this report.

Sugar crops: 1909 and 1899.—The table below shows data with regard to sugar beets and sorghum cane. The total value of sugar beets in 1909 was \$1,859,000, as compared with \$365,000 in 1899.

PRODUCT.	FARMS REPORTING.		Acres.	PRODUCT.		
	Num-ber.	Percent of all farms.		Amount.	Unit.	Value.
Sugar beets:						
1909 ¹	3,044	16.8	27,472	413,046	Tons...	\$1,858,000
1899.....	1,753	9.0	7,546	85,914	Tons...	365,163
Sorghum cane:						
Total, 1909 ²			340	1,054	Tons.....	12,878
Cane grown.....	155	0.7		21,847	Gals.....	12,571
Sirup made.....	152	0.7				13,435
Total, 1899.....						
Cane grown.....	283	1.5	371	3,080	Tons.....	442
Cane sold as such.....				101	Tons.....	442
Sirup made.....				28,017	Gals.....	12,003

¹ Includes beets used as root forage.
² Includes cane used as coarse forage.

Miscellaneous crops: 1909.—Straw and cornstalks derived as by-products from the production of grain and corn have a considerable value for feed and other purposes. They are, however, mainly consumed on the farms producing them. The Census Bureau made no attempt to ascertain the total quantity or value of these products, but the schedules called for the quantity and value of those sold during the year 1909. The returns show that 161 farmers in Utah sold, during 1909, 2,043 tons of straw, for which they received \$3,823, and that 6 farmers sold 46 tons of cornstalks and leaves, for which they received \$112.

SELECTED FARM EXPENSES AND RECEIPTS.

Farm expenses: 1909 and 1899.—The next table shows the number of farms reporting expenditures for labor, feed, and fertilizer at the census of 1910, as well as the sums expended in 1909 and 1899.

EXPENSE.	1909			1899	INCREASE.	
	Farms reporting.		Amount.	Amount.	Amount.	Per cent.
	Number.	Per cent of all farms.				
Labor.....	11,805	64.5	\$3,100,917	\$1,837,000	\$1,332,017	72.5
Feed.....	6,080	28.1	727,400	(¹)		
Fertilizer.....	571	2.6	20,037	14,800	5,787	40.1

¹ Not reported at the census of 1900.

Over half of the farmers hire labor, the average amount expended by the farmers hiring being \$269. During the decade the total expenditure for labor increased \$1,332,000, or 72.5 per cent. About one-tenth of the amount reported as expended for labor is in the form of rent and board. At prior censuses no tabulation was made of the number of farmers reporting expenditures for labor.

One farmer out of every four reports some expenditure for feed, but only about three out of every hun-

dred purchase fertilizer. The total amount reported as paid for fertilizer has increased \$5,787, or 40.1 per cent, during the decade, the average per farm reporting being \$35.09.

Receipts from sale of feedable crops: 1909.—An effort was made at this census to secure as complete a statement as possible of the sales as well as of the production of the more important feedable crops (that is, crops ordinarily fed to live stock). The following table summarizes the data reported:

CROP.	FARMS REPORTING.		QUANTITY SOLD.		Amount received.
	Number.	Per cent of all farms.	Amount.	Unit.	
Total.....					\$1,336,199
Corn.....	164	0.8	17,298	Bu.....	13,029
Oats.....	2,462	11.4	762,942	Bu.....	300,883
Barley.....	685	3.2	221,015	Bu.....	114,740
Hay and coarse forage.....	3,034	14.0	95,197	Tons...	817,547

While the total amount expended by Utah farmers for the purchase of feed in 1909 was \$727,000, the total receipts from the sale of feed by those reporting sales amounted to \$1,336,000.

COUNTY TABLES.

Tables 1 to 6, which follow, present by counties the more important agricultural data collected at the Thirteenth Census, 1910.

Table 1 shows the population, number of farms, land and farm area, value of farm property, and number and value of domestic animals and of poultry and bees, as of April 15, 1910. Comparative data for June 1, 1900, are given in italics for certain items.

Table 2 gives the number of farms, the farm acreage, and the value of farm property operated by owners, tenants, and managers, collected as of April 15, 1910. Statistics of farm mortgages are included in this table. (See explanation in text.) Comparative data for June 1, 1900, are given in italics for certain items.

Table 3 gives statistics pertaining to the products of live stock on farms (dairy products, poultry and eggs, honey and wax, and wool and mohair); also the

number and value of domestic animals sold or slaughtered on farms for the year 1909.

Table 4 shows the total value of farm crops and the principal classes thereof, together with the acreage (or trees of bearing age) and production of the principal crops for the crop year 1909.

Table 5 gives statistics relating to selected farm expenses for 1909 and also shows the receipts from the sale of feedable crops.

Table 6 shows the number and value of domestic animals in barns and inclosures not on farms, by classes, together with the number of dairy cows and mature horses and mules, on April 15, 1910.

Change of boundaries.—In comparing the data secured in 1910 with those for 1900, the fact should be kept in mind that part of Piute County was annexed to Sevier County in 1902.

TABLE I.—FARMS AND FARM PROPERTY,

[Comparative data for June 1, 1900, in italics.]

	THE STATE.	Beaver.	Boxelder.	Cache.	Carbon.	Davis.	Emery.
1 Population.....	373,351	4,717	13,894	23,062	8,621	10,101	6,750
2 <i>Population in 1900.....</i>	<i>276,749</i>	<i>3,613</i>	<i>10,000</i>	<i>18,189</i>	<i>6,004</i>	<i>7,996</i>	<i>4,687</i>
3 Number of all farms.....	21,476	319	1,527	1,907	171	1,302	666
4 <i>Number of all farms in 1900.....</i>	<i>19,387</i>	<i>301</i>	<i>1,017</i>	<i>1,795</i>	<i>144</i>	<i>938</i>	<i>468</i>
5 Color and nativity of farmers:							
6 Native white.....	15,048	274	1,113	1,337	121	1,019	498
7 Foreign-born white.....	6,452	44	373	557	50	282	108
8 Negro and other nonwhite.....	276	1	41	13	.....	1	.....
9 Number of farms, classified by size:							
10 Under 3 acres.....	297	8	8	3	3	17	4
11 3 to 9 acres.....	1,836	8	75	102	5	240	22
12 10 to 19 acres.....	2,541	29	116	193	16	240	41
13 20 to 49 acres.....	5,550	90	334	463	29	355	112
14 50 to 99 acres.....	4,170	63	281	398	40	231	105
15 100 to 174 acres.....	3,060	59	303	337	44	128	187
16 175 to 259 acres.....	1,372	30	122	145	14	44	72
17 260 to 499 acres.....	1,309	22	161	168	8	20	47
18 500 to 999 acres.....	551	5	77	69	5	7	13
19 1,000 acres and over.....	390	5	50	29	7	5	3
LAND AND FARM AREA							
20 Approximate land area.....	52,507,760	1,702,400	3,494,100	744,960	951,680	176,000	2,849,620
21 Land in farms.....	3,307,999	45,986	343,185	204,100	50,053	127,257	90,708
22 <i>Land in farms in 1900.....</i>	<i>2,839,230</i>	<i>29,834</i>	<i>270,669</i>	<i>316,682</i>	<i>27,075</i>	<i>225,957</i>	<i>90,708</i>
23 Improved land in farms.....	1,308,211	19,354	142,922	181,348	13,824	55,376	30,386
24 <i>Improved land in farms in 1900.....</i>	<i>1,032,117</i>	<i>14,321</i>	<i>90,703</i>	<i>109,272</i>	<i>8,780</i>	<i>69,575</i>	<i>25,018</i>
25 Woodland in farms.....	145,510	1,367	5,936	5,779	1,306	2,530	1,141
26 Other unimproved land in farms.....	1,883,978	25,265	194,327	107,033	41,463	69,345	59,181
27 Per cent of land area in farms.....	6.5	2.7	0.8	30.5	0.0	72.3	3.4
28 Per cent of farm land improved.....	40.3	42.1	41.6	61.6	24.4	43.5	40.7
29 Average acres per farm.....	156.7	144.2	224.7	154.3	331.3	97.7	145.2
30 Average improved acres per farm.....	93.1	60.7	63.0	95.1	80.8	42.5	59.1
VALUE OF FARM PROPERTY							
31 All farm property.....	160,795,201	1,953,193	13,853,605	15,552,104	1,457,253	10,561,500	3,859,308
32 <i>All farm property in 1900.....</i>	<i>76,175,141</i>	<i>817,668</i>	<i>4,429,116</i>	<i>6,347,995</i>	<i>459,261</i>	<i>4,815,819</i>	<i>1,272,268</i>
33 Per cent increase, 1900-1910.....	100.6	112.8	212.8	145.0	217.3	119.3	203.3
34 Land.....	99,482,164	1,104,837	9,606,488	11,134,236	852,555	7,815,163	2,587,302
35 <i>Land in 1900.....</i>	<i>40,126,660</i>	<i>414,920</i>	<i>2,636,160</i>	<i>4,089,700</i>	<i>173,920</i>	<i>3,040,200</i>	<i>664,760</i>
36 Buildings.....	18,063,168	187,900	1,454,482	2,008,692	110,725	1,084,785	391,795
37 <i>Buildings in 1900.....</i>	<i>10,651,700</i>	<i>174,010</i>	<i>510,090</i>	<i>850,700</i>	<i>61,010</i>	<i>736,800</i>	<i>215,560</i>
38 Implements and machinery.....	4,408,178	79,186	441,395	401,942	51,400	218,813	160,502
39 <i>Implements, etc., in 1900.....</i>	<i>2,222,550</i>	<i>42,010</i>	<i>204,090</i>	<i>300,410</i>	<i>16,190</i>	<i>153,370</i>	<i>90,600</i>
40 Domestic animals, poultry, and bees.....	23,781,091	521,180	2,261,330	2,007,334	433,573	842,805	719,799
41 <i>Domestic animals, etc., in 1900.....</i>	<i>21,474,241</i>	<i>226,128</i>	<i>1,076,076</i>	<i>1,107,125</i>	<i>208,141</i>	<i>825,449</i>	<i>405,368</i>
42 Per cent of value of all property in—							
43 Land.....	66.0	56.6	70.0	71.6	58.5	74.0	67.0
44 Buildings.....	12.0	9.6	10.5	12.9	8.2	10.0	10.2
45 Implements and machinery.....	3.0	4.1	3.2	2.6	3.5	2.1	4.2
46 Domestic animals, poultry, and bees.....	19.1	26.7	16.3	12.9	29.8	8.0	18.0
47 Average values:							
48 All property per farm.....	6,957	6,123	9,072	8,155	8,522	8,112	5,795
49 Land and buildings per farm.....	5,423	4,241	7,303	6,892	5,686	7,290	4,473
50 Land per acre.....	29.28	25.33	28.25	37.85	15.05	61.41	29.75
51 <i>Land per acre in 1900.....</i>	<i>9.75</i>	<i>14.19</i>	<i>4.62</i>	<i>12.92</i>	<i>6.22</i>	<i>13.45</i>	<i>10.42</i>
DOMESTIC ANIMALS (farms and ranges)							
52 Farms reporting domestic animals.....	20,798	312	1,463	1,780	157	1,266	614
53 Value of domestic animals.....	29,330,215	510,366	2,230,539	1,975,257	429,188	817,654	608,236
54 Cattle:							
55 Total number.....	* 412,334	10,378	* 28,707	23,799	8,752	* 7,676	14,039
56 Dairy cows.....	75,810	2,083	4,454	9,430	418	3,390	1,802
57 Other cows.....	185,174	4,387	13,880	6,154	7,027	1,373	7,595
58 Yearling heifers.....	50,120	1,316	3,915	3,413	543	934	1,097
59 Calves.....	33,042	796	2,200	2,805	285	1,052	868
60 Yearling steers and bulls.....	34,752	1,097	2,781	1,135	245	207	1,471
61 Other steers and bulls.....	26,383	699	627	856	234	206	306
62 Value.....	* 8,948,702	103,673	* 624,151	623,954	224,446	* 224,775	259,587
63 Horses:							
64 Total number.....	* 116,676	1,852	* 11,921	10,238	1,113	5,052	* 3,658
65 Mature horses.....	94,290	1,571	9,201	8,331	973	4,028	3,058
66 Yearling colts.....	14,070	208	1,515	1,415	82	720	403
67 Spring colts.....	4,541	73	555	492	58	284	144
68 Value.....	* 9,999,835	148,702	* 1,058,024	1,197,415	102,045	507,860	* 340,149
69 Mules:							
70 Total number.....	2,277	72	181	140	6	20	63
71 Mature mules.....	1,564	41	89	74	6	14	67
72 Yearling colts.....	575	26	69	59	.....	2	24
73 Spring colts.....	138	5	23	7	.....	4	2
74 Value.....	157,497	4,274	13,245	12,515	240	1,348	6,525
75 Asses and burros:							
76 Number.....	1,160	10	30	4	2	5	78
77 Value.....	68,246	1,710	6,205	3,900	310	805	1,385
78 Swine:							
79 Total number.....	64,286	1,516	5,492	4,323	422	3,273	3,595
80 Mature hogs.....	42,107	923	4,048	2,730	286	1,869	2,355
81 Spring pigs.....	22,179	593	1,444	1,593	136	1,404	1,240
82 Value.....	445,653	8,349	42,956	36,059	3,596	23,634	21,249
83 Sheep:							
84 Total number.....	1,827,180	20,499	92,439	15,091	26,270	10,870	15,437
85 Rams, ewes, and wethers.....	1,070,890	28,934	70,599	12,880	23,187	8,147	14,385
86 Spring lambs.....	156,290	565	21,840	2,211	3,083	2,723	1,052
87 Value.....	8,634,735	159,141	485,909	101,411	97,951	59,193	63,383
88 Goats:							
89 Number.....	29,014	5	7	1	.....	7	4
90 Value.....	75,547	16	49	3	.....	30	8
POULTRY AND BEES							
91 Number of poultry of all kinds.....	691,941	8,816	51,445	65,219	5,260	39,030	21,008
92 Value.....	327,908	4,435	24,481	25,514	2,795	20,659	7,525
93 Number of colonies of bees.....	26,185	82	1,382	1,921	314	1,387	2,436
94 Value.....	123,568	380	6,310	6,563	1,590	4,492	13,948

* Change of boundary. (See explanation at close of text.)

AGRICULTURE—UTAH.

BY COUNTIES: APRIL 15, 1910.

[Comparative data for June 1, 1900, in italics.]

	Garfield.	Grand.	Iron.	Juab.	Kane.	Millard.	Morgan.	Plute. ¹	Rich.	Salt Lako.	Sau Juan.	Sanpeto.	Sevier. ¹
1	3,060	1,595	3,933	10,702	1,052	0,118	2,467	1,734	1,883	131,426	2,377	10,704	9,775
2	3,400	1,149	3,540	10,032	1,811	6,078	2,045	1,954	1,940	77,725	1,023	16,313	8,451
3	400	172	373	507	160	730	242	198	210	2,180	157	1,708	1,059
4	237	121	255	550	213	676	209	189	276	2,208	85	1,618	940
5	354	159	304	373	153	560	196	172	150	1,303	105	1,170	762
6	55	13	68	118	13	168	40	20	69	861	10	535	295
7			1	16		8				16	42	3	2
8	34	28	15	2	33	1	1	1	1	31	15	12	11
9	20	11	19	25	14	17	5	4	5	434	12	98	71
10	43	14	30	32	14	20	12	14	8	437	16	162	94
11	87	25	75	71	37	134	43	40	25	730	20	415	330
12	62	12	75	116	17	142	40	49	36	817	11	392	203
13	94	33	57	127	15	164	32	35	44	139	37	230	129
14	24	13	41	38	13	102	24	15	22	46	3	143	69
15	33	17	20	55	13	104	45	21	39	24	22	111	34
16	7	7	8	20	3	24	25	10	20	13	12	56	16
17	5	12	18	21	7	22	15		19	9	0	33	12
18	3,349,700	2,362,880	2,083,840	2,182,400	2,697,000	4,226,560	400,040	488,320	657,280	483,840	4,967,040	1,000,960	1,265,920
19	50,973	62,089	88,027	108,564	24,773	160,027	95,048	25,860	149,500	190,262	48,797	261,771	122,332
20	28,800	15,282	23,502	79,317	23,060	108,009	138,028	27,548	160,300	275,030	18,240	188,059	75,207
21	10,109	0,470	17,934	53,400	8,685	54,540	11,091	10,064	81,770	121,221	0,098	105,807	50,338
22	13,652	4,748	7,740	20,351	6,211	50,163	11,308	12,340	48,053	74,042	4,360	91,971	41,516
23	3,488	5,437	0,228	6,228	0,522	2,418	1,808	2,222	1,493	2,150	2,336	9,416	4,227
24	37,376	50,182	60,135	48,870	9,560	109,069	82,149	8,683	60,237	45,885	39,763	146,548	61,767
25	1.8	2.6	4.2	5.0	0.9	3.9	23.9	5.3	22.7	35.0	1.0	26.2	9.7
26	31.0	10.4	20.4	49.3	35.1	32.7	12.2	65.6	54.7	71.6	13.7	40.4	46.1
27	146.6	361.0	236.0	214.1	149.2	226.4	395.2	130.7	682.7	77.6	310.8	153.3	115.5
28	40.7	37.6	48.1	105.5	52.3	74.1	48.3	86.7	373.4	55.6	42.7	61.0	53.2
29	1,974,548	2,211,692	2,535,806	3,191,717	1,178,123	4,765,300	1,880,000	1,037,058	2,701,420	17,835,174	1,000,851	8,812,872	6,071,687
30	919,004	715,659	611,006	1,591,969	709,767	2,634,144	1,014,568	569,275	2,802,363	11,111,084	618,710	6,084,738	2,007,218
31	114.7	209.0	314.6	100.5	66.7	88.0	105.6	12.9	209.8	60.5	209.8	33.0	
32	711,925	1,143,415	1,170,555	2,057,085	283,710	3,083,912	1,177,098	908,255	1,393,067	13,200,759	536,203	5,211,758	3,096,110
33	256,860	278,260	220,840	806,130	223,000	1,304,010	493,380	241,480	877,730	6,787,270	78,300	3,010,100	1,257,800
34	172,460	141,060	66,955	194,890	134,955	540,098	279,285	114,155	220,505	2,561,688	120,378	990,757	623,885
35	122,810	46,140	108,000	168,080	154,960	244,300	140,080	67,340	146,380	1,700,810	27,040	807,970	398,550
36	53,728	59,610	78,375	125,456	32,565	102,882	59,770	48,475	89,645	325,621	37,975	289,954	227,974
37	33,930	19,310	20,880	76,540	30,100	110,780	55,780	31,860	96,080	518,540	18,140	218,340	118,120
38	1,036,435	867,667	1,213,081	814,286	720,893	948,417	362,956	267,073	907,312	1,087,100	912,295	2,314,403	1,323,718
39	507,014	371,459	250,240	559,319	318,677	715,054	244,778	218,165	1,271,885	2,206,064	400,240	5,228,388	352,888
40	36.1	51.7	46.4	64.4	24.1	64.7	62.7	58.6	51.0	74.3	33.4	59.1	65.8
41	8.7	6.4	2.6	6.1	11.5	11.3	14.9	11.0	8.2	14.4	7.5	11.3	8.6
42	2.7	2.7	3.1	3.9	2.8	4.0	3.2	4.7	3.3	1.8	2.4	3.3	3.8
43	52.5	39.2	47.0	25.5	61.7	19.9	19.3	25.7	36.0	9.5	59.8	26.3	21.8
44	4,828	12,859	6,799	0,295	7,097	6,475	7,709	5,242	12,335	8,181	10,235	5,160	5,733
45	2,102	7,408	3,334	4,442	2,522	4,024	6,022	3,049	7,372	7,258	4,182	3,635	4,268
46	11,87	18,42	13,37	18,95	11,45	18,51	12,32	23,51	9,32	78,34	10,99	19,01	32,67
47	8.88	17.74	9.37	10.16	9.51	12.63	3.56	8.76	6.46	24.60	4.16	15.26	19.73
48	405	169	303	497	160	719	238	186	216	2,078	149	1,678	1,012
49	1,033,087	864,538	1,210,637	804,834	724,925	934,760	357,546	263,460	992,966	1,639,631	910,517	2,281,140	1,301,270
50	10,858	21,540	7,504	11,200	13,157	21,848	6,279	7,006	* 15,955	0,841	* 20,310	22,187	* 10,163
51	1,722	847	1,062	1,475	836	3,256	1,301	1,567	1,104	5,469	414	6,298	4,590
52	12,854	12,718	4,308	5,683	8,575	10,478	2,183	2,004	7,338	1,168	13,414	8,511	6,801
53	1,984	2,747	1,041	997	1,404	3,111	781	870	1,893	1,490	1,549	2,800	2,173
54	1,233	1,749	381	769	623	2,300	401	549	982	1,228	1,233	2,124	1,681
55	1,560	2,688	511	804	1,180	1,847	570	771	1,880	294	1,880	1,478	1,381
56	499	1,300	203	1,498	539	850	1,037	1,245	2,674	103	1,620	900	2,487
57	364,897	480,985	141,570	234,009	233,758	439,290	169,651	135,013	* 303,300	200,820	* 469,601	484,008	* 433,000
58	2,290	1,621	1,877	3,135	2,243	5,321	1,494	1,161	3,386	7,103	* 2,708	7,384	5,049
59	1,950	1,385	1,636	2,602	1,918	4,499	1,245	995	2,827	6,091	1,807	6,201	4,192
60	258	172	191	425	232	508	207	193	474	827	332	931	652
61	88	64	50	108	93	224	42	33	85	245	110	252	205
62	122,200	109,228	127,824	288,492	94,433	397,088	147,810	88,814	231,589	678,023	* 112,780	698,192	459,636
63	77	223	53	40	47	156	45	32	128	50	67	182	122
64	40	205	44	35	38	83	27	18	85	40	61	130	67
65	26	14	8	5	8	64	18	7	41	7	3	46	40
66	11	4	1		1	9		7	2	3	8	6	15
67	3,825	15,530	2,985	2,590	2,465	10,340	4,950	830	8,575	4,935	3,120	12,080	7,040
68	65	217		1	4	69	10	2	2	6	478	7	44
69	1,920	2,877		200	370	4,402	9,000	50	2,000	120	3,005	2,750	4,270
70	1,069	671	1,127	1,165	196	4,247	1,417	899	657	5,014	305	4,226	3,337
71	760	584	685	822	148	2,944	955	590	395	2,755	246	3,046	2,061
72	309	87	442	283	48	1,803	462	309	262	2,269	61	1,180	1,246
73	8,992	4,863	6,801	12,366	945	27,770	11,106	5,031	4,855	37,447	2,227	30,618	19,884
74	110,488	47,668	190,553	53,694	106,534	16,129	8,936	9,408	71,940	112,729	92,507	255,709	77,453
75	115,910	45,224	189,607	50,647	105,804	10,136	3,173	9,460	57,939	88,519	81,549	247,096	72,135
76	578	2,444	1,246	8,047	730	5,993	763	8	14,010	24,210	10,968	7,713	5,318
77	524,963	251,950	931,408	287,177	357,664	55,844	25,024	38,686	381,005	633,269	297,911	1,052,539	376,144
78	2,777	1	16		10,087	9	1	14	11	4	15,660	45	125
79	6,900	5	49		35,290	20	5	36	43	18	31,813	293	396
80	5,322	3,973	8,200	14,787	2,849	23,380	9,918	6,293	8,464	77,023	2,777	63,703	34,761
81	1,998	2,129	2,138	6,012	816	11,151	4,835	3,092	4,316	40,157	1,297	27,022	12,975
82	194	281	327	763	229	545	227	103	6	259	105	2,065	1,857
83	760	940	1,206	3,440	1,152	2,506	725	521	30	1,318	481	6,241	9,464

* Includes animals, age or sex not specified.

TABLE 1.—FARMS AND FARM PROPERTY, BY COUNTIES: APRIL 15, 1910—Continued.

[Comparative data for June 1, 1900, in Italics.]

Table with 11 columns representing counties: Summit, Tooele, Uinta, Utah, Wasatch, Washington, Wayne, Weber, and Indian res. Rows include population, number of farms, color and nativity of farmers, farm size distribution, land and farm area, value of farm property, domestic animals (cattle, horses, mules, asses, swine, sheep, goats), and poultry and bees.

1 Agricultural data for Indians on reservations in 1900 shown separately in last column of table.

2 Includes animals, age or sex not specified.

TABLE 2.—NUMBER, ACREAGE, AND VALUE OF FARMS CLASSIFIED BY TENURE, COLOR, AND NATIVITY OF FARMERS, AND MORTGAGE DEBT, BY COUNTIES: APRIL 15, 1910.

[Comparative data for June 1, 1900, in italics.]

	THE STATE.	Beaver.	Boxelder.	Cache.	Carbon.	Davis.	Emery.
FARMS OPERATED BY OWNERS							
1	Number of farms.....	10,762	285	1,382	1,750	1,205	625
2	Number of farms in 1900.....	<i>17,863</i>	<i>277</i>	<i>1,354</i>	<i>1,088</i>	<i>1,829</i>	<i>412</i>
3	Per cent of all farms.....	91.2	80.3	90.5	92.1	92.5	93.8
4	Per cent of all farms in 1900.....	<i>89.6</i>	<i>92.0</i>	<i>91.8</i>	<i>94.0</i>	<i>89.4</i>	<i>90.0</i>
5	Land in farms.....acres....	2,888,000	30,205	317,428	265,326	54,778	118,830
6	Improved land in farms.....acres....	1,202,072	17,430	126,800	166,140	12,633	50,505
7	Value of land and buildings.....dollars..	101,417,764	1,210,037	9,028,675	12,011,188	856,280	8,784,323
8	Degree of ownership:						
9	Farms consisting of owned land only.....	17,176	223	1,170	1,416	145	1,094
10	Farms consisting of owned and hired land.....	2,586	62	212	340	10	111
11	Color and nativity of owners:						
12	Native white.....	14,380	242	1,012	1,223	109	938
13	Foreign-born white.....	5,166	42	342	531	46	267
14	Negro and other nonwhite.....	216	1	28	2		
FARMS OPERATED BY TENANTS							
15	Number of farms.....	1,720	32	125	130	92	38
16	Number of farms in 1900.....	<i>1,718</i>	<i>24</i>	<i>62</i>	<i>91</i>	<i>83</i>	<i>43</i>
17	Per cent of all farms.....	7.9	10.0	8.2	7.3	8.8	7.1
18	Per cent of all farms in 1900.....	<i>8.8</i>	<i>8.0</i>	<i>6.1</i>	<i>5.1</i>	<i>9.0</i>	<i>8.8</i>
19	Land in farms.....acres....	194,233	2,046	17,306	24,260	1,075	7,316
20	Improved land in farms.....acres....	90,077	1,495	11,261	11,894	1,031	4,220
21	Value of land and buildings.....dollars..	9,581,841	110,790	982,635	853,905	96,000	597,625
22	Form of tenancy:						
23	Share tenants.....	887	28	67	50	21	27
24	Share-cash tenants.....	97		3	11	2	1
25	Cash tenants.....	490	3	35	35	2	5
26	Tenure not specified.....	296	1	20	34	9	5
27	Color and nativity of tenants:						
28	Native white.....	1,404	30	87	107	11	78
29	Foreign-born white.....	257	2	26	21	4	13
30	Negro and other nonwhite.....	59		12	11		1
FARMS OPERATED BY MANAGERS							
31	Number of farms.....	194	2	20	12	5	3
32	Number of farms in 1900.....	<i>211</i>		<i>21</i>	<i>16</i>	<i>5</i>	<i>3</i>
33	Land in farms.....acres....	315,370	3,835	8,451	4,574	200	1,105
34	Improved land in farms.....acres....	60,462	423	4,871	3,314	160	585
35	Value of land and buildings.....dollars..	6,545,737	23,000	539,060	277,675	20,000	148,100
MORTGAGE DEBT REPORTS¹							
36	For all farms operated by owners:						
37	Number free from mortgage debt.....	15,131	203	800	1,126	132	937
38	Number with mortgage debt.....	4,492	21	502	621	21	201
39	Number with no mortgage report.....	130	1	11	0	2	1
40	For farms consisting of owned land only:						
41	Number reporting debt and amount.....	3,520	17	300	440	10	225
42	Value of their land and buildings.....dollars..	21,310,580	117,150	2,707,325	3,006,494	97,700	1,703,213
43	Amount of mortgage debt.....dollars..	4,564,175	18,980	601,500	672,022	14,520	303,731
44	Per cent of value of land and buildings.....	21.4	16.2	21.7	18.7	14.9	21.4

¹ No mortgage reports were secured for farms operated by tenants and managers. (See explanation in text.)

TABLE 3.—LIVE STOCK PRODUCTS, AND DOMESTIC ANIMALS SOLD OR SLAUGHTERED ON FARMS, BY COUNTIES: 1909.

LIVE STOCK PRODUCTS							
Dairy Products							
1	Dairy cows on farms reporting dairy products.....number..	67,702	1,520	4,043	8,785	355	3,199
2	Dairy cows on farms reporting milk produced.....number..	59,007	1,520	3,099	6,185	355	3,060
3	Milk—Produced.....gallons.....	20,486,317	404,202	980,930	2,971,786	111,312	1,366,492
4	Sold.....gallons.....	8,471,713	42,340	158,991	3,430,353	22,343	561,247
5	Cream sold.....gallons.....	270,225	5,000	28,815	17,871	240	4,754
6	Butter fat sold.....pounds.....	914,133	28,888	23,000	89,712		60,652
7	Butter—Produced.....pounds.....	2,407,366	45,321	175,142	112,477	18,188	160,561
8	Sold.....pounds.....	910,581	11,238	55,120	30,208	3,200	85,485
9	Cheese—Produced.....pounds.....	84,102	100	40	32,000	1,000	
10	Sold.....pounds.....	62,005		40	32,000	200	
11	Value of dairy products, excluding home use of milk and cream.....dollars..	2,067,534	27,008	90,919	382,763	11,924	145,339
12	Receipts from sale of dairy products.....dollars..	1,648,655	18,573	60,967	302,337	7,438	122,269
Poultry Products							
13	Poultry—Raised.....number.....	820,505	10,081	63,103	64,592	7,180	67,964
14	Sold.....number.....	208,015	2,742	24,079	19,420	2,371	29,652
15	Eggs—Produced.....dozens.....	4,240,007	48,209	328,093	443,873	48,430	250,181
16	Sold.....dozens.....	2,315,120	16,417	185,731	201,490	13,345	147,903
17	Value of poultry and eggs produced.....dollars..	1,269,267	16,494	91,815	107,059	16,539	96,258
18	Receipts from sale of poultry and eggs.....dollars..	640,786	5,438	48,313	64,415	6,314	52,413
Honey and Wax							
19	Honey produced.....pounds.....	1,138,091	5,674	33,096	54,071	11,145	24,000
20	Wax produced.....pounds.....	16,667	25	788	1,327	462	200
21	Value of honey and wax produced.....dollars..	79,703	452	3,022	4,246	820	2,415
Wool, Mohair, and Goat Hair							
22	Wool, fleeces shorn.....number.....	1,497,211	25,101	61,593	11,440	11,200	10,604
23	Mohair and goat hair, fleeces shorn.....number..	13,040	3				
24	Value of wool and mohair produced.....dollars..	1,891,221	20,720	77,340	17,461	16,850	18,340
DOMESTIC ANIMALS SOLD OR SLAUGHTERED							
25	Calves—Sold or slaughtered.....number.....	20,000	404	1,348	4,832	117	1,614
26	Other cattle—Sold or slaughtered.....number..	118,988	3,150	13,743	12,213	4,067	985
27	Horses, mules, and asses and burros—Sold.....number..	7,530	156	873	609	40	415
28	Pigs—Sold or slaughtered.....number.....	61,282	1,408	5,326	7,020	689	3,725
29	Sheep and goats—Sold or slaughtered.....number..	449,184	24,284	29,856	6,762	4,284	2,600
30	Receipts from sale of animals.....dollars..	5,899,382	177,776	600,270	589,493	110,844	116,296
31	Value of animals slaughtered.....dollars..	766,854	14,604	47,242	51,013	31,279	17,191

TABLE 2.—NUMBER, ACREAGE, AND VALUE OF FARMS CLASSIFIED BY TENURE, COLOR, AND NATIVITY

[Comparative data for June 1, 1900, in italics.]

	Garfield.	Grand.	Iron.	Juab.	Kane.	Millard.	Morgan.	Piute. ¹	
FARMS OPERATED BY OWNERS									
1	Number of farms.....	353	156	333	495	164	670	213	174
2	Number of farms in 1900.....	<i>253</i>	<i>105</i>	<i>205</i>	<i>314</i>	<i>205</i>	<i>639</i>	<i>253</i>	<i>166</i>
3	Per cent of all farms.....	86.3	90.7	89.3	97.6	98.3	91.0	88.0	87.9
4	Per cent of all farms in 1900.....	<i>98.3</i>	<i>86.8</i>	<i>87.2</i>	<i>88.2</i>	<i>96.2</i>	<i>93.5</i>	<i>86.5</i>	<i>87.8</i>
5	Land in farms..... acres.....	52,051	59,326	63,529	101,278	24,343	131,715	75,718	21,976
6	Improved land in farms..... acres.....	16,050	5,526	13,739	49,622	8,420	43,497	0,640	14,180
7	Value of land and buildings..... dollars.....	740,410	1,040,675	977,708	2,156,245	412,065	2,759,820	1,193,608	616,385
Degree of ownership:									
8	Farms consisting of owned land only.....	351	130	298	458	157	584	150	141
9	Farms consisting of owned and hired land.....	2	17	35	7	7	86	54	33
Color and nativity of owners:									
10	Native white.....	306	144	265	361	151	499	170	140
11	Foreign-born white.....	47	12	67	118	13	163	43	25
12	Negro and other nonwhite.....			1	16		8		
FARMS OPERATED BY TENANTS									
13	Number of farms.....	50	5	37	9	2	51	24	24
14	Number of farms in 1900.....	<i>4</i>	<i>11</i>	<i>17</i>	<i>39</i>	<i>4</i>	<i>37</i>	<i>20</i>	<i>22</i>
15	Per cent of all farms.....	13.7	2.9	9.9	1.8	1.2	6.9	9.9	12.1
16	Per cent of all farms in 1900.....	<i>1.7</i>	<i>0.1</i>	<i>7.2</i>	<i>11.0</i>	<i>1.9</i>	<i>5.5</i>	<i>0.7</i>	<i>11.6</i>
17	Land in farms..... acres.....	7,322	530	2,988	1,586	430	6,942	2,839	3,803
18	Improved land in farms..... acres.....	3,050	205	1,195	584	205	3,403	1,223	2,784
19	Value of land and buildings..... dollars.....	134,975	43,400	78,702	33,730	6,000	245,910	123,375	106,025
Form of tenancy:									
20	Share tenants.....	13	1	21	5	1	31	4	20
21	Share-cash tenants.....	2			1		4	14	1
22	Cash tenants.....	6	3	1			11	6	1
23	Tenure not specified.....	35	1	15	3	1	5		2
Color and nativity of tenants:									
24	Native white.....	48	5	30	9	2	47	21	23
25	Foreign-born white.....	8		1			4	3	1
26	Negro and other nonwhite.....								
FARMS OPERATED BY MANAGERS									
27	Number of farms.....		11	3	3		15	5	
28	Number of farms in 1900.....		<i>5</i>	<i>18</i>	<i>3</i>		<i>7</i>	<i>12</i>	<i>1</i>
29	Land in farms..... acres.....		2,224	21,510	5,700		27,070	17,061	
30	Improved land in farms..... acres.....		730	3,000	3,200		7,640	822	
31	Value of land and buildings..... dollars.....		200,400	187,100	62,000		618,280	140,300	
MORTGAGE DEBT REPORTS									
For all farms operated by owners:									
32	Number free from mortgage debt.....	318	120	303	408	152	585	107	132
33	Number with mortgage debt.....	31	26	23	68	12	75	40	41
34	Number with no mortgage report.....	4	1	7	19		10		1
For farms consisting of owned land only:									
35	Number reporting debt and amount.....	30	21	14	84	10	56	31	33
36	Value of their land and buildings..... dollars.....	101,885	154,295	85,600	327,315	37,980	220,330	180,040	109,250
37	Amount of mortgage debt..... dollars.....	36,065	15,198	18,280	63,992	9,180	40,500	24,495	28,607
38	Per cent of value of land and buildings.....	26.5	9.9	21.4	28.7	24.2	21.1	13.0	26.2

¹ Change of boundary. (See explanation at close of text.)

² Agricultural data for Indians on reservations in 1900 shown separately in last column of table.

TABLE 3.—LIVE STOCK PRODUCTS, AND DOMESTIC ANIMALS

LIVE STOCK PRODUCTS									
Dairy Products									
1	Dairy cows on farms reporting dairy products..... number.....	1,385	334	511	1,286	624	2,994	1,260	1,378
2	Dairy cows on farms reporting milk produced..... number.....	1,101	321	242	1,093	617	2,653	1,260	1,352
3	Milk—Produced..... gallons.....	260,680	79,911	51,090	303,566	97,340	746,543	481,190	267,911
4	Sold..... gallons.....	1,210	2,491	5,120	39,723	65	205,415	12,610	37,781
5	Cream sold..... gallons.....	6,419			850		23,205	3,414	12,301
6	Butter fat sold..... pounds.....	1,650			70,723		14,546	60,786	10,643
7	Butter—Produced..... pounds.....	36,009	15,562	30,702	40,753	20,633	82,352	54,582	12,784
8	Sold..... pounds.....	9,758	6,714	11,005	9,629	4,008	16,193	15,049	2,731
9	Cheese—Produced..... pounds.....	13,873	200	3,680		6,882			3,150
10	Sold..... pounds.....	8,240	50	2,950		2,915			3,100
11	Value of dairy products, excluding home use of milk and cream..... dollars.....	18,086	4,892	9,040	37,271	6,130	65,164	35,168	20,530
12	Receipts from sale of dairy products..... dollars.....	10,549	2,161	3,968	27,600	1,525	47,910	20,037	17,909
Poultry Products									
13	Poultry—Raised..... number.....	4,136	6,577	307	5,989	2,257	23,740	9,514	5,282
14	Sold..... number.....	994	1,857	60	1,440	364	8,135	2,182	2,173
15	Eggs—Produced..... dozens.....	27,850	23,804	18,705	89,697	8,063	153,379	70,608	32,252
16	Sold..... dozens.....	7,727	7,086	1,235	28,891	1,295	80,799	34,440	14,998
17	Value of poultry and eggs produced..... dollars.....	4,224	9,336	2,989	20,182	2,066	38,622	17,043	9,628
18	Receipts from sale of poultry and eggs..... dollars.....	1,284	2,829	160	6,498	352	20,023	7,540	5,000
Honey and Wax									
19	Honey produced..... pounds.....	6,285	7,039	11,694	30,150	6,865	13,871	4,958	2,091
20	Wax produced..... pounds.....	30	31	8	595	257	524	65	66
21	Value of honey and wax produced..... dollars.....	307	748	781	2,240	607	1,154	444	233
Wool, Mohair, and Goat Hair									
22	Wool, fleeces shorn..... number.....	95,257	44,592	171,198	61,440	97,325	22,145	2,842	10,927
23	Mohair and goat hair, fleeces shorn..... number.....	850	1			11,462			
24	Value of wool and mohair produced..... dollars.....	112,772	63,705	210,561	76,470	117,740	25,682	4,363	12,860
DOMESTIC ANIMALS SOLD OR SLAUGHTERED									
25	Calves—Sold or slaughtered..... number.....	439	194	222	611	94	998	288	199
26	Other cattle—Sold or slaughtered..... number.....	3,476	4,657	2,440	1,051	1,747	9,334	1,338	2,234
27	Horses, mules, and asses and burros—Sold..... number.....	120	65	41	81	157	609	43	40
28	Swine—Sold or slaughtered..... number.....	729	348	348	761	199	2,629	1,383	669
29	Sheep and goats—Sold or slaughtered..... number.....	12,500	15,742	16,471	3,559	25,877	4,828	229	2,370
30	Receipts from sale of animals..... dollars.....	115,310	175,191	122,572	56,024	132,005	271,328	40,929	86,034
31	Value of animals slaughtered..... dollars.....	17,680	16,359	6,144	6,707	10,300	28,092	12,474	9,208

OF FARMERS, AND MORTGAGE DEBT, BY COUNTIES: APRIL 15, 1910—Continued.

[Comparative data for June 1, 1900, in italics.]

	Rich.	Salt Lake.	San Juan.	Sanpete.	Sevier. ¹	Summit.	Tooele.	Uinta. ²	Utah.	Wasatch. ³	Washing- ton.	Wayne.	Weber.	Indian res.
1	198	1,876	151	1,628	987	407	289	601	2,641	890	583	233	1,312	
2	<i>235</i>	<i>1,828</i>	<i>73</i>	<i>1,452</i>	<i>879</i>	<i>646</i>	<i>459</i>	<i>507</i>	<i>2,487</i>	<i>459</i>	<i>459</i>	<i>232</i>	<i>1,288</i>	
3	90.4	86.1	90.2	95.3	93.2	91.1	90.3	80.0	91.9	92.3	97.5	94.7	85.5	
4	<i>84.4</i>	<i>82.3</i>	<i>85.0</i>	<i>83.0</i>	<i>92.9</i>	<i>89.0</i>	<i>89.0</i>	<i>80.7</i>	<i>90.1</i>	<i>88.0</i>	<i>99.2</i>	<i>85.0</i>	<i>87.1</i>	<i>93.7</i>
5	71,231	147,251	47,703	252,560	100,780	177,325	77,577	71,048	105,237	140,318	49,019	28,659	115,820	
6	51,755	108,528	0,445	99,430	52,384	28,856	29,640	30,195	110,895	39,822	13,304	10,474	60,588	
7	1,230,987	12,956,827	645,340	5,767,688	4,105,725	1,909,855	2,392,240	2,221,712	13,203,501	3,013,780	1,128,155	403,428	7,387,819	
8	173	1,632	144	1,408	806	381	247	582	2,147	805	530	210	1,071	
9	25	<i>244</i>	<i>7</i>	<i>160</i>	<i>181</i>	<i>26</i>	<i>42</i>	<i>10</i>	<i>494</i>	<i>85</i>	<i>53</i>	<i>14</i>	<i>241</i>	
10	129	1,088	100	1,105	697	269	194	429	1,093	734	488	210	909	
11	69	<i>780</i>	<i>10</i>	<i>521</i>	<i>290</i>	<i>138</i>	<i>94</i>	<i>91</i>	<i>647</i>	<i>148</i>	<i>79</i>	<i>23</i>	<i>401</i>	
12		8	41	2			1	81	1	8	10		2	
13	17	277	3	78	67	26	20	72	205	72	14	11	203	
14	<i>22</i>	<i>359</i>	<i>0</i>	<i>155</i>	<i>60</i>	<i>44</i>	<i>35</i>	<i>45</i>	<i>261</i>	<i>52</i>	<i>14</i>	<i>37</i>	<i>178</i>	
15	7.8	12.7	1.9	4.0	6.3	5.8	8.1	10.7	7.1	7.5	2.3	4.5	13.2	
16	<i>8.0</i>	<i>15.4</i>	<i>5.9</i>	<i>9.0</i>	<i>5.3</i>	<i>7.8</i>	<i>7.8</i>	<i>8.1</i>	<i>9.1</i>	<i>10.0</i>	<i>2.9</i>	<i>15.7</i>	<i>18.0</i>	<i>4.0</i>
17	0,062	17,218	84	8,861	4,555	13,624	8,325	10,104	13,230	7,520	1,214	1,918	14,081	
18	0,724	10,105	44	0,018	3,013	2,154	2,000	5,218	8,440	3,293	288	784	6,545	
19	112,485	2,309,820	6,600	415,832	209,605	176,500	177,050	203,800	1,050,405	222,165	24,360	30,700	975,437	
20	7	130	1	60	37	9	12	38	118	35	5	7	78	
21		6		5	3		4	2	18	11		1	6	
22	10	119		10	14		13	12	45	15		3	106	
23		22	2	3	13	4	1	19	24	11	6	2	13	
24	17	190	2	63	61	22	21	63	187	60	13	9	153	
25		79		14	4		4	8	18	3			30	
26		8	1	1	2		1	1			1		20	
27	4	27	3	2	5	14	5	2	27	2	1	2	20	
28	<i>21</i>	<i>41</i>	<i>7</i>	<i>50</i>	<i>17</i>	<i>19</i>	<i>16</i>	<i>7</i>	<i>22</i>	<i>4</i>	<i>4</i>	<i>2</i>	<i>15</i>	
29	68,310	4,793	920	350	16,961	70,107	2,430	920	20,250	245	40	1,040	18,458	
30	23,300	2,588	209	350	941	2,135	2,090	335	5,061	105	40	280	2,698	
31	202,000	555,800	4,575	25,000	144,605	380,750	178,842	17,000	1,705,175	8,575	10,000	11,000	722,400	
32	142	1,418	142	1,307	633	355	245	457	1,071	790	553	208	942	
33	56	464	9	319	351	51	44	115	648	98	30	23	369	
34		4		2	3			29	22			2	1	
35	40	360		256	274	42	31	105	489	81	21	18	286	
36	382,455	1,911,205	26,018	1,177,998	1,312,515	305,313	372,005	403,975	2,675,370	491,002	49,555	58,200	1,022,612	
37	122,426	396,025	8,300	237,972	266,324	64,685	55,250	90,810	650,940	118,745	7,125	11,195	381,014	
38	32.0	20.8	31.9	20.2	20.3	21.2	14.8	21.5	24.3	24.2	15.3	19.2	23.5	

¹ No mortgage reports were secured for farms operated by tenants and managers. (See explanation in text.)

SOLD OR SLAUGHTERED ON FARMS, BY COUNTIES: 1909—Continued.

1	1,068	4,862	254	5,905	4,188	2,808	711	1,005	6,861	2,264	1,300	1,561	4,821	
2	1,030	4,806	219	5,207	3,711	2,427	701	1,626	5,733	2,200	1,382	1,473	3,062	
3	299,284	2,281,938	20,951	1,856,819	1,485,460	774,159	202,440	408,370	1,855,018	617,062	291,197	276,620	1,038,928	
4	103,010	977,296	913	1,001,723	115,175	164,530	15,201	26,116	631,541	145,799	3,801	3,300	820,503	
5	1,560	7,276		31,065	48,090	30,707	1,000	707	7,950	2,666	227	7,876	19,911	
6		18,723		105,281	117,227	55,816		2,897	61,030	31,484		1,440	159,239	
7	33,010	375,122	4,587	176,313	149,002	52,783	46,900	80,381	415,561	95,141	63,416	20,404	91,714	
8	13,673	195,753	905	50,739	35,412	26,904	17,091	18,004	180,379	33,004	7,615	1,804	45,952	
9		400		529	2,175	30	18	7,855		4,640	3,990	3,491		
10		300		170	1,600			5,810		3,000	250	1,440		
11	18,199	296,158	1,548	175,951	119,870	82,573	10,863	20,075	207,144	51,250	18,048	16,030	166,991	
12	12,914	245,680	484	145,871	90,590	75,308	8,452	10,074	142,760	35,089	3,230	8,965	153,902	
13	9,804	99,043	3,051	60,345	39,618	11,785	18,107	30,060	118,010	31,230	13,823	8,773	94,741	
14	4,817	38,218	693	19,169	13,917	3,294	8,229	5,061	40,747	9,474	4,029	1,823	36,480	
15	54,079	445,995	10,747	440,101	232,084	72,538	80,581	109,090	580,249	133,043	55,519	27,978	314,100	
16	28,150	249,032	2,256	303,136	139,184	25,359	37,464	27,215	827,144	63,848	16,852	14,930	192,366	
17	14,634	165,692	3,690	110,365	91,352	29,537	20,448	35,133	173,133	46,164	13,942	7,636	113,297	
18	7,997	87,911	914	65,800	34,495	7,325	12,103	10,200	91,813	19,870	4,690	3,213	62,083	
19	100	19,443	6,025	130,022	110,088	25	0,390	182,292	101,122	32,805	16,988	7,342	103,820	
20		50	2,051	1,844	1,844		3	1,797	1,197	511	588	200	1,806	
21	10	1,590	598	8,790	7,035	53	606	10,015	8,955	2,782	1,198	440	6,870	
22	49,408	77,458	84,292	231,930	68,655	73,735	58,014	37,000	61,140	67,896	17,902	29,844	4,743	
23				301	250	7		150			16			
24	77,654	116,638	75,951	281,213	80,205	97,385	81,300	57,013	75,575	87,620	20,570	28,478	5,074	
25	471	2,081	497	2,051	1,098	780	309	3,037	3,037	598	178	80	2,062	
26	6,580	2,300	5,185	5,089	6,390	3,027	1,493	8,245	5,245	3,158	5,934	2,077	2,873	
27	233	298	100	434	343	287	157	118	774	213	154	110	903	
28	1,082	5,130	300	4,737	3,204	1,057	1,320	1,556	6,082	2,160	1,208	4,392	1,932	
29	28,152	5,400	22,474	61,757	16,081	32,510	21,340	7,791	20,122	67,452	2,574	5,460	6,119	
30	313,575	144,608	167,253	420,310	270,691	274,049	149,700	99,252	444,097	462,399	125,833	80,771	244,146	
31	38,918	54,931	20,118	54,809	33,599	16,974	10,079	23,047	82,120	21,887	18,420	14,197	53,560	

AGRICULTURE—UTAH.

TABLE 4.—VALUE OF ALL CROPS AND PRINCIPAL CLASSES THEREOF, AND

		THE STATE.	Beaver.	Boxelder.	Cache.	Carbon.	Davis.	Emery.
VALUE OF ALL CROPS								
1	Total.....	dollars.. 18,484,615	220,101	2,154,514	2,305,447	213,878	1,239,177	489,169
2	Cereals.....	dollars.. 6,092,281	77,811	746,152	1,098,830	37,835	270,043	105,994
3	Other grains and seeds.....	dollars.. 330,300	4,605	26,692	44,529	5,565	2,320	104,226
4	Hay and forage.....	dollars.. 7,420,001	110,532	556,552	673,341	119,702	433,138	150,164
5	Vegetables.....	dollars.. 1,591,847	10,344	95,022	72,045	35,194	374,798	41,634
6	Fruits and nuts.....	dollars.. 885,492	5,174	141,311	40,831	15,570	83,722	26,828
7	All other crops.....	dollars.. 2,151,794	235	587,085	309,802	10	75,155	323
SELECTED CROPS (acres and quantity)								
8	Cereals:							
9	Total.....	acres.. 298,613	3,915	41,749	59,185	1,609	13,242	8,686
10	Corn.....	bushels.. 8,298,625	107,771	1,104,445	1,371,921	48,682	378,828	216,680
11	Oats.....	acres.. 7,207	130	94	187	80	113	185
12	Wheat.....	acres.. 80,810	3,616	3,310	5,108	1,289	3,561	3,092
13	Barley.....	bushels.. 3,221,289	1,937	6,842	6,383	615	1,029	4,602
14	Rye.....	acres.. 178,423	64,962	383,041	285,101	34,638	52,110	132,090
15	Other grains.....	bushels.. 3,043,010	1,606	26,873	51,112	422	7,585	3,782
16	Other grains.....	acres.. 20,752	82	7,898	1,497	71	137,084	3,659
17	Barley.....	bushels.. 891,471	2,728	213,390	31,370	2,280	85	1,900
18	Rye.....	acres.. 5,234	100	35	45	100	79	200
19	Other grains.....	bushels.. 65,754	1,055	607	45	100	10	10
20	Other grains:							
21	Dry peas.....	acres.. 126	5	5	5	5	5	5
22	Dry edible beans.....	bushels.. 3,222	10	270	3	3	3	3
23	Hay and forage:							
24	Total.....	bushels.. 3,352	12	68	51	12	07	85
25	All tame or cultivated grasses.....	acres.. 405,394	7,573	31,399	40,334	4,832	15,700	9,840
26	Timothy alone.....	tons.. 1,015,913	16,764	84,095	106,989	11,278	48,075	17,317
27	Timothy and clover mixed.....	acres.. 332,824	5,328	25,781	34,705	4,054	14,411	9,480
28	Clover alone.....	tons.. 835,325	13,171	74,064	99,220	11,086	40,180	16,684
29	Alfalfa.....	acres.. 10,819	80	1,593	1,831	23	746	10
30	Millet or Hungarian grass.....	tons.. 34,214	170	2,731	2,141	74	1,012	11
31	Other tame or cultivated grasses.....	acres.. 11,508	35	598	2,141	74	1,012	11
32	Wild, salt, or prairie grasses.....	tons.. 24,115	92	1,151	5,032	1,042	1,000	25
33	Grains cut green.....	acres.. 1,733	10	80	18	40	100	79
34	Coarse forage.....	tons.. 1,320	9	200	29,492	3,547	12,012	9,184
35	Special crops:							
36	Potatoes.....	acres.. 14,210	257	734	1,215	313	1,724	350
37	All other vegetables.....	bushels.. 2,409,063	42,077	134,538	213,135	40,990	335,630	62,281
38	Sugar beets.....	acres.. 7,000	43	468	227	63	2,163	137
39	FRUITS AND NUTS							
40	Total.....	tons.. 413,046	1	124,811	5,943	451	15,026	2
41	Orchard fruits:							
42	Total.....	acres.. 1,385,681	7,302	230,692	46,545	7,557	133,029	39,313
43	Apples.....	bushels.. 633,739	6,171	96,167	42,342	12,502	37,787	36,422
44	Peaches and nectarines.....	acres.. 517,039	4,984	39,709	30,820	4,398	54,730	25,501
45	Pears.....	bushels.. 350,023	5,374	38,814	36,804	7,010	10,747	26,381
46	Plums and prunes.....	acres.. 544,314	465	114,475	980	843	43,737	7,102
47	Cherries.....	bushels.. 143,237	6	44,315	323	2,023	9,073	2,893
48	Apricots.....	acres.. 79,355	353	2,449	1,422	1,119	2,120	1,723
49	Quinces.....	bushels.. 38,654	53	1,209	495	1,892	804	2,210
50	Grapes.....	acres.. 136,619	1,237	10,843	5,413	713	7,043	3,008
51	Tropical fruits:							
52	Total.....	bushels.. 98,249	632	7,841	3,822	1,019	4,408	3,415
53	Plums and prunes.....	acres.. 79,775	183	10,031	1,791	183	20,281	3,405
54	Cherries.....	bushels.. 21,402	105	3,817	884	117	6,131	324
55	Apricots.....	acres.. 28,078	87	3,114	104	311	4,145	848
56	Quinces.....	bushels.. 12,047	1	1,080	14	451	501	1,181
57	Grapes.....	acres.. 507	3	71	71	10	10	2
58	Small fruits:							
59	Total.....	pounds.. 1,570,303	1	87,075	2,135	30	10,804	523
60	Strawberries.....	acres.. 387	10	170	82	2	132	14
61	Raspberries and loganberries.....	acres.. 3,118,585	10,093	446,397	118,025	4,608	249,754	20,258
62	Currants.....	acres.. 719	(?)	88	40	(?)	65	1
63	Other small fruits.....	acres.. 1,832,790	156	240,870	61,547	1,825	127,000	1,005
64	Nuts:							
65	Total.....	acres.. 374	1	37	20	(?)	42	1
66	Almonds.....	acres.. 758,317	494	66,695	36,249	300	82,239	1,020
67	Other nuts.....	acres.. 128	5	10	5	1	7	9
68	Receipts from sale of feedable crops.....	quarts.. 195,001	5,471	36,742	5,874	1,168	7,595	13,035
69	Total.....	acres.. 1,737	79	79	3	3	238	81
70	Almonds.....	pounds.. 16,649	220	115	100	100	1,770	270
71	Other nuts.....	acres.. 1,408	68	68	68	68	165	1
72	Receipts from sale of feedable crops.....	pounds.. 10,664	100	100	100	100	1,210	1

1 Change of boundary. (See explanation at close of text.)

TABLE 5.—SELECTED FARM EXPENSES

1	Labor.....	Farms reporting.....	11,805	134	997	1,243	110	775	344
2	Cash expended.....	dollars.. 2,863,709	25,341	412,494	245,270	35,957	163,700	92,938	
3	Rent and board furnished.....	dollars.. 300,208	4,502	40,331	25,002	6,835	18,010	2,850	
4	Fertilizer.....	Farms reporting.....	571	29	87	4	97	45	
5	Amount expended.....	dollars.. 20,937	1,207	1,207	4,744	147	1,591	1,489	
6	Feed.....	Farms reporting.....	6,080	55	563	477	57	410	
7	Amount expended.....	dollars.. 727,409	4,570	79,478	49,979	7,157	45,141	24,029	
8	Receipts from sale of feedable crops.....	dollars.. 1,336,199	25,867	145,886	87,261	29,039	75,613	28,500	

AGRICULTURE-UTAH.

ACREAGE AND PRODUCTION OF PRINCIPAL CROPS, BY COUNTIES: 1909.

Table with 13 columns representing counties (Garfield, Grand, Iron, Juab, Kane, Millard, Morgan, Piute, Rich, Salt Lake, San Juan, Sanpete, Sevier) and rows of data for various crop types and years (1-83).

2 Reported in fractions of an acre.

AND RECEIPTS, BY COUNTIES: 1909.

Table with 13 columns representing counties and rows of data for receipts, likely for various agricultural products.

AGRICULTURE—UTAH.

TABLE 4.—VALUE OF ALL CROPS AND PRINCIPAL CLASSES THEREOF, AND ACREAGE AND PRODUCTION OF PRINCIPAL CROPS, BY COUNTIES: 1909—Continued.

Table with 11 columns: County (Summit, Tooele, Uinta, Utah, Wasatch, Washingt., Wayne, Weber, Indian res.) and rows for VALUE OF ALL CROPS, SELECTED CROPS (acres and quantity), and FRUITS AND NUTS. Rows include Cereals (Total, Corn, Oats, Wheat, Barley, Rye), Other grains (Dry peas, Dry edible beans), Hay and forage (All tame or cultivated grasses, Timothy alone, etc.), Special crops (Potatoes, Sugar beets), and various fruits (Apples, Peaches, etc.).

1 Reported in fractions of an acre.

TABLE 5.—SELECTED FARM EXPENSES AND RECEIPTS, BY COUNTIES: 1909—Continued.

Table with 10 columns: County (Summit, Tooele, Uinta, Utah, Wasatch, Washingt., Wayne, Weber, Indian res.) and rows for Labor (Farms reporting, Cash expended), Fertilizer (Farms reporting, Amount expended), Feed (Farms reporting, Amount expended), and Receipts from sale of feedable crops.

TABLE 6.—NUMBER AND VALUE OF DOMESTIC ANIMALS NOT ON FARMS, BY COUNTIES: APRIL 15, 1910.

		THE STATE.	Beaver.	Boxelder.	Cache.	Carbon.	Davis.	Emery.	Garfield.	Grand.
1	Inlosures reporting domestic animals...	10,023	106	418	1,241	157	199	162	128	68
2	Value of domestic animals.....dollars..	2,667,162	23,827	96,573	266,123	59,668	67,596	47,605	27,070	18,142
Cattle:										
3	Total number.....	16,459	252	1,187	2,460	266	189	841	771	194
4	Value.....dollars..	481,140	5,074	36,776	74,924	9,866	8,255	16,236	13,944	4,537
5	Number of dairy cows.....	9,851	138	502	1,674	177	151	300	112	52
Horses:										
6	Total number.....	18,287	203	605	1,561	331	276	401	233	137
7	Value.....dollars..	1,865,027	17,755	58,278	178,797	34,260	47,905	27,623	12,475	12,355
8	Number of mature horses.....	17,336	133	564	1,395	325	265	348	216	132
Mules and asses and burros:										
9	Total number.....	541	.....	5	24	100	1	4	2	17
10	Value.....dollars..	66,711	.....	885	2,385	11,715	50	330	90	1,020
11	Number of mature mules.....	455	.....	2	10	98	.....	3	1	11
Swine:										
12	Total number.....	4,252	88	75	815	89	66	409	117	44
13	Value.....dollars..	34,351	397	528	9,823	753	520	3,197	1,061	230
Sheep and goats:										
14	Total number.....	41,157	1	35	25	1,301	58	37	100	.....
15	Value.....dollars..	219,933	1	100	194	3,074	806	110	400	.....

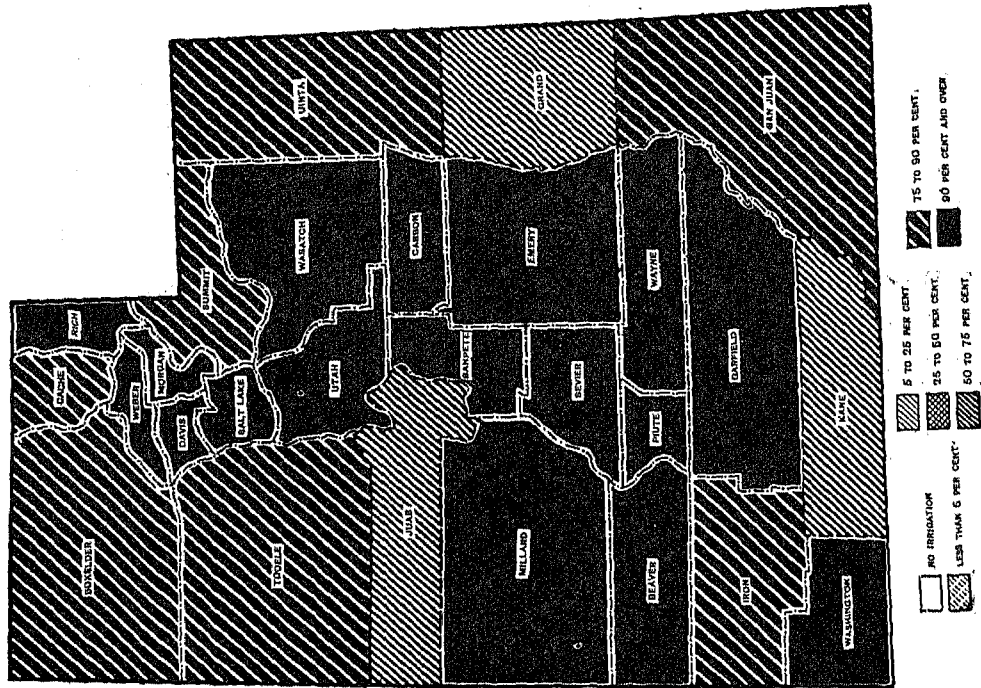
		Iron.	Juab.	Kane.	Millard.	Morgan.	Pluto. ¹	Rich.	Salt Lake.	San Juan.
1	Inlosures reporting domestic animals...	121	460	21	84	78	37	37	3,174	3
2	Value of domestic animals.....dollars..	20,000	110,928	4,225	24,414	18,584	6,961	12,856	793,442	7,679
Cattle:										
3	Total number.....	486	550	104	241	119	58	94	2,130	44
4	Value.....dollars..	9,358	14,151	1,800	6,127	3,578	1,466	2,241	78,600	2,316
5	Number of dairy cows.....	160	364	25	123	73	39	50	1,097	.....
Horses:										
6	Total number.....	150	751	89	194	119	59	125	6,369	36
7	Value.....dollars..	9,793	66,372	2,285	16,985	14,570	4,680	10,355	680,407	4,450
8	Number of mature horses.....	141	703	87	169	106	56	115	6,292	34
Mules and asses and burros:										
9	Total number.....	.....	70	.....	2	.....	.....	3	101	5
10	Value.....dollars..	.....	5,800	.....	300	.....	.....	130	25,576	910
11	Number of mature mules.....	.....	52	.....	2	.....	.....	1	169	4
Swine:										
12	Total number.....	93	142	10	124	59	16	14	501	.....
13	Value.....dollars..	481	1,437	80	807	337	115	104	3,537	.....
Sheep and goats:										
14	Total number.....	70	4,011	.....	105	33	200	11	1,063	.....
15	Value.....dollars..	968	23,168	.....	495	99	700	20	5,322	.....

		Sanpete.	Sevier. ¹	Summit.	Tooele.	Uinta.	Utah.	Wasatch.	Washing- ton.	Waync.	Weber.
1	Inlosures reporting domestic animals...	444	494	217	78	101	1,690	283	83	20	1,019
2	Value of domestic animals.....dollars..	73,984	64,552	75,382	23,388	33,760	482,089	69,086	24,034	4,115	189,079
Cattle:											
3	Total number.....	769	966	204	161	117	2,440	612	333	60	762
4	Value.....dollars..	21,470	24,836	7,150	5,021	4,705	76,595	16,032	7,351	1,296	26,172
5	Number of dairy cows.....	543	589	154	105	105	1,602	309	94	43	572
Horses:											
6	Total number.....	455	772	475	190	280	2,182	510	136	37	1,590
7	Value.....dollars..	47,212	67,893	41,417	17,870	22,089	243,427	46,930	10,508	2,675	150,895
8	Number of mature horses.....	412	690	454	193	273	2,058	450	124	33	1,548
Mules and asses and burros:											
9	Total number.....	6	4	1	4	44	41	8	2	.....	7
10	Value.....dollars..	1,155	300	25	150	6,500	6,025	820	100	.....	2,355
11	Number of mature mules.....	5	2	.....	4	43	39	6	2	.....	1
Swine:											
12	Total number.....	233	282	18	49	76	616	174	26	26	90
13	Value.....dollars..	1,818	1,451	125	347	356	4,815	1,295	60	144	524
Sheep and goats:											
14	Total number.....	526	22	4,495	.....	4	27,070	1,048	2	.....	31
15	Value.....dollars..	2,329	72	26,665	.....	20	151,227	4,903	6	.....	133

¹Change of boundary. (See explanation at close of text.)

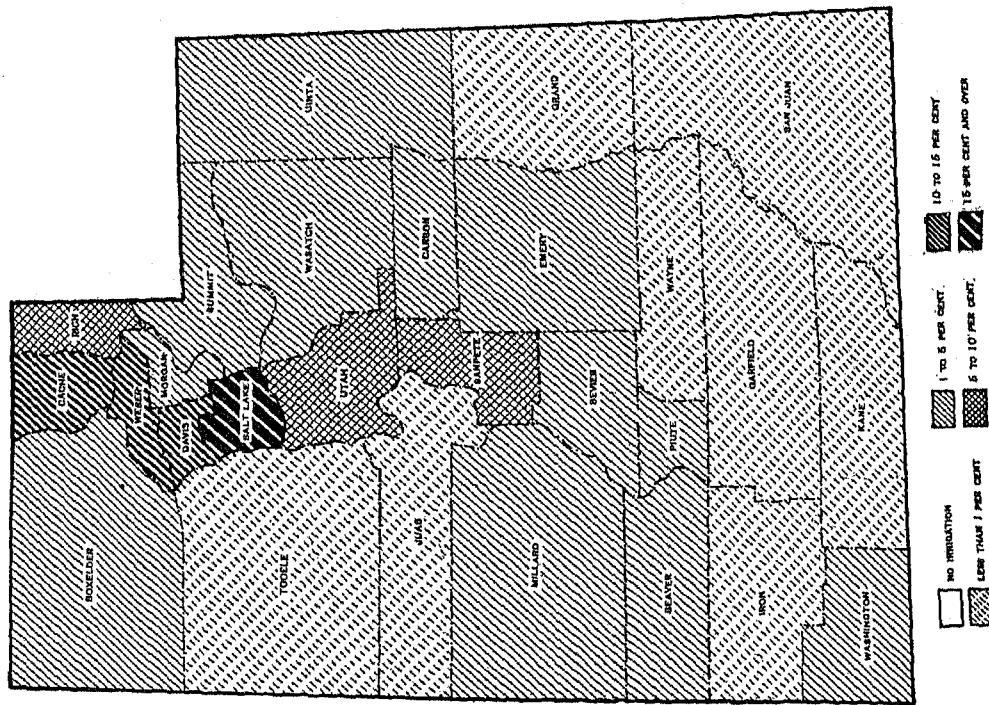
PER CENT OF TOTAL LAND AREA IRRIGATED, AND PER CENT OF NUMBER OF FARMS IRRIGATED, IN UTAH, BY COUNTIES: 1909.
PER CENT OF NUMBER OF FARMS IRRIGATED.

[Per cent for the state, 90.9.]



PER CENT OF TOTAL LAND AREA IRRIGATED.

[Per cent for the state, 1.9.]



UTAH.

FARMS AND ACREAGE IRRIGATED.

The greater part of the state of Utah is mountainous. The Wasatch range extends north and south through the central part of the state and the Uinta range east and west through the northeastern part, while smaller detached ranges and groups of mountains are found throughout the state. The arable land lies in the valleys between these ranges. The larger part both of the land in farms and the irrigated land is west of the Wasatch Mountains. Irrigation is practiced in every county in the state, more than 90 per cent of the farms being irrigated. In most of the counties, however, grain crops are grown to some extent without irrigation. The annual precipitation averages from 7 to 15 inches. The location of the irrigated lands of the state is indicated in a general way by the accompanying maps, which show the class in which each county falls with reference to the percentage which irrigated land forms of the total land area and the percentage which irrigated farms represent of all farms.

The following table shows for the state as a whole the number of farms and the acreage irrigated in 1909, in comparison with the total number of farms, the total land area, the total land in farms, and the total acreage of improved land in farms in 1910, together with the areas not yet irrigated for which water has been or is being made available. Comparative statistics for the census of 1900 are included as far as possible. The figures as to the number of farms and acreage irrigated in 1899 do not cover Indian reservations, which were not shown in the irrigation report for Utah for that year, and therefore they are not strictly comparable with the figures as to total number of farms and total farm acreage in 1900, as shown in this table, or with the statistics for farms and acreage irrigated in 1909. Since the irrigated land and farms on reservations represented only small proportions of the corresponding totals for the state in 1909, however, comparisons between the two censuses are but little affected by the omission in the 1900 report.

	CENSUS OF—		INCREASE. ¹	
	1910	1900	Amount.	Per cent.
Number of all farms.....	² 21, 676	³ 19, 387	2, 289	11. 8
Approximate land area of the state..... acres..	52, 597, 760	52, 597, 760	—	—
Land in farms..... acres..	² 3, 397, 699	³ 4, 116, 951	-719, 252	-17. 5
Improved land in farms..... acres..	² 1, 368, 211	³ 1, 032, 117	336, 094	32. 6
Number of farms irrigated.....	⁴ 19, 709	⁵ 17, 924	1, 785	10. 0
Acreage irrigated.....	⁴ 999, 410	⁵ 629, 293	370, 117	58. 8
Acreage enterprises were capable of irrigating.....	⁶ 1, 250, 246	(?)	—	—
Acreage included in projects.....	⁶ 1, 947, 625	(?)	—	—
Percentage irrigated of—				
Number of all farms.....	90. 9	92. 5	-1. 6	—
Approximate land area of the state.....	20. 4	1. 2	14. 1	0. 7
Land in farms.....	73. 0	15. 3	12. 0	—
Improved land in farms.....	250, 836	61. 0	—	—
Excess of acreage enterprises were capable of irrigating in 1910 over acreage irrigated in 1909.....	948, 215	—	—	—
Excess of acreage included in projects over acreage irrigated in 1909.....	—	—	—	—

¹ A minus sign (—) denotes decrease.

² April 15.

³ June 1.

⁴ In 1909.

⁵ In 1899.

⁶ July 1.

⁷ Not reported.

Number of farms irrigated.—The number of farms irrigated is made up of the number reported on the supplemental schedules by the regular enumerators, together with an estimate of the number of farms covered by enterprises which were reported by special agents but not by the regular enumerators. This estimate was based on the average acreage irrigated per farm as shown by the supplemental schedules. According to the figures presented in the table, irrigation was practiced on 90.9 per cent of the farms in the state in 1909. In 1889 the proportion of irrigated farms was slightly higher, 92.5 per cent, at which figure it stood also in 1899. It is evident, therefore, that between 1889 and 1899 the number of unirrigated farms increased at about the same rate as the number of irrigated farms. From 1899 to 1909 the rate of increase for unirrigated farms was more than three times that for irrigated farms, but the absolute increase was in each case comparatively small.

In 17 out of the 27 counties in the state at least 90 per cent of the farms are irrigated, in 6 the proportion is between 80 and 90 per cent, while in only 4 is it less than 80 per cent. The lowest percentage shown for any county is 65.7 in Juab County, and the highest 99.7 in Emery County.

From 1899 to 1909 the increase in the number of farms irrigated in the state as a whole was 10 per cent. This rate of gain was exceeded in 11 counties which have not changed in area during the 10 years, and in the territory comprising Piute and Sevier Counties, the boundary between which has been changed since 1900. The greatest relative increases in number of farms irrigated took place in San Juan, Wasatch, and Garfield Counties, the percentages being, respectively, 183.7, 95.9, and 78.1. Boxelder County shows the greatest absolute increase in number of farms, amounting to 477. In 9 counties a decrease in the number of farms irrigated occurred. Seven of these show also a

decrease in the number of all farms. In all but 1 of the 9 counties which show a decrease in the number of farms irrigated, an increase in acreage irrigated is reported, which fact suggests the possibility of a difference in the interpretation by enumerators at the two censuses as to what should be reported as a farm, although it is probable that some increase actually occurred in the acreage irrigated per farm.

Acreage irrigated.—The acreage irrigated is taken from the special schedules filled out by agents from information secured from owners or officials of irrigation enterprises and, in some instances, from public records. The acreage thus obtained is considerably larger than the irrigated acreage reported on the supplemental schedules filled out by the farm enumerators. This difference is due in a measure to the fact that the special agents found enterprises which were not reported on any schedules returned by the enumerators, indicating that the acreage reported on the supplemental schedules is under the true figure. There is, however, a natural tendency for the officials of irrigation systems to report as irrigated the entire area of farms of which only a part was irrigated. Furthermore, some farms are so situated as to receive water from more than one enterprise, and may be reported as irrigated by each, which results in duplication. Owing to the two causes last enumerated, it is probable that the acreage irrigated, as shown in this bulletin, is somewhat excessive, but the extent of this excess can not be determined. It is believed, however, to be less than 10 per cent for the state of Utah.

The total acreage reported as irrigated in 1909 was 999,410 acres, as against 629,293 acres in 1899 and 263,473 acres in 1889. It should be borne in mind, however, that the acreage given for 1909 includes land lying within Indian reservations, while the figures for 1899 and 1889 do not. The percentage of increase from 1889 to 1899 was 138.8 per cent, while that reported from 1899 to 1909 was 58.8 per cent. The absolute increase shown for the later decade was 370,117 acres, as compared with 365,820 acres between 1889 and 1899.

The percentage of increase between 1899 and 1909 in the acreage irrigated was considerably higher than the percentage of increase in the number of farms irrigated, the acreage irrigated per farm increasing from 35.1 in 1899 to 50.7 in 1909. As a decrease from 212.4 acres to 156.7 acres in the average size of the farms of the state was reported for the same period, it is probable that farmers are irrigating larger parts of their holdings than formerly. It is not possible, however, to determine how far this is actually the case, as the higher average size shown for 1900 was due to some extent to the inclusion as farm land of large tracts of grazing land, while comparatively little land of this character was reported in 1910. The tendency toward the irrigation of a larger proportion of the land used for farming is shown by the increase in the ratio of the irrigated acreage to the improved

farm acreage from 61 per cent in 1899 to 73 per cent in 1909. This percentage is somewhat misleading, however, because irrigated land includes wild grass land used for pasture, whereas improved land does not. The percentage of improved land irrigated in 1909 was below the figure given above.

The percentage of the total land area of the state irrigated in 1909 was 1.9, as compared with 1.2 per cent in 1899 and 0.5 per cent in 1889.

In both 1909 and 1899 the county for which the largest area of irrigated land was reported was Utah, the acreages being 89,886 and 74,872, respectively. Four other counties show areas of irrigated land exceeding 75,000 acres in 1909, while 6 contained irrigated areas of between 40,000 and 75,000 acres.

The county in which irrigated land formed the highest percentage of the total land area was Salt Lake, where 17.1 per cent of the land area was irrigated in 1909. In only 3 other counties, Cache, Davis, and Weber, was the proportion higher than 10 per cent.

Acreage included in projects.—The table shows that in 1910 existing enterprises were ready to supply water to 250,836 acres not irrigated in 1909. Even after allowance is made for an increase in the area irrigated in 1910 over that in 1909, it is probable that there remained at the close of 1910 at least one-half as much land under ditch but not irrigated as had been brought under irrigation in the 10 years from 1899 to 1909. The acreage included in projects exceeds the acreage irrigated in 1909 by 948,215 acres, which is about two and one-half times the acreage brought under irrigation in the last decade and almost as much as the total area irrigated in 1909. This acreage represents the area which will be available for the extension of irrigation in the next few years upon the completion of the projects now under construction. It indicates in a general way the area available for settlement, although much of this unirrigated land is in farms already settled.

Acreage irrigated, classified by character of enterprise.—The following table gives the distribution of the acreage irrigated in 1909 according to the character of the enterprise controlling the irrigation works:

CHARACTER OF ENTERPRISE.	ACREAGE IRRIGATED IN 1909.	
	Amount.	Per cent distribution.
All classes.....	999,410	100.0
U. S. Indian Service.....	11,520	1.2
Carey Act enterprises.....	5,000	0.5
Irrigation districts.....	8,455	0.8
Cooperative enterprises.....	687,200	68.8
Commercial enterprises.....	64,727	6.5
Individual and partnership enterprises.....	222,448	22.3

The United States Reclamation Service is now engaged in work on a large irrigation project designed to irrigate ultimately an area of about 60,000 acres. It will take over about 20,000 acres that in 1909 were

irrigated by cooperative or partnership enterprises. In accordance with the method of classification adopted, however, the latter acreage is credited in this chapter to the enterprises which controlled the water supply in 1909.

Irrigation districts, cooperative enterprises, and individual and partnership enterprises are all controlled by the water users. These supplied 91.9 per cent of the acreage irrigated, while Carey Act enterprises, which are to be turned over to the water users, supplied 0.5 per cent. Thus but a small percentage of the irrigated land is supplied by enterprises which are not either controlled by the water users or to be turned over to them ultimately. The cooperative enterprises, which supplied water for 68.8 per cent of the land irrigated, are principally stock companies, of which the stock is owned by the water users.

Acreage irrigated, classified by source of water supply.—The following table shows the distribution of the acreage irrigated in 1909, according to the source of water supply:

SOURCE OF WATER SUPPLY.	ACREAGE IRRIGATED IN 1909.	
	Amount.	Per cent distribution.
All sources	999,410	100.0
Streams.....	957,359	95.8
Lakes.....	4,371	0.4
Wells.....	4,400	0.4
Springs.....	35,412	3.5
Reservoirs.....	568	0.1

From the foregoing table it is apparent that up to the present time there has been little development of any source of water supply other than streams.

IRRIGATION WORKS.

The following table summarizes the data collected relating to works for supplying water for irrigation in 1910 and 1900, Indian reservations, as already noted, not being represented in the figures for 1900:

IRRIGATION WORKS.	CENSUS OF—		INCREASE.	
	1910	1900 ¹	Amount.	Per cent.
Independent enterprises.....number..	2,472	928	1,544	166.4
Ditches, total length.....miles..	7,709	(²)	.....	.....
Main ditches.....number..	2,495	(²)	.....	.....
Length.....miles..	5,837	2,838	3,049	107.4
Capacity.....cu. ft. per second..	25,081	(²)	.....	.....
Lateral ditches.....number..	1,357	(²)	.....	.....
Length.....miles..	1,822	(²)	.....	.....
Reservoirs.....number..	480	(²)	.....	.....
Capacity.....acre-feet..	588,317	(²)	.....	.....
Flowing wells.....number..	1,138	(²)	.....	.....
Capacity.....gals. per minute..	42,704	(²)	.....	.....
Pumped wells.....number..	27	(²)	.....	.....
Capacity.....gals. per minute..	4,827	(²)	.....	.....
Pumping plants.....number..	69	(²)	.....	.....
Engine capacity.....horsepower..	2,143	(²)	.....	.....
Pump capacity.....gals. per minute..	315,057	(²)	.....	.....

¹ Figures for 1900 relate only to systems obtaining water from streams.
² Not reported.

As only two of the items reported in 1910 were reported in 1900, the number of independent enterprises and the length of main ditches, there is little

opportunity for comparison between the two censuses. The figures shown for the earlier census relate only to those systems which received water by gravity diversion from streams in 1899; but the other systems represented in the Twelfth Census report, which obtained water from wells, supplied only 5,107 acres of the total area reported as irrigated in 1899.

Assuming that the enterprises in operation in 1909 were identical with those reported in 1910, the average acreage irrigated per enterprise in 1909 was 404.3, and the acreage irrigated per mile of main ditch was 169.8.

There has been little utilization of underground water for irrigation up to this time. The table shows 1,138 flowing wells, which are, for the most part, of small capacity, and in 1909 irrigated only 4,100 acres of land. Davis, Utah, Sanpete, Sevier, and Tooele Counties together reported 798 of these. Of the 27 pumped wells, which in 1909 irrigated a total of 300 acres, 22 were in Boxelder County. Pumping from either wells or streams has been but little practiced as yet. The total acreage irrigated with pumped water in 1909 was 2,859 acres.

COST OF CONSTRUCTION, OPERATION, AND MAINTENANCE.

The next table shows the total cost of irrigation enterprises up to July 1, 1910, including construction of works and acquisition of rights but not operation and maintenance, with the average cost per acre, based on the acreage the enterprises were capable of irrigating in 1910; the estimated final cost of enterprises completed and those now under construction, with the average cost per acre based on the acreage included in projects; and the total cost and average cost per acre of operation and maintenance in 1909. Data relating to the cost of construction and maintenance of systems operated in 1899 are included for comparison. The figure for average cost per acre of operation and maintenance in 1899 does not cover the cost for systems obtaining water from wells, but,

as indicated above, these are comparatively unimportant, having supplied only 5,107 acres in that year. Indian reservations, as previously stated, are not covered by the figures shown for 1900.

The cost of operation and maintenance is not reported for individual and partnership enterprises, for the reason that farmers whose land is irrigated by such systems generally clean their own ditches at odd times without keeping any record of the time spent. In the case of the larger enterprises this cost represents a cash outlay by the farmers, while in that of many of the smaller cooperative enterprises the larger part of the cost is worked out by the farmers themselves, as in the case of the individual and partnership enterprises.

Acreage.—Of the entire acreage of the crops for which totals are presented in the table, 74.6 per cent is irrigated. The proportion irrigated varies widely for the different crops.

Of the acreage covered by the cereals shown in the table, 57.3 per cent is irrigated. Among these crops corn shows the highest proportion of acreage irrigated—92.9 per cent—and oats, comprising a considerably greater area, the next highest, 92.4 per cent. For wheat, which covers the largest total acreage of any of the grain crops, the percentage is 40.5.

In the case of the crops designated "other grains and seeds," the irrigated acreage forms 60 per cent of the total. The highest percentage, 60.8 per cent, is reported for alfalfa seed, which is the only seed crop of this class covering any considerable area.

The hay and forage crops are much more generally raised on irrigated land, the irrigated acreage of such crops given in the table being 85.9 per cent of their total acreage. In the case of all of these except timothy and clover mixed and clover alone, more than half of the total acreage is irrigated. For "wild, salt, or prairie grasses" the percentage is 94.5. Very little alfalfa is grown without irrigation, the irrigated area being 88 per cent of the total for this crop. The proportions for "other tame or cultivated grasses," grains cut green, and timothy alone are 80.4, 68.6, and 64.5 per cent, respectively.

Of the acreage in sugar beets, 94.8 per cent is irrigated, and of that in potatoes 93.3 per cent. For small fruits, of which the total acreage is small, the percentage is 89.5.

Of the crops shown in the table, alfalfa covers the largest irrigated acreage, representing 43.6 per cent of the total for the crops given. The oats crop is next, with 13 per cent of this total; followed by wheat with 12.6 per cent, and "wild, salt, or prairie grasses," with 11.2 per cent. No other single crop covers as much as 5 per cent of the total acreage of the irrigated crops presented in the table.

While most of the irrigated crops are well distributed geographically, there is a tendency toward the concentration of certain crops in particular localities. This is shown by the following statement, which gives the counties having the largest acreages of the principal irrigated crops, with the proportions which they contain of the total irrigated acreages of these crops in the state.

Corn.—Utah County, 9.7 per cent; San Juan, 9.6 per cent; Grand, 9.5 per cent.

Oats.—Sanpete County, 9.5 per cent; Sevier, 9.3 per cent; Boxelder, 8.1 per cent.

Wheat.—Sanpete County, 15.1 per cent; Utah, 11.6 per cent; Cache, 10.1 per cent.

Barley.—Utah County, 21.5 per cent; Davis, 16.9 per cent; Boxelder, 13.8 per cent.

Alfalfa seed.—Emery County, 55.2 per cent; Millard, 20.9 per cent; Cache, 5.2 per cent.

Timothy alone.—Summit County, 22.4 per cent; Wasatch, 17.5 per cent; Cache, 16.7 per cent.

Timothy and clover mixed.—Wasatch County, 40.7 per cent; Cache, 20.9 per cent; Summit, 19.3 per cent.

Clover alone.—Emery County, 54.1 per cent; Utah, 17.4 per cent; Davis, 6.4 per cent.

Alfalfa.—Sanpete County, 11.3 per cent; Utah, 10.5 per cent; Salt Lake, 8.4 per cent.

"Wild, salt, or prairie grasses."—Rich County, 33.4 per cent; Sanpete, 11.2 per cent; Summit, 8.1 per cent.

Potatoes.—Utah County, 19.6 per cent; Davis, 12.7 per cent; Salt Lake, 11.6 per cent.

Sugar beets.—Boxelder County, 31.6 per cent; Cache, 19.2 per cent; Utah, 17.6 per cent.

Orchard fruits and grapes.—Boxelder County, 16.9 per cent; Davis, 15.6 per cent; Weber, 13 per cent.

Small fruits.—Salt Lake County, 22.8 per cent; Utah, 21.6 per cent; Weber, 15.7 per cent.

Yield.—In the following table the average yields per acre of crops extensively grown, both with and without irrigation, are shown. The yields on unirrigated land are obtained by subtracting the totals for irrigated crops from the totals for the state.

CROP.	AVERAGE YIELD PER ACRE.		
	On unirrigated land.	On irrigated land.	
		Amount.	Per cent of excess over yield on unirrigated land. ¹
Oats.....bushels..	25.4	41.1	61.8
Wheat.....bushels..	17.8	28.5	60.1
Barley.....bushels..	19.7	42.0	115.2
Alfalfa seed.....bushels..	1.70	2.10	24.4
Timothy alone.....tons..	1.76	2.18	23.9
Timothy and clover mixed.....tons..	2.03	2.26	11.3
Alfalfa.....tons..	1.97	2.00	47.2
Wild, salt, or prairie grasses.....tons..	0.40	1.40	204.3
Potatoes.....bushels..	181.3	108.7	-0.9
Sugar beets.....tons..	13.92	15.13	8.7

¹A minus sign (-) indicates that the yield on irrigated land is less than that on unirrigated land.

All of the crops included in the table, except potatoes, show greater average yields on irrigated land than on unirrigated land; only a small acreage of potatoes was reported as not receiving water in 1909. The relative excess shown is more than 20 per cent in the case of all the crops except timothy and clover mixed and sugar beets, for which it is, respectively, 11.3 per cent and 8.7 per cent.

In considering these comparisons it should be borne in mind that they are not comparisons of yields on irrigated and on unirrigated land in the same localities, but of yields under irrigation in localities where crops can not be grown successfully without it with yields in localities where irrigation is not necessary. They do not indicate, therefore, the relative advantages of farming with and without irrigation in a given community, but rather give one factor for determining the relative advantages of farming where irrigation is necessary and where it is not necessary for the successful growing of crops.

IRRIGATION—UTAH.

COUNTY TABLE.

The next table gives in detail, by counties, the data summarized above, except those relating to crops. For purposes of comparison the total number of farms in the state, the approximate land area of the state, the total land in farms, and the improved land in farms have been included in the table.

Certain enterprises extend into more than one county, and in the case of some of these enterprises the reports do not segregate the data by counties. In such cases a distribution has been made according to the best estimates possible from all the information in the possession of the bureau. It is believed that these estimates are approximately correct.

Attention is again directed to the fact that totals for the preceding census do not cover Indian reservations, no report as to irrigation on reservations

in Utah having been made at the Twelfth Census. Since, however, the figures for the Thirteenth Census show that the irrigation operations conducted on reservations were unimportant relatively to those in the state as a whole, it is believed that the shortage is not of material consequence as concerns comparisons between the two censuses. For this reason the percentages of increase have been computed without attempt to estimate the extent of Indian Service irrigation in 1899, and without the elimination from the 1909 and 1910 totals of the figures representing irrigation on reservations.

Change of boundaries.—In comparing the data secured in 1910 with those for the preceding census it should be borne in mind that part of Piute County was annexed to Sevier County in 1902.

IRRIGATION—UTAH.

ACREAGE IRRIGATED, EXTENT AND COST OF IRRIGATION ENTERPRISES, AND COST OF OPERATION AND MAINTENANCE, BY COUNTIES: 1909 AND 1910.

[Comparative data for 1890 in italics.]

	THE STATE.	Beaver.	Boxelder.	Cache.	Carbon.	Davis.	Emery.	Garfield.	Grand.	
1	Number of all farms in 1910.....	21,076	319	1,527	1,007	171	1,302	606	400	172
2	Number of farms irrigated in 1909.....	19,700	313	1,271	1,501	169	1,193	664	383	126
3	Per cent of all farms.....	90.0	98.1	83.2	78.7	98.8	91.6	99.7	93.6	73.3
4	Number of farms irrigated in 1890.....	17,024	293	794	1,532	122	902	449	215	97
5	Per cent of increase, 1890-1909.....	10.0	6.8	60.1	5.1	38.5	32.3	47.9	78.1	26.9
LAND AND FARM AREA										
6	Approximate land area.....acres..	52,597,780	1,702,400	3,484,160	744,060	951,680	170,000	2,849,920	3,349,700	2,302,880
7	Land in farms.....acres..	3,397,090	45,980	343,785	204,160	60,653	127,257	90,708	59,973	62,089
8	Improved land in farms.....acres..	1,368,211	19,354	142,922	181,348	13,824	55,376	39,386	10,109	6,470
9	Acres irrigated in 1909.....	909,410	24,430	75,926	77,330	11,620	25,291	40,770	26,437	6,760
10	Per cent of total land area.....	1.9	1.4	2.2	10.4	1.2	14.4	1.6	0.8	0.3
11	Per cent of land in farms.....	29.4	53.1	22.1	26.3	20.5	19.9	48.4	44.1	10.9
12	Per cent of improved land in farms.....	73.0	212.2	53.1	42.6	84.1	45.7	118.3	138.3	104.5
13	Acres irrigated in 1890.....	629,293	11,493	29,708	58,653	6,366	25,100	21,840	10,745	2,898
14	Per cent of increase, 1890-1909.....	58.8	113.1	155.6	31.8	82.8	0.7	114.2	146.0	125.0
15	Acres enterprises were capable of irrigating in 1910.....	1,250,240	20,080	94,133	82,603	30,862	25,447	60,524	33,532	8,723
16	Acres included in projects.....	1,047,625	31,931	129,034	119,301	40,778	35,245	87,303	49,322	22,372
ACREAGE IRRIGATED AND INCLUDED IN PROJECTS										
CLASSIFIED BY CHARACTER OF ENTERPRISE.										
17	U. S. Reclamation Service, irrigated in 1909.....									
18	Enterprises were capable of irrigating in 1910.....									
19	Included in projects.....									
20	U. S. Indian Service, irrigated in 1909.....	11,520								
21	Enterprises were capable of irrigating in 1910.....	86,600								
22	Included in projects.....	100,000								
23	Carey Act enterprises, irrigated in 1909.....	5,000								
24	Enterprises were capable of irrigating in 1910.....	20,000								
25	Included in projects.....	43,000								
26	Irrigation districts, irrigated in 1909.....	8,455			8,455					
27	Enterprises were capable of irrigating in 1910.....	8,455			8,455					
28	Included in projects.....	10,502			10,502					
29	Cooperative enterprises, irrigated in 1909.....	687,260	6,949	7,593	92,230	6,778	21,922	42,088	15,520	2,946
30	Enterprises were capable of irrigating in 1910.....	790,855	7,710	7,593	93,797	25,602	21,022	44,554	21,545	3,211
31	Included in projects.....	1,259,351	11,554	9,320	97,521	31,606	31,114	73,993	28,055	10,249
32	Commercial enterprises, irrigated in 1909.....	64,727		45,705						
33	Enterprises were capable of irrigating in 1910.....	87,070		60,048						
34	Included in projects.....	151,970		88,048						
35	Individual and partnership enterprises, irrigated in 1909.....	222,448	17,481	22,028	5,623	4,842	3,909	4,688	10,917	3,813
36	Enterprises were capable of irrigating in 1910.....	257,290	19,911	25,892	9,259	5,270	3,525	5,970	11,987	5,512
37	Included in projects.....	370,592	20,377	31,057	9,959	9,182	4,131	13,310	21,207	12,123
ACREAGE IRRIGATED										
CLASSIFIED BY SOURCE OF WATER SUPPLY.										
38	Supplied from streams.....	957,359	24,420	66,704	73,300	11,020	24,420	46,770	25,787	6,089
39	By gravity.....	954,800	24,420	66,704	73,300	11,020	24,420	46,770	25,787	4,831
40	By pumping.....	2,559								1,258
41	Supplied from lakes.....	1,071								
42	By gravity.....	1,071								
43	By pumping.....									
44	Supplied from wells.....	4,400		503	45		835	6		
45	Flowing.....	4,100		222	45		835			
46	By pumping.....	300		281				6		
47	Supplied from springs.....	35,412	10	8,069	3,916		30		650	70
48	Supplied from reservoirs.....	668								
49	Total acreage supplied by pumping.....	2,859		281				452		1,858
IRRIGATION ENTERPRISES										
50	Independent enterprises.....number..	2,472	100	218	137	45	116	40	107	56
51	Number in 1890.....	928	43	41	31	23	41	22	35	18
52	Per cent of increase, 1890-1910.....	166.4	153.5	431.7	341.0	104.5	182.9	109.1	205.7	211.1
53	Main ditches.....number..	2,495	125	185	139	60	47	51	106	51
54	Number in 1890.....									
55	Per cent of increase, 1890-1910.....									
56	Length.....miles..	5,887	208	354	324	123	120	230	202	84
57	Length in 1890.....	2,898	64	191	189	48	118	154	99	36
58	Per cent of increase, 1890-1910.....	107.4	225.0	85.3	151.2	192.0	11.2	53.2	117.2	133.3
59	Capacity.....cubic feet per second..	25,081	611	2,107	1,393	600	405	1,065	971	270
60	Laterals.....number..	1,357	87	84	153	3	41	2	00	16
61	Length.....miles..	1,822	31	116	142	0	59	1	34	18
62	Reservoirs.....number..	480	13	69	1	4	28	15	18	
63	Capacity.....acre-feet..	588,317	12,945	200	1,566	26,746	14,511	13,850	43,477	
64	Flowing wells.....number..	1,138		77	33		242			
65	Capacity.....gallons per minute..	42,794		1,768	734		9,551			
66	Pumped wells.....number..	27		22				1		
67	Capacity.....gallons per minute..	4,827		3,904				480		
68	Pumping plants.....number..	69		23				11		19
69	Engine capacity.....horsepower..	2,143		206				370		404
70	Pump capacity.....gallons per minute..	315,057		3,087				62,000		31,057
COST										
71	Cost of enterprises up to July 1, 1910.....dollars..	14,028,717	91,922	1,880,966	304,285	449,291	408,483	509,285	262,095	133,699
72	Cost in 1890.....	5,895,308	45,784	1,291,773	162,250	29,595	225,894	535,750	35,590	10,765
73	Per cent of increase, 1890-1910.....	139.2	101.0	45.0	87.5	1,431.6	43.9	32.0	631.0	1,142.0
74	Average cost per acre enterprises were capable of irrigating in 1910.....dollars..	11.22	3.45	19.08	3.69	14.50	10.05	10.08	7.82	15.33
75	Average cost per acre irrigated in 1890.....dollars..	9.52	3.69	13.54	2.77	4.64	12.12	17.69	3.12	3.32
76	Estimated final cost of existing enterprises.....dollars..	17,840,775	96,922	1,880,966	304,285	494,151	408,483	587,485	266,075	133,699
77	Average per acre included in projects.....dollars..	9.16	3.04	14.58	2.55	12.12	11.59	6.73	5.39	5.98
OPERATION AND MAINTENANCE										
78	Acres for which cost is reported.....	689,994	6,049	44,903	63,507	4,034	10,327	42,088	14,520	2,270
79	Total cost reported.....dollars..	451,283	3,805	23,477	26,074	7,521	12,098	36,912	7,464	3,161
80	Average per acre for which cost is reported.....dollars..	0.65	0.55	0.52	0.42	1.62	0.63	0.88	0.51	1.39
81	Average cost per acre in 1890.....dollars..	0.24								
82	Per cent of increase, 1890-1909.....	170.8								

¹ Decrease.

² Acres irrigated includes wild grass, while improved land does not.

³ Figures relate only to systems obtaining water from streams.

⁴ Not reported.

⁵ State total includes \$142,000, representing cost of well systems not distributed by counties. County figures relate only to systems obtaining water from streams.

⁶ Not reported by counties in 1890. Figure relates only to systems obtaining water from streams.

IRRIGATION—UTAH.

ACREAGE IRRIGATED, EXTENT AND COST OF IRRIGATION ENTERPRISES, AND

[Comparative data for 1899 in italics.]

	Iron.	Juab.	Kane.	Millard.	Morgan.	Plute. ¹	Rich.	Salt Lake.	San Juan.
1 Number of all farms in 1910.....	373	507	100	786	242	198	210	2,180	157
2 Number of farms irrigated in 1909.....	317	333	118	639	240	193	212	2,048	139
3 Per cent of all farms.....	85.0	65.7	71.1	81.3	99.2	97.5	96.8	93.9	88.5
4 Number of farms irrigated in 1899.....	203	312	103	627	277	187	285	2,110	40
5 Per cent of increase, 1899-1909.....	50.2	0.7	* 38.0	0.9	* 13.4	.....	* 20.0	* 2.0	183.7
LAND AND FARM AREA									
6 Approximate land area..... acres.....	2,083,840	2,182,400	2,097,000	4,220,560	400,640	488,320	657,280	483,840	4,067,040
7 Land in farms..... acres.....	88,027	108,504	24,773	180,027	95,648	26,860	149,509	169,262	48,707
8 Improved land in farms..... acres.....	17,934	53,406	8,085	54,540	11,601	10,964	81,779	121,221	0,608
9 Acreage irrigated in 1909.....	11,624	14,210	3,220	48,992	11,309	13,262	63,030	82,710	8,015
10 Per cent of total land area.....	0.6	0.7	0.1	1.2	2.8	2.7	9.6	17.1	0.2
11 Per cent of land in farms.....	13.2	13.1	13.0	29.4	11.8	51.3	42.2	48.0	18.3
12 Per cent of improved land in farms.....	64.8	26.6	37.1	80.8	96.7	78.2	77.1	68.2	* 133.1
13 Acreage irrigated in 1899.....	5,620	10,618	5,321	30,336	8,640	10,101	38,901	64,698	1,373
14 Per cent of increase, 1899-1909.....	106.8	84.0	* 3.0	00.4	30.8	.....	62.0	51.5	466.8
15 Acreage enterprises were capable of irrigating in 1910.....	12,321	16,949	3,330	91,788	11,000	15,406	68,780	100,555	9,336
16 Acreage included in projects.....	19,052	21,009	0,633	241,922	12,058	51,253	89,791	121,453	21,254
ACREAGE IRRIGATED AND INCLUDED IN PROJECTS									
CLASSIFIED BY CHARACTER OF ENTERPRISE.									
17 U. S. Reclamation Service, irrigated in 1909.....									
18 Enterprises were capable of irrigating in 1910.....									
19 Included in projects.....									
20 U. S. Indian Service, irrigated in 1909.....									
21 Enterprises were capable of irrigating in 1910.....									
22 Included in projects.....									
23 Carey Act enterprises, irrigated in 1909.....				5,000					
24 Enterprises were capable of irrigating in 1910.....				20,000					
25 Included in projects.....				43,000					
26 Irrigation districts, irrigated in 1909.....									
27 Enterprises were capable of irrigating in 1910.....									
28 Included in projects.....									
29 Cooperative enterprises, irrigated in 1909.....	9,604	8,995	2,341	37,530	4,804	8,318	20,130	73,050	4,000
30 Enterprises were capable of irrigating in 1910.....	9,534	11,520	2,351	61,875	4,664	8,410	27,630	91,193	4,000
31 Included in projects.....	15,292	11,720	3,430	183,940	4,864	20,940	39,618	110,515	10,000
32 Commercial enterprises, irrigated in 1909.....							15,900		800
33 Enterprises were capable of irrigating in 1910.....							18,700		300
34 Included in projects.....							22,000		800
35 Individual and partnership enterprises, irrigated in 1909.....	2,120	5,221	879	6,462	0,445	4,944	21,000	0,000	4,015
36 Enterprises were capable of irrigating in 1910.....	2,787	5,429	979	10,213	0,742	4,990	22,450	0,302	5,030
37 Included in projects.....	4,300	9,979	3,197	14,032	7,104	8,313	20,173	10,937	10,454
ACREAGE IRRIGATED									
CLASSIFIED BY SOURCE OF WATER SUPPLY.									
38 Supplied from streams.....	10,814	13,579	2,843	45,966	10,794	13,037	62,830	81,709	8,695
39 By gravity.....	10,814	13,579	2,843	45,966	10,794	13,037	62,830	81,709	8,695
40 By pumping.....									
41 Supplied from lakes.....				480					
42 By gravity.....				480					
43 By pumping.....									
44 Supplied from wells.....	348	15		1		120		75	95
45 Flowing.....	348	15				120		68	90
46 By pumping.....				1				7	5
47 Supplied from springs.....	462	622	250	2,545	515	105	200	920	105
48 Supplied from reservoirs.....			127						20
49 Total acreage supplied by pumping.....				1				7	5
IRRIGATION ENTERPRISES									
50 Independent enterprises..... number.....	47	43	7	47	77	39	48	112	75
51 Number in 1899.....	19	20	16	35	25	32	31	40	9
52 Per cent of increase, 1899-1910.....	147.4	115.0	* 56.3	34.3	208.0	94	54.8	180.0	733.3
53 Main ditches..... number.....	31	47	33	50	94	51	60	95	47
54 Number in 1899.....									
55 Per cent of increase, 1899-1910.....									
56 Length..... miles.....	58	101	42	232	134	154	180	208	77
57 Length in 1899.....	28	61	20	131	27	58	150	223	31
58 Per cent of increase, 1899-1910.....	107.1	65.0	44.8	115.3	398.3	267	43.1	34.2	266.7
59 Capacity..... cubic feet per second.....	144	376	103	1,437	432	694	709	1,740	252
60 Laterals..... number.....	8	31	4	52	35	13	39	89	2
61 Length..... miles.....	0	30	6	154	18	13	06	123	1
62 Reservoirs..... number.....	21	5	11	12	7	3	12	5	12
63 Capacity..... acre-feet.....	2,220	70	199	173,513	74	131,040	10,631	932	292
64 Flowing wells..... number.....	86	6				10		68	10
65 Capacity..... gallons per minute.....	2,137	100				3,600		1,910	774
66 Pumped wells..... number.....				1				2	1
67 Capacity..... gallons per minute.....				116				67	200
68 Pumping plants..... number.....				1				2	1
69 Engine capacity..... horsepower.....				2				3	15
70 Pump capacity..... gallons per minute.....				116				67	200
COST									
71 Cost of enterprises up to July 1, 1910..... dollars.....	41,569	156,298	63,064	1,654,652	53,197	312,310	268,005	1,817,542	78,337
72 Cost in 1899.....	5,530	147,720	23,225	225,300	23,057	32,130	117,030	306,675	47,150
73 Per cent of increase, 1899-1910.....	651.7	5.8	176.3	632.3	39.6	870.5	128.9	125.3	66.1
74 Average cost per acre enterprises were capable of irrigating in 1910..... dollars.....	3.37	9.22	18.94	18.03	4.58	20.27	3.90	18.08	8.39
75 Average cost per acre irrigated in 1899.....	1.02	13.93	6.87	7.43	3.24	3.17	3.01	14.88	30.09
76 Estimated final cost of existing enterprises..... dollars.....	44,468	156,298	65,397	2,083,052	53,197	450,048	268,005	1,827,542	90,337
77 Average per acre included in projects..... dollars.....	2.26	7.20	9.86	8.63	4.41	8.79	2.98	15.05	4.25
OPERATION AND MAINTENANCE									
78 Acreage for which cost is reported.....	8,754	8,995	2,341	24,976	4,320	6,790	42,030	61,676	4,300
79 Total cost reported..... dollars.....	4,390	5,617	3,249	20,100	1,708	3,202	9,167	37,284	4,963
80 Average per acre for which cost is reported..... dollars.....	0.50	0.61	1.39	1.17	0.40	0.48	0.22	0.60	1.15
81 Average cost per acre in 1899.....									
82 Per cent of increase, 1899-1909.....									

¹ Change of boundary. (See explanation at close of text.)

* Decrease.

* Acreage irrigated includes wild grass, while improved land does not.

COST OF OPERATION AND MAINTENANCE, BY COUNTIES: 1909 AND 1910—Continued.

[Comparative data for 1899 in Italics.]

	Sanpete.	Sevier. ¹	Summit.	Tooele.	Uinta.	Utah.	Wasatch.	Washington.	Wayne.	Weber.
1 Number of all farms in 1910.....	1,708	1,059	447	320	675	2,873	904	508	240	1,555
2 Number of farms irrigated in 1909.....	1,050	1,034	390	272	580	2,717	940	508	235	1,396
3 Per cent of all farms.....	66.6	97.6	88.0	85.0	86.8	94.6	98.1	95.0	95.5	90.0
4 Number of farms irrigated in 1899.....	1,550	921	359	408	651	2,675	483	453	860	1,417
5 Per cent of increase, 1899-1909.....	6.5		2 28.4	2 33.3	10.4	1.6	95.0	25.4	2 8.2	2 1.5
LAND AND FARM AREA										
6 Approximate land area..... acres.....	1,000,960	1,265,920	1,101,680	4,383,360	3,350,400	1,301,760	2,786,560	1,577,600	1,584,000	340,240
7 Land in farms..... acres.....	261,771	122,332	261,050	83,332	82,072	234,717	154,083	50,273	31,617	148,359
8 Improved land in farms..... acres.....	105,807	50,338	32,045	34,230	35,748	124,400	43,220	13,032	11,638	59,781
9 Acreage irrigated in 1909.....	88,959	51,023	37,245	12,318	45,469	80,886	30,031	18,086	13,842	47,505
10 Per cent of total land area.....	8.9	4.1	3.1	3.3	1.4	6.9	1.4	1.2	0.9	13.7
11 Per cent of land in farms.....	34.0	42.2	14.3	13.0	50.1	38.3	25.3	37.2	43.8	32.0
12 Per cent of improved land in farms.....	81.1	91.0	114.1	36.0	135.6	72.2	60.3	137.1	120.0	79.5
13 Acreage irrigated in 1899.....	61,460	36,153	28,095	9,487	20,185	74,872	17,014	7,004	9,095	33,111
14 Per cent of increase, 1899-1909.....	44.7		30.3	23.8	140.1	26.1	121.6	136.4	52.2	43.5
15 Acreage enterprises were capable of irrigating in 1910.....	90,389	52,425	39,313	13,600	130,850	102,026	49,530	24,602	15,980	48,131
16 Acreage included in projects.....	133,559	68,903	46,312	18,523	180,886	127,020	106,841	67,681	34,617	56,160
ACREAGE IRRIGATED AND INCLUDED IN PROJECTS										
<i>CLASSIFIED BY CHARACTER OF ENTERPRISE.</i>										
17 U. S. Reclamation Service, irrigated in 1909.....										
18 Enterprises were capable of irrigating in 1910.....										
19 Included in projects.....										
20 U. S. Indian Service, irrigated in 1909.....					10,226		1,294			
21 Enterprises were capable of irrigating in 1910.....					83,225		3,375			
22 Included in projects.....					102,406		3,594			
23 Carey Act enterprises, irrigated in 1909.....										
24 Enterprises were capable of irrigating in 1910.....										
25 Included in projects.....										
26 Irrigation districts, irrigated in 1909.....										
27 Enterprises were capable of irrigating in 1910.....										
28 Included in projects.....										
29 Cooperative enterprises, irrigated in 1909.....	77,308	45,594	13,519	5,457	30,886	77,440	27,087	14,878	10,470	48,104
30 Enterprises were capable of irrigating in 1910.....	78,368	45,594	13,519	5,457	39,209	87,594	30,202	19,928	10,730	43,194
31 Included in projects.....	117,153	57,022	13,619	7,057	63,928	94,920	72,092	61,343	27,420	49,855
32 Commercial enterprises, irrigated in 1909.....						1,800				
33 Enterprises were capable of irrigating in 1910.....						4,400				
34 Included in projects.....						18,500				
35 Individual and partnership enterprises, irrigated in 1909.....	11,591	6,028	23,720	6,861	7,357	10,637	10,650	3,808	3,372	4,311
36 Enterprises were capable of irrigating in 1910.....	12,021	6,831	25,794	8,149	8,416	10,032	15,872	4,734	5,200	4,937
37 Included in projects.....	16,436	11,371	32,693	10,866	20,552	13,594	31,155	6,330	7,197	6,304
ACREAGE IRRIGATED										
<i>CLASSIFIED BY SOURCE OF WATER SUPPLY.</i>										
38 Supplied from streams.....	87,872	47,510	35,581	10,493	47,893	82,300	38,058	18,020	13,092	46,420
39 By gravity.....	87,872	47,510	35,581	10,493	47,708	82,200	38,058	17,960	13,092	46,420
40 By pumping.....					185	10		60		
41 Supplied from lakes.....		1,100					91			
42 By gravity.....		1,100					91			
43 By pumping.....										
44 Supplied from wells.....	200	451		200		1,238				169
45 Flowing.....	200	451		200		1,238				169
46 By pumping.....										
47 Supplied from springs.....	878	2,555	1,604	1,536	220	6,324	882	646	720	916
48 Supplied from reservoirs.....					350	15		20	30	
49 Total acreage supplied by pumping.....					185	10		60		
IRRIGATION ENTERPRISES										
50 Independent enterprises..... number.....	106	78	173	77	90	230	102	105	39	107
51 Number in 1899.....	78	58	110	18	15	83	79	52	29	55
52 Per cent of increase, 1899-1910.....	35.9		57.3	327.8	340.0	177.1	752.0	228.1	50.0	205.7
53 Main ditches..... number.....	177	99	173	70	90	220	100	138	49	75
54 Number in 1899.....										
55 Per cent of increase, 1899-1910.....										
56 Length..... miles.....	394	234	277	168	371	460	305	263	141	192
57 Length in 1899..... miles.....	208	205	133	110	91	165	87	101	70	100
58 Per cent of increase, 1899-1910.....	89.4		108.3	52.7	307.7	100.8	489.0	100.4	101.4	15.7
59 Capacity..... cubic feet per second.....	1,030	1,300	635	230	3,130	1,730	1,305	437	366	683
60 Laterals..... number.....	118	44	138	36	70	160	38	17	17	50
61 Length..... miles.....	139	55	58	28	384	133	50	15	21	106
62 Reservoirs..... number.....	30	17	22	37	5	60	17	10	18	28
63 Capacity..... acre-feet.....	33,816	11,925	488	443	404	48,012	1,484	44,242	14,274	320
64 Flowing wells..... number.....	150	103		102		195				50
65 Capacity..... gallons per minute.....	4,070	5,125		2,102		9,310				1,007
66 Pumped wells..... number.....										
67 Capacity..... gallons per minute.....										
68 Pumping plants..... number.....					8	5				
69 Engine capacity..... horsepower.....					54	950		102		25
70 Pump capacity..... gallons per minute.....					3,700	202,900		2,330		8,700
COST										
71 Cost of enterprises up to July 1, 1910..... dollars.....	630,936	404,501	143,499	165,573	980,427	1,808,232	442,162	372,362	113,935	463,090
72 Cost in 1899..... dollars.....	272,500	295,240	80,805	48,800	121,325	572,905	64,160	143,115	63,505	390,535
73 Per cent of increase, 1899-1910.....	131.5	37.0	43.8	288.7	671.1	226.1	589.2	202.5	79.4	18.6
74 Average cost per acre enterprises were capable of irrigating in 1910..... dollars.....	6.98	7.72	3.05	12.17	7.18	13.15	8.03	15.10	7.13	9.62
75 Average cost per acre irrigated in 1899..... dollars.....	4.45	8.21	3.51	4.69	6.04	7.78	3.04	16.61	6.08	11.91
76 Estimated final cost of existing enterprises..... dollars.....	658,214	404,501	143,499	165,573	995,635	4,613,401	525,965	507,362	140,925	463,090
77 Average per acre included in projects..... dollars.....	4.93	5.88	3.10	8.94	5.33	36.32	4.92	7.50	4.24	8.23
OPERATION AND MAINTENANCE										
78 Acreage for which cost is reported.....	76,628	42,094	13,510	4,907	27,694	77,084	20,096	12,755	10,470	42,307
79 Total cost reported..... dollars.....	28,171	29,873	5,269	30,990	10,515	40,189	13,323	17,276	10,272	31,318
80 Average per acre for which cost is reported..... dollars.....	0.37	0.71	0.39	6.32	0.38	0.64	0.61	1.35	0.98	0.74
81 Average cost per acre in 1899..... dollars.....										
82 Per cent of increase, 1899-1909.....										

¹ Figures relate only to systems obtaining water from streams.

² Not reported.

³ Not reported by counties.

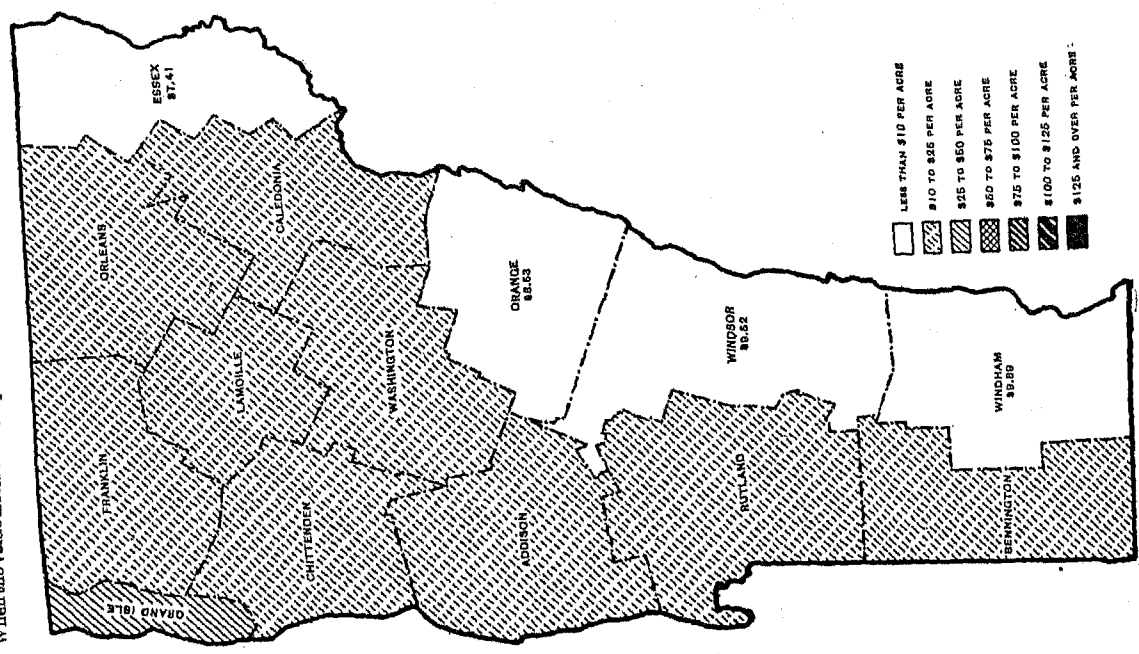
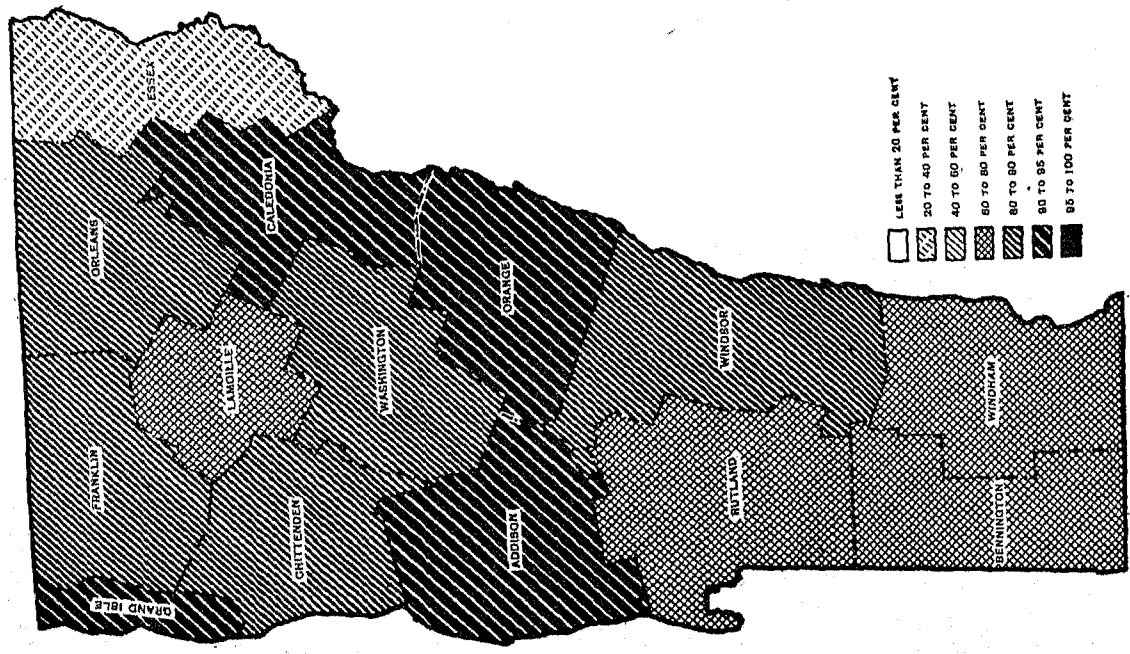
PER CENT OF LAND AREA IN FARMS, AND AVERAGE VALUE OF FARM LAND PER ACRE, IN VERMONT, BY COUNTIES: 1910.

PER CENT OF LAND AREA IN FARMS.
 [Per cent for the state, 79.9.]

The per cent of area in farms when less than 20 is inserted under the county name.

AVERAGE VALUE OF FARM LAND PER ACRE.
 [Average for the state, \$12.52.]

When the value is less than \$10 per acre it is inserted under the county name.



VERMONT.

FARMS AND FARM PROPERTY.

Vermont ranks forty-second both in area and in population among the states of continental United States. From the standpoint of agricultural development it has long since passed out of the class of states having a large area of land suitable for cultivation by current methods and not yet so utilized, and is now included among the states that utilize for farming most of the land adapted to that purpose. The surface of the state everywhere is irregular and broken, because of mountains which divide it into nearly equal parts. The western part of the state has the best tracts of arable land.

The two maps on the opposite page show, for the different counties, the proportion of the total land area which is in farms and the average value of farm land per acre. Of the state's entire land area four-

fifths is in farms, and the first map shows that in every county except Essex at least three-fifths of the total land area is in farms, while in four counties the proportion exceeds nine-tenths.

The average value of farm land per acre for the whole state is \$12.52, and, as shown by the second map, in Grand Isle County the average value exceeds \$25 per acre, while in Essex, Orange, Windham, and Windsor Counties it falls below \$10. In all other counties the average value per acre falls between \$10 and \$25.

Progress during the decade 1900 to 1910.—The following table summarizes for the state the more significant facts relating to population and land area, the number, value, and acreage of farms, and the value of all other farm property in 1910 and 1900:

NUMBER, AREA, AND VALUE OF FARMS.	1910 (April 15)	1900 (June 1)	INCREASE. ¹	
			Amount.	Per cent.
Population.....	355,956	343,641	12,315	3.6
Number of all farms.....	32,709	33,104	-395	-1.2
Approximate land area of the state..... acres..	5,839,360	5,839,360	.....	.....
Land in farms..... acres..	4,668,577	4,724,440	-60,863	-1.3
Improved land in farms..... acres..	1,633,965	2,126,624	-492,659	-23.2
Average acres per farm.....	142.6	142.7	-0.1	-(²)
Value of farm property:				
Total.....	\$145,399,728	\$108,451,427	\$36,948,301	34.1
Land.....	58,385,327	45,813,905	12,571,422	27.4
Buildings.....	54,202,948	37,257,715	16,945,233	45.5
Implements and machinery.....	10,168,687	7,538,490	2,630,197	34.9
Domestic animals, poultry, and bees.....	22,642,766	17,841,317	4,801,449	26.9
Average value of all property per farm.....	\$4,445	\$3,276	\$1,169	35.7
Average value of land per acre.....	\$12.52	\$9.70	\$2.82	29.1

¹ A minus sign (-) denotes decrease.

² Less than one-tenth of 1 per cent.

Between 1900 and 1910 there was an increase of 12,315, or 3.6 per cent, in the population of the state, while there was a decrease of 395, or 1.2 per cent, in the number of farms, and of nearly 61,000 acres, or 1.3 per cent, in the area of farm land. The average size of the farms was, however, practically the same in both years.

Farm property, which includes land, buildings, implements and machinery, and live stock (domestic animals, poultry, and bees), has increased in value during the decade nearly \$37,000,000, or 34.1 per cent. This increase is chiefly made up of increases of \$16,945,000 in the value of buildings and of \$12,571,000 in the value of land, the latter representing an advance of 29.1 per cent in average value per acre. There was also an increase of \$7,432,000 in the value of farm equipment, including implements and machinery and live stock, of which more than three-fifths represents a gain in the value of live stock and the remainder the increase in the value of implements and machinery.

In considering the increase of values in agriculture the general increase in the prices of all commodities in the last 10 years should be borne in mind.

The average value of a farm with its equipment in 1900 was slightly under \$3,300, while 10 years later it was a little over \$4,400. The average value of land rose from approximately \$10 per acre in 1900 to over \$12.50 in 1910, this advance being accompanied by increases in the average value per farm of implements and machinery and of live stock.

Population, number of farms, and farm acreage: 1850 to 1910.—The next table presents, for the state as a whole for each census from 1850 to 1910, inclusive, a statement of the total population, the number of farms, the acreage of farm land and of improved land in farms, the percentage of the land area which was in farms, and the percentage of farm land improved, and also shows the percentage of increase during each decade in the number of farms and in the land in farms.

GENSUS YEAR.	Population.	FARMS.		LAND IN FARMS.			Per cent of land area in farms.	Per cent of farm land improved.
		Number.	Per cent of increase. ¹	All land.		Improved land (acres).		
				Acres.	Per cent of increase. ¹			
1910.....	355,956	32,700	-1.2	4,663,577	-1.3	1,633,965	79.9	35.0
1900.....	343,641	33,104	1.6	4,724,440	7.5	2,126,624	80.9	45.0
1890.....	332,422	32,573	-8.3	4,395,640	-10.0	2,056,043	75.3	60.4
1880.....	332,286	35,522	6.0	4,882,588	7.8	3,286,461	83.6	67.3
1870 *.....	339,551	33,827	7.2	4,528,804	6.0	3,073,257	77.6	67.9
1860.....	315,098	31,556	0.0	4,274,414	3.6	2,829,157	73.2	66.0
1850.....	314,120	29,763	.....	4,125,822	.....	2,601,409	70.7	63.1

¹ A minus sign (-) denotes decrease.

In the 60 years since 1850 the population of the state has increased by 41,836, or 13.3 per cent.

There was a gradual increase in the number of farms from 1850 to 1880, the total increase during the 30-year period being 5,759. During the 30 years from 1880 to 1910, however, there was a net decrease of 2,813, or an average of nearly 94 per year. The average decrease during the decade 1900 to 1910 was smaller, being only 40. In the northwestern part of the state (Chittenden, Franklin, and Grand Isle Counties) there has been an appreciable increase in the number of farms. Elsewhere the number has remained practically stationary or has shown a decrease, the decrease in no case, however, exceeding 9 per cent.

The land surface of Vermont is approximately 5,839,360 acres in extent. Of this area, 4,663,577 acres, or 79.9 per cent, are included in farms. Of the farm acreage, 1,633,965 acres, or 35 per cent, are reported as improved land, representing 28 per cent of the total land area of the state. The total acreage of farm land decreased 1.3 per cent during the last decade. The reported acreage of improved land shows a greater relative decrease from 1900 to 1910 than does the total acreage in farms, the percentage of farm land which is improved being considerably lower at the Thirteenth Census than in 1900.

For the longer period covered by the table a gradual increase from 1850 to 1880 in the total farm acreage and in the acreage of improved land is shown. The proportion of the total land area of the state which was occupied by farms rose during this period from 70.7 per cent to 83.6 per cent, while the improved land increased from 63.1 per cent to 67.3 per cent of the total land in farms. Since 1880, however, the proportion of land area in farms has decreased until in 1910 it was 79.9 per cent, though during a portion of the period—the decade 1890–1900—there was a slight increase. During the same 30-year period there has been a continuous decrease in the reported acreage of improved land, until in 1910 the percentage of total farm acreage improved was but little more than one-half as great as in 1880. The decrease doubtless represents a change in the classification of land by many farmers who now report as “unimproved land” much acreage which they formerly called “improved.”

Values of farm property: 1850 to 1910.—The agricultural changes in Vermont since 1850, as reflected in the values of the several classes of farm property, are shown in the table which follows:

GENSUS YEAR.	FARM PROPERTY.							
	Total.		Land and buildings.		Implements and machinery.		Domestic animals, poultry, and bees.	
	Value.	Per cent of increase. ¹	Value.	Per cent of increase. ¹	Value.	Per cent of increase. ¹	Value.	Per cent of increase. ¹
1910.....	\$145,399,728	34.1	\$112,588,275	35.5	\$10,168,087	34.9	\$22,642,766	26.9
1900.....	108,451,427	6.5	83,071,620	3.3	7,538,490	59.3	17,841,317	7.2
1890.....	101,805,370	-22.2	80,427,490	-26.4	4,733,500	-3.0	16,644,320	0.4
1880.....	130,811,490	-3.0	109,346,010	-1.9	4,879,285	16.2	16,586,195	-18.2
1870 *.....	134,804,951	18.0	111,493,600	18.2	4,200,223	14.6	19,111,068	17.7
1860.....	114,196,989	45.0	94,289,045	48.8	3,605,955	33.8	16,241,989	28.5
1850.....	78,749,737	.....	63,367,227	.....	2,739,282	.....	12,643,228	.....

¹ A minus sign (-) denotes decrease.

² Computed gold values, being 80 per cent of the currency values reported.

The total wealth in the form of farm property is \$145,400,000, of which over three-fourths is represented by land and buildings, 7 per cent by implements and machinery, and over 15 per cent by live stock. The total value of farm property increased from 1900 to 1910 by \$36,948,000, or 34.1 per cent. Of this increase, \$29,517,000 represents the increase in the value of land and buildings, \$2,630,000 the increase in that of implements and machinery, and \$4,801,000 the increase in that of live stock. The actual and relative gain during the decade from 1900 to 1910 was over five times as great as during the decade immediately preceding; while in the two decades between 1870 and 1890, decreases in value were reported.

Average acreage and values per farm: 1850 to 1910.—The changes which have taken place during the past 60 years in the average acreage of Vermont farms and the average values of the various classes of farm property, as well as in the average value per acre of land and buildings, are shown in the following table:

GENSUS YEAR.	Average acres per farm.	AVERAGE VALUE PER FARM. ¹				Average value of land and buildings per acre.
		All farm property.	Land and buildings.	Implements and machinery.	Domestic animals, poultry, and bees.	
1910.....	142.6	\$4,445	\$3,442	\$311	\$692	\$24.14
1900.....	142.7	5,276	2,509	228	539	17.58
1890.....	134.0	3,125	2,469	145	511	18.30
1880.....	137.5	3,083	3,073	137	467	22.40
1870 *.....	133.0	3,985	3,296	124	565	24.62
1860.....	135.5	3,619	2,983	116	515	22.06
1850.....	138.6	2,640	2,129	92	425	15.36

¹ Averages are based on “all farms” in state.

² Computed gold values, being 80 per cent of the currency values reported.

In average size the Vermont farm has varied but little for the 60 years since 1850, the increase during that time being only 4 acres. The average size was greater in 1850 than at any subsequent date before 1900. Between 1850 and 1890 a slight decrease took place, interrupted by an increase between 1870 and 1880. Between 1890 and 1900 there was an in-

crease of nearly 8 acres, followed by a decrease of one-tenth of an acre during the last decade.

The average value of a Vermont farm, including its equipment, is a little more than \$4,400, of which over \$3,400 represents the value of land and buildings, almost \$700 the value of live stock, and over \$300 the value of implements and machinery. The average value of land and buildings has increased \$6.56 per acre during the last decade. An increase also took place during each decade between 1850 and 1870, but from 1870 to 1900 there was an uninterrupted decrease. The value per farm of equipment, which includes implements and machinery and live stock, is nearly twice as great as in 1850.

Farm tenure: 1880 to 1910.—The following table shows the distribution of the farms of the state according to character of tenure at each census since 1880:

TENURE.	1910	1900	1890	1880
Number of all farms.....	32,709	33,104	32,573	35,522
Farms operated by owners and managers	28,701	28,284	27,816	30,760
Farms consisting of owned land only.....	26,793	26,296	(¹)	(¹)
Farms consisting of owned and hired land.....	1,272	1,373	(¹)	(¹)
Farms operated by managers.....	636	615	(¹)	(¹)
Farms operated by tenants	4,008	4,820	4,757	4,762
Share tenants.....	1,642	2,306	2,466	2,508
Share-cash tenants ²	50			
Cash tenants.....	2,182	2,424	2,301	2,164
Tenure not specified ³	134			
Per cent of farms operated by—				
Owners and managers.....	87.7	85.5	85.4	86.0
Tenants.....	12.3	14.6	14.6	13.4
Share and share-cash.....	5.2	7.2	7.5	7.3
Cash and nonspecified.....	7.1	7.3	7.1	6.1

¹ Not reported separately.
² Share-cash tenants were doubtless largely included with share tenants in 1900, 1890, and 1880.
³ Prior to 1910 nonspecified tenants were included with cash tenants.

It is significant that while there was a decrease of 395 in the total number of farms during the last decade, an increase of 417 was reported in the number of farms operated by owners and managers and a decrease of 812 in the number operated by tenants.

In 1880 thirteen out of every hundred farms were operated by tenants. This proportion increased during the following decade, but during the next 20 years it decreased until in 1910 only twelve out of every hundred farms were thus operated.

The number of cash tenants is about the same as in 1890, but for the 30-year period as a whole it has been increasing, and since 1900 the number of cash tenants, including "nonspecified," has been greater than that of share tenants. The farms now rented for cash, including those for which the form of tenure is not reported, represent 7.1 per cent of the total, and those rented in whole or in part for a share of the products, 5.2 per cent. A decrease of 704 has occurred during the last decade in the number of farms operated by share and share-cash tenants.

The following table shows the acreage, improved acreage, and the value of land and buildings for farms operated by owners (including part owners), managers, and tenants, respectively.

FARMS OPERATED BY—	ALL LAND IN FARMS (ACRES).		IMPROVED LAND IN FARMS (ACRES).		VALUE OF LAND AND BUILDINGS.	
	1910	1900	1910	1900	1910	1900
Total.....	4,663,577	4,724,440	1,633,965	2,126,624	\$112,588,275	\$83,071,620
Owners.....	3,816,498	3,833,611	1,321,497	1,700,054	88,500,017	65,574,169
Managers.....	298,935	131,440	52,584	60,303	7,926,085	3,978,580
Tenants.....	638,141	759,389	259,884	366,267	10,000,173	13,518,880

The following table shows the per cent distribution by tenure groups of the items in the preceding table, and also of the number of farms:

FARMS OPERATED BY—	PER CENT OF TOTAL.							
	Number of farms.		All land in farms.		Improved land in farms.		Value of land and buildings	
	1910	1900	1910	1900	1910	1900	1910	1900
Total.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Owners.....	85.8	83.0	81.8	81.1	80.9	79.9	78.7	78.9
Managers.....	1.9	1.9	4.5	2.8	3.2	2.8	7.0	4.8
Tenants.....	12.3	14.0	13.7	16.1	15.9	17.2	14.3	16.3

It will be seen that, in 1910, 81.8 per cent of all land in farms was in farms operated by their owners (including part owners), 4.5 per cent in farms operated by managers, and 13.7 per cent in farms operated by tenants, the percentages for owners and managers being higher and that for tenants lower than in 1900.

As shown by the next table the average size of farms operated by managers in 1910 (328.5 acres) was more than twice as great as that of farms operated by tenants (159.2 acres), which was in turn somewhat larger than that of farms operated by owners (136 acres). The average size of farms operated by managers increased greatly from 1900 to 1910, while that of farms operated by tenants increased slightly, and that of farms operated by owners showed a small decrease. In 1910 the percentage of farm land improved was highest for farms operated by tenants and lowest for those operated by managers.

FARMS OPERATED BY—	AVERAGE ACRES PER FARM.				PER CENT OF FARM LAND IMPROVED.		AVERAGE VALUE OF LAND AND BUILDINGS.			
	All land.		Improved land.		PER CENT OF FARM LAND IMPROVED.		Per farm.		Per acre.	
	1910	1900	1910	1900	1910	1900	1910	1900	1910	1900
Total.....	142.6	142.7	50.0	64.2	35.0	45.0	\$3,442	\$2,509	\$24.14	\$17.58
Owners.....	136.0	138.0	47.1	61.4	34.6	44.3	3,150	2,370	23.21	17.11
Managers.....	328.5	213.7	82.7	98.2	25.2	45.9	12,402	6,469	37.94	30.27
Tenants.....	159.2	157.5	64.8	76.0	40.7	48.2	4,010	2,805	25.22	17.80

Farm mortgages: 1890 to 1910.—The Eleventh Census (1890) was the first to collect data relating to mortgage debt on farms. The basis of the returns was the "farm home" occupied by its owner. The same class of information was secured by the population schedules of the Twelfth Census (1900). The agricultural schedules of the Thirteenth Census (1910) secured practically the same information, except that the basis was "owned farms" instead of "owned farm homes"—a difference involving, however, no appreciable incomparability.

The following table relates to farms operated by persons owning all or part of the land, and shows for 1910 (1) the number of such farms reported as free from mortgage; (2) the number reported as mortgaged; and (3) the number for which no mortgage reports were secured. Comparable items are included for 1900 and 1890.

CLASS.	OWNED FARMS. ¹		OWNED FARM HOMES.		OWNED FARM HOMES. ²	
	1910		1900		1890	
	Number.	Per cent. ³	Number.	Per cent. ³	Number.	Per cent.
Total.....	28,065		27,252		26,835	
Free from mortgage.....	14,851	53.1	14,151	53.1	14,935	55.7
Mortgaged.....	13,140	46.9	12,493	46.0	11,900	44.3
Unknown.....	74		608			

¹ Includes all farms owned in whole or in part by the operator.
² The 313 "owned farm homes" for which no reports were secured were distributed between "free from mortgage" and "mortgaged" in 1890.
³ Per cent of combined total of "free from mortgage" and "mortgaged."

According to the foregoing figures the actual number of mortgaged farm homes or mortgaged farms, operated by their owners, has increased continuously since 1890. Almost half the owned farms are mortgaged, the proportion being exactly the same as 10 years ago, but somewhat greater than in 1890. During the last two decades the number of owned farms has increased 1,230, or 4.6 per cent, while the number of owned farms which are mortgaged increased 1,240, or 10.4 per cent.

The following table gives a comparative statement of the value of mortgaged farms operated by their owners, and the amount of indebtedness, together with the average value of such farms, the average debt per farm, and the average equity per farm for 1910 and 1890. Data regarding the amount of mortgage debt were not obtained in 1900.

	OWNED FARMS OR FARM HOMES MORTGAGED.		INCREASE.	
	1910 ¹	1890 ²	Amount.	Per cent.
Number.....	12,138	11,900		
Value—Land and buildings.....	\$30,858,501	\$28,020,893		
Amount of mortgage debt.....	\$12,430,091	\$11,952,400		
Per cent of debt to value.....	33.7	41.8		
Average value per farm.....	\$3,037	\$2,405	\$632	26.3
Average debt per farm.....	\$1,025	\$1,004	\$21	2.1
Average equity per farm.....	\$2,012	\$1,401	\$611	43.6

¹ Includes only farms consisting wholly of owned land and reporting value of farm and amount of debt.
² Includes all owned farm homes, estimates being made of value of farms and amount of debt for all defective reports.

Of the farmers who report mortgage debt on farms operated by them, 606 own only a part of their farms and 12,534 own all of their farms. Of the latter number 12,138 report the amount of their mortgage debt as well as the fact of indebtedness. In this connection it should be noted that in 1890 as in 1910 there were many imperfect mortgage reports. At that time the amount of mortgage debt for farms without full reports was estimated according to the percentages and averages obtained from those with complete reports. No such estimate is here made for 1910.

The average debt of mortgaged farms increased in 20 years from \$1,004 to \$1,025, or 2.1 per cent, while the average value of such farms rose from \$2,400 to over \$3,000, or 26.3 per cent; thus the owner's equity increased from \$1,400 to over \$2,000, or 43.6 per cent. As a result of the greater increase in farm value than in farm debt, the mortgage indebtedness, which was 41.8 per cent of the value of the farm in 1890, has decreased to 33.7 per cent of this value in 1910.

Farms by size groups: 1910 and 1900.—The following table shows the distribution of farms by size groups at the censuses of 1910 and 1900:

SIZE GROUP.	NUMBER OF FARMS.		INCREASE. ¹		PER CENT OF TOTAL.	
	1910	1900	Number.	Per cent.	1910	1900
Total.....	32,709	33,104	-395	-1.2	100.0	100.0
Under 3 acres.....	60	224	-164	-73.2	0.2	0.7
3 to 9 acres.....	2,581	1,378	1,203	87.3	7.9	4.2
10 to 19 acres.....	1,937	1,083	254	15.1	5.9	5.1
20 to 49 acres.....	3,481	3,511	-30	-0.9	10.6	10.6
50 to 99 acres.....	5,910	6,513	-603	-9.3	18.1	19.7
100 to 174 acres.....	9,492	10,215	-723	-7.1	29.0	30.8
175 to 499 acres.....	5,194	5,512	-318	-5.8	15.9	16.6
200 to 499 acres.....	3,322	3,431	-109	-3.2	10.2	10.4
500 to 999 acres.....	607	536	71	13.2	1.9	1.6
1,000 acres and over.....	125	101	24	23.8	0.4	0.3

¹ A minus sign (-) denotes decrease.

Nearly half of all the farms in Vermont are between 50 and 174 acres in size. More than one-fourth are in the groups between 175 and 499 acres, and nearly one-fourth are between 3 and 49 acres in size. A study of the distribution of farms by size groups discloses the fact that the greatest actual and relative gain in number from 1900 to 1910 was made in the "3 to 9 acres" group. The number of places "under 3 acres" reported as farms is but little more than one-fourth as great as 10 years ago. This decrease may be due to a different interpretation by the enumerators as to what to include as a small farm, or may represent an actual decrease in that type of farm. Farms containing from 10 to 19 acres have increased 254, or 15.1 per cent. A decrease is shown for each group of farms falling between 20 and 499 acres, the aggregate decrease being 1,783, or 6.1 per cent. The farms which exceed 500 acres in size increased 95, or 14.9 per cent.

The following table shows the total and improved acreage and the value of land and buildings for farms of various size groups, consolidating into one group the farms of less than 20 acres (numbering in all 4,578), and also the farms of between 175 and 499 acres (numbering 8,516):

SIZE GROUP.	ALL LAND IN FARMS (ACRES).		IMPROVED LAND IN FARMS (ACRES).		VALUE OF LAND AND BUILDINGS.	
	1910	1900	1910	1900	1910	1900
Total.....	4,663,577	4,724,440	1,633,965	2,120,624	\$112,588,275	\$83,071,620
Under 20 acres.....	40,250	32,276	29,952	25,275	7,032,142	4,040,790
20 to 49 acres.....	112,129	120,740	58,062	70,300	7,038,230	5,061,670
50 to 99 acres.....	424,012	465,227	182,038	244,494	13,057,080	10,668,780
100 to 174 acres.....	1,238,117	1,328,066	480,120	630,139	20,253,559	22,544,100
175 to 499 acres.....	2,137,113	2,280,010	757,888	990,002	43,704,392	31,018,140
500 to 999 acres.....	371,849	322,903	95,040	117,538	6,114,956	3,920,200
1,000 acres and over.....	290,107	172,218	20,365	36,180	5,637,316	2,171,856

The following table shows the per cent distribution, by size groups, of the items presented in the preceding table, and also of the number of farms:

SIZE GROUP.	PER CENT OF TOTAL.							
	Number of farms.		All land in farms.		Improved land in farms.		Value of land and buildings.	
	1910	1900	1910	1900	1910	1900	1910	1900
Total.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Under 20 acres.....	14.0	0.9	0.0	0.7	1.8	1.2	0.8	4.9
20 to 49 acres.....	10.6	10.6	2.4	2.6	3.6	3.3	0.3	0.1
50 to 99 acres.....	18.1	19.7	0.1	0.9	11.2	11.5	11.6	12.8
100 to 174 acres.....	23.0	30.8	26.5	28.1	29.4	29.0	26.0	27.2
175 to 499 acres.....	26.0	27.0	46.9	48.3	40.4	40.9	38.0	41.7
500 to 999 acres.....	1.9	1.6	8.0	6.8	5.9	5.5	5.4	4.7
1,000 acres and over.....	0.4	0.3	6.2	3.6	1.8	1.7	6.0	2.6

Of the total farm acreage of the state in 1910, 46.9 per cent was in farms of 175 to 499 acres, this being by far the most important size group from the standpoint of total acreage. The farms of 100 to 174 acres comprised 26.5 per cent of the total acreage. Between 1900 and 1910 there was a considerable increase in the proportion of the total acreage which was in farms of 500 acres and over.

As shown by the table below, the percentage of farm land improved steadily diminishes as the size of the farms increases.

SIZE GROUP.	PER CENT OF FARM LAND IMPROVED.		AVERAGE VALUE OF LAND AND BUILDINGS.			
	1910	1900	Per farm.		Per acre.	
			1910	1900	1910	1900
Total.....	35.0	45.0	\$3,442	\$2,509	\$24.14	\$17.58
Under 20 acres.....	74.4	78.3	1,680	1,232	191.11	125.38
20 to 49 acres.....	51.8	58.3	2,022	1,442	62.77	41.02
50 to 99 acres.....	43.1	52.2	2,200	1,638	30.80	22.70
100 to 174 acres.....	38.8	47.9	3,082	2,211	21.63	17.01
175 to 499 acres.....	34.7	43.7	5,143	3,871	20.02	15.18
500 to 999 acres.....	25.8	36.4	10,074	7,314	16.44	12.14
1,000 acres and over.....	10.1	21.0	45,090	21,593	10.43	12.61

For the reason stated and also because buildings have normally a higher value in proportion to farm

DOMESTIC ANIMALS, POULTRY, AND BEES.

Domestic animals on farms: 1910.—The census of 1910 was taken as of April 15 and that of 1900 as of June 1. Since a great many domestic animals are born during the six weeks between April 15 and June 1, and on the other hand a considerable number of older animals are slaughtered or die during the same period, the numbers of the different classes of animals for the two censuses are not closely comparable, and the same is true in somewhat less degree of the values. For this reason the figures for 1900 are not presented in this bulletin, but in the general reports of the census the figures for the several states will be presented and the extent to which their comparability is affected by the change in the date of enumeration will be discussed.

The next table summarizes the statistics of domestic animals on farms for the state, recorded as of April 15, 1910. Cattle and sheep are divided into

acreage on small than on large farms, the average value of land and buildings per acre of land also diminishes with the increase in the size of the farms, except that it is somewhat higher for farms of over 1,000 acres than for those of 500 to 999 acres; it is very much higher for the farms under 20 acres in size than for those of any other group.

Color and nativity of farmers: 1910.—Prior to the Thirteenth Census no attempt was made in the census of agriculture to secure information concerning the nativity of farmers. The table which follows shows the color and nativity of farm operators by character of tenure for 1910:

COLOR AND NATIVITY.	FARM OPERATORS.							
	Total.		Owners.	Tenants.	Managers.	Per cent of total.		
	Number.	Per cent distribution.				Own-ers.	Ten-ants.	Man-agers.
Total.....	32,709	100.0	28,065	4,008	636	85.8	12.3	1.9
Native white.....	28,068	88.6	24,789	3,003	576	85.6	12.4	2.0
Foreign-born white.	3,721	11.4	3,250	403	59	87.6	10.8	1.6
Negro and other nonwhite.....	20	0.1	17	2	1	85.0	10.0	5.0

Nearly nine-tenths of the Vermont farmers were in 1910 native whites and one-tenth foreign-born whites. Only 20, or one-tenth of 1 per cent of all farmers, were negroes. No other nonwhite farmers are reported. It is significant that only 10.8 per cent of the foreign-born white farmers were tenants, whereas 12.4 per cent of the native white farmers were in this class.

Of the 3,721 foreign-born white farmers in Vermont in 1910, 2,463 were born in Canada; 463 in Ireland; 210 in England; 158 in Wales; 118 in Scotland; 102 in Germany; and 61 in Sweden. Other European countries were represented by 144 farmers, and non-European countries, other than Canada, by 2.

age and sex groups, while horses, mules, and swine are presented by age groups only.

Of all the farms in the state, 86.4 per cent report cattle, 85.4 per cent "dairy cows," and only 22.6 per cent "other cows." Only 324 farms have cattle without having dairy cows. The total number of cows increased slightly during the decade, while the average value of dairy cows increased from \$28.65 to \$35.89. The farms reporting dairy cows show an average of nearly 10 per farm.

The census of 1900 was taken as of June 1, after all the spring calves were born; while that of 1910 was taken as of April 15, before the close of the calving season, and when the calves on hand were on the average younger than at the enumeration of 1900. As a result, the calves enumerated were fewer in number and of lower average value in 1910 than in

1900, the number decreasing from 101,584 to 67,573, and the average value decreasing from \$5.57 to \$4.84.

Horses are reported by 86.1 per cent of all the farms in the state, but only 9 per cent report colts born in 1909, and 0.6 per cent report spring colts. The average value of spring colts is more than one-third, and that of yearlings slightly over one-half, that of mature horses, which is \$108.79.

AGE AND SEX GROUP.	FARMS REPORTING.		ANIMALS.		
	Number.	Percent of all farms.	Number.	Value.	Average value.
Total.....	30,375	92.9	.....	\$21,990,630	.....
Cattle	28,271	86.4	430,314	11,838,892	\$27.40
Dairy cows (cows and heifers kept for milk, born before Jan. 1, 1900).....	27,917	85.4	265,483	9,527,600	35.80
Other cows (cows and heifers not kept for milk, born before Jan. 1, 1900).....	7,388	22.6	27,612	580,806	21.25
Heifers born in 1909.....	14,148	43.3	45,921	626,515	13.64
Calves born after Jan. 1, 1910.....	15,784	48.3	67,573	326,718	4.84
Steers and bulls born in 1909.....	6,031	18.4	10,501	170,006	16.28
Steers and bulls born before Jan. 1, 1909.....	6,924	21.2	13,224	590,227	44.63
Horses	28,147	86.1	80,781	8,591,357	106.35
Mares, stallions, and geldings born before Jan. 1, 1909.....	28,114	86.0	77,043	8,381,854	108.79
Colts born in 1909.....	2,948	9.0	3,513	200,025	57.11
Colts born after Jan. 1, 1910.....	188	0.6	225	3,878	30.46
Mules	208	0.6	420	53,540	124.80
Mules born before Jan. 1, 1909.....	100	0.0	405	51,015	127.44
Mule colts born in 1909.....	16	(¹)	23	1,805	81.09
Mule colts born after Jan. 1, 1910.....	1	(¹)	1	00	.....
Asses and burros	18	0.1	22	2,038	92.64
Swine	17,995	55.0	94,821	974,779	10.28
Hogs and pigs born before Jan. 1, 1910.....	16,168	49.4	54,537	798,831	14.65
Pigs born after Jan. 1, 1910.....	6,161	18.8	40,284	175,948	4.37
Sheep	5,033	15.4	118,551	538,991	4.55
Ewes born before Jan. 1, 1910.....	4,560	14.0	78,996	430,077	5.44
Rams and wethers born before Jan. 1, 1910.....	1,997	6.1	5,304	41,028	7.66
Lambs born after Jan. 1, 1910.....	2,702	8.3	34,191	67,880	1.99
Goats	89	0.2	261	1,033	3.99

¹ Less than one-tenth of 1 per cent.

Less than one farmer out of every hundred reports mules, mule colts, asses, or burros. The average value of mature mules was \$127.44, which was considerably higher than the average value of mature horses. The average value of yearling mule colts was \$81.09, or nearly two-thirds that of mature mules.

Sheep and lambs are reported from 5,033 farms, or 15.4 per cent of all the farms in the state. Of these 5,033 farms, 53.7 per cent report spring lambs, the number of the latter being equal to 43.3 per cent of the number of ewes; this comparatively small proportion is doubtless due to the early date of enumeration. Ewes are reported from all but 464 of the farms re-

porting sheep, and for the farms reporting the average is 17 ewes per farm. The farms reporting rams and wethers show an average of nearly 3 per farm.

Of all farms, 55 per cent report swine, the average number being 5 per farm reporting. The average value of the swine, reported as "hogs and pigs born before January 1, 1910," is nearly \$15, while that of spring pigs is about one-third as much.

Poultry on farms: 1910 and 1900.—The following table gives the numbers of the various kinds of poultry reported in 1910 and 1900, together with their value, and the number of farms reporting each kind in 1910:

KIND.	1910 (April 15)				1900 (June 1)
	Farms reporting.		Number of fowls.	Value.	Number of fowls.
	Number.	Percent of all farms.			
Total	27,528	84.2	988,524	\$607,787	843,163
Chickens.....	27,463	84.0	911,730	560,642	806,451
Turkeys.....	2,456	7.5	11,693	33,549	22,680
Ducks.....	1,252	3.8	4,561	4,197	8,836
Geese.....	677	2.1	2,505	4,867	5,187
Guinea fowls.....	938	2.9	3,742	2,446	(¹)
Pigeons.....	170	0.5	4,232	1,943	(²)
Peafowls.....	2	(³)	7	35	(³)
Pheasants.....	1	(³)	54	108	(³)

¹ Included with chickens. ² Not reported. ³ Less than one-tenth of 1 per cent.

The increase in the number of fowls on Vermont farms during the last decade was 11.3 per cent, while the value showed an increase from \$421,000 to \$608,000, or 44.3 per cent. The increase represents a gain in the number of chickens sufficient to offset a decrease in the number of turkeys, ducks, and geese. The number of farms reporting poultry decreased from 28,711 to 27,528, but the average number of fowls per farm reporting increased from 29 to 34. The value of poultry and the number of farms reporting were obtained in 1900 for the total of all fowls only, and not for each kind, as in 1910.

Bees on farms: 1910 and 1900.—The number of farms reporting bees has decreased from 1,878 in 1900 to 1,124 in 1910, or 40.1 per cent. The number of colonies of bees decreased from 12,836 to 10,215, or 20.4 per cent, and their value decreased from \$46,953 to \$44,349, or 5.6 per cent. A greater proportionate decrease is found in the number of colonies and in the number of farms reporting than in the total value of bees. The average value of bees per farm reporting was \$25 in 1900 and \$39.46 in 1910. Less than four farms in every hundred reported bees.

Domestic animals not on farms: 1910.—Most of the domestic animals not on farms are found in cities, towns, and villages. Statistics for such animals are shown below. No provision was made by law to secure data pertaining to poultry and bees not on farms. In the next table age groups are omitted for the sake of brevity, but it may be noted that in cities and villages a comparatively small proportion of the animals of each class are in the younger age groups.

KIND.	Number of inclosures reporting.	ANIMALS.		
		Number.	Value.	Average value.
Total.....	12,095		\$2,581,230	
All cattle.....	4,088	5,870	207,008	\$35.33
Dairy cows.....	3,991	4,848	187,156	38.60
Horses.....	0,867	18,800	2,305,409	122.59
Mules.....	48	192	28,458	148.22
Asses and burros.....	1	2	100	50.00
Swine.....	1,660	3,522	38,253	10.86
Sheep.....	49	201	1,260	6.31
Goats.....	13	20	133	6.65

As would be expected, horses are by far the most important class of domestic animals not on farms, both in number and in value; cattle, consisting mainly of dairy cows, rank next in importance.

Domestic animals on farms and not on farms: 1910.—The next table gives the total number and value of domestic animals, distinguishing those on farms from those not on farms.

KIND.	DOMESTIC ANIMALS.					
	Total.		On farms.		Not on farms.	
	Number.	Value.	Number.	Value.	Number.	Value.
Total.....		\$24,571,860		\$21,990,030		\$2,581,230
All cattle.....	430,100	12,030,500	430,314	11,828,892	5,876	207,608
Dairy cows.....	270,331	9,714,810	265,483	9,527,060	4,848	187,156
Horses.....	99,587	10,800,700	80,781	8,591,357	18,800	2,305,409
Mules.....	621	81,998	420	53,540	192	28,458
Asses and burros.....	24	2,138	22	2,038	2	100
Swine.....	98,343	1,013,032	94,821	974,779	3,522	38,253
Sheep.....	118,752	540,200	118,551	538,091	201	1,260
Goats.....	281	1,100	261	1,033	20	133

The total value of all domestic animals in the state in 1910 was \$24,572,000, of which the value of animals not on farms represented 10.5 per cent. The number of horses not on farms was nearly one-fourth as great as the number on farms, but in the case of the other classes of animals the proportion not on farms was much lower.

LIVE STOCK PRODUCTS.

The returns for live stock products obtained at the census of 1910, like those for crops, relate to the activities of the calendar year 1909. It is impossible to give a total representing the annual production of live stock products for the reason that, as shown elsewhere, the total value of products from the business of raising domestic animals for use, sale, or slaughter can not be calculated from the census returns. Even if this value could be ascertained and were added to the value of the crops, the sum would not correctly represent the total value of farm products, because, as already more fully explained, duplication would result from the fact that part of the crops are fed to the live stock.

Dairy products: 1909 and 1899.—The following table shows the principal statistics relative to dairy products in 1909, with certain comparative statistics for 1899:

	FARMS REPORTING.		Number or quantity.	Unit.	VALUE.	
	Number.	Per cent of all farms.			Total.	Average per unit.
Dairy cows on farms April 15, 1910.....	27,947	85.4	205,483	Head.		
On farms reporting dairy products in 1909.....	26,636	81.4	250,200	Head.		
On farms reporting milk produced in 1909.....	25,433	77.8	247,126	Head.		
Specified dairy products, 1909:						
Milk reported.....			114,317,169	Gals.		
Butter made.....	15,102	46.2	15,105,692	Lbs.	\$4,185,028	\$0.28
Cheese made.....	88	0.3	246,884	Lbs.	32,583	0.13
Milk sold.....	7,540	23.1	33,998,934	Gals.	4,108,228	0.12
Cream sold.....	2,988	9.1	2,353,636	Gals.	1,537,698	0.65
Butter fat sold.....	4,780	14.0	7,756,395	Lbs.	2,204,928	0.29
Butter sold.....	10,814	33.1	12,892,124	Lbs.	3,550,314	0.28
Cheese sold.....	74	0.2	238,319	Lbs.	31,409	0.13
Total receipts from sales, 1909.....					11,501,577	
Total value of milk, cream, and butter fat sold and butter and cheese made, 1909.....					12,128,465	
Specified dairy products, 1899:						
Butter made.....	10,488	58.9	18,834,700	Lbs.		
Cheese made.....	254	0.8	406,659	Lbs.		
Butter sold.....			15,822,671	Lbs.	3,111,783	0.20
Cheese sold.....			374,240	Lbs.	40,077	0.11

The number of farms reporting dairy cows on April 15, 1910, was 27,947, but only 26,636 reported dairy products in 1909. That there should be this small difference is not surprising. Doubtless some farmers who had dairy cows in 1910 had none in 1909, while other farmers neglected to give information for the preceding year, or were unable to do so, perhaps because the farm was then in other hands. Dairy products in general are somewhat less accurately reported than the principal crops. This is particularly the case as regards the quantity of milk produced. The number of farms which made any report of milk produced during 1909 was 25,433 (somewhat less than the total number reporting dairy products), and the number of dairy cows on such farms on April 15, 1910, was 247,000. The amount of milk reported was 114,317,000 gallons; assuming that there were the same number of cows in 1909 as in 1910, this would represent an average of 463 gallons per cow. In considering this average, however, it should be borne in mind that the quantity of milk reported is probably deficient and that the distinction between dairy and other cows is not always strictly observed in the census returns.

By reason of the incompleteness of the returns for milk produced, the Census Bureau has made no attempt to determine the total value of dairy products for 1909. For convenience a partial total has been presented comprising the reported value of milk, cream, and butter fat sold and the reported value of butter and cheese made, whether for home consumption or for sale. The total thus obtained for 1909 is \$12,128,000, which may be defined as the total value of dairy products exclusive of milk and cream used on the farm producing.

Considerably less than one-third of the milk produced in Vermont in 1909 was sold as such. A comparatively large quantity of milk and cream was sold

on a basis of butter fat. The butter made on farms in 1909 was valued at \$4,185,000.

Comparisons are made between 1909 and 1899 for but few of the census items relating to dairy products, for the reason that in 1899 estimates were made for farms with incomplete reports, which was not done at the census of 1910. The figures for milk produced and milk sold are particularly affected, but those for butter and cheese are approximately comparable. The table shows a material decrease between 1899 and 1909 in the amount of butter made, and a still greater relative decrease in the production of cheese.

Wool: 1909 and 1899.—The table below gives statistics as to the production of wool on farms, the figures being partly based on estimates:¹

	Number of farms reporting.	Sheep of shearing age.	WOOL PRODUCED.		
			Fleeces (number).	Weight (pounds).	Value.
Sheep of shearing age on farms, April 15, 1910.....	4,544	84,360			
Wool produced, as reported, 1909.....	4,035		85,070	596,568	\$178,920
On farms reporting sheep, April 15, 1910.....	3,696	74,529	80,144	552,803	160,627
On other farms.....	339		4,926	33,765	9,302
Total production of wool (partly estimated):					
1909.....			90,716	625,722	192,000
1899.....			191,884	1,334,253	208,067
Decrease, 1899 to 1909.....			101,168	708,531	76,065
Per cent of decrease.....			52.7	53.1	28.6

The total number of sheep of shearing age in Vermont on April 15, 1910, was 84,360, representing a decrease of 53.7 per cent as compared with the number on June 1, 1900 (182,167). The approximate production of wool during 1909 was 91,000 fleeces, weighing 626,000 pounds and valued at \$192,000. Of these totals about 5 per cent represents estimates. The number of fleeces produced in 1909 was 52.7 per cent less than in 1899. The average weight per fleece in 1909 was 6.9 pounds, as compared with 7 pounds in 1899, and the average value per pound was 31 cents, as compared with 20 cents in 1899.

Goat hair and mohair: 1909 and 1899.—Although 69 farmers reported 261 goats and kids on their farms April 15, 1910, only 14 reported the production of goat hair or mohair during 1909. These farmers re-

ported 97 fleeces, weighing 471 pounds and valued at \$136. Many farmers who have goats do not produce goat hair or mohair, but it is believed that the report is somewhat short of the actual production.

Poultry products: 1909 and 1899.—The next statement gives the data relative to the production and sale of eggs and poultry:

	Number of farms reporting.	Number of fowls on hand.	PRODUCT.	
			Quantity.	Value.
Fowls on farms, April 15, 1910.....	27,528	938,524		
On farms reporting eggs produced in 1909.....	24,910	870,361		
On other farms.....	2,618	59,163		
Eggs produced, as reported, 1909.....	25,423		Dozens. 6,580,406	\$1,604,000
Total production of eggs (partly estimated):				
1909.....			7,037,082	1,715,221
1899.....			6,271,880	959,965
Increase, 1899 to 1909.....			765,202	755,256
Per cent of increase.....			12.2	78.7
Eggs sold, as reported, 1909.....	21,432		4,451,120	1,092,578
Fowls on farms, April 15, 1910:				
On farms reporting poultry raised in 1909.....	23,321	845,116		
On other farms.....	4,207	93,408		
Poultry raised, as reported, 1909.....	23,050		No. of fowls. 1,154,870	683,786
Total poultry raised (partly estimated):				
1909.....			1,282,524	759,362
1899.....				689,100
Increase, 1899 to 1909.....				70,253
Per cent of increase.....				10.2
Fowls sold, as reported, 1909.....	14,933		570,614	387,410

The total number of fowls on Vermont farms on April 15, 1910, was 939,000. Of the 27,528 farms reporting fowls, 2,618 did not report any eggs produced in 1909, and 4,207 did not report any poultry raised in 1909. The production of eggs actually reported for the year 1909 was 6,580,000 dozens, valued at \$1,604,000. According to the Twelfth Census reports, the production of eggs in 1899 was 6,272,000 dozens, the value being \$960,000. The latter figures, however, are somewhat in excess of the actual returns at that census, because they include estimates made to cover those cases where the schedules reported fowls on hand without reporting the production of eggs. In order to make the returns for 1909 comparable with those published for 1899, similar estimates have been made, the method of estimate and the justification therefor being substantially the same as in the case of wool. The total production of eggs in 1909, including these estimates, was 7,037,000 dozens, valued at \$1,715,000. The total production of poultry in 1909, including estimates made on the same basis as for eggs, was 1,283,000 fowls, valued at \$759,000.

Honey and wax: 1909.—Although, as noted elsewhere, 1,124 farms reported 10,215 colonies of bees on hand April 15, 1910, 377 of these farms, with 1,152 colonies on hand April 15, 1910, made no report of honey or wax produced in 1909. The actual returns show the production of 160,283 pounds of honey, valued at \$25,351, and 2,899 pounds of wax, valued at \$815; the true totals are doubtless somewhat above these figures.

¹ Farmers should be able in general to report the production of wool more accurately than that of dairy products. There were, however, 1,148 farmers who reported the possession of 9,831 sheep of shearing age on April 15, 1910, without reporting any wool produced in 1909. Probably in a large proportion of cases this failure was due to the fact that they did not have these sheep, or did not occupy the same farm, during the preceding year. The returns of farms reporting wool in 1909 but no sheep of shearing age on April 15, 1910, would partially make up this deficiency, but it is believed that in many cases enumerators, having found that a farm had no sheep in 1910, omitted the inquiry as to wool produced in 1909 and thus missed more or less wool actually produced. It is a fairly safe assumption that the entire production of wool in 1909 bore the same relation to the entire number of sheep of shearing age on April 15, 1910, as the production of wool on those farms reporting both production and sheep bore to the number of sheep reported on such farms. Statistics for this group of farms are given in the table, and the total wool product, estimated on the basis of the above assumption, is also given.

Sale or slaughter of domestic animals on farms: 1909 and 1899.—The next statement presents statistics relating to the sale or slaughter of domestic animals by Vermont farmers during the year 1909, with certain items for 1899.

The total value of domestic animals sold during 1909 was \$5,991,000, and that of animals slaughtered on farms \$1,468,000, making an aggregate of \$7,459,000. This total, however, involves considerable duplication, resulting from the resale or slaughter of animals which had been purchased by the farmers during the same year.

The value of the cattle (including calves) sold during 1909 represented about two-thirds of the total value of animals sold.

The census of 1900 called for the receipts from the sale of domestic animals raised on the farms reporting and the total value of those slaughtered during 1899, which amounted, respectively, to \$2,786,000 and \$1,348,000. The item of sales is not closely comparable with that for 1909, when the inquiry covered all sales whether of animals raised on the farms reporting or elsewhere. It is believed, however, that in many cases the returns for 1899 also included receipts from

sales of animals not actually raised on the farms reporting.

	FARMS REPORTING.		Number of animals.	VALUE.	
	Number.	Per cent of all farms.		Total.	Average.
1909—All domestic animals:					
Sold.....				\$5,990,550	
Slaughtered.....				1,468,345	
Calves:					
Sold.....	11,210	34.3	102,781	484,769	\$4.72
Slaughtered.....	5,147	15.7	41,375	58,346	1.41
Other cattle:					
Sold.....	17,490	53.5	145,955	3,570,043	24.53
Slaughtered.....	6,450	19.7	18,832	410,861	21.82
Horses:					
Sold.....	3,220	9.8	7,158	847,230	118.36
Mules:					
Sold.....	35	0.1	55	6,365	115.73
Asses and burros:					
Sold.....	1	(¹)	1	15	15.00
Swine:					
Sold.....	9,781	29.9	93,720	799,207	8.53
Slaughtered.....	10,559	60.6	50,786	907,658	19.05
Sheep:					
Sold.....	2,565	7.8	64,044	272,671	4.20
Slaughtered.....	570	1.8	6,009	31,148	4.71
Goats:					
Sold.....	25	0.1	179	641	3.52
Slaughtered.....	8	(¹)	86	332	3.86
1899—All domestic animals:					
Sold.....				2,786,137	
Slaughtered.....				1,347,754	

¹ Less than one-tenth of 1 per cent.
² Schedules called for receipts from sales of animals raised on the farms reporting.

CROPS.

Summary: 1909 and 1899.—The following table summarizes the census data relative to all of the farm crops of 1909 and 1899. It includes not only general farm crops, but also flowers and plants, nursery products, and forest products of farms. In comparing one year with the other it should be borne in mind that acreage is on the whole a better index of the general

changes or tendencies of agriculture than either the quantity or the value of the crops, since variations in quantity may be due largely to temporarily favorable or unfavorable climatic conditions, and variations in the value of the crops are largely affected by changes in prices. (See also discussion of "Total value of farm products.")

	ACRES.				PER CENT OF IMPROVED LAND OCCUPIED.		VALUE OF PRODUCTS.						
	1909	1899	Increase. ¹		1909	1899	1909	1899	Increase. ¹		Per cent of total.		
			Amount.	Per cent.					Amount.	Per cent.	1909	1899	
All crops.....								\$27,446,836	\$18,170,270	\$9,276,557	51.1	100.0	100.0
Crops with acreage reports.....	1,203,795	1,203,513	282	(²)	73.7	56.0	21,877,448	14,963,548	6,883,900	45.9	79.7	82.5	
Cereals.....	134,611	160,127	-25,516	-15.9	8.2	7.5	2,051,877	2,446,585	205,292	8.4	0.7	13.5	
Other grains and seeds.....	2,519	2,812	-293	-10.4	0.2	0.1	75,003	59,359	15,644	20.4	0.3	0.3	
Hay and forage.....	1,030,618	1,006,375	24,243	2.4	63.1	47.3	10,335,530	10,544,825	5,790,705	54.9	59.5	58.6	
Tobacco.....	103	158	-55	-34.8	(³)	(³)	17,416	43,073	-25,657	-59.6	0.1	0.2	
Sugar crops.....	7		7		(³)	(³)	362		362	(³)	(³)	(³)	
Sundry minor crops.....	(³)	23	-23	(⁴)	(³)	(³)	191	735	-544	-74.0	(³)	(³)	
Potatoes and sweet potatoes and yams.....	23,860	28,357	-4,497	-5.3	1.6	1.3	1,743,116	1,333,900	409,210	30.7	6.4	7.3	
Other vegetables.....	8,548	5,131	3,417	66.6	0.5	0.2	872,183	371,744	500,439	134.6	3.2	2.0	
Flowers and plants and nursery products.....	60	112	-52	-46.4	(³)	(³)	89,740	108,200	-18,460	-17.1	0.3	0.6	
Small fruits.....	469	418	51	12.2	(³)	(³)	62,030	85,121	6,909	8.1	0.3	0.5	
Crops with no acreage reports.....							5,569,388	3,176,731	2,392,657	75.3	20.3	17.5	
Seeds.....							4,208	759	3,449	45.4	(³)	(³)	
Fruits and nuts.....							818,851	450,598	359,343	78.2	3.0	2.5	
Maple sugar and syrup.....							1,050,933	598,953	451,980	81.5	4.0	3.2	
Forest products of farms.....							3,038,537	2,108,518	1,530,610	72.0	13.3	11.6	
Miscellaneous.....							20,859	8,993	11,866	131.9	0.1	(³)	

¹ A minus sign (-) denotes decrease. ² Less than one-tenth of 1 per cent. ³ Less than 1 acre. ⁴ Per cent not calculated when base is less than 100.
⁵ Includes value of raisins and other dried fruits, wine, cider, vinegar, etc.

The total value of crops in 1909 was \$27,447,000. Of this amount, 79.7 per cent was contributed by crops for which the acreage as well as the value was reported, the remainder consisting of the value of by-products

(straw, garden and grass seeds, etc.) derived from the same land as other crops reported, or of orchard fruits, nuts, forest products, and the like. The combined acreage of crops for which acreage was reported was 1,203,795, representing 73.7 per cent of the total improved land in farms (1,633,965 acres). Most of the remaining improved land doubtless consisted of improved pasture, land lying fallow, house and farm yards, and land occupied by orchards and vineyards, the acreage for which was not reported.

The general character of Vermont agriculture is indicated by the fact that only 9.7 per cent of the total value of crops in 1909 was contributed by the cereals, while about three-fifths (59.5 per cent) was contributed by hay and forage, and more than one-eighth (13.3 per cent) by forest products. The remainder, representing in value 17.5 per cent of the total, consisted mostly of potatoes and other vegetables, maple sugar and sirup, and fruits and nuts.

The total value of crops in 1909 was 51.1 per cent greater than that in 1899. There was practically no change in the total acreage of crops for which acreage was reported, there being a decrease in the acreage of the cereals and of potatoes and an increase in that of hay and forage and of vegetables, other than potatoes.

General farm crops, minor grains and seeds, and sundry minor crops: 1879 to 1909.—The following table presents statistics for 1909 regarding cereals, other grains and seeds, hay and forage, potatoes, tobacco, and sundry minor crops.

CROP.	Farms report- ing.	Acres harvested.	QUANTITY.		Value.
			Amount.	Unit.	
Cereals, total.....		134,611	4,351,467	Bu....	\$2,651,877
Corn.....	13,761	42,887	1,715,133	Bu....	1,102,222
Oats.....	12,581	71,510	2,141,357	Bu....	1,169,223
Wheat, total.....	360	678	14,087	Bu....	14,270
Common winter.....	125	283	0,258	Bu....	5,562
Common spring.....	236	394	7,707	Bu....	8,685
Durum or macaroni.....	2	1	32	Bu....	32
Emmer and spelt.....	50	176	4,700	Bu....	3,767
Barley.....	3,599	10,586	285,008	Bu....	225,803
Buckwheat.....	3,573	7,659	174,394	Bu....	122,050
Rye.....	278	1,115	16,680	Bu....	14,533
Other grains and seeds with acreage report, total¹.....		2,519	27,646	Bu....	75,003
Dry edible beans.....	2,762	2,390	26,359	Bu....	72,873
Dry peas.....	121	127	1,262	Bu....	2,092
Seeds with no acreage report, total².....		(³)	(³)	Bu....	4,208
Timothy seed.....	92	(³)	572	Bu....	1,429
Flower and garden seed.....	4	(³)	(³)	Bu....	2,070
Hay and forage, total.....	31,924	1,030,618	1,502,730	Tons.	16,335,530
Timothy alone.....	7,201	162,422	179,847	Tons.	2,557,370
Timothy and clover mixed.....	21,240	567,016	628,098	Tons.	8,916,372
Clover alone.....	680	4,136	6,640	Tons.	89,449
Alfalfa.....	100	252	6,515	Tons.	8,147
Millet or Hungarian grass.....	3,031	0,074	13,607	Tons.	136,039
Other tame or cultivated grasses.....	7,484	197,149	160,014	Tons.	1,967,799
Wild, salt, or prairie grasses.....	1,134	13,951	13,052	Tons.	124,887
Grains cut green.....	7,662	24,177	47,621	Tons.	499,536
Coarse forage.....	11,172	55,865	452,461	Tons.	2,034,634
Root forage.....	178	76	815	Tons.	7,358
Potatoes.....	27,848	26,869	4,145,030	Bu....	1,743,049
Sweet potatoes and yams.....	2	1	132	Bu....	67
Tobacco.....	45	103	164,680	Lbs..	17,416
Sundry minor crops, total.....	5	(⁴)	31	Lbs..	191

¹ Includes small amount of flaxseed.

² Includes small amounts of other varieties of grass seeds.

³ The entire acreage from which these seeds were secured is believed to be included in the acreage given elsewhere for hay and forage crops, flowers and plants, etc.

⁴ Less than 1 acre.

The leading crops covered by the table, in the order of their importance as judged by value, are hay and forage, \$16,336,000; potatoes, \$1,743,000; oats, \$1,169,000; and corn, \$1,102,000. It should be noted, however, that forest products of farms, reported in another table, are more important than corn, oats, or potatoes.

Vermont appears to be declining as a grain-growing state, and about stationary in the production of hay and forage. The total value of hay and forage crops for 1909 is six times that of the cereals, while the value of potatoes, the second crop in importance, is but little more than one-tenth that of the former. There is a considerable list of other grain and seed crops, of which, however, only a few are important in acreage and value. Of these, beans are the most important, yet they are grown by but one farmer in twelve, and by them on an average of less than an acre each. Alfalfa is reported from every county except Orleans; yet for the state as a whole but one farmer in three hundred and twenty-seven raises it. "Timothy and clover mixed" shows by far the greatest acreage of any of the forage crops. "Other tame or cultivated grasses," "timothy alone," "coarse forage," and "grains cut green" follow in the order named. The hay and forage acreage is nearly eight times as great as the cereal acreage, and is generally distributed over the state. Potatoes are raised on a large percentage of the farms, though less than 1 acre per farm is reported.

The fluctuations in the acreages of some of the principal crops during the past 30 years are shown in the following table:

CROP YEAR.	ACRES HARVESTED.					
	Corn.	Oats.	Wheat.	Barley.	Buck- wheat.	Hay and forage.
1909.....	42,887	71,510	678	10,586	7,659	1,030,618
1899.....	60,033	73,372	1,796	12,152	9,910	1,006,375
1889.....	41,790	101,582	8,397	16,427	13,429	994,107
1879.....	55,249	99,548	20,748	10,552	17,649	1,015,620

A decrease in corn acreage is shown in 1909 as compared with 1879, although in 1899 the acreage was larger than that reported at any other census. While every county reports a decrease during the past decade, the decline is heaviest in the northern part of the state. Half of the corn acreage in the state is in Windsor, Rutland, Addison, and Chittenden Counties. The acreage of oats exceeds that of corn, but it too shows a decrease since 1879. The maximum production of oats was reached in 1889. Half of the oat crop is reported from Addison, Franklin, Chittenden, and Rutland Counties. Barley reached about the same figure in 1909 as 30 years before, having been well above that point at the two intervening censuses. Wheat shows a continuous and marked decline during the entire period, and in 1909 had slightly less than one-thirtieth of the acreage occupied in 1879. Buckwheat also shows a constant decrease during the whole period, and had in 1909 an acreage less than half that of 30 years before.

The following table shows for 1909 and 1899 the percentage which the farms reporting specified crops represented of all farms, the percentage of improved land devoted to these crops, and the percentage of increase or decrease in the acreage of each crop during the decade, together with the average yields and average values per acre for 1909:

CROP.	PER CENT OF FARMS REPORTING.		PER CENT OF IMPROVED LAND.		Per cent of increase in acres, 1899 to 1909. ¹	AVERAGE YIELD PER ACRE.	AVERAGE VALUE PER ACRE.
	1909	1899	1909	1899		1909	1909
Corn.....	42.1	62.2	2.6	2.9	-20.3	40.0 Bu.	\$25.70
Oats.....	38.5	46.3	4.4	3.5	-2.5	20.9 Bu.	10.35
Barley.....	10.0	13.7	0.6	0.6	-12.9	20.9 Bu.	21.33
Buckwheat.....	10.0	14.5	0.5	0.5	-22.7	22.8 Bu.	15.04
Hay and forage.....	97.6	98.3	63.1	47.3	2.4	1.46 Tons.	15.85
Dry edible beans.....	8.4	9.5	0.1	0.1	-0.6	11.9 Bu.	30.49
Potatoes.....	85.1	88.1	1.0	1.3	-5.3	154.3 Bu.	64.00

¹ A minus sign (-) denotes decrease.

A marked decrease is noted in the percentage of farms reporting cereals. Slightly more than two out of five farms report corn, and a little under that proportion report oats. Barley and buckwheat are reported with equal frequency, but each by less than 11 per cent of all farms. In contrast to the small percentage of farms reporting cereals is the high percentage reporting hay and forage, namely, nearly 98 per cent. About one-twelfth of all improved land is in cereals and nearly two-thirds in hay and forage.

Of the cereals, all show a falling off in acreage between 1899 and 1909, the greatest being in that of corn and the smallest in that of oats. Of all the crops listed in the table, hay and forage alone shows an increase in acreage, which, however, is inconsiderable. Potatoes and beans decreased slightly in acreage.

The average values per acre of corn and barley are above the average for all cereals combined (\$19.70), while those of oats and buckwheat are below it. The average value per acre of hay and forage is about \$4 below that of all cereals combined. The average value of beans per acre is over one and one-half times as great as that of the combined cereals, and that of potatoes more than three times as great as that of the cereals and four times as great as that of hay and forage. The reported production of corn is exaggerated to a slight extent, because some enumerators report baskets of ear corn as bushels of corn. On this account the figures here given may be revised in later census reports.

Vegetables, flowers and plants, and nursery products: 1909 and 1899.—The next table shows details with regard to vegetables (not including potatoes and sweet potatoes and yams, which appear elsewhere), and also with regard to flowers and plants and nursery products.

In 1909 the total acreage of potatoes and other vegetables was 35,408 and their value \$2,615,000. Excluding (so far as reported separately¹) potatoes

¹ It is probable that some of the potatoes and sweet potatoes and yams raised in farm gardens were not reported separately by farmers, but were included in their returns for vegetables.

and sweet potatoes and yams, the acreage of vegetables was 8,548 and their value \$872,000, both acreage and value being decidedly greater than in 1899. The table distinguishes between farms which make the raising of vegetables a business of some importance (having produced vegetables valued at \$500 or more in 1909) and other farms, on most of which vegetables are raised mainly for home consumption. While there were in 1909 only 122 farms in the first class, they reported nearly one-tenth of the total acreage of vegetables and about one-eighth of the total value, the average acreage of vegetables per farm for these farms being 6.8 and the average value per acre \$134.

The raising of flowers and plants and of nursery products is relatively unimportant in Vermont, only 60 acres being devoted to them in 1909, and the total output being valued at \$89,740. Most of the product was raised on a few farms where these branches of agriculture were carried on as an important business.

CROP.	FARMS REPORTING, 1909		ACRES.		VALUE OF PRODUCTS.	
	Number.	Per cent of all farms.	1909	1899	1909	1899
Vegetables, other than potatoes and sweet potatoes and yams, total.....	120,048	82.4	8,548	5,131	\$872,183	\$371,744
Farms reporting a product of \$500 or over.....	122	0.4	832	.....	111,630	.....
All other farms.....	20,826	82.0	7,716	.....	760,653	.....
Flowers and plants, total.....	45	0.1	23	38	78,720	58,575
Farms reporting a product of \$250 or over.....	28	0.1	.....	.....	76,140	.....
All other farms.....	17	0.1	.....	.....	2,577	.....
Nursery products, total.....	9	(²)	37	74	11,014	49,625
Farms reporting a product of \$250 or over.....	3	(²)	.....	.....	10,643	.....
All other farms.....	6	(²)	.....	.....	371	.....

¹ Does not include 904 farms which reported that they had vegetable gardens, but gave no information as to their products.
² Less than one-tenth of 1 per cent.

Small fruits: 1909 and 1899.—The following table shows data with regard to small fruits on farms:

CROP.	Number of farms reporting, 1909	ACRES.		Quantity (quarts), 1909	Value, 1909
		1909	1899		
Small fruits, total.....	.....	469	418	826,122	\$92,030
Strawberries.....	1,240	270	232	615,820	68,000
Blackberries and dewberries.....	433	47	48	56,252	6,032
Raspberries and loganberries.....	691	30	92	85,065	10,596
Currents.....	992	58	30	58,533	5,084
Gooseberries.....	244	6	3	7,424	728
Cranberries.....	29	1	.....	1,120	110
Other berries.....	3	1	13	1,908	190

Strawberries are by far the most important of the small fruits grown in Vermont, with raspberries and loganberries ranking next. The total acreage of small fruits in 1909 was 469, and in 1899, 418, an increase of 12.2 per cent. The production in 1909 was 826,000 quarts, as compared with 930,000 quarts in 1899, and the value \$92,030, as compared with \$85,121.

Orchard fruits, grapes, and nuts: 1909 and 1899.—The next table presents data with regard to orchard

fruits, grapes, and nuts. The acreage devoted to these products was not ascertained. In comparing one year with the other the number of trees or vines of bearing age is on the whole a better index of the general changes or tendencies than the quantity of product, but the data for the censuses of 1910 and 1900 are not closely comparable and the product is therefore compared, although variations may be due largely to temporarily favorable or unfavorable climatic conditions.

CROP.	TREES OR VINES OF BEARING AGE, 1910		TREES OR VINES NOT OF BEARING AGE, 1910		PRODUCT.		
	Farms re- port- ing.	Num- ber.	Farms re- port- ing.	Num- ber.	1909		1899
					Quan- tity. ¹	Value.	Quan- tity. ¹
Orchard fruits, total		1,266,700		252,401	1,492,499	\$801,366	1,191,429
Apples.....	23,044	1,183,520	7,205	210,833	1,450,039	752,337	1,176,822
Peaches and necta- rines.....	188	5,492	137	2,187	2,221	4,309	907
Pears.....	6,222	26,315	2,014	7,726	20,763	23,788	10,230
Plums and prunes.....	4,640	32,020	2,225	15,818	7,205	12,927	1,520
Cherries.....	2,080	18,006	1,154	6,659	2,506	7,051	1,000
Apricots.....		47		21		13	
Quinces.....	90	380	47	134	99	235	(²)
Mulberries.....	1	6			3	6	(²)
Unclassified.....							803
Grapes	2,209	9,318	491	1,845	203,011	6,328	240,100
Nuts, total		424,534		42,734	489,182	411,158	103,850
Black walnuts.....	110	1,704	7	253	32,910	725	(²)
Butternuts.....	1,335	20,080	94	2,354	845,899	9,872	(²)
Hickory nuts.....	145	2,441	3	26	9,516	410	(²)
Chestnuts.....	23	250	4	92	3,350	149	(²)
Unclassified.....							103,850

¹ Expressed in bushels for orchard fruits and pounds for grapes and nuts.
² Included with "unclassified."
³ Consists of products not separately named by the enumerator, but grouped under the designation "all other."
⁴ Includes almonds, pecans, beechnuts, hazelnuts, and other nuts.

The total quantity of orchard fruits produced in 1909 was 1,492,000 bushels, valued at \$801,000. Apples contributed nearly all of this quantity, and pears most of the remainder. The production of grapes and nuts was comparatively unimportant. The nuts consisted chiefly of butternuts.

The production of all orchard fruits increased 25.3 per cent in quantity between 1899 and 1909, while the production of grapes decreased 15.4 per cent. The value of orchard fruits increased from \$450,000 in 1899 to \$801,000 in 1909, while that of grapes decreased from \$7,035 in 1899 to \$6,328 in 1909. It should be noted in this connection that the values for 1899 include the value of more advanced products derived from orchard fruits or grapes, such as cider, vinegar, dried fruits, and the like, and may therefore involve some duplication, while the values shown for 1909 relate only to the products in their original condition.

The next table shows the quantities of the more advanced products manufactured by farmers from orchard fruits and grapes. Values were not called for on the schedule.

PRODUCT.	FARMS REPORTING, 1909		QUANTITY PRODUCED.		
	Num- ber.	Percent of all farms.	Unit.	1909	1899
Cider.....	6,564	20.1	Gals....	651,159	314,937
Vinegar.....	2,434	7.4	Gals....	96,520	59,251
Wine and grape juice.....	93	0.3	Gals....	1,199	160
Dried fruits.....	215	0.7	Lbs....	5,828	12,420

Sugar crops: 1909 and 1899.—The table below shows data with regard to maple trees and their products, and also for sugar beets and sorghum cane, which in this state are unimportant. The total value of maple sugar and sirup produced in 1909 was \$1,087,000, as compared with \$599,000 in 1899.

PRODUCT.	FARMS REPORTING.		Acres.	PRODUCT.		
	Num- ber.	Per cent of all farms.		Amount.	Unit.	Value.
Maple sugar and sirup:						
Total, 1909.....	10,000	30.8	15,085,632			\$1,086,933
Sugar made.....	7,636	23.3		7,726,817	Lbs....	720,927
Sirup made.....	5,262	16.1		400,053	Gals....	366,006
Total, 1899.....	9,811	30.0				598,083
Sugar made.....				4,779,870	Lbs....	464,132
Sirup made.....				160,918	Gals....	134,821
Sugar beets, 1909 ²	11	(³)	5	46	Tons...	322
Sorghum cane, 1909 ⁴	1	(³)	2	4	Tons...	40

¹ Number of trees.
² Used as root forage.
³ Less than one-tenth of 1 per cent.
⁴ Used as coarse forage.

Forest products: 1909 and 1899.—The census schedules for 1910 called for the "value of all firewood, fencing material, logs, railroad ties, telegraph and telephone poles, materials for barrels, bark, naval stores, or other forest products cut or produced in 1909, whether used on farm, sold, or on hand April 15, 1910;" and also, in a separate item, for the "amount received from sale of standing timber in 1909." There were 22,114 farms in Vermont (67.6 per cent of all farms in the state) which reported forest products in 1909, the total value of such products being \$3,638,537, as compared with \$2,108,518 in 1899, an increase of 72.6 per cent. Of the value in 1909, \$1,573,534 was reported as that of products used or to be used on the farms themselves, \$1,762,537 as that of products sold or for sale, and \$302,466 as the amount received for standing timber. It should be noted that forest products not produced on farms are not included in this report.

Miscellaneous crops: 1909.—Straw and cornstalks derived as by-products from the production of grain and corn have a considerable value for feed and other purposes. They are, however, mainly consumed on the farms producing them. The Census Bureau made no attempt to ascertain the total quantity or value of these products, but the schedules called for the

quantity and value of those sold during the year 1909. The returns show that 476 farmers in Vermont sold, during 1909, 2,008 tons of straw, for which they

received \$16,342, and that 153 farmers sold 887 tons of cornstalks and leaves, for which they received \$4,517.

SELECTED FARM EXPENSES AND RECEIPTS.

Farm expenses: 1909 and 1899.—The following table shows the number of farms reporting expenditures for labor, feed, and fertilizer at the census of 1910, as well as the sums expended in 1909 and 1899:

EXPENSE.	1909			1899	INCREASE.	
	Farms reporting.		Amount.	Amount.	Amount.	Per cent.
	Number.	Percent of all farms.				
Labor.....	21,810	66.7	\$4,748,003	\$3,133,140	\$1,614,863	51.5
Feed.....	26,332	80.5	4,758,703	(1)	.....	.....
Fertilizer.....	19,033	58.2	570,752	447,065	123,687	27.7

¹ Not reported at the census of 1900.

Approximately 25 per cent of the amount expended for labor is in the form of rent and board. During the decade the total expenditure for labor increased 51.5 per cent. Slightly more than two-thirds of the farmers hire labor, and the average amount expended by the farmers hiring is about \$218. At prior censuses no tabulation was made of the farmers reporting expenditures for labor.

Four farmers out of every five report some expenditure for feed, and three out of five expenditure

for fertilizer. The total amount reported as paid for fertilizer shows an increase of about \$124,000, or 27.7 per cent, since 1899; and the average amount now spent per farm reporting is \$30.

Receipts from sale of feedable crops: 1909.—An effort was made at the census of 1910 to secure as complete a statement as possible of the sales, as well as the production, of the more important feedable crops (that is, crops ordinarily fed to live stock). The following table summarizes the data reported:

CROP.	FARMS REPORTING.		QUANTITY SOLD.		Amount received.
	Number.	Percent of all farms.	Amount.	Unit.	
Total.....	.....	.....	.....	.....	\$966,276
Corn.....	225	0.7	18,427	Bu.....	11,809
Oats.....	555	1.7	52,074	Bu.....	30,193
Barley.....	193	0.6	6,944	Bu.....	5,036
Hay and coarse forage.....	5,089	15.0	60,934	Tons...	918,248

Whereas more than 26,000 farmers purchased feed during the year 1909, less than 6,000 sold any kind of feed. The total amount expended for feed by those who reported purchases was nearly five times as great as the receipts from sales by those reporting sales.

COUNTY TABLES.

Tables 1 to 6, which follow, present by counties the more important agricultural data collected at the Thirteenth Census, 1910.

Table 1 shows the population, number of farms, land and farm area, value of farm property, and number and value of domestic animals and of poultry and bees, as of April 15, 1910. Comparative data for June 1, 1900, are given in italics for certain items.

Table 2 gives the number of farms, the farm acreage, and the value of farm property operated by owners, tenants, and managers, collected as of April 15, 1910. Statistics of farm mortgages are included in this table. (See explanation in text.) Comparative data for June 1, 1900, are given in italics for certain items.

Table 3 gives statistics pertaining to the products

of live stock on farms (dairy products, poultry and eggs, honey and wax, and wool and mohair); also the number and value of domestic animals sold or slaughtered on farms for the year 1909.

Table 4 shows the total value of farm crops and the principal classes thereof, together with the acreage (or trees of bearing age) and production of the principal crops for the year 1909.

Table 5 gives statistics relating to selected farm expenses for 1909 and also shows the receipts from the sale of feedable crops.

Table 6 shows the number and value of domestic animals in barns and inclosures not on farms by classes, together with the number of dairy cows and mature horses and mules, on April 15, 1910.

TABLE 1.—FARMS AND FARM PROPERTY,

[Comparative data for June 1, 1900, in italics.]

	THE STATE.	Addison.	Bennington.	Caledonia.	Chittenden.
1 Population.....	355,060	20,010	21,378	26,031	42,447
2 <i>Population in 1900.....</i>	<i>343,041</i>	<i>21,912</i>	<i>21,705</i>	<i>24,331</i>	<i>39,000</i>
3 Number of all farms.....	32,709	2,690	1,088	2,633	2,206
4 <i>Number of all farms in 1900.....</i>	<i>33,104</i>	<i>2,714</i>	<i>1,060</i>	<i>2,579</i>	<i>2,101</i>
5 Color and nativity of farmers:					
6 Native white.....	28,068	2,482	1,535	2,282	1,919
7 Foreign-born white.....	3,721	205	152	351	282
8 Negro and other nonwhite.....	20	3	1		5
9 Number of farms, classified by size:					
10 Under 3 acres.....	60	1	13		3
11 3 to 9 acres.....	2,581	200	157	107	253
12 10 to 19 acres.....	1,937	141	116	161	162
13 20 to 49 acres.....	3,481	301	210	313	243
14 50 to 99 acres.....	5,910	450	311	431	380
15 100 to 174 acres.....	9,492	725	372	530	520
16 175 to 259 acres.....	5,194	406	248	421	347
17 260 to 499 acres.....	3,322	340	180	231	256
18 500 to 999 acres.....	607	59	67	30	37
19 1,000 acres and over.....	125	7	18	10	5
LAND AND FARM AREA					
20 Approximate land area..... acres.....	5,839,360	483,840	423,040	395,520	347,520
21 Land in farms..... acres.....	4,693,577	440,621	260,820	373,946	297,576
22 <i>Land in farms in 1900.....</i>	<i>4,784,440</i>	<i>403,587</i>	<i>270,000</i>	<i>348,641</i>	<i>290,737</i>
23 Improved land in farms..... acres.....	1,633,065	228,105	91,648	132,708	128,740
24 <i>Improved land in farms in 1900.....</i>	<i>1,786,624</i>	<i>243,532</i>	<i>112,673</i>	<i>167,169</i>	<i>169,808</i>
25 Woodland in farms..... acres.....	1,566,698	137,316	107,659	125,458	73,062
26 Other unimproved land in farms..... acres.....	1,462,914	75,200	61,513	115,780	94,865
27 Per cent of land area in farms.....	79.9	91.1	61.7	94.5	85.6
28 Per cent of farm land improved.....	35.0	51.8	35.1	35.6	43.3
29 Average acres per farm.....	142.6	103.8	154.5	142.0	134.9
30 Average improved acres per farm.....	50.0	84.8	54.3	50.4	58.4
VALUE OF FARM PROPERTY					
31 All farm property..... dollars.....	145,399,728	16,154,980	8,117,299	10,862,810	13,554,440
32 <i>All farm property in 1900.....</i>	<i>103,451,427</i>	<i>11,665,056</i>	<i>5,785,974</i>	<i>7,551,824</i>	<i>10,522,920</i>
33 Per cent increase 1900-1910.....	34.1	30.7	40.3	43.3	28.9
34 Land..... dollars.....	58,385,327	7,360,789	3,273,877	4,329,034	5,504,582
35 <i>Land in 1900.....</i>	<i>45,813,905</i>	<i>6,339,000</i>	<i>2,604,820</i>	<i>2,857,950</i>	<i>4,406,550</i>
36 Buildings..... dollars.....	54,202,048	5,634,017	3,384,205	3,857,990	3,901,770
37 <i>Buildings in 1900.....</i>	<i>37,267,715</i>	<i>3,832,510</i>	<i>2,103,870</i>	<i>2,009,750</i>	<i>3,645,190</i>
38 Implements and machinery..... dollars.....	10,168,687	925,019	442,133	850,386	784,590
39 <i>Implements, etc., in 1900.....</i>	<i>7,538,490</i>	<i>606,790</i>	<i>301,580</i>	<i>694,090</i>	<i>617,190</i>
40 Domestic animals, poultry, and bees..... dollars.....	22,642,760	2,235,155	1,017,084	1,824,800	1,823,408
41 <i>Domestic animals, etc., in 1900.....</i>	<i>17,841,317</i>	<i>1,730,295</i>	<i>779,144</i>	<i>1,480,004</i>	<i>1,454,020</i>
42 Per cent of value of all property in--					
43 Land.....	40.2	45.6	40.3	39.0	41.0
44 Buildings.....	37.3	34.9	41.7	35.5	30.8
45 Implements and machinery.....	7.0	5.7	5.4	7.8	5.8
46 Domestic animals, poultry, and bees.....	15.6	13.8	12.5	16.8	13.4
47 Average values:					
48 All property per farm..... dollars.....	4,445	6,000	4,809	4,120	6,149
49 Land and buildings per farm..... dollars.....	3,442	4,831	3,944	3,110	4,067
50 Land per acre..... dollars.....	12.52	16.71	12.55	11.58	13.70
51 <i>Land per acre in 1900.....</i>	<i>9.70</i>	<i>13.23</i>	<i>9.62</i>	<i>8.20</i>	<i>16.53</i>
DOMESTIC ANIMALS (farms and ranges)					
52 Farms reporting domestic animals.....	30,375	2,535	1,516	2,480	2,093
53 Value of domestic animals..... dollars.....	21,980,680	2,171,411	973,066	1,772,512	1,779,711
54 Cattle:					
55 Total number.....	430,314	41,586	16,307	32,251	40,321
56 Dairy cows.....	265,483	24,263	9,778	20,733	26,296
57 Other cows.....	27,612	2,346	1,367	2,070	1,793
58 Yearling heifers.....	45,021	4,666	1,940	3,871	3,853
59 Calves.....	67,573	7,734	2,372	3,756	6,070
60 Yearling steers and bulls.....	10,501	1,416	447	829	662
61 Other steers and bulls.....	13,224	1,161	403	992	747
62 Value..... dollars.....	11,828,892	1,071,028	470,183	918,728	1,054,418
63 Horses:					
64 Total number.....	80,781	8,539	3,095	6,796	6,166
65 Mature horses.....	77,043	8,011	3,544	6,467	5,912
66 Yearling colts.....	3,513	495	139	307	241
67 Spring colts.....	225	33	12	32	13
68 Value..... dollars.....	8,591,357	898,440	424,644	732,000	621,788
69 Mules:					
70 Total number.....	429	51	10	30	38
71 Mature mules.....	405	47	10	30	38
72 Yearling colts.....	23	4			
73 Spring colts.....	1				
74 Value..... dollars.....	53,540	6,070	850	3,470	4,800
75 Asses and burros:					
76 Number.....	22	9		1	2
77 Value..... dollars.....	2,038	685		25	185
78 Swine:					
79 Total number.....	94,821	8,741	3,464	8,094	9,416
80 Mature hogs.....	54,537	5,195	1,725	4,911	5,142
81 Spring pigs.....	40,284	3,546	1,739	3,183	4,274
82 Value..... dollars.....	974,779	78,816	30,995	92,528	83,095
83 Sheep:					
84 Total number.....	118,551	23,031	11,966	5,322	3,213
85 Rams, ewes, and wethers.....	84,360	16,099	8,768	3,850	2,222
86 Spring lambs.....	34,191	6,932	3,198	1,472	991
87 Value..... dollars.....	538,991	116,319	46,667	25,568	15,347
88 Goats:					
89 Number.....	261	16	59	27	15
90 Value..... dollars.....	1,033	53	267	103	78
POULTRY AND BEES					
91 Number of poultry of all kinds.....	638,524	74,013	61,584	79,212	62,875
92 Value..... dollars.....	607,787	49,873	40,761	51,238	40,643
93 Number of colonies of bees.....	10,215	3,303	730	189	785
94 Value..... dollars.....	44,349	13,866	2,717	1,059	3,144

AGRICULTURE—VERMONT.

765

BY COUNTIES: APRIL 15, 1910.

[Comparative data for June 1, 1900, in italics.]

	Essex.	Franklin.	Grand Iso.	Lamolle.	Orango.	Orleans.	Rutland.	Washington.	Windham.	Windsor.
1	7,384	29,860	3,761	12,585	18,703	23,337	48,139	41,702	26,932	33,681
2	<i>8,056</i>	<i>30,198</i>	<i>4,462</i>	<i>12,239</i>	<i>19,313</i>	<i>22,024</i>	<i>44,209</i>	<i>36,007</i>	<i>26,660</i>	<i>32,226</i>
3	808	2,098	544	1,620	3,016	2,806	2,863	2,830	2,553	3,745
4	<i>878</i>	<i>2,581</i>	<i>494</i>	<i>1,620</i>	<i>3,100</i>	<i>2,920</i>	<i>2,930</i>	<i>3,010</i>	<i>2,765</i>	<i>3,700</i>
5	507	2,253	470	1,406	2,831	2,227	2,426	2,523	2,407	3,520
6	211	445	74	133	184	378	434	307	142	223
7					1	1	3		4	2
8		9	8		2	3	8	2	6	5
9	32	315	40	90	200	182	200	220	104	250
10	37	106	50	82	149	159	179	186	120	103
11	65	241	85	185	200	277	304	332	263	372
12	151	393	142	306	565	525	445	585	460	697
13	236	729	128	539	1,027	898	602	880	730	1,186
14	149	458	50	232	433	460	405	308	472	606
15	107	323	10	109	281	200	410	205	247	339
16	24	31	1	20	45	26	89	42	60	71
17	7	3		6	5	7	11	10	16	20
18	408,320	417,280	53,120	279,040	432,640	440,320	583,040	460,160	508,800	606,720
19	<i>143,791</i>	<i>361,777</i>	<i>213,218</i>	<i>213,218</i>	<i>405,134</i>	<i>377,300</i>	<i>442,540</i>	<i>369,640</i>	<i>389,400</i>	<i>538,012</i>
20	<i>168,070</i>	<i>360,892</i>	<i>47,096</i>	<i>219,754</i>	<i>425,691</i>	<i>385,001</i>	<i>458,222</i>	<i>378,407</i>	<i>428,506</i>	<i>547,817</i>
21	<i>39,642</i>	<i>148,225</i>	<i>36,298</i>	<i>74,379</i>	<i>111,983</i>	<i>130,774</i>	<i>153,738</i>	<i>112,427</i>	<i>93,282</i>	<i>152,007</i>
22	<i>58,319</i>	<i>160,500</i>	<i>35,065</i>	<i>78,487</i>	<i>181,908</i>	<i>204,401</i>	<i>205,003</i>	<i>145,591</i>	<i>141,681</i>	<i>222,509</i>
23	<i>66,042</i>	<i>70,263</i>	<i>8,611</i>	<i>90,958</i>	<i>127,340</i>	<i>124,931</i>	<i>130,748</i>	<i>139,054</i>	<i>151,115</i>	<i>104,341</i>
24	<i>38,107</i>	<i>137,280</i>	<i>4,860</i>	<i>41,881</i>	<i>105,811</i>	<i>121,004</i>	<i>152,063</i>	<i>117,250</i>	<i>145,012</i>	<i>101,604</i>
25	35.2	86.7	93.7	76.4	93.6	85.7	75.9	80.3	70.5	88.7
26	27.6	41.0	72.9	34.9	27.0	34.7	34.7	30.4	24.0	28.3
27	178.0	134.1	91.5	130.9	134.3	134.5	154.0	130.6	152.5	143.7
28	49.1	54.9	66.7	45.7	37.1	46.6	53.7	39.7	30.5	40.6
29	2,837,608	14,059,058	3,357,541	5,901,723	9,615,087	11,819,118	13,580,060	11,140,583	9,218,714	14,104,478
30	<i>2,329,923</i>	<i>11,081,831</i>	<i>2,294,494</i>	<i>4,084,668</i>	<i>7,405,108</i>	<i>8,497,620</i>	<i>11,633,728</i>	<i>8,227,292</i>	<i>7,672,642</i>	<i>9,799,620</i>
31	21.8	35.0	46.3	47.8	28.3	30.1	17.8	35.0	20.2	44.8
32	1,065,320	6,477,747	1,606,739	2,235,036	3,454,044	4,607,310	5,224,801	4,310,843	3,851,625	5,121,781
33	<i>899,780</i>	<i>5,227,860</i>	<i>1,174,900</i>	<i>1,565,610</i>	<i>2,708,060</i>	<i>3,428,410</i>	<i>4,080,023</i>	<i>3,436,890</i>	<i>3,059,030</i>	<i>3,570,060</i>
34	<i>989,085</i>	<i>5,374,390</i>	<i>1,294,920</i>	<i>2,173,195</i>	<i>3,606,351</i>	<i>4,142,475</i>	<i>5,255,025</i>	<i>4,170,852</i>	<i>3,218,745</i>	<i>3,730,022</i>
35	<i>780,070</i>	<i>5,468,980</i>	<i>786,780</i>	<i>1,377,410</i>	<i>2,070,250</i>	<i>2,694,200</i>	<i>4,104,085</i>	<i>2,721,080</i>	<i>2,711,870</i>	<i>3,721,460</i>
36	<i>227,121</i>	<i>905,064</i>	<i>152,043</i>	<i>541,138</i>	<i>816,088</i>	<i>1,051,132</i>	<i>845,730</i>	<i>821,077</i>	<i>680,943</i>	<i>1,117,523</i>
37	<i>174,780</i>	<i>622,150</i>	<i>102,850</i>	<i>369,880</i>	<i>655,640</i>	<i>789,070</i>	<i>612,650</i>	<i>621,510</i>	<i>597,643</i>	<i>744,100</i>
38	<i>550,082</i>	<i>2,201,257</i>	<i>303,833</i>	<i>1,011,755</i>	<i>1,738,004</i>	<i>2,118,201</i>	<i>2,261,124</i>	<i>1,846,811</i>	<i>1,429,301</i>	<i>2,215,252</i>
39	<i>475,353</i>	<i>1,722,241</i>	<i>249,964</i>	<i>730,793</i>	<i>1,401,109</i>	<i>1,592,750</i>	<i>1,787,088</i>	<i>1,478,722</i>	<i>1,309,842</i>	<i>1,702,060</i>
40	37.5	43.3	47.9	37.5	35.0	38.1	38.5	38.7	41.8	36.1
41	34.9	35.0	—36.8	36.5	37.5	35.0	38.7	37.4	35.2	40.4
42	8.0	6.1	4.5	9.1	8.5	8.9	6.2	7.4	7.5	7.9
43	19.0	14.7	10.8	17.0	18.1	17.9	16.6	16.6	15.5	15.6
44	3,512	5,544	6,172	3,600	3,188	4,212	4,740	3,940	3,611	3,760
45	2,543	4,393	2,700	5,224	2,341	3,083	3,000	2,997	2,781	2,900
46	7.41	17.01	32.28	10.49	8.53	11.95	11.81	11.60	9.89	9.52
47	<i>5.66</i>	<i>14.49</i>	<i>24.95</i>	<i>7.12</i>	<i>6.50</i>	<i>8.89</i>	<i>11.08</i>	<i>9.08</i>	<i>7.13</i>	<i>6.62</i>
48	762	2,508	515	1,544	2,745	2,633	2,674	2,005	2,350	3,436
49	<i>544,560</i>	<i>2,155,446</i>	<i>348,015</i>	<i>989,071</i>	<i>1,676,916</i>	<i>2,077,498</i>	<i>2,203,626</i>	<i>1,792,341</i>	<i>1,378,660</i>	<i>2,127,307</i>
50	9,152	50,489	6,050	21,411	31,480	42,150	43,280	34,419	24,406	36,016
51	5,390	33,693	3,679	13,001	19,081	26,788	26,170	22,106	12,738	21,758
52	744	1,966	258	698	3,065	1,024	3,448	1,595	3,216	3,322
53	917	3,452	726	2,180	3,744	3,544	4,836	3,837	3,452	4,903
54	1,406	9,706	1,101	4,333	3,881	3,501	6,730	4,751	2,543	4,139
55	229	692	204	621	644	830	1,220	701	973	943
56	406	800	82	578	1,565	869	1,339	1,339	1,474	1,851
57	<i>246,824</i>	<i>1,318,386</i>	<i>153,320</i>	<i>531,620</i>	<i>879,895</i>	<i>1,141,025</i>	<i>1,274,320</i>	<i>949,542</i>	<i>738,746</i>	<i>1,070,948</i>
58	2,177	7,080	1,736	3,721	6,551	7,143	7,410	6,400	5,123	8,235
59	2,098	6,682	1,597	3,546	6,202	6,828	7,033	6,200	4,958	7,915
60	76	306	132	160	273	300	353	202	157	303
61	3	32	7	6	10	15	24	7	8	17
62	272,140	715,108	160,315	390,847	605,089	708,215	799,214	701,523	541,075	869,319
63	2	23	9	51	31	31	84	28	19	25
64	2	22	7	50	31	27	74	28	15	24
65		1	2			4	10		1	1
66										
67	400	3,125	950	7,150	5,375	4,465	7,215	3,970	2,450	3,250
68				1		1	1	2		5
69				209		500	25	26		302
70	1,469	10,812	1,609	4,587	7,432	8,413	7,186	10,431	4,620	8,538
71	967	5,920	837	2,813	4,285	4,084	3,796	5,021	2,987	6,045
72	502	4,883	772	1,774	3,147	3,420	3,300	4,610	1,642	3,493
73	16,188	102,907	15,429	43,941	84,424	94,077	69,073	117,793	50,038	94,575
74	1,809	2,929	2,651	3,327	11,471	8,297	12,813	3,828	10,615	17,160
75	1,401	2,092	2,038	2,292	8,754	5,810	9,285	2,096	7,148	11,905
76	408	837	613	1,035	2,717	2,487	3,528	1,132	3,467	5,284
77	9,001	15,812	12,001	15,207	42,034	42,323	53,762	19,466	45,688	70,746
78	2	16		26	34	10	5	8	22	21
79	7	108		46	149	43	18	21	63	77
80	16,730	67,559	21,315	37,867	91,028	68,991	84,548	80,769	70,121	120,982
81	<i>10,129</i>	<i>43,115</i>	<i>14,720</i>	<i>22,263</i>	<i>58,864</i>	<i>40,005</i>	<i>51,227</i>	<i>52,468</i>	<i>48,045</i>	<i>83,831</i>
82	<i>355</i>	<i>602</i>	<i>207</i>	<i>94</i>	<i>628</i>	<i>139</i>	<i>1,367</i>	<i>414</i>	<i>486</i>	<i>866</i>
83	1,393	2,696	1,098	421	2,824	748	9,271	2,002	1,066	4,114

TABLE 2.—NUMBER, ACREAGE, AND VALUE OF FARMS CLASSIFIED BY TENURE, COLOR

[Comparative data for June 1, 1900, in italics.]

	THE STATE.	Addison.	Bennington.	Caledonia.	Chittenden.	
FARMS OPERATED BY OWNERS						
1	Number of farms.....	28,065	2,119	1,406	2,438	1,734
2	Number of farms in 1900.....	<i>27,069</i>	<i>2,187</i>	<i>1,865</i>	<i>2,349</i>	<i>1,605</i>
3	Per cent of all farms.....	85.8	78.8	83.3	92.0	78.0
4	Per cent of all farms in 1900.....	<i>83.6</i>	<i>80.6</i>	<i>85.4</i>	<i>91.1</i>	<i>76.4</i>
5	Land in farms.....acres.....	3,816,408	301,354	210,885	330,840	208,808
6	Improved land in farms.....acres.....	1,321,497	165,012	73,610	121,715	89,839
7	Value of land and buildings.....dollars.....	88,566,017	8,883,284	5,118,320	7,248,574	6,981,167
Degree of ownership:						
8	Farms consisting of owned land only.....	26,793	1,853	1,334	2,382	1,612
9	Farms consisting of owned and hired land.....	1,272	266	72	56	122
Color and nativity of owners:						
10	Native white.....	24,789	1,947	1,270	2,106	1,436
11	Foreign-born white.....	<i>3,259</i>	<i>170</i>	<i>127</i>	<i>332</i>	<i>244</i>
12	Negro and other nonwhite.....	17	2	1	1	4
FARMS OPERATED BY TENANTS						
13	Number of farms.....	4,008	525	229	158	416
14	Number of farms in 1900.....	<i>4,820</i>	<i>496</i>	<i>243</i>	<i>186</i>	<i>400</i>
15	Per cent of all farms.....	12.3	19.5	13.6	6.0	18.0
16	Per cent of all farms in 1900.....	<i>14.6</i>	<i>18.5</i>	<i>14.6</i>	<i>7.2</i>	<i>21.9</i>
17	Land in farms.....acres.....	638,141	88,335	37,041	19,741	72,757
18	Improved land in farms.....acres.....	259,884	56,005	13,830	7,356	32,381
19	Value of land and buildings.....dollars.....	10,096,173	2,853,582	771,806	412,200	2,255,275
Form of tenancy:						
20	Share tenants.....	1,042	327	97	12	228
21	Share-cash tenants.....	50	12	5	3	7
22	Cash tenants.....	2,182	184	104	137	170
23	Tenure not specified.....	134	2	23	6	11
Color and nativity of tenants:						
24	Native white.....	3,603	494	208	139	384
25	Foreign-born white.....	403	30	20	19	32
26	Negro and other nonwhite.....	2	1	1	1	1
FARMS OPERATED BY MANAGERS						
27	Number of farms.....	636	46	53	37	56
28	Number of farms in 1900.....	<i>615</i>	<i>31</i>	<i>32</i>	<i>44</i>	<i>36</i>
29	Land in farms.....acres.....	208,938	50,032	12,804	23,365	16,011
30	Improved land in farms.....acres.....	52,584	7,088	4,202	3,637	6,529
31	Value of land and buildings.....dollars.....	7,926,085	1,257,940	707,050	526,850	1,719,010
MORTGAGE DEBT REPORTS						
For all farms operated by owners:						
32	Number free from mortgage debt.....	14,851	1,083	880	1,307	777
33	Number with mortgage debt.....	13,140	1,028	512	1,131	954
34	Number with no mortgage report.....	74	8	5	1	3
For farms consisting of owned land only:						
35	Number reporting debt and amount.....	12,138	876	468	1,069	845
36	Value of their land and buildings.....dollars.....	36,868,501	3,361,157	1,504,485	2,731,833	3,279,785
37	Amount of mortgage debt.....dollars.....	12,436,091	1,030,255	423,144	901,400	1,182,553
38	Per cent of value of land and buildings.....	33.7	30.7	28.1	35.2	36.1

1 No mortgage reports were secured for farms operated by tenants and managers. (See explanation in text.)

TABLE 3.—LIVE STOCK PRODUCTS, AND DOMESTIC ANIMALS

LIVE STOCK PRODUCTS						
Dairy Products						
1	Dairy cows on farms reporting dairy products.....number.....	259,206	23,070	9,444	20,301	25,853
2	Dairy cows on farms reporting milk produced.....number.....	247,126	21,845	9,165	18,607	23,107
3	Milk—Produced.....gallons.....	114,317,169	10,151,278	3,841,932	9,426,788	10,717,132
4	Sold.....gallons.....	33,998,934	3,350,719	1,878,138	1,631,710	6,513,020
5	Cream sold.....gallons.....	2,353,686	242,595	21,877	209,624	388,118
6	Butter fat sold.....pounds.....	7,756,395	563,055	23,381	624,048	405,183
7	Butter—Produced.....pounds.....	15,165,692	971,019	628,463	1,926,475	228,970
8	Sold.....pounds.....	12,892,124	766,174	471,163	1,775,710	202,433
9	Cheese—Produced.....pounds.....	245,884	165,320	18,258	7,367	.....
10	Sold.....pounds.....	238,310	165,320	17,448	7,122	.....
11	Value of products, excluding home use of milk and cream.....dollars.....	13,128,465	955,333	467,635	1,134,668	1,161,258
12	Receipts from sale of dairy products.....dollars.....	11,501,577	898,579	423,414	1,091,230	1,154,400
Poultry Products						
13	Poultry—Raised.....number.....	1,154,879	98,037	78,608	84,258	90,356
14	Sold.....number.....	579,014	50,500	40,372	43,579	45,613
15	Eggs—Produced.....dozens.....	6,580,466	471,187	413,794	684,945	389,207
16	Sold.....dozens.....	4,431,120	302,038	288,759	418,224	261,450
17	Value of poultry and eggs produced.....dollars.....	2,287,710	175,348	152,272	191,221	143,977
18	Receipts from sale of poultry and eggs.....dollars.....	1,479,988	108,500	101,013	127,240	93,830
Honey and Wax						
19	Honey produced.....pounds.....	160,283	41,844	17,357	2,484	10,400
20	Wax produced.....pounds.....	2,899	790	108	31	201
21	Value of honey and wax produced.....dollars.....	26,166	6,581	2,121	500	1,597
Wool, Mohair, and Goat Hair						
22	Wool, fleeces shorn.....number.....	85,070	16,477	8,907	3,038	1,892
23	Mohair and goat hair, fleeces shorn.....number.....	97	4	15	.....	24
24	Value of wool and mohair produced.....dollars.....	179,065	34,542	16,539	11,237	3,522
DOMESTIC ANIMALS SOLD OR SLAUGHTERED						
25	Calves—Sold or slaughtered.....number.....	144,156	8,942	3,063	10,474	21,406
26	Other cattle—Sold or slaughtered.....number.....	164,787	15,277	6,070	17,156	9,758
27	Horses, mules, and asses and burros—Sold.....number.....	7,214	502	229	628	384
28	Swine—Sold or slaughtered.....number.....	144,506	13,169	6,373	14,584	12,294
29	Sheep and goats—Sold or slaughtered.....number.....	70,918	12,075	4,247	4,014	2,323
30	Receipts from sale of animals.....dollars.....	5,990,550	459,171	166,453	731,117	367,023
31	Value of animals slaughtered.....dollars.....	1,468,945	162,122	78,965	85,740	124,530

AGRICULTURE—VERMONT.

767

AND NATIVITY OF FARMERS, AND MORTGAGE DEBT, BY COUNTIES: APRIL 15, 1910.

[Comparative data for June 1, 1900, in italics.]

	Essex.	Franklin.	Grand Isle.	Lamoille.	Orange.	Orleans.	Rutland.	Washington.	Windham.	Windsor.
1	745	2,051	378	1,471	2,700	2,557	2,300	2,508	2,272	3,200
2	<i>791</i>	<i>1,914</i>	<i>367</i>	<i>1,309</i>	<i>2,743</i>	<i>2,578</i>	<i>2,281</i>	<i>2,542</i>	<i>2,350</i>	<i>3,238</i>
3	92.2	76.0	69.5	90.3	89.5	91.1	82.6	90.7	89.0	87.0
4	<i>90.1</i>	<i>74.2</i>	<i>74.3</i>	<i>80.8</i>	<i>87.1</i>	<i>88.1</i>	<i>77.8</i>	<i>87.4</i>	<i>86.1</i>	<i>85.3</i>
5	131,178	244,786	20,298	190,730	357,299	330,350	341,195	334,700	342,820	453,246
6	35,405	101,088	21,871	66,732	98,844	116,728	116,570	101,258	81,851	129,999
7	1,854,205	8,207,182	1,854,515	3,931,830	6,135,025	7,704,710	8,179,620	7,414,975	6,004,770	8,987,828
8	726	1,034	330	1,440	2,622	2,478	2,304	2,511	2,150	3,108
9	19	117	48	31	78	70	62	57	113	152
10	542	1,724	320	1,347	2,530	2,025	1,970	2,280	2,146	3,009
11	203	327	52	124	103	531	303	282	122	180
12	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
13	47	607	162	140	258	197	452	221	104	403
14	<i>72</i>	<i>632</i>	<i>170</i>	<i>209</i>	<i>848</i>	<i>301</i>	<i>671</i>	<i>395</i>	<i>203</i>	<i>468</i>
15	5.8	22.5	20.8	8.0	8.6	7.0	15.8	7.8	7.0	10.7
16	<i>8.2</i>	<i>24.5</i>	<i>24.1</i>	<i>18.3</i>	<i>11.0</i>	<i>10.3</i>	<i>19.5</i>	<i>11.5</i>	<i>10.0</i>	<i>12.3</i>
17	7,023	107,770	18,981	20,430	38,333	28,527	80,402	26,015	27,137	54,774
18	2,507	42,037	13,582	6,077	10,742	11,309	32,244	8,210	6,504	15,930
19	110,000	3,308,005	905,050	398,800	755,545	617,775	1,700,760	630,050	383,100	894,035
20	8	350	98	30	44	68	211	53	37	70
21	1	5	3	.....	2	.....	6	2	3	1
22	30	241	63	108	200	120	212	155	150	318
23	8	2	8	2	12	9	23	11	4	13
24	39	404	140	132	242	182	415	201	178	375
25	8	113	22	8	16	35	37	20	10	27
26	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
27	10	40	4	18	58	52	45	41	87	83
28	15	56	8	15	59	47	78	33	62	60
29	4,000	9,215	1,490	2,049	9,502	6,432	11,802	8,025	10,443	20,992
30	1,070	3,600	875	970	2,737	2,397	4,915	2,969	4,927	6,078
31	90,200	336,350	81,500	78,200	170,425	267,300	500,450	427,970	712,500	979,840
32	400	1,044	198	621	1,660	1,098	1,301	1,300	1,308	1,790
33	334	1,001	177	840	1,030	1,453	1,059	1,203	957	1,449
34	2	0	3	4	4	6	6	5	7	15
35	311	915	152	810	973	1,333	990	1,150	888	1,346
36	726,535	3,989,040	779,500	2,047,930	2,210,925	4,052,105	3,343,830	3,116,485	2,194,120	3,519,805
37	259,002	1,361,471	190,542	771,192	756,340	1,591,190	1,063,488	1,097,547	658,178	1,088,883
38	35.8	34.1	24.4	37.7	34.2	30.3	31.8	35.2	30.0	30.0

SOLD OR SLAUGHTERED ON FARMS, BY COUNTIES: 1909.

1	5,237	33,254	3,625	12,030	18,739	26,287	25,245	21,303	12,407	20,833
2	5,119	32,793	3,398	12,780	18,239	26,077	24,021	21,050	12,158	18,167
3	2,072,963	14,216,881	1,670,363	6,050,337	8,348,339	13,605,080	10,502,298	9,668,081	4,037,255	8,508,453
4	526,640	3,840,230	740,087	108,055	1,205,544	1,177,982	6,476,745	3,085,233	1,453,424	1,940,541
5	23,832	424,303	13,170	202,822	69,329	124,313	41,404	174,698	93,342	204,340
6	205,417	1,955,031	102,616	168,578	1,365,479	1,156,174	197,587	724,016	332,201	472,630
7	283,078	1,310,006	99,637	1,400,650	1,036,301	2,800,620	1,043,538	1,333,031	663,106	1,440,700
8	220,198	1,160,701	41,143	1,232,737	866,345	2,609,618	803,880	1,134,164	467,179	1,140,653
9	300	.....	.....	.....	500	.....	43,914	1,800	820	8,280
10	300	.....	.....	.....	.....	.....	38,914	1,750	620	7,245
11	230,653	1,438,601	164,265	595,284	938,200	1,244,100	1,165,421	1,093,853	590,173	970,010
12	213,866	1,397,700	147,034	521,579	889,873	1,193,430	1,104,499	1,030,706	534,750	807,402
13	21,607	94,074	33,198	42,447	102,382	73,214	108,000	98,700	93,229	135,170
14	8,298	48,848	17,705	19,440	54,218	31,493	53,015	51,153	44,998	70,401
15	129,659	427,888	131,010	272,222	731,599	510,971	579,840	573,480	500,448	863,295
16	78,475	262,184	74,937	181,318	520,929	332,155	367,368	400,532	330,653	634,159
17	42,726	159,800	52,581	87,408	255,749	153,455	206,810	198,204	182,062	295,094
18	23,711	99,160	33,468	54,696	167,648	94,761	123,968	131,131	113,762	207,268
19	5,734	11,090	4,677	793	8,630	2,260	31,628	6,455	5,893	10,168
20	78	503	588	35	51	20	136	110	70	115
21	1,124	1,943	807	108	1,029	500	4,866	1,208	1,178	1,039
22	1,572	1,988	1,852	2,353	8,470	5,834	9,404	2,585	7,618	12,060
23	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
24	3,475	4,277	3,837	4,686	17,068	11,259	10,478	7,320	13,879	27,037
25	2,150	24,927	1,370	5,847	11,432	15,363	10,705	12,844	6,021	8,513
26	6,327	9,266	1,091	4,527	21,312	12,462	16,090	9,569	17,598	19,514
27	242	473	121	380	559	761	630	651	443	590
28	3,005	13,499	2,001	6,512	14,103	12,621	9,260	15,507	7,752	13,322
29	2,034	1,338	802	1,714	7,406	4,988	5,782	1,479	6,220	16,436
30	192,008	351,282	48,675	202,600	715,024	520,870	493,100	445,802	630,542	666,784
31	26,436	133,710	22,449	52,776	136,032	94,657	139,472	182,207	96,352	128,667

AGRICULTURE—VERMONT.

TABLE 4.—VALUE OF ALL CROPS AND PRINCIPAL CLASSES THEREOF, AND

		THE STATE.	Addison.	Bennington.	Caledonia.	Chittenden.	
VALUE OF ALL CROPS							
1	Total.....	dollars.....	27,446,836	2,377,687	1,320,399	2,046,797	2,197,727
2	Cereals.....	dollars.....	2,651,877	401,188	191,089	132,267	256,182
3	Other grains and seeds.....	dollars.....	79,211	0,021	1,149	2,348	4,068
4	Hay and forage.....	dollars.....	16,335,530	1,441,163	667,089	1,250,149	1,380,651
5	Vegetables.....	dollars.....	2,615,299	188,609	191,267	162,865	241,876
6	Fruits and nuts.....	dollars.....	910,881	50,950	74,026	46,016	64,196
7	All other crops.....	dollars.....	4,854,038	283,636	195,779	453,152	250,754
SELECTED CROPS (acres and quantity)							
8	Cereals:						
9	Total.....	acres.....	134,011	25,822	8,933	6,160	14,466
10	bushels.....		4,351,467	654,829	315,242	221,697	437,555
11	Corn.....	acres.....	42,887	4,725	3,270	972	4,581
12	bushels.....		1,715,133	158,804	133,682	38,435	172,614
13	Oats.....	acres.....	71,510	16,907	4,313	3,923	7,878
14	bushels.....		2,141,357	307,404	149,270	144,878	225,126
15	Wheat.....	acres.....	678	342	0	38	14
16	bushels.....		14,087	6,700	200	872	420
17	Barley.....	acres.....	10,586	2,559	79	703	1,178
18	bushels.....		285,008	71,968	2,658	23,786	28,113
19	Buckwheat.....	acres.....	7,659	739	1,013	517	403
20	bushels.....		174,394	14,620	25,211	13,586	6,742
21	Rye.....	acres.....	1,115	131	249	7	380
22	bushels.....		16,680	2,325	4,202	140	3,802
23	Other grains and seeds:						
24	Dry peas.....	acres.....	127	12	23	9	3
25	bushels.....		1,262	105	201	60	25
26	Dry edible beans.....	acres.....	2,390	178	22	78	149
27	bushels.....		26,350	1,910	202	736	1,418
28	Hay and forage:						
29	Total.....	acres.....	1,030,618	110,095	47,602	75,379	74,148
30	tons.....		1,502,730	141,086	58,766	121,102	132,191
31	All tame or cultivated grasses.....						
32	acres.....		937,049	101,276	44,846	69,747	64,008
33	tons.....		988,781	99,347	45,747	80,296	74,883
34	Timothy alone.....	acres.....	162,422	17,206	6,604	7,592	18,534
35	tons.....		170,847	17,259	7,672	9,211	20,030
36	Timothy and clover mixed.....	acres.....	597,016	64,201	23,669	52,733	43,806
37	tons.....		628,098	64,984	20,103	61,570	52,603
38	Clover alone.....	acres.....	4,136	655	191	300	248
39	tons.....		6,660	944	310	392	408
40	Alfalfa.....	acres.....	252	70	5	30	4
41	tons.....		515	182	17	33	9
42	Millet or Hungarian grass.....	acres.....	6,074	33	111	973	124
43	tons.....		13,067	50	187	2,290	231
44	Other tame or cultivated grasses.....	acres.....	197,149	10,105	14,266	8,119	1,292
45	tons.....		160,014	15,928	11,458	6,770	1,202
46	Wild, salt, or prairie grasses.....						
47	acres.....		13,951	2,442	1,070	148	1,392
48	tons.....		13,052	2,815	927	143	1,376
49	Grains cut green.....						
50	acres.....		24,177	930	583	1,890	1,354
51	tons.....		47,021	1,298	860	4,058	2,729
52	Coarse forage.....						
53	acres.....		55,365	5,437	1,159	3,593	7,392
54	tons.....		452,461	37,531	11,214	30,612	52,674
55	Root forage.....						
56	acres.....		70	4	4	1	2
57	tons.....		815	95	9	23	20
58	Special crops:						
59	Potatoes.....	acres.....	20,850	2,294	2,502	1,487	2,336
60	bushels.....		4,145,630	312,445	285,708	244,077	340,892
61	All other vegetables.....	acres.....	8,549	551	480	567	1,186
62	Tobacco.....	acres.....	103				
63	pounds.....		164,680	25	29		530
64	Maple trees.....	number.....	5,585,032	224,597	160,488	606,570	295,240
65	Maple sugar (made).....	pounds.....	7,726,817	231,478	42,615	978,863	225,766
66	Maple sirup (made).....	gallons.....	469,053	23,126	35,706	13,646	47,536
FRUITS AND NUTS							
67	Orchard fruits:						
68	Total.....	trees.....	1,266,700	112,563	71,824	59,879	101,077
69	bushels.....		1,492,499	71,068	128,028	88,965	63,401
70	Apples.....	trees.....	1,183,529	93,947	66,055	50,261	91,375
71	bushels.....		1,459,689	64,873	124,735	88,770	60,058
72	Peaches and nectarines.....	trees.....	5,492	62	17	1	121
73	bushels.....		2,221	17	12		3
74	Pears.....	trees.....	26,315	0,071	1,586	132	3,791
75	bushels.....		20,763	4,616	1,707	95	2,632
76	Plums and prunes.....	trees.....	32,920	7,097	3,087	434	3,055
77	bushels.....		7,205	1,060	1,282	87	350
78	Cherries.....	trees.....	18,006	5,351	1,072	51	2,720
79	bushels.....		2,506	498	284	7	358
80	Grapes.....	vines.....	0,318	2,102	530	33	1,827
81	pounds.....		203,011	36,290	16,327	1,200	29,312
82	Small fruits:						
83	Total.....	acres.....	469	32	20	17	67
84	quarts.....		826,122	47,544	54,788	28,225	91,162
85	Strawberries.....	acres.....	276	11	9	10	20
86	quarts.....		615,820	23,157	32,007	20,813	62,850
87	Raspberries and loganberries.....	acres.....	80	7	4	4	22
88	quarts.....		85,065	7,786	13,010	4,129	14,001
89	Currants.....	acres.....	58	9	5	2	8
90	quarts.....		58,533	10,630	5,510	1,562	6,572
91	Nuts.....	acres.....	24,534	4,906	1,097	242	1,227
92	pounds.....		891,825	133,213	56,350	14,175	42,110

TABLE 5.—SELECTED FARM EXPENSES

1	Labor.....	Farms reporting.....	21,810	1,099	1,158	1,731	1,591
2	Cash expended.....	dollars.....	3,479,799	327,700	205,508	272,817	391,910
3	Rent and board furnished.....	dollars.....	1,168,204	120,804	62,572	88,250	118,530
4	Fertilizer.....	Farms reporting.....	19,033	1,264	849	1,648	1,232
5	Amount expended.....	dollars.....	570,752	45,707	30,361	42,539	42,952
6	Feed.....	Farms reporting.....	20,332	1,891	1,222	2,260	1,838
7	Amount expended.....	dollars.....	4,753,793	217,456	178,125	596,695	398,578
8	Receipts from sale of feedable crops.....	dollars.....	969,276	177,263	38,008	74,092	67,808

AGRICULTURE—VERMONT.

769

ACREAGE AND PRODUCTION OF PRINCIPAL CROPS, BY COUNTIES: 1909.

	Essex.	Franklin.	Grand Isle.	Lamoille.	Orango.	Orleans.	Rutland.	Washington.	Windham.	Windsor.
1	846,370	2,621,884	446,752	1,453,469	2,236,752	1,576,908	2,532,129	2,319,850	1,846,340	2,823,702
2	40,767	241,875	83,701	70,873	211,068	117,856	281,008	163,563	165,075	286,317
3	1,085	7,709	33,787	688	5,734	4,132	4,161	1,611	2,234	4,484
4	384,126	1,772,838	233,690	835,103	1,375,250	1,697,442	1,510,024	1,304,824	910,445	1,473,718
5	60,147	197,476	41,397	124,462	172,875	192,021	290,539	232,090	241,642	259,904
6	10,461	27,743	40,245	23,322	94,704	34,604	88,493	61,688	144,031	144,352
7	140,794	374,243	13,863	300,021	377,112	530,943	348,006	406,055	373,913	654,867
8	2,073	14,678	6,324	3,912	9,055	6,120	13,292	6,860	5,310	11,597
9	71,239	436,695	152,443	143,549	320,240	192,382	402,465	266,483	229,060	447,598
10	1,65	2,725	908	1,495	4,017	490	6,276	2,738	3,860	6,659
11	8,007	62,980	26,407	62,519	155,653	14,555	260,420	121,437	178,657	290,363
12	1,511	9,622	3,822	1,785	3,407	4,277	5,924	3,080	1,206	3,855
13	51,329	289,157	93,658	63,207	119,558	141,007	175,946	115,610	43,606	130,602
14	4	45	38	7	11	30	17	30	40	35
15	127	843	651	110	270	985	492	825	949	684
16	89	1,570	371	472	760	1,096	343	710	68	288
17	2,571	41,042	7,761	13,961	22,526	30,658	0,268	21,355	1,929	7,412
18	303	566	149	149	827	209	654	122	122	689
19	8,597	10,717	23,816	3,547	21,032	4,208	14,704	7,093	3,479	17,033
20	1	140	3	3	33	0	55	2	17	70
21	8	1,756	150	70	1,201	89	901	90	440	1,440
22	3	11	16	2	20	7	1	0	11	11
23	27	94	173	23	180	76	8	177	113	113
24	20	274	890	47	173	204	58	54	75	168
25	330	2,804	11,875	231	1,880	1,437	641	553	760	1,501
26	26,310	101,417	14,155	45,855	89,242	90,519	105,142	74,642	69,634	106,418
27	32,861	164,091	23,387	72,961	137,838	135,123	137,109	130,302	79,743	138,170
28	25,105	88,897	30,915	30,915	81,472	79,053	96,061	67,842	65,700	90,002
29	20,618	102,282	12,309	46,287	74,017	80,425	95,704	80,825	60,868	92,693
30	3,808	27,780	7,420	4,540	9,892	17,720	12,181	13,383	3,688	12,062
31	4,404	30,509	7,080	4,887	10,189	10,216	14,471	17,644	4,428	11,941
32	17,329	56,628	4,357	32,028	35,937	56,547	40,033	48,428	30,161	51,550
33	18,848	60,769	4,622	37,061	37,771	63,787	48,761	62,297	30,063	51,350
34	234	568	93	37	37	101	443	305	290	444
35	280	947	161	42	370	132	752	601	448	853
36	14	29	78	1	2	2	4	2	1	6
37	13	31	192	2	3	3	10	2	5	10
38	248	475	820	395	365	680	127	455	635	793
39	383	1,179	1,990	760	760	2,073	311	1,429	1,157	1,619
40	3,472	3,417	1,883	35,028	35,028	4,005	34,873	5,200	31,082	34,738
41	2,090	2,847	1,705	25,824	25,824	4,217	31,450	4,852	24,157	26,908
42	59	1,501	993	599	599	1,423	2,025	658	550	782
43	73	1,443	883	517	517	1,336	1,830	862	305	536
44	622	2,794	110	1,843	2,184	4,652	1,075	1,732	1,719	2,074
45	1,275	5,761	144	3,026	4,322	8,219	4,011	3,780	3,398	4,131
46	622	8,204	2,077	3,080	4,087	4,488	4,780	4,110	1,582	3,954
47	4,807	54,530	10,817	22,032	58,072	30,123	35,440	38,831	15,049	38,669
48	2	21	24	3	3	1	1	8	8	6
49	28	75	57	133	10	20	58	4	133	141
50	820	2,293	390	1,300	1,800	1,012	3,446	1,859	1,906	2,415
51	136,217	344,244	46,463	253,164	278,807	341,406	510,690	400,190	277,928	367,393
52	137	697	195	309	719	480	773	621	1,018	816
53	147,531	818,209	2,015	476,477	345,092	1,040,520	284,328	393,514	163,009	312,039
54	150,002	1,584,476	2,755	835,286	448,492	1,002,438	152,615	645,800	418,433	290,458
55	8,840	42,806	694	20,148	18,787	12,320	57,021	10,601	220,713	37,688
56	18,211	85,525	56,492	48,488	131,141	72,173	95,377	60,782	164,658	188,216
57	26,122	42,608	44,701	45,304	180,473	66,562	112,808	118,191	257,003	238,265
58	18,144	81,406	52,908	47,908	127,594	71,053	85,541	57,799	152,627	177,913
59	26,115	42,211	43,662	45,182	188,149	66,457	108,076	117,418	250,743	235,234
60	4	20	20	21	21	16	20	2	5,106	192
61	2	13	17	17	17	17	2	2	2,135	22
62	987	1,125	119	119	1,160	77	3,477	651	3,074	4,065
63	325	900	55	55	829	37	3,088	410	2,742	3,327
64	41	2,272	1,802	398	1,715	907	3,754	1,410	2,644	4,298
65	4	34	70	50	405	64	1,082	207	978	1,436
66	22	860	635	63	649	120	2,574	913	1,181	1,786
67	1	38	11	38	73	4	561	66	307	242
68	404	366	98	248	248	17	1,049	204	1,110	1,321
69	8,056	5,720	2,837	8,103	8,103	162	24,440	3,580	22,220	44,158
70	15	5	23	91	10	34	35	48	72	72
71	1,061	32,449	7,753	39,466	182,507	11,009	58,035	71,695	94,595	105,843
72	10	17	2	17	75	8	16	24	28	37
73	379	27,433	4,076	35,152	107,107	8,720	37,212	58,880	60,736	68,289
74	2	1	2	2	2	7	4	4	0	12
75	35	1,257	935	915	4,818	238	8,360	4,283	11,060	12,039
76	2	2	2	2	6	1	7	3	2	0
77	265	2,630	2,424	1,171	6,300	1,042	6,090	3,091	4,332	5,097
78	32	514	256	320	4,080	841	5,344	1,027	1,837	2,802
79	2,250	18,700	6,550	17,550	153,000	25,374	174,050	50,100	44,403	143,500

AND RECEIPTS, BY COUNTIES: 1909.

1	513	1,973	316	1,026	1,818	1,805	1,006	1,846	1,008	2,490
2	72,104	346,615	52,032	117,165	232,087	256,044	340,913	292,180	251,180	419,075
3	17,282	135,297	10,977	41,791	99,099	91,468	108,854	101,666	77,800	117,844
4	425	1,711	216	1,097	1,830	1,757	1,317	1,077	1,092	2,318
5	13,361	55,571	6,230	27,138	41,966	53,563	47,549	44,458	59,998	59,299
6	674	2,166	320	1,422	2,503	2,395	2,170	2,230	2,150	3,040
7	104,056	400,829	29,400	233,530	469,218	509,765	358,630	486,157	341,705	524,559
8	41,686	163,967	21,034	27,901	60,785	73,043	69,278	67,695	45,340	88,410

AGRICULTURE—VERMONT.

TABLE 6.—NUMBER AND VALUE OF DOMESTIC ANIMALS NOT ON FARMS, BY COUNTIES: APRIL 15, 1910.

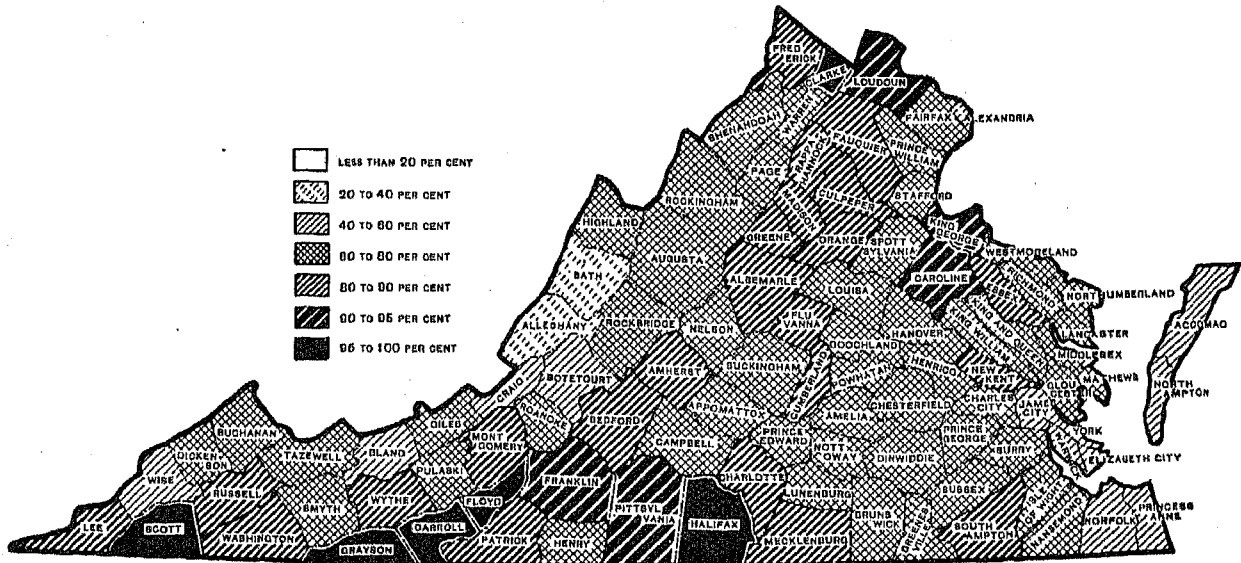
	THE STATE.	Addison.	Bennington.	Caledonia.	Chittenden.	Essex.	Franklin.	Grand Isle.
1 Inclosures reporting domestic animals.....	12,095	810	835	1,011	1,086	252	991	61
2 Value of domestic animals.....dollars..	2,581,230	130,980	150,678	203,401	373,590	63,706	156,206	8,128
Cattle:								
3 Total number.....	5,876	484	529	298	295	142	490	24
4 Value.....dollars..	207,608	16,337	17,707	10,785	10,244	4,767	15,720	658
5 Number of dairy cows.....	4,848	412	440	255	221	116	409	20
Horses:								
6 Total number.....	18,806	1,050	1,128	1,522	2,579	448	1,210	52
7 Value.....dollars..	2,305,409	112,411	130,423	188,088	338,642	57,283	137,867	4,721
8 Number of mature horses.....	18,009	1,028	1,122	1,507	2,565	442	1,184	52
Mules and asses and burros:								
9 Total number.....	194	.....	3	1	144	2	4	21
10 Value.....dollars..	28,558	.....	225	175	22,483	150	345	2,590
11 Number of mature mules.....	162	.....	3	1	144	2	4	21
Swine:								
12 Total number.....	3,522	215	282	304	234	136	195	14
13 Value.....dollars..	38,253	2,167	2,285	3,837	2,000	1,508	2,171	141
Sheep and goats:								
14 Total number.....	221	10	7	58	15	2	22	3
15 Value.....dollars..	1,402	65	38	510	140	8	94	18

	Lamoille.	Orange.	Orleans.	Rutland.	Washington.	Windham.	Windsor.
1 Inclosures reporting domestic animals.....	533	721	779	1,741	1,305	749	1,221
2 Value of domestic animals.....dollars..	106,232	131,213	181,561	328,077	284,221	181,303	241,835
Cattle:							
3 Total number.....	290	372	410	811	514	506	792
4 Value.....dollars..	10,115	12,545	14,035	30,896	18,246	18,841	27,213
5 Number of dairy cows.....	253	311	351	694	450	356	560
Horses:							
6 Total number.....	768	1,000	1,201	2,366	2,115	1,284	1,987
7 Value.....dollars..	93,612	115,504	165,410	292,938	250,710	160,078	248,722
8 Number of mature horses.....	794	1,047	1,248	2,277	2,004	1,274	1,975
Mules and asses and burros:							
9 Total number.....	3	2	.....	3	7	2	2
10 Value.....dollars..	400	400	.....	475	915	100	300
11 Number of mature mules.....	3	2	.....	3	7	.....	2
Swine:							
12 Total number.....	163	230	175	454	511	174	420
13 Value.....dollars..	2,054	2,722	1,974	4,253	5,245	2,204	5,512
Sheep and goats:							
14 Total number.....	0	8	20	3	20	15	20
15 Value.....dollars..	51	42	142	15	105	80	88

PER CENT OF LAND AREA IN FARMS, AND AVERAGE VALUE OF FARM LAND PER ACRE, IN VIRGINIA,
BY COUNTIES: 1910.

PER CENT OF LAND AREA IN FARMS.

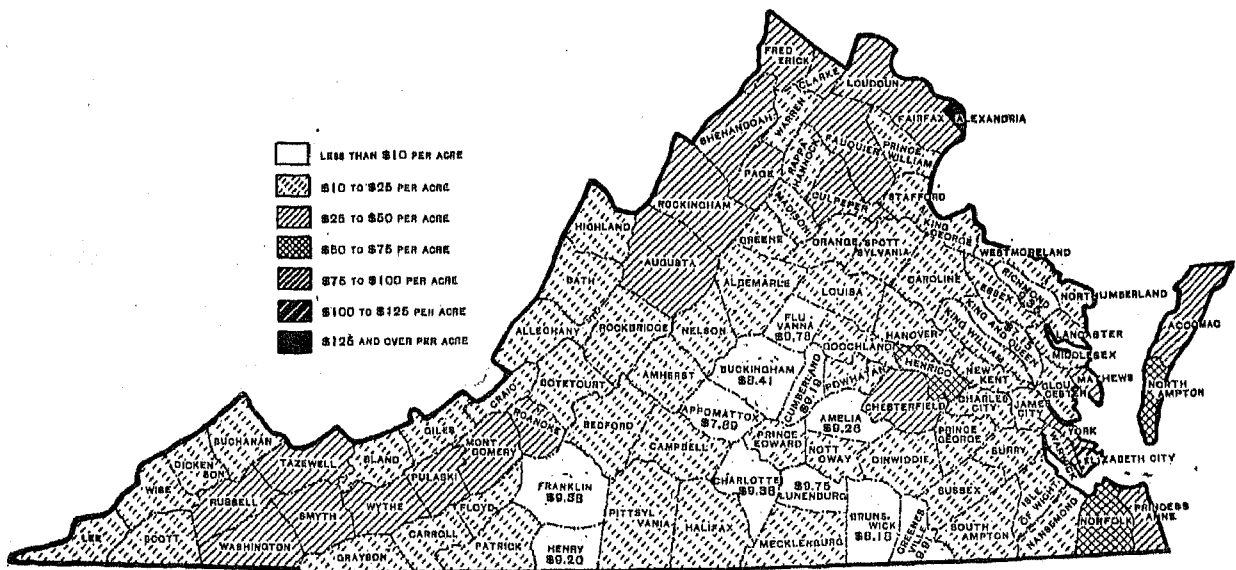
[Per cent for the state, 75.7.]



AVERAGE VALUE OF FARM LAND PER ACRE.

[Average for the state, \$20.24.]

When the value is less than \$10 per acre, it is inserted under the county name.



VIRGINIA.

FARMS AND FARM PROPERTY.

Virginia ranks twentieth in population and thirty-fifth in land area among the states and territories of continental United States. The state has an extreme range in altitude from sea level along its eastern border to 7,000 feet above tide in the mountain portion of the western section of the state. In eastern or Tidewater Virginia the altitudes are uniformly low, ranging from sea level to an elevation of 350 to 400 feet along what is known as the Fall line where the Coastal Plain overlaps the higher lying Piedmont Plateau section. The eastern or Tidewater portion of Virginia is deeply indented by estuaries and bays, and between these the land consists of low, flat terraces and higher rolling uplands. The middle portion of the state from the meridian of Richmond westward to the foot of the Blue Ridge Mountains consists of the rolling and elevated Piedmont Plateau, whose altitudes range from 350 feet on the eastern margin to 1,200 or 1,300 feet in the western portion. West of the Piedmont Plateau the Blue Ridge Mountains constitute a wall extending entirely across the state from northeast to southwest. Immediately to the west of the Blue Ridge occurs the Great Limestone Valley of Virginia, which is nearly 20 miles broad throughout its extent. The floor of this valley is rolling to undulating, and it is frequently interrupted by low ridges and even by mountain masses. The western portion of the state consists principally of the folded Allegheny Mountain systems, within which several smaller limestone valleys are to be found in the extreme southwestern portion of the state. Only a small portion of Virginia lies within the Appalachian Plateau.

The soils of the Coastal Plain region are chiefly clays, loams, silt loams, sand, and sandy loams. The Piedmont section is principally occupied by heavy red clays, gray sandy loams, and loams. In the northern portion of the Piedmont section a small area of soil is derived from the weathering of the red Triassic shales.

The greater portion of the Blue Ridge section, excepting, however, numerous small coves and valleys, is too rough and rugged for general agricultural uses, and is largely forested. The soils of this region are derived from the crystalline schists and older metamorphic rocks.

The Great Limestone Valley of Virginia, with loamy or clay loam soils, constitutes one of the richest agricultural portions of the state. The soils of the Appalachian Mountain and Plateau region in extreme western Virginia are largely derived from the sandstones and shales of that section. A considerable proportion of this region, with the exception of many small valleys and the more gentle slopes, is too rough and rugged for general agricultural use.

The two maps on the opposite page show, for the different counties, the proportion of the total area

which is in farms and the average value of farm land per acre. Of the state's entire land area, more than three-fourths is in farms. As shown by the first map, the proportion is less than two-fifths in only 3 counties—Alexandria, Bath, and Alleghany. With the exception of these counties and 12 others—4 on the western border and 8 on the coast, which have from 40 to 60 per cent of their land in farms—the proportion in each county is three-fifths or more. Seventy-four counties, or approximately three-fourths of the total, have from 60 to 90 per cent of their land in farms, while 11 have over nine-tenths of their total land area in farms.

As shown by the second map, the average value of farm land per acre for the whole state is \$20.24. The average is less than \$10 per acre in 13 counties, and is over \$50 per acre in only 5. More than half of the counties (58) show an average value of from \$10 to \$25 per acre, those counties, with those in which the average is under \$10 per acre, occupying most of the south central part of the state. In 24 counties the average value is between \$25 and \$50 per acre. Eight of these form a group located in the southwestern part of the state extending from Roanoke County to Washington County, 10 are grouped in the northern section, while 5 of the remaining 6 are coast counties. The 5 counties in which the average is over \$50 are Henrico, in the east central part of the state, Norfolk, Elizabeth City, and Northampton, bordering on Chesapeake Bay, and Alexandria, on the Potomac River.

Progress during the decade 1900 to 1910.—Between 1900 and 1910 there was an increase of 16,132, or 9.6 per cent, in the number of farms in Virginia, coincident with an increase of 11.2 per cent in the population. During the decade the total farm acreage and the improved acreage both decreased, the former by 2.1 per cent, the latter by 2.2 per cent. On account of the increase in the number of farms and the decrease in farm acreage, the average size of the farms, which was 118.6 acres in 1900, had decreased to 105.9 acres in 1910.

The total value of farm property, which includes that of land, buildings, implements and machinery, and live stock (domestic animals, poultry, and bees), is \$625,065,000, which is 93.2 per cent greater than the total for 1900. The value of land alone increased 96.7 per cent, as compared with increases of 93.6 per cent in the value of buildings, 82.8 per cent in that of implements and machinery, and 78.2 per cent in that of live stock.

The average value of a farm, including its equipment, is \$3,397, an increase of 76.3 per cent since 1900. During the decade the average value of land per acre has more than doubled, increasing from \$10.08 to \$20.24.

In considering the increase of values in agriculture the general increase which has occurred in the prices of all commodities in the last 10 years should be borne in mind.

The following table summarizes for the state the more significant facts relating to population and land area, the number, value, and acreage of farms, and the value of all other farm property in 1910 and 1900:

NUMBER, AREA, AND VALUE OF FARMS.	1910 (April 15)	1900 (June 1)	INCREASE. ¹	
			Amount.	Per cent.
Population.....	2,061,612	1,854,184	207,428	11.2
Number of all farms.....	184,018	167,886	16,132	9.6
Approximate land area of the state..... acres..	25,767,680	25,767,680		
Land in farms..... acres..	19,495,636	19,907,833	-412,247	-2.1
Improved land in farms..... acres..	9,870,058	10,094,805	-224,747	-2.2
Average acres per farm.....	105.9	118.6	-12.7	-10.7
Value of farm property: Total.....	\$625,065,383	\$323,515,977	\$301,549,406	93.2
Land.....	394,658,912	200,615,080	194,043,832	96.7
Buildings.....	137,399,150	70,963,120	66,436,030	93.6
Implements and machinery.....	18,115,833	9,911,040	8,204,843	82.8
Domestic animals, poultry, and bees.....	74,891,438	42,026,737	32,864,701	78.2
Average value of all property per farm.....	\$3,397	\$1,927	\$1,470	76.3
Average value of land per acre.....	\$20.24	\$10.08	\$10.16	100.8

¹ A minus sign (-) denotes decrease.

Population, number of farms, and farm acreage: 1870 to 1910.—The table following presents, for the state as a whole for each census from 1870 to 1910, inclusive, a statement of the total population, the number of farms, and the acreage of farm land and of improved land in farms. It also gives the percentage of the land area in farms, the percentage of farm land improved, and the percentage of increase during each decade in the number of farms and in the land in farms.

CENSUS YEAR.	Population.	FARMS.		LAND IN FARMS.			Per cent of land area in farms.	Per cent of farm land improved.
		Number.	Per cent of increase.	All land.		Improved land (acres).		
				Acres.	Per cent of increase. ¹			
1910...	2,061,612	184,018	9.6	19,495,636	-2.1	9,870,058	75.7	50.6
1900...	1,854,184	167,886	31.6	19,907,833	4.2	10,094,805	77.3	50.7
1890...	1,655,980	127,600	7.7	19,104,951	-3.7	9,125,546	74.1	47.8
1880...	1,512,565	118,517	60.5	19,835,785	8.3	8,510,113	77.0	42.9
1870 ² ...	1,225,163	73,849	.....	18,145,911	.....	8,165,049	70.4	45.0

¹ A minus sign (-) denotes decrease.

² Data prior to 1870 not given, Virginia and West Virginia being one state until 1863.

In the 40 years since 1870 the population of the state has increased 836,449, or 68.3 per cent. There has been a continuous increase during this period in the number of farms reported, from 73,849 in 1870 to 184,018 in 1910, giving an average increase of 2,754 per year. Between 1890 and 1900 the average annual increase was 4,029, while during the last decade it was 1,613 per year.

The land surface of Virginia comprises approximately 25,767,680 acres. Of this area, 19,495,636 acres, or 75.7 per cent, are included in farms. Of the farm acreage, 9,870,058 acres, or 50.6 per cent, are reported as improved land, representing 38.3 per cent of the total land area of the state. The total acreage of

farm land has decreased 412,247 acres, or 2.1 per cent and that of improved land 224,747 acres, or 2.2 per cent, during the last decade. Thus the proportion improved is about the same as in 1900.

The last table shows a slightly smaller amount of land in farms than in 1880 or 1900, but more than in 1870 or 1890. The proportion of the total land area which is in farms shows a net increase from 70.4 per cent in 1870 to 75.7 per cent in 1910. The total farm acreage reported decreased by 730,834 acres between 1880 and 1890, increased by 802,932 acres during the next decade, and decreased by 412,247 acres during the last decade. The acreage of improved land increased continuously until 1900, and notwithstanding the slight decrease during the last decade the proportion which it forms of all farm land has increased during the 40 years covered by the table from 45 per cent to 50.6 per cent.

Values of farm property: 1870 to 1910.—The agricultural changes in Virginia since 1870, as reflected in the values of the several classes of farm property, are shown in the table which follows:

CENSUS YEAR.	FARM PROPERTY.							
	Total.		Land and buildings.		Implements and machinery.		Domestic animals, poultry, and bees.	
	Value.	Per cent of increase.	Value.	Per cent of increase.	Value.	Per cent of increase.	Value.	Per cent of increase.
1910.....	\$625,065,383	93.2	\$532,058,002	95.9	\$18,115,883	82.8	\$74,891,438	78.2
1900.....	323,515,977	9.9	271,578,200	0.7	9,911,040	50.3	42,026,737	25.8
1890.....	294,488,509	19.0	254,490,600	17.8	6,593,688	20.0	33,404,281	28.7
1880.....	247,476,530	25.7	216,028,107	20.8	5,495,114	39.6	25,053,815	15.1
1870 ^{1,2}	196,906,040	.....	170,416,076	.....	3,939,229	.....	22,550,135	.....

¹ Computed gold values, being 80 per cent of the currency values reported.

² Data prior to 1870 not given, Virginia and West Virginia being one state until 1863.

The total wealth in the form of farm property is \$625,065,000, of which 85.1 per cent is represented by land and buildings, 12 per cent by live stock, and 2.9 per cent by implements and machinery. The total value of farm property increased during the last 10 years by \$301,549,000, or 93.2 per cent. Of this total increase, \$260,480,000 represents the increase in the value of land and buildings, \$32,865,000 the increase in the value of live stock, and \$8,205,000 the increase in the value of implements and machinery. The absolute increase in the total value of farm property between 1900 and 1910 was more than ten times and the relative increase nearly ten times as great as during the decade immediately preceding.

The increase in the value of all farm property in the 40 years covered by the table amounts to \$428,159,000, of which \$50,570,000 is credited to the first decade of the period, \$47,012,000 to the second, and \$29,027,000 to the third. All classes of farm property show increases for each of these three decades, which are in fact considerable, and which seem small only when compared with the increases of the last 10 years.

Average acreage and values per farm: 1870 to 1910.—The changes which have taken place during the past 40 years in the average acreage of Virginia farms and in the average values of the various classes of farm property, as well as in the average value per acre of land and buildings, are shown in the following table:

CENSUS YEAR.	Average acres per farm.	AVERAGE VALUE PER FARM. ¹				Average value of land and buildings per acre.
		All farm property.	Land and buildings.	Implements and machinery.	Domestic animals, poultry, and bees.	
1910.....	105.9	\$3,307	\$2,891	\$98	\$407	\$27.20
1900.....	118.6	1,927	1,618	59	250	13.64
1890.....	149.7	2,308	1,994	52	262	13.32
1880.....	167.4	2,088	1,823	46	210	10.80
1870 ²	245.7	2,606	2,308	53	305	9.30

¹ Averages are based on "all farms" in state.

² Computed gold values, being 80 per cent of the currency values reported.

³ Data prior to 1870 not given, Virginia and West Virginia being one state until 1863.

The average size of the Virginia farm has decreased continuously from 245.7 acres in 1870 to 105.9 acres in 1910, an average decrease of about 3.5 acres per year. In 1870 the "plantation," which had been the common farm unit in a large part of the state during the first half of the century, still existed to a considerable extent, and the large farms of that period are accounted for mainly by the fact that each plantation was reported as one farm. During the last 40 years most plantations have gradually been divided into smaller parcels of land, largely operated by tenants. Each of these tenant holdings is reported as a farm and each tenant as a farmer, whether the owner of the property lives on the plantation and directs the operations or not. This change accounts to a large extent for the fact that the number of farms reported increased 149.2 per cent during the last 40 years,

although the amount of land in farms has increased only 7.4 per cent.

In the case of many plantations, although most of the land is now worked by tenants, each of whom is reported as a farmer and the land operated by him as a farm, yet there is a supervision by the owner, so that in a sense the entire plantation may be said to constitute a single farm. The Bureau of the Census has recently made an investigation of the extent to which the plantation unit of farm management still prevails, the results of which will appear in a later report.

Bearing in mind the definition of a farm as it applies to conditions in Virginia, it is to be noted that the average value is about \$3,400, of which nearly \$2,900 represents the value of land and buildings, slightly more than \$400 the value of live stock, and about \$100 the value of implements and machinery. Although the total value of farm property in the state advanced steadily between 1870 and 1900, the average value per farm decreased from \$2,666 to \$1,927. Doubtless this was due largely to the division of plantations into subdivisions operated by tenants. Although this parceling out of the plantations has not been entirely completed, the average value of farms has increased greatly since 1900, keeping pace with the general upward movement in values. The average value of land and buildings per acre increased from \$9.39 in 1870 to \$13.64 in 1900 and \$27.29 in 1910.

Farm tenure: 1880 to 1910.—The following table shows the distribution of the farms of the state according to character of tenure at each census since 1880:

TENURE.	1910	1900	1890	1880
Number of all farms.....	184,018	167,886	127,000	118,517
Farms operated by owners and managers.....	135,289	116,290	93,311	83,531
Farms consisting of owned land only.....	117,004	103,773	(¹)	(¹)
Farms consisting of owned and hired land.....	15,700	10,382	(¹)	(¹)
Farms operated by managers.....	1,625	2,135	(¹)	(¹)
Farms operated by tenants.....	48,729	51,596	34,289	34,986
Share tenants.....	33,472	34,047	22,304	21,594
Share-cash tenants ²	1,208			
Cash tenants.....	11,413	10,049	11,085	13,392
Tenure not specified ³	2,636			
Per cent of farms operated by—				
Owners and managers.....	73.5	69.3	73.1	70.5
Tenants.....	26.5	30.7	26.9	29.5
Share and share-cash.....	18.8	20.8	17.5	18.2
Cash and nonspecified.....	7.6	9.9	9.4	11.3

¹ Not reported separately.

² Share-cash tenants were doubtless largely included with share tenants in 1900, 1890, and 1880.

³ Prior to 1910 nonspecified tenants were included with cash tenants.

The number of farms, and therefore of farm operators, is 184,018. Of these operators, 133,664 are classified as owners, 1,625 as managers, and 48,729 as tenants. Of the owners, 117,964 operate exclusively land owned by them, while 15,700 operate land which they rent in addition to that which they own. Of the tenants, 33,472 are share tenants, 1,208 share-cash tenants, 11,413 cash tenants, and for 2,636 no report relative to character of tenure was secured.

While the number of farm operators has increased continuously during the 30 years covered by the table from 118,517 in 1880 to 184,018 in 1910, a gain of 55.3 per cent, the number of tenants has shown more or less fluctuation. The number reported in 1910 (48,729) represents a gain of 39.3 per cent as compared with 1880. This increase was, however, entirely confined to the decade 1890 to 1900, the decade 1880 to 1890 showing a slight decrease and the decade 1900 to 1910 a larger decrease. The proportion of tenants among all farmers, which was 29.5 per cent in 1880, was only 26.5 per cent in 1910, this being the lowest proportion shown for any census. The highest percentage reported at any census was in 1900, when it was 30.7 per cent. For comparison with earlier figures a combination of the classes shown in detail for 1910 is necessary, the share-cash tenants being grouped with the share tenants and the nonspecified with the cash tenants.

During the 30 years covered by the table the group of share and share-cash tenants has been much larger than the group of cash and nonspecified and the percentage which the former represent of all tenants has increased continuously. The number in each of the two groups decreased during the last decade, the decrease in the smaller group, that made up of cash tenants and nonspecified combined, being more than nine times as great as the decrease in the other group.

The following table shows, for white and colored farmers combined and for each class separately, the total and improved acreage and the value of land and buildings for farms operated by owners (including part owners), managers, and tenants, respectively:

FARMS OPERATED BY—	ALL LAND IN FARMS (ACRES).		IMPROVED LAND IN FARMS (ACRES).		VALUE OF LAND AND BUILDINGS.	
	1880	1900	1910	1900	1910	1900
All farmers.....	19,495,636	10,907,883	9,870,058	10,094,805	\$532,058,062	\$271,578,200
Owners.....	14,715,345	13,818,195	7,471,786	7,042,622	402,841,295	103,434,010
Managers.....	600,325	788,638	320,528	393,188	27,354,426	10,020,710
Tenants.....	4,119,966	5,301,050	2,077,744	2,658,995	101,862,341	62,114,480
White.....	17,257,416	17,678,705	8,758,850	8,960,347	486,833,558	251,595,750
Owners.....	13,334,122	12,786,864	6,802,428	6,501,003	374,781,701	183,323,410
Managers.....	630,340	753,078	306,482	378,093	26,023,611	15,468,370
Tenants.....	3,292,954	4,138,223	1,649,940	2,080,351	86,028,180	52,803,970
Colored.....	2,238,220	2,229,118	1,111,208	1,135,458	45,224,504	10,982,450
Owners.....	1,381,223	1,031,831	669,358	540,710	28,059,531	10,110,600
Managers.....	29,985	34,900	14,046	15,005	1,330,815	501,340
Tenants.....	827,012	1,162,827	427,804	509,644	15,834,155	9,310,510

The next table shows, for white and colored farmers combined and for each class separately, the per cent distribution by tenure groups of the items in the preceding table, and also of the number of farms.

It will be seen that, in 1910, 75.5 per cent of all land in farms was in farms operated by their owners (including part owners), 3.4 per cent in farms operated by managers, and 21.1 per cent in farms operated by tenants, the percentage for owners being higher and that for managers and for tenants lower than in 1900.

FARMS OPERATED BY—	PER CENT OF TOTAL.							
	Number of farms.		All land in farms.		Improved land in farms.		Value of land and buildings.	
	1910	1900	1910	1900	1910	1900	1910	1900
All farmers.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Owners.....	72.6	68.0	75.5	69.4	75.7	69.8	75.7	71.2
Managers.....	0.9	1.3	3.4	4.0	3.2	3.9	5.1	5.0
Tenants.....	26.5	30.7	21.1	26.6	21.1	26.3	19.1	22.0
White.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Owners.....	74.6	71.2	77.3	72.3	77.7	72.5	77.0	72.9
Managers.....	1.1	1.5	3.7	4.3	3.5	4.2	5.3	6.1
Tenants.....	24.3	27.3	19.1	23.4	18.8	23.3	17.7	21.0
Colored.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Owners.....	67.0	59.3	61.7	46.3	60.2	48.0	62.0	50.6
Managers.....	0.4	0.5	1.3	1.0	1.3	1.3	2.0	2.8
Tenants.....	32.6	40.2	36.9	52.2	38.5	50.6	35.0	46.0

Of all land in farms operated by white farmers, 77.3 per cent was in farms operated by their owners and 19.1 per cent in tenant farms, while of that in farms operated by colored farmers 61.7 per cent was in farms operated by owners, and 36.9 per cent in tenant farms. Between 1900 and 1910 the proportion of land in farms operated by owners showed a slight increase among white farmers and a decided increase among colored farmers.

As shown by the next table, the average size of farms operated by managers in 1910 (406.4 acres) was about three and three-fourths times as great as that of farms operated by owners (110.1 acres), which was in turn greater than that for farms operated by tenants (84.5 acres). The average size of farms operated by managers increased between 1900 and 1910, while that of farms operated by owners and by tenants decreased. In 1910 the percentage of farm land improved was highest for farms operated by owners, and lowest for those operated by managers.

The average size of farms operated by white farmers in 1910 (127 acres) was nearly two and three-fourths times as large as that of farms of colored farmers (46.5 acres); both classes of farms have decreased in size between 1900 and 1910. The proportion of land improved was slightly larger for farms of white farmers than for those of colored farmers, being, respectively, 50.8 per cent and 49.6 per cent of the total acreage in each class of farms.

FARMS OPERATED BY—	AVERAGE ACRES PER FARM.				PER CENT OF FARM LAND IMPROVED.		AVERAGE VALUE OF LAND AND BUILDINGS.			
	All land.		Improved land.		PER CENT IMPROVED.		Per farm.		Per acre.	
	1910	1900	1910	1900	1910	1900	1910	1900	1910	1900
All farmers.....	105.9	118.6	53.6	60.1	50.6	50.7	\$2,891	\$1,018	\$27.29	\$13.64
Owners.....	110.1	121.0	55.9	61.7	50.8	51.0	3,014	1,094	27.38	14.00
Managers.....	406.4	369.4	197.2	184.2	48.6	49.9	16,833	7,508	41.43	20.33
Tenants.....	84.5	102.7	42.6	51.5	50.4	50.2	2,090	1,204	24.72	11.72
White.....	127.0	143.7	64.4	72.9	50.8	50.7	3,582	2,045	28.21	14.23
Owners.....	131.5	146.0	67.1	74.2	51.0	50.9	3,095	2,003	28.11	14.34
Managers.....	436.2	397.3	212.1	199.3	48.6	50.2	18,033	8,154	41.20	20.52
Tenants.....	99.7	123.3	50.0	62.2	50.1	50.5	2,605	1,573	20.12	12.76
Colored.....	46.5	49.7	23.1	25.1	49.6	50.6	940	440	20.21	8.96
Owners.....	42.9	38.8	20.8	20.4	48.6	52.4	871	381	20.31	9.80
Managers.....	166.6	146.9	78.0	63.4	46.8	43.2	7,993	2,359	44.38	16.06
Tenants.....	52.7	64.5	27.2	31.0	51.7	49.0	1,008	516	19.15	8.01

Farm mortgages: 1890 to 1910.—The Eleventh Census (1890) was the first to collect data relating to mortgage debt on farms. The basis of the returns was the "farm home" occupied by its owner. The same class of information was secured by the population schedules of the Twelfth Census (1900). The agricultural schedules of the Thirteenth Census (1910) secured practically the same information, except that the basis was "owned farms" instead of "owned farm homes"—a difference involving, however, no appreciable incomparability.

The following table relates to farms operated by persons owning all or part of the land, and shows for 1910 (1) the number of such farms reported as free from mortgage; (2) the number reported as mortgaged; and (3) the number for which no mortgage reports were secured. Comparable items are included for 1900 and 1890:

CLASS.	OWNED FARMS. ¹		OWNED FARM HOMES.		OWNED FARM HOMES. ²	
	1910		1900		1890	
	Number.	Per cent. ³	Number.	Per cent. ³	Number.	Per cent.
Total.....	133,664		115,815		82,250	
Free from mortgage.....	111,474	84.0	94,688	85.3	79,000	96.8
Mortgaged.....	21,182	16.0	16,208	14.7	2,596	3.2
Unknown.....	1,008		4,859			

¹ Includes all farms owned in whole or in part by the operator.

² The 358 "owned farm homes" for which no reports were secured were distributed between "free from mortgage" and "mortgaged" in 1890.

³ Per cent of combined total of "free from mortgage" and "mortgaged."

In 1910 the total number of farms owned in whole or in part by the operators was 133,664. Of this number, 111,474 were reported as free from mortgage; 21,182 were reported as mortgaged; and for 1,008 no report relative to mortgage indebtedness was obtained. The number of mortgaged farms constituted 16 per cent of the total number of owned farms, exclusive of those for which no mortgage report was obtained. The percentage is much higher than it was in 1890 and somewhat higher than in 1900. It may be noted that the percentages given for the three censuses are comparable, but that the number of mortgaged and unmortgaged farms reported in 1890 is not entirely comparable with the numbers reported at the later censuses because at the census of 1890 the farms for which no reports were secured were distributed between the two classes of mortgaged and unmortgaged farms. It can be seen, however, that from 1890 to 1910 the number of mortgaged farms increased less than did the number free of mortgage.

The statement of mortgage debt and of the value of mortgaged farm property is restricted to the farms of those farmers who own all of their land and report the amount as well as the fact of indebtedness. Of the 21,182 farms reported as mortgaged, 18,506 are wholly owned by the farmers, and for 17,410 of these the amount of mortgage debt is reported. Only these last-mentioned farms are included for 1910 in the next table, which presents data relating to mortgaged farms

for 1910 and 1890. In this connection it should be noted that in 1890 the amount of mortgage debt of farms with incomplete reports was estimated according to the percentages and averages obtained from farms with full reports, but that no such estimate is here made for 1910. The table gives a comparative statement of the value of mortgaged farms owned entirely by their operators and the amount of indebtedness, together with the average value of such farms, the average debt per farm, and the average equity per farm for 1910 and 1890. Data regarding the amount of mortgage debt were not obtained in 1900.

	OWNED FARMS OR FARM HOMES MORTGAGED.		INCREASE. ¹	
	1910 ²	1890 ³	Amount.	Per cent.
Number.....	17,410	2,506		
Value—Land and buildings.....	\$62,377,247	\$7,181,172		
Amount of mortgage debt.....	\$15,440,201	\$3,394,303		
Per cent of debt to value.....	24.8	47.6		
Average value per farm.....	\$3,583	\$2,747	\$830	30.4
Average debt per farm.....	\$887	\$1,308	-\$421	-32.2
Average equity per farm.....	\$2,096	\$1,439	\$1,287	87.4

¹ A minus sign (-) denotes decrease.

² Includes only farms consisting wholly of owned land and reporting value of farm and amount of debt.

³ Includes all owned farm homes, estimates being made of value of farms and amount of debt for all defective reports.

The average debt of mortgaged farms has decreased in 20 years from \$1,308 to \$887, or 32.2 per cent. The average value of such farms, however, increased from \$2,747 to \$3,583, or 30.4 per cent. Thus the owner's equity rose from \$1,439 in 1890 to \$2,696 in 1910, or 87.4 per cent. The total value of owned farms reporting mortgages shows a greater relative increase than the total debt, and as a result the mortgage indebtedness, which was 47.6 per cent of the value of the mortgaged farms in 1890, had decreased to 24.8 per cent of this value in 1910.

Farms by size groups: 1910 and 1900.—Nearly one-fourth (23 per cent) of the farms in Virginia are from 20 to 49 acres in size, approximately one-fifth (20.8 per cent) from 50 to 99 acres, and slightly more than one-sixth (17.9 per cent) from 100 to 174 acres. These three groups contain more than three-fifths of all the farms in the state. Slightly more than one-fifth are under 20 acres in size, while the farms of 175 acres or over constitute about one-sixth of the total. Between 1900 and 1910 the greatest absolute increase in number, amounting to 6,746 farms, occurred in the "20 to 49 acres" group. Large gains were also made in each of the other groups between 3 and 174 acres, the total increase amounting to 19,958 farms. The greatest relative decrease occurred in the number of places "under 3 acres" reported as farms, the number now reported being less than one-seventh as great as 10 years ago. This decrease may be due to a different interpretation by the enumerators of what constitutes a small farm, or may represent an actual decrease in that type of farm. There were decreases in the several groups of farms exceeding 175 acres in size, amounting in all to 2,382 farms.

Farms of 50 to 99 acres constituted 21.8 per cent of the total number of farms of white farmers, and farms of 100 to 174 acres and of 20 to 49 acres constituted 21.2 per cent and 19.1 per cent, respectively; among colored farmers, the farms of from 20 to 49 acres constituted 34.2 per cent of the total, and the farms of 10 to 19 acres, comprising 20.9 per cent of the total, ranked next in importance. Of the farms operated by colored farmers, 35.5 per cent were farms of less than 20 acres, as compared with 16.6 per cent of the farms of white farmers.

The following table shows the distribution of farms by size groups at the censuses of 1910 and 1900:

SIZE GROUP.	NUMBER OF FARMS.		INCREASE. ¹		PER CENT OF TOTAL.	
	1910	1900	Number.	Per cent.	1910	1900
All farmers.....	184,018	167,886	16,132	9.6	100.0	100.0
Under 3 acres.....	227	1,071	-1,444	-86.4	0.1	1.0
3 to 9 acres.....	17,404	12,898	4,506	35.4	9.5	7.7
10 to 19 acres.....	22,055	18,834	3,221	20.3	12.0	10.9
20 to 49 acres.....	42,390	35,644	6,746	18.9	23.0	21.2
50 to 99 acres.....	38,342	33,048	4,394	12.0	20.8	20.2
100 to 174 acres.....	32,097	32,466	369	1.0	17.9	19.3
175 to 259 acres.....	14,963	15,348	-385	-2.5	8.1	9.1
260 to 499 acres.....	11,138	12,377	-1,239	-10.0	6.1	7.4
500 to 999 acres.....	3,450	4,100	-650	-15.9	1.9	2.5
1,000 acres and over.....	992	1,100	-108	-9.8	0.5	0.7
White.....	135,904	123,052	12,852	10.4	100.0	100.0
Under 3 acres.....	183	830	-647	-78.2	0.1	0.7
3 to 9 acres.....	10,485	6,598	3,887	58.9	7.7	5.4
10 to 19 acres.....	11,076	9,060	2,016	32.2	8.8	7.4
20 to 49 acres.....	25,050	21,344	4,615	21.6	19.1	17.3
50 to 99 acres.....	29,057	26,262	3,395	12.9	21.8	21.3
100 to 174 acres.....	28,831	28,099	732	2.6	21.2	22.8
175 to 259 acres.....	13,893	14,190	-297	-2.1	10.2	11.5
260 to 499 acres.....	10,008	11,080	-1,072	-9.2	7.8	9.5
500 to 999 acres.....	3,338	3,907	-569	-14.6	2.5	3.2
1,000 acres and over.....	974	1,073	-99	-9.2	0.7	0.9
Colored.....	48,114	44,834	3,280	7.3	100.0	100.0
Under 3 acres.....	44	832	-788	-94.7	0.1	1.9
3 to 9 acres.....	6,079	6,300	679	10.8	14.5	14.0
10 to 19 acres.....	10,079	9,274	805	8.7	20.9	20.7
20 to 49 acres.....	16,431	14,300	2,131	14.9	34.2	31.9
50 to 99 acres.....	8,085	7,086	999	13.0	18.1	17.1
100 to 174 acres.....	4,166	4,367	-201	-4.6	8.7	9.7
175 to 259 acres.....	1,070	1,158	-88	-7.6	2.2	2.6
260 to 499 acres.....	530	607	-107	-24.0	1.1	1.6
500 to 999 acres.....	112	193	-81	-42.0	0.2	0.4
1,000 acres and over.....	18	27	-9	-33.3	(²)	0.1

¹ A minus sign (-) denotes decrease. ² Less than one-tenth of 1 per cent.

The following table shows the total and improved acreage and the value of land and buildings for farms of various size groups, consolidating into one group the farms of less than 20 acres (numbering in all 39,746), and also the farms of between 175 and 499 acres (numbering 26,101):

SIZE GROUP.	ALL LAND IN FARMS (ACRES).		IMPROVED LAND IN FARMS (ACRES).		VALUE OF LAND AND BUILDINGS.	
	1910	1900	1910	1900	1910	1900
Total.....	10,495,636	10,307,883	9,870,058	10,094,805	\$532,058,062	\$271,578,200
Under 20 acres.....	397,425	324,257	321,370	293,302	31,523,270	13,012,810
20 to 49 acres.....	1,382,113	1,125,088	894,682	768,129	49,994,078	21,157,740
50 to 99 acres.....	2,648,620	2,370,444	1,495,798	1,349,856	77,392,360	35,006,130
100 to 174 acres.....	4,191,039	4,102,098	2,194,055	2,106,707	108,308,390	55,078,710
175 to 499 acres.....	6,037,154	7,425,185	3,382,003	3,673,059	170,377,481	94,750,180
500 to 999 acres.....	2,216,101	2,610,201	973,035	1,174,125	53,041,674	30,842,410
1,000 acres and over.....	1,773,284	1,936,750	609,115	668,577	41,300,808	21,670,220

The next table shows the per cent distribution by size groups of the items presented in the preceding table, and also of the number of farms.

SIZE GROUP.	PER CENT OF TOTAL.							
	Number of farms.		All land in farms.		Improved land in farms.		Value of land and buildings.	
	1910	1900	1910	1900	1910	1900	1910	1900
Total.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Under 20 acres.....	21.6	19.6	2.0	1.6	3.3	2.6	5.9	4.8
20 to 49 acres.....	23.0	21.2	6.8	5.7	9.1	7.0	9.4	7.8
50 to 99 acres.....	20.8	20.2	13.0	11.0	15.2	13.4	14.5	12.9
100 to 174 acres.....	17.9	19.3	21.5	20.6	22.2	21.8	20.4	20.3
175 to 499 acres.....	14.2	16.5	35.0	37.3	34.3	30.4	32.0	34.9
500 to 999 acres.....	1.9	2.5	11.4	13.1	9.9	11.0	10.0	11.4
1,000 acres and over.....	0.5	0.7	9.1	9.7	6.2	6.0	7.8	8.0

Of the total farm acreage of the state in 1910, 35.6 per cent was in farms of 175 to 499 acres and 21.5 per cent in farms of 100 to 174 acres, these two being from the standpoint of aggregate acreage the most important size groups. Between 1900 and 1910 there was an increase in the proportion of the total acreage in farms of less than 175 acres and a corresponding decrease in farms of 175 acres and more.

As shown by the next table, the percentage of farm land improved diminishes as the average size of the farms increases. For this reason and also because buildings have normally a higher value in proportion to farm acreage on small than on large farms, the average value of land and buildings per acre of land also diminishes with the increase in the size of the farms; it is much higher for the farms under 20 acres in size than for those of any other group.

SIZE GROUP.	PER CENT OF FARM LAND IMPROVED.		AVERAGE VALUE OF LAND AND BUILDINGS.			
	1910	1900	Per farm.		Per acre.	
			1910	1900	1910	1900
Total.....	50.6	50.7	\$2,891	\$1,618	\$27.29	\$13.64
Under 20 acres.....	80.9	81.2	793	305	70.32	40.13
20 to 49 acres.....	67.2	68.2	1,170	504	37.63	18.79
50 to 99 acres.....	59.5	56.8	2,018	1,033	20.21	14.74
100 to 174 acres.....	52.4	53.5	3,281	1,607	25.80	13.42
175 to 499 acres.....	48.8	49.5	6,528	3,417	24.50	12.76
500 to 999 acres.....	43.9	44.9	15,374	7,523	23.93	11.79
1,000 acres and over.....	34.4	34.5	41,725	19,700	23.34	11.10

Color and nativity of farmers: 1910.—Prior to the Thirteenth Census no attempt was made to secure information on the farm schedules concerning the nativity of farmers. The table which follows shows the color and nativity of farm operators by character of tenure for 1910:

COLOR AND NATIVITY.	FARM OPERATORS.							
	Total.		Owners.	Tenants.	Managers.	Per cent of total.		
	Number.	Per cent distribution.				Own-ers.	Ten-ants.	Man-agers.
Total.....	184,018	100.0	133,664	48,729	1,625	72.6	26.5	0.9
Native white.....	134,155	72.9	99,862	32,884	1,409	74.4	24.5	1.1
Foreign-born white.....	1,749	1.0	1,574	139	36	90.0	7.9	2.1
Negro and other nonwhite.....	48,114	26.1	32,228	15,700	180	67.0	32.0	0.4

Of the farmers in Virginia, 135,904, or 73.9 per cent, were whites and 48,114, or 26.1 per cent, nonwhites. All

but 1,749 of the white farmers were native born. Of the nonwhite farmers, nearly all, 48,039, were negroes, only 74 being Indians, and 1 a Chinese. Of the native white farmers, 24.5 per cent were tenants; of the foreign-born, only 7.9 per cent. Among the nonwhite farmers the tenants constituted nearly one-third (32.6 per cent) of the total number.

Of the 1,749 foreign-born white farmers in Virginia in 1910, 436 were born in Germany, 348 in England, 187 in Austria, 145 in Canada, 112 in Ireland, 93 in Hungary, 93 in Scotland, and 63 in Norway. Other European countries were represented by a total of 245 farmers, and non-European countries, other than Canada, by 27.

DOMESTIC ANIMALS, POULTRY, AND BEES.

Domestic animals on farms: 1910.—The census of 1910 was taken as of April 15 and that of 1900 as of June 1. Since a great many domestic animals are born during the six weeks between April 15 and June 1, and on the other hand a considerable number of older animals are slaughtered or die during the same period, the numbers of the different classes of animals for the two censuses are not closely comparable, and the same is true in somewhat less degree of the values. For this reason the figures for 1900 are not presented in this bulletin, but in the general reports of the census the figures for the several states will be presented and the extent to which their comparability is affected by the change in the date of enumeration will be discussed.

The next table summarizes the statistics of domestic animals on farms for the state, recorded as of April 15, 1910. Cattle and sheep are divided into age and sex groups, while horses, mules, and swine are presented by age groups only.

Of the total number of farms enumerated, 175,819, or 95.5 per cent, report domestic animals of some kind, the number without any domestic animals being 8,199.

Cattle are reported by 83.6 per cent of all farms, "dairy cows" by 80.7 per cent, and "other cows" by only 15.2 per cent. The average number of "dairy cows" per 100 farms reporting is only 240, as compared with a corresponding average of 313 for cows kept for other than dairy purposes.

The total number of cows and heifers increased considerably between 1900 and 1910, offsetting the decrease in steers and bulls and calves. In 1900 the census was taken as of June 1, after all the spring calves were born, while that of 1910 was taken as of April 15, before the close of the calving season and when the calves on hand were on the average younger than at the enumeration of 1900. As a result, the number of calves reported decreased from 162,053 to 83,926, and their average value from \$7.86 to \$7.54.

Horses are reported by 69.4 per cent of all the farms in the state, yearlings by 11.5 per cent, and spring colts by 5.3 per cent. The average value of mature horses is more than double that reported in 1900. Mules are reported by 16.7 per cent of the farms, the number reported being equal to 18.2 per cent of the number of horses and colts.

Sheep and lambs are reported from only 21,514 farms, or 11.7 per cent of the total, whereas 14.7 per cent of all farms reported sheep in 1900. Of these

21,514 farms, 89.3 per cent report spring lambs, the number of lambs equaling 88.6 per cent of the number of ewes. The average flock in the state, including all classes of sheep and lambs, numbers 37, and the number of ewes averages 20 per farm reporting.

Of all farms, 76.2 per cent report swine, the average number being about six per farm reporting. Because of the early date of enumeration, only a little more than one-fourth of the farms report spring pigs. The average value of the swine reported under the head of "hogs and pigs born before January 1, 1910," is \$6.66, while that of spring pigs is \$2.43.

AGE AND SEX GROUP.	FARMS REPORTING.		ANIMALS.		
	Number.	Per cent of all farms.	Number.	Value.	Average value.
Total.....	175,819	95.5	.....	\$71,102,843	.....
Cattle.....	153,772	83.6	859,007	21,124,071	\$24.59
Dairy cows (cows and heifers kept for milk, born before Jan. 1, 1900).....	148,565	80.7	350,284	10,285,422	28.87
Other cows (cows and heifers not kept for milk, born before Jan. 1, 1900).....	28,055	15.2	87,097	1,780,833	20.41
Heifers born in 1900.....	40,132	25.1	94,700	1,232,807	13.02
Calves born after Jan. 1, 1910.....	50,322	27.8	83,020	633,193	7.54
Steers and bulls born in 1900.....	21,704	11.8	73,397	1,272,542	17.34
Steers and bulls born before Jan. 1, 1900.....	25,425	13.8	160,497	5,802,624	30.15
Unclassified cattle.....	00	(1)	2,557	107,650	42.10
Horses.....	127,758	69.4	330,424	34,857,010	105.49
Mares, stallions, and geldings born before Jan. 1, 1900.....	120,694	69.0	288,859	32,552,071	112.70
Colts born in 1900.....	21,220	11.5	20,072	1,891,580	63.11
Colts born after Jan. 1, 1910.....	0,007	5.3	11,593	413,050	35.63
Mules.....	30,688	16.7	60,022	7,595,518	126.55
Mules born before Jan. 1, 1900.....	29,106	15.0	50,016	7,337,186	130.08
Mule colts born in 1900.....	2,092	1.1	3,170	224,665	70.84
Mule colts born after Jan. 1, 1910.....	710	0.4	830	33,705	40.39
Asses and burros.....	450	0.2	783	121,654	155.37
Swine.....	140,176	76.2	797,635	4,165,680	5.22
Hogs and pigs born before Jan. 1, 1910.....	125,059	68.4	520,328	3,507,001	6.60
Pigs born after Jan. 1, 1910.....	46,047	25.4	271,307	658,679	2.43
Sheep.....	21,514	11.7	804,873	3,300,028	4.10
Ewes born before Jan. 1, 1910.....	21,005	11.4	413,273	2,022,836	4.89
Rams and wethers born before Jan. 1, 1910.....	11,570	6.3	25,440	154,771	6.08
Lambs born after Jan. 1, 1910.....	10,220	10.4	366,154	1,122,410	3.07
Goats.....	738	0.4	7,327	28,286	3.86

1 Less than one-tenth of 1 per cent.

Poultry on farms: 1910 and 1900.—The number of fowls on Virginia farms increased 1,058,111, or 21 per cent, during the last decade, and their value, \$1,509,194, or 80 per cent. The increase in number is due chiefly

to an increase in the number of chickens, as the numbers of turkeys, ducks, and geese decreased. The increase is also due partly to the reporting of 39,686 fowls belonging to classes not enumerated in 1900.

Out of every 100 farms, about 93 report poultry of some kind. Only 216 of the farms reporting poultry fail to report chickens, and the value of this class of fowls represents 87.6 per cent of the total value of the poultry reported. In 1900 the value of poultry and the number of farms reporting were obtained for the total of all fowls only, and not for each kind as in 1910.

The following table gives the numbers of the various kinds of poultry reported in 1910 and 1900, together with their value and the number of farms reporting each kind in 1910:

KIND.	1910 (April 15)				1900 (June 1)
	Farms reporting.		Number of fowls.	Value.	Number of fowls.
	Number.	Per cent of all farms.			
Total.....	170,207	92.5	9,099,681	\$3,395,982	5,041,470
Chickens.....	169,991	92.4	5,684,703	2,973,874	4,590,311
Turkeys.....	39,023	21.2	148,368	288,008	207,675
Ducks.....	16,500	9.0	94,436	44,584	117,989
Geese.....	12,457	6.8	79,082	52,230	125,495
Guinea fowls.....	11,669	6.3	53,308	19,403	(1)
Pigeons.....	1,771	1.0	39,521	17,503	(2)
All other ³	40	(4)	165	300	(2)

¹Included with chickens.
²Not reported.
³Thirty-five farms report 119 peafowls, valued at \$250; 3 farms report 11 wild geese, valued at \$30; 1 farm reports 15 wild ducks, valued at \$15; and 1 farm reports 20 wild turkeys, valued at \$5.
⁴Less than one-tenth of 1 per cent.

Bees on farms: 1910 and 1900.—The number of farms reporting bees has decreased from 25,744 in 1900 to 22,437 in 1910, or 12.8 per cent. The number of colonies of bees decreased from 139,064 to 104,005, or 25.2 per cent, and their value decreased from \$308,417 to \$302,623, or 1.9 per cent. The average value of bees per farm reporting was \$11.98 in 1900 and \$13.49 in 1910. About twelve farms in every hundred report bees.

The returns for live stock products obtained at the census of 1910, like those for crops, relate to the activities of the calendar year 1909. It is impossible to give a total representing the annual production of live stock products for the reason that, as shown elsewhere, the total value of products from the business of raising domestic animals for use, sale, or slaughter can not be calculated from the census returns. Even if this value could be ascertained and were added to the value of the crops the sum would not correctly represent the total value of farm products, because, as already more fully explained, duplication would result from the fact that part of the crops are fed to the live stock.

Domestic animals not on farms: 1910.—Most of the domestic animals not on farms are found in cities, towns, and villages. Statistics for such animals are shown below. No provision was made by law to secure data pertaining to poultry and bees not on farms. In the table below age groups are omitted for the sake of brevity.

KIND.	Number of inclosures reporting.	ANIMALS.		
		Number.	Value.	Average value.
Total.....	39,873		\$8,835,454	
All cattle.....	22,561	30,661	1,078,182	\$29.41
Dairy cows.....	21,817	27,210	942,406	34.63
Horses.....	17,297	35,908	4,540,316	126.69
Mules.....	1,699	6,629	948,953	143.15
Asses and burros.....	45	71	10,480	147.61
Swine.....	16,266	38,771	236,748	6.11
Sheep.....	168	2,882	9,522	3.30
Goats.....	385	513	2,253	4.39

Horses are by far the most important class of domestic animals not on farms when value is considered, but the number of swine and of cattle (including dairy cows) is greater than the number of horses.

Domestic animals on farms and not on farms: 1910.—The following table gives the total number and value of domestic animals, distinguishing those on farms from those not on farms:

KIND.	DOMESTIC ANIMALS.					
	Total.		On farms.		Not on farms.	
	Num-ber.	Value.	Num-ber.	Value.	Num-ber.	Value.
Total.....		\$78,028,297		\$71,192,843		\$6,835,454
All cattle.....	895,728	22,202,253	859,067	21,124,071	30,661	1,078,182
Dairy cows.....	383,494	11,227,828	356,284	10,285,422	27,210	942,406
Horses.....	366,332	39,406,926	330,424	34,857,610	35,908	4,540,316
Mules.....	66,651	8,544,469	60,022	7,595,516	6,629	948,953
Asses and burros.....	854	132,134	783	121,654	71	10,480
Swine.....	836,406	4,402,428	797,635	4,165,680	38,771	236,748
Sheep.....	807,765	3,309,548	804,873	3,300,020	2,882	9,522
Goats.....	7,840	30,539	7,327	28,286	513	2,253

The total value of all domestic animals in the state in 1910 was \$78,028,000, of which the value of animals not on farms constituted 8.8 per cent.

LIVE STOCK PRODUCTS.

Dairy products: 1909 and 1899.—The next table shows the principal statistics relative to dairy products of farms in 1909, with certain comparative statistics for 1899.

The number of farms reporting dairy cows on April 15, 1910, was 148,565, but only 135,250 reported dairy products in 1909. That there should be this difference is not surprising. Doubtless some farmers who had dairy cows in 1910 had none in 1909, while other farmers neglected to give information for the preceding year, or were unable to do so, perhaps because the farm was then in other hands. Dairy products in general are somewhat less accurately reported than the principal crops. This is particularly the case as

regards the quantity of milk produced. The number of farms which made any report of milk produced during 1909 was 133,192 (somewhat less than the total number reporting dairy products), and the number of dairy cows on such farms on April 15, 1910, was 326,000. The amount of milk reported was 95,555,000 gallons; assuming that there were the same number of cows in 1909 as in 1910, this would represent an average of 293 gallons per cow. In considering this average, however, it should be borne in mind that the quantity of milk reported is probably deficient and that the distinction between dairy and other cows is not always strictly observed in the census returns.

By reason of the incompleteness of the returns for milk produced, the Census Bureau has made no attempt to determine the total value of dairy products for 1909. For convenience a partial total has been presented comprising the reported value of milk and cream sold as such and sold on the butter fat basis and the reported value of butter and cheese made, whether for home consumption or for sale. The total thus obtained for 1909 is \$7,704,000, which may be defined as the total value of dairy products exclusive of milk and cream used on the farm producing.

Less than one-tenth of the milk reported as produced by Virginia farmers in 1909 was sold as such. The butter made on farms in 1909 was valued at \$5,683,000.

	FARMS REPORTING.		Number or quantity.	Unit.	VALUE.	
	Number.	Per cent of all farms.			Total.	Average per unit.
Dairy cows on farms April 15, 1910.....	148,565	80.7	350,284	Head	.....	.....
On farms reporting dairy products in 1909.....	135,250	73.5	333,785	Head	.....	.....
On farms reporting milk produced in 1909.....	133,192	72.4	326,268	Head	.....	.....
Specified dairy products, 1909:						
Milk reported.....			95,555,051	Gals..		
Butter made.....	134,222	72.9	26,651,244	Lbs...	\$5,683,000	\$0.21
Cheese made.....	600	0.3	97,263	Lbs...	9,191	0.09
Milk sold.....	3,837	2.1	8,577,893	Gals..	1,766,468	0.21
Cream sold.....	276	0.1	302,217	Gals..	220,274	0.73
Butter fat sold.....	180	0.1	97,558	Lbs...	25,333	0.26
Butter sold.....	68,288	37.1	7,983,430	Lbs...	1,756,000	0.22
Cheese sold.....	278	0.2	41,012	Lbs...	4,542	0.11
Total receipts from sales, 1909.....					3,772,617	.....
Total value of milk, cream and butter fat sold, and butter and cheese made, 1909.....					7,704,326	.....
Specified dairy products, 1899:						
Butter made.....	110,333	65.7	19,905,830	Lbs...	.....	.....
Cheese made.....	215	0.1	31,607	Lbs...	.....	.....
Butter sold.....			5,238,202	Lbs...	809,314	0.17
Cheese sold.....			24,310	Lbs...	2,388	0.10

Comparisons are made between 1909 and 1899 for but few of the census items relating to dairy products, for the reason that in 1899 estimates were made for farms with incomplete reports, which was not done at the census of 1910. The figures for milk produced and milk sold are particularly affected, but those for butter and cheese are approximately comparable.

The table shows a material increase between 1899 and 1909 in the amount of butter made and a greater relative increase in the production of cheese.

Wool: 1909 and 1899.—The table below gives statistics as to the production of wool on farms, the figures being partly based on estimates: ¹

	Number of farms reporting.	Sheep of shearing age.	WOOL PRODUCED.		
			Fleeces (number).	Weight (pounds).	Value.
Sheep of shearing age on farms April 15, 1910.....	21,137	438,710	.....	.....	.....
Wool produced, as reported, 1909.....	17,167	.....	378,112	1,604,520	\$493,305
On farms reporting sheep, April 15, 1910.....	15,042	305,130	359,292	1,612,345	469,730
On other farms.....	1,225	.....	18,820	82,175	23,575
Total production of wool (partly estimated):			431,694	1,937,252	564,386
1909.....			399,113	2,020,735	409,602
1899.....			32,581	83,483	154,784
Increase, 1899 to 1909 ¹			8.2	—4.1	37.8
Per cent of increase ¹					

¹ A minus sign (—) denotes decrease.

The total number of sheep of shearing age in Virginia on April 15, 1910, was 439,000, representing an increase of 11.9 per cent as compared with the number on June 1, 1900 (392,000). The approximate production of wool during 1909 was 432,000 fleeces weighing 1,937,000 pounds and valued at \$564,000. Of these totals, about one-eighth represents estimates. The number of fleeces produced in 1909 was 8.2 per cent greater than in 1899. The average weight per fleece in 1909 was 4.5 pounds, as compared with 5.1 pounds in 1899, and the average value per pound was 29 cents, as compared with 20 cents in 1899.

Goat hair and mohair: 1909 and 1899.—Although 738 farmers reported 7,327 goats and kids on their farms April 15, 1910, only 79 reported the production of goat hair or mohair during 1909. These farmers reported 2,614 fleeces, weighing 8,047 pounds and valued at \$2,913. Although the production is still unimportant, an increase is shown over that in 1899. Many farmers who have goats do not produce goat hair or mohair, but it is believed that the report is somewhat short of the actual production.

Poultry products: 1909 and 1899.—The next statement gives data relative to the production and sale of eggs and poultry.

¹ Farmers should be able in general to report the production of wool more accurately than that of dairy products. There were, however, 5,195 farmers who reported the possession of 73,580 sheep of shearing age on April 15, 1910, without reporting any wool produced in 1909. Probably in a large proportion of cases this failure was due to the fact that they did not have these sheep, or did not occupy the same farm, during the preceding year. The returns of farms reporting wool in 1909 but no sheep of shearing age on April 15, 1910, would partially make up this deficiency, but it is believed that in many cases enumerators, having found that a farm had no sheep in 1910, omitted the inquiry as to wool produced in 1909 and thus missed more or less wool actually produced. It is a fairly safe assumption that the entire production of wool in 1909 bore the same relation to the entire number of sheep of shearing age on April 15, 1910, as the production of wool on those farms reporting both production and sheep bore to the number of sheep reported on such farms. Statistics for this group of farms are given in the table, and the total wool product, estimated on the basis of the above assumption, is also given.

	Number of farms reporting.	Number of fowls on hand.	PRODUCT.	
			Quantity.	Value.
Fowls on farms April 15, 1910	170,207	6,089,581	.....	.....
On farms reporting eggs produced in 1909	157,507	5,847,551	.....	.....
On other farms	12,700	262,030	.....	.....
Eggs produced, as reported, 1909	156,921	.....	.....	.....
Total production of eggs (partly estimated):			.....	.....
1909			35,100,693	6,882,270
1899			25,550,460	2,836,890
Increase, 1899 to 1909			9,550,233	4,045,377
Per cent of increase			37.4	142.6
Eggs sold, as reported, 1909	135,389	.....	21,113,160	4,180,530
Fowls on farms April 15, 1910:				
On farms reporting poultry raised in 1909	156,112	5,810,338	.....	.....
On other farms	14,095	289,243	.....	.....
Poultry raised, as reported, 1909	159,834	.....	.....	.....
Total poultry raised (partly estimated):			.....	.....
1909			16,200,508	6,145,236
1899			3,744,654	2,400,582
Increase, 1899 to 1909			12,455,854	3,744,654
Per cent of increase			334.1	155.9
Fowls sold, as reported, 1909	115,108	.....	6,069,990	2,066,705

The total number of fowls on Virginia farms on April 15, 1910, was 6,100,000. Of the 170,207 farms reporting fowls, 12,700 did not report any eggs produced in 1909, and 14,095 did not report any poultry raised in 1909. The production of eggs actually reported for the year 1909 was 33,545,000 dozens, valued at \$6,577,000. According to the Twelfth Census reports, the production of eggs in 1899 was 25,550,000 dozens, the value being \$2,837,000. The latter figures, however, are somewhat in excess of the actual returns at that census, because they include estimates made to cover those cases where the schedules reported fowls on hand without reporting the production of eggs. In order to make the returns for 1909 comparable with those published for 1899 similar estimates have been made, the method of estimate and the justification therefor being substantially the same as in the case of wool. The total production of eggs in 1909, including these estimates, was 35,101,000 dozens, valued at \$6,882,000. The total production of poultry in 1909, including estimates made on the same basis as for eggs, was 16,291,000 fowls, valued at \$6,145,000.

Honey and wax: 1909.—Although, as noted elsewhere, 22,437 farms reported 104,005 colonies of bees on hand April 15, 1910, 8,670 of these farms, with 22,468 colonies on hand April 15, 1910, made no report of honey or wax produced in 1909. The actual returns show the production of 1,344,360 pounds of honey, valued at \$167,971, and 23,883 pounds of wax, valued

at \$5,956; the true totals are doubtless somewhat above these figures.

Sale or slaughter of domestic animals on farms: 1909 and 1899.—The following statement presents statistics relating to the sale or slaughter of domestic animals by Virginia farmers during the year 1909, with certain items for 1899:

	FARMS REPORTING.		Number of animals.	VALUE.	
	Number.	Percent of all farms.		Total.	Average.
1909—All domestic animals:					
Sold				\$20,124,957	.....
Slaughtered				8,857,649	.....
Calves:					
Sold	49,124	26.7	119,002	1,023,012	\$8.60
Slaughtered	2,023	1.1	6,086	42,671	8.30
Other cattle:					
Sold	41,915	22.8	314,925	11,007,993	34.95
Slaughtered	8,487	4.6	20,058	489,315	24.40
Horses:					
Sold	15,148	8.2	31,878	3,700,333	116.08
Mules:					
Sold	3,374	1.8	7,021	871,541	124.13
Asses and burros:					
Sold	50	(1)	115	8,420	73.22
Swine:					
Sold	30,957	16.8	293,493	1,578,588	5.38
Slaughtered	127,841	69.5	537,797	8,283,800	15.40
Sheep:					
Sold	11,807	6.4	410,025	1,925,014	4.69
Slaughtered	2,580	1.4	9,185	40,955	4.40
Goats:					
Sold	101	0.1	1,994	10,056	5.04
Slaughtered	57	(1)	168	818	4.87
1899—All domestic animals:					
Sold				7,800,124	.....
Slaughtered				5,859,531	.....

¹ Less than one-tenth of 1 per cent.

² Schedules called for receipts from sales of animals raised on the farms reporting.

The total value of domestic animals sold during 1909 was \$20,125,000, and that of animals slaughtered on farms \$8,858,000, making an aggregate of \$28,983,000. This total, however, involves considerable duplication, resulting from the resale or slaughter of animals which had been purchased by the farmers during the same year.

The value of the cattle (including calves) sold during 1909 represented about three-fifths of the total value of animals sold, and the value of horses sold represented somewhat less than one-fifth of the total.

The census of 1900 called for the receipts from the sale of all domestic animals raised on the farms reporting and the value of those slaughtered during 1899, which amounted, respectively, to \$7,800,000 and \$5,860,000. The item of sales is not closely comparable with that for 1909, when the inquiry covered all sales whether of animals raised on the farms reporting or elsewhere. It is believed, however, that in many cases the returns for 1899 also included receipts from sales of animals not actually raised on the farms reporting.

CROPS.

Summary: 1909 and 1899.—The next table summarizes the census data relative to all of the farm crops of 1909 and 1899. It includes not only general farm crops, but also flowers and plants, nursery products, and forest products of farms. In comparing one year with the other it should be borne in mind that acreage is on the whole a better index of the general

changes or tendencies of agriculture than either the quantity or the value of the crops, since variations in quantity may be due largely to temporarily favorable or unfavorable climatic conditions, and variations in the value of the crops are largely affected by changes in prices. (See also discussion of "Total value of farm products.")

	ACRES.				PER CENT OF IMPROVED LAND OCCUPIED.		VALUE OF PRODUCTS.					
	1909	1899	Increase. ¹		1909	1899	1909	1899	Increase. ¹		Per cent of total.	
			Amount.	Per cent.					Amount.	Per cent.	1909	1899
All crops.....						\$100,531,157	\$58,701,742	\$41,820,415	71.3	100.0	100.0	
Crops with acreage reports.....	4,256,226	4,345,837	-89,311	-2.1	43.1	43.1	86,434,230	52,100,608	34,333,631	65.0	86.0	88.8
Cereals.....	2,841,114	3,166,332	-325,218	-10.3	28.8	31.4	39,993,920	23,750,479	10,234,450	68.3	30.8	40.5
Other grains and seeds.....	102,180	145,541	16,639	11.4	1.6	1.4	4,430,384	2,545,743	1,884,641	74.0	4.4	4.3
Hay and forage.....	773,577	612,982	100,015	20.2	7.8	0.1	10,256,998	7,670,082	2,586,916	33.7	10.2	13.1
Tobacco.....	185,427	184,334	1,093	0.6	1.9	1.8	12,160,080	7,210,195	4,948,891	68.8	12.1	12.3
Cotton (including cotton seed).....	25,147	25,721	-577	-2.2	0.3	0.3	822,207	381,548	440,719	115.5	0.8	0.6
Sugar crops.....	8,308	8,039	269	3.3	0.1	0.1	224,094	190,915	27,179	13.8	0.2	0.3
Sundry minor crops.....	115	1,762	-1,647	-93.5	(²)	(²)	4,002	34,575	-29,013	-86.5	(²)	0.1
Potatoes and sweet potatoes and yams.....	127,705	91,702	30,003	39.3	1.3	0.9	8,349,029	4,214,815	4,134,214	98.1	8.3	7.2
Other vegetables.....	124,354	99,002	25,352	25.6	1.3	1.0	8,989,407	4,808,450	4,181,008	84.0	8.9	8.3
Flowers and plants and nursery products.....	944	1,343	-399	-29.7	(²)	(²)	522,480	453,700	68,780	15.2	0.5	0.8
Small fruits.....	7,295	8,796	-1,501	-17.1	0.1	0.1	671,843	705,067	-33,254	-12.2	0.7	1.3
Crops with no acreage reports.....												
Seeds.....						14,096,918	6,601,134	7,495,784	113.6	14.0	11.2	
Fruits and nuts.....						80,562	43,084	30,578	63.2	0.1	0.1	
Maple sugar and sirup.....						3,770,401	2,755,487	1,015,004	30.8	3.8	4.7	
Forest products of farms.....						12,233	3,350	8,883	265.2	(²)	(²)	
Miscellaneous.....						10,118,851	3,797,116	6,321,735	166.5	10.1	6.5	
						114,781	1,107	113,584	9,488.7	0.1	(²)	

¹ A minus sign (-) denotes decrease.

² Less than one-tenth of 1 per cent.

³ Includes value of raisins and other dried fruits, wine, cider, vinegar, etc.

The total value of crops in 1909 was \$100,531,000. Of this amount, 86 per cent was contributed by crops for which the acreage as well as the value was reported, the remainder consisting of the value of by-products (straw, garden and grass seeds, etc.) derived from the same land as other crops reported, or of orchard fruits, nuts, forest products, and the like. The combined acreage of crops for which acreage was reported was 4,256,226, representing 43.1 per cent of the total improved land in farms (9,870,058 acres). Most of the remaining improved land doubtless consisted of improved pasture, land lying fallow, house and farm yards, and land occupied by orchards and vineyards, the acreage for which was not reported.

The general character of Virginia agriculture is indicated by the fact that about two-fifths (39.8 per cent) of the total value of crops in 1909 was contributed by the cereals, about one-sixth (17.2 per cent) by potatoes and other vegetables, about one-eighth (12.1 per cent) by tobacco, and about one-tenth (10.2 per cent and 10.1 per cent, respectively) by hay and forage and by forest products. The remainder, representing 10.6 per cent of the total, consisted mostly of grains and seeds, other than cereals, and fruits and nuts.

The value of crops in 1909 was 71.3 per cent greater than in 1899, this increase being no doubt due in part to higher prices. There was a decrease of 2.1 per cent in the total acreage of crops for which acreage was reported, the greatest absolute decrease being that in the acreage of cereals, and the greatest absolute increase that in the acreage of hay and forage.

General farm crops, minor grains and seeds, and sundry minor crops: 1879 to 1909.—The table in the next column presents statistics for 1909 regarding cereals, other grains and seeds, hay and forage, potatoes, tobacco, cotton, and sundry minor crops.

CROP.	Farms report- ing.	Acres harvested.	QUANTITY.		Value.
			Amount.	Unit.	
Cereals, total.....		2,841,114	50,283,074	Bu...	\$39,993,920
Corn.....	163,680	1,800,350	38,295,141	Bu...	28,885,944
Oats.....	30,300	204,455	2,884,495	Bu...	1,600,073
Wheat (common winter).....	63,405	692,007	8,076,980	Bu...	8,770,061
Broom and spelt.....	8	52	795	Bu...	770
Barley.....	2,657	9,899	253,649	Bu...	179,712
Buckwheat.....	5,964	25,481	332,222	Bu...	190,190
Rye.....	8,509	47,890	438,345	Bu...	344,241
Kafir corn and milo maize.....	33	80	1,438	Bu...	1,032
Other grains and seeds with acreage report, total.....		162,180	4,381,413	Bu...	4,430,384
Dry edible beans.....	7,060	24,777	20,435	Bu...	61,894
Soy beans.....	0	29	415	Bu...	695
Stock beans.....	5	43	520	Bu...	555
Dry peas.....	4,462	212,001	60,488	Bu...	127,211
Peanuts.....	12,927	145,213	4,284,340	Bu...	4,239,832
Seeds with no acreage report, total.....					80,562
Timothy seed.....	252	(³)	3,551	Bu...	13,010
Clover seed.....	174	(³)	1,811	Bu...	12,714
Alfalfa seed.....	1	(³)	5	Bu...	20
Millet seed.....	17	(³)	1,234	Bu...	7,498
Other tame grass seed.....	822	(³)	37,433	Bu...	45,828
Flower and garden seeds.....	17	(³)			5,583
Hay and forage, total.....	79,087	773,577	823,383	Tons.	10,256,998
Timothy alone.....	15,470	103,325	160,881	Tons.	2,312,573
Timothy and clover mixed.....	32,063	358,176	360,744	Bu...	4,085,910
Clover alone.....	12,007	54,016	63,050	Tons.	840,747
Alfalfa.....	706	3,120	7,203	Tons.	109,400
Millet or Hungarian grass.....	3,306	11,434	14,580	Tons.	177,674
Other tame or cultivated grasses.....	11,660	97,073	94,162	Tons.	1,139,985
Wild, salt, or prairie grasses.....	1,350	8,240	8,294	Tons.	79,050
Grains cut green.....	0,870	55,173	56,180	Tons.	686,050
Conse forage.....	2,407	22,060	43,230	Tons.	224,574
Root forage.....	26	15	44	Tons.	420
Potatoes.....	106,409	86,027	8,770,778	Bu...	5,667,557
Sweet potatoes and yams.....	67,506	40,838	5,270,202	Bu...	2,681,472
Tobacco.....	44,472	185,427	132,979,390	Lbs.	12,169,086
Cotton.....	5,283	25,147	10,480	Bales	695,721
Cotton seed (estimated).....			5,240	Tons.	126,546
Sundry minor crops, total.....		115			4,662
Broomcorn.....	665	107	46,016	Lbs.	3,586

¹ Includes small amounts of flaxseed and sorghum cane seed.

² A considerable amount of this acreage is probably a duplication of other crop acreage.

³ The entire acreage from which these seeds were secured is believed to be included in the acreage given elsewhere for hay and forage, flowers and plants, etc.

⁴ Includes small amounts of hemp, hops, and ginseng.

The leading crops covered by the table, in the order of their importance as judged by value, are corn,

\$28,886,000; tobacco, \$12,169,000; hay and forage, \$10,257,000; wheat, \$8,776,000; potatoes, \$5,668,000; peanuts, \$4,240,000; and sweet potatoes and yams, \$2,681,000. It should be noted, however, that some of the crops, statistics for which are reported elsewhere, are more important than any included in this table, except corn, tobacco, and hay and forage.

The total acreage and value of the cereals are nearly four times as great as those of hay and forage. Among the cereals corn ranks first, representing about two-thirds of their total acreage and five-sevenths of their total value. In both acreage and value wheat, oats, rye, buckwheat, and barley follow in the order named.

"Timothy and clover mixed" constitutes nearly one-half of the entire hay and forage crop and ranks first both in acreage harvested and in value of the crop. "Timothy alone" ranks second, with an acreage and value slightly less than one-half as great as those of "timothy and clover mixed." "Other tame or cultivated grasses" is third in both acreage and value, while "grains cut green" is fourth in acreage but fifth in value, and "clover alone" is fifth in acreage and fourth in value.

Outside of cereals and hay and forage, tobacco, potatoes, peanuts, sweet potatoes and yams, and cotton are of importance, ranking, from the standpoint of value, in the order named. The acreage of tobacco exceeds the acreage of potatoes, sweet potatoes and yams, and cotton combined, while the value of the tobacco crop is about one and a third times as great as the combined value of these crops, about one-third as great as that of all cereals, and greater than that of the entire hay and forage crop.

The fluctuations in the acreages of some of the principal crops during the past 30 years are shown in the following table:

CROP YEAR.	ACRES HARVESTED.					
	Corn.	Oats.	Wheat.	Peanuts.	Hay and forage.	Tobacco.
1909.....	1,860,359	204,455	692,907	145,213	773,577	185,427
1899.....	1,910,085	275,394	927,266	116,914	612,952	184,334
1889.....	1,600,630	495,508	737,510	58,962	604,857	110,579
1879.....	1,768,127	503,443	601,177	(1)	336,289	140,791

¹ Not reported.

The acreage of corn harvested has increased slightly during the 30-year period, taken as a whole, although it has fluctuated during the period and shows a small decrease for the last 10 years. Throughout the whole period the acreage in oats has decreased steadily, being in 1909 less than three-eighths as great as in 1879. The acreage of wheat shows a decrease for the first decade covered by the table, a substantial increase for the second, and a marked decrease for the third.

The movement in the acreage of hay and forage is directly converse to that of oats, the actual decrease in the acreage in oats since 1879 approximating five-

sixths of the actual increase in that of hay and forage. The acreage of tobacco shows a decrease for the first decade and increases for those succeeding, while the acreage of peanuts shows a substantial increase since the crop was first reported, in 1889.

The following table shows for 1909 and 1899 the percentage which the farms reporting specified crops represented of all farms, the percentage of improved land devoted to these crops, and the percentage of increase or decrease in the acreage of each crop during the decade, together with the average yields and average values per acre for 1909:

CROP.	PER CENT OF FARMS REPORTING.		PER CENT OF IMPROVED LAND.		Per cent of increase in acres, 1899 to 1909. ¹	AVERAGE YIELD PER ACRE.	AVERAGE VALUE PER ACRE.
	1909	1899	1909	1899		1909	1909
Corn.....	89.0	93.3	18.8	18.0	-2.0	20.6 Bu.	\$15.53
Oats.....	19.7	25.6	2.1	2.7	-25.8	14.1 Bu.	7.87
Wheat.....	34.5	46.9	7.0	9.2	-25.3	11.7 Bu.	12.07
Rye.....	4.6	4.2	0.5	0.3	51.9	9.2 Bu.	7.19
Peanuts.....	7.0	6.9	1.5	1.2	24.2	29.5 Bu.	20.20
Hay and forage.....	43.0	60.0	7.8	6.1	26.2	1.06 Tons.	13.28
Potatoes.....	57.9	49.9	0.9	0.6	70.4	100.9 Bu.	65.20
Sweet potatoes and yams.....	36.7	40.0	0.4	0.4	0.4	129.1 Bu.	65.06
Tobacco.....	24.2	26.7	1.9	1.8	0.6	717.2 Lbs.	65.63
Cotton.....	2.0	2.8	0.3	0.3	-2.2	0.42 Bales.	27.07

¹ A minus sign (-) denotes decrease.

Out of every 100 farms, 89 report corn; 58, potatoes; 43, hay and forage; 37, sweet potatoes and yams; 35, wheat; 24, tobacco; 20, oats; 7, peanuts; 5, rye; and 3, cotton. Of these proportions, those for potatoes, rye, peanuts, and cotton represent increases over those for 1899, while those for corn, hay and forage, sweet potatoes and yams, wheat, tobacco, and oats represent decreases.

The 10 crops included in the above table cover about 41 per cent of the total improved land of the state. The proportions of improved land occupied respectively by corn, wheat, and oats decreased between 1899 and 1909, while the proportions reported for rye, peanuts, hay and forage, potatoes, and tobacco increased, and those for sweet potatoes and yams and cotton remained unchanged. The decrease during the decade in the acreage of the cereals was 325,218, or 10.3 per cent, and the increase in that of hay and forage 160,615, or 26.2 per cent.

The average value per acre of the combined cereals is \$14.08, corn exceeding this average, and oats, wheat, and rye falling below it. The average value per acre of the hay and forage crop is less by \$0.82 than that of the combined cereals, and only about one-fifth that of potatoes. Potatoes, sweet potatoes and yams, and tobacco have approximately the same average value per acre.

Although the decrease from 1899 to 1909 in the acreage of corn was fairly general, several scattered groups of counties, ranging in number from 3 to 15, report increases. Large acreages of corn are reported principally for counties scattered through the central and south central sections of the state.

A decrease of nearly 26 per cent in the acreage of oats is reported. Most of the counties in the southwestern, southern, central, and eastern parts of the state contribute to this decrease. About one-sixth of the total acreage is reported for four counties—Bedford, Halifax, Pittsylvania, and Franklin—a group in the south central part of the state. The acreage of wheat shows a marked decrease throughout the state. Slight increases, however, are reported for Patrick and Henry Counties, on the southern border, and for a group of small counties along the southwestern shore of Chesapeake Bay. Five counties—Augusta, Rockingham, Shenandoah, Rockbridge, and Frederick—in the Shenandoah Valley, report one-fourth of the total acreage.

Hay and forage shows an increase in acreage throughout all sections of the state, 10 counties in the eastern part being the only ones which show decreases. Tobacco is reported principally for counties lying in the southern and southeastern sections. Nearly four-fifths of the total acreage is reported by a compact group of 13 counties in the south central part of the state. The total acreage for the counties reporting small acreages has decreased, but it has increased on the whole for those reporting large acreages. Approximately 99 per cent of the peanut acreage is reported for a compact group of 10 counties in the southeastern corner of the state, comprising Southampton, Sussex, Nansemond, Prince George, Isle of Wight, Surry, Dinwiddie, Greensville, Brunswick, and Chesterfield. With the exception of Isle of Wight County, all of these counties report substantial increases in acreage. Southampton County harvested an acreage twice as great as that of any other county except Sussex. Of the acreage of potatoes, Accomac and Northampton Counties, on the Eastern Shore, report about three-eighths. More than one-third of the acreage of sweet potatoes and yams is reported for Accomac County. Nearly seven-tenths of the cotton acreage is reported for three counties on the southeastern boundary—Brunswick, Southampton, and Greensville. Nine of the counties reporting cotton are also included among the 10 counties which report practically the entire peanut acreage.

Vegetables, flowers and plants, and nursery products: 1909 and 1899.—The table which follows shows details with regard to vegetables (not including potatoes and sweet potatoes and yams, which appear elsewhere), and also with regard to flowers and plants and nursery products.

In 1909 the total acreage of potatoes and other vegetables was 252,119 and their value \$17,338,496. Excluding (so far as separately reported¹) potatoes and sweet potatoes and yams, the acreage of vegetables was 124,354 and their value \$8,989,000, both acreage and value being materially greater than in 1899.

¹ It is probable that some of the potatoes and sweet potatoes and yams raised in farm gardens were not reported separately by farmers, but were included in their returns for vegetables.

The raising of flowers and plants and of nursery products was also of some importance in Virginia, 944 acres being devoted to them in 1909 and the output being valued at \$522,480. Most of the product was raised on farms where these branches of agriculture were carried on as an important business.

CROP.	FARMS REPORTING, 1909		ACRES.		VALUE OF PRODUCTS.	
	Number.	Per cent of all farms.	1909	1899	1909	1899
Vegetables, other than potatoes and sweet potatoes and yams, total.	1155,652	84.0	124,354	90,002	\$8,989,467	\$4,868,450
Farms reporting product of \$500 or over.	1,116	0.6	10,512	.....	1,875,024	.....
All other farms.....	154,536	84.0	104,842	.....	7,113,843	.....
Flowers and plants, total.	163	0.1	375	143	362,488	238,712
Farms reporting a product of \$250 or over.....	72	(?)	.....	.....	354,771	.....
All other farms.....	91	(?)	.....	.....	7,717	.....
Nursery products, total..	60	(?)	509	1,200	160,092	214,988
Farms reporting a product of \$250 or over.....	29	(?)	.....	.....	155,375	.....
All other farms.....	40	(?)	.....	.....	4,017	.....

¹ Does not include 8,433 farms which reported that they had vegetable gardens, but gave no information as to their products.
² Less than one-tenth of 1 per cent.

Small fruits: 1909 and 1899.—The following table shows data with regard to small fruits on farms:

CROP.	Number of farms reporting, 1909	ACRES.		Quantity (quarts), 1909	Value, 1909
		1909	1899		
Small fruits, total.....	.....	7,295	8,796	11,342,980	\$671,843
Strawberries.....	4,651	0,000	7,821	10,701,381	626,049
Blackberries and dewberries...	1,580	344	444	273,551	10,485
Raspberries and loganberries...	1,121	270	365	267,322	24,853
Currants.....	205	6	39	8,127	791
Gooseberries.....	239	22	00	23,447	1,009
Cranberries.....	2	40	.....	18,112	1,050
Other berries.....	2	2	01	1,040	100

Strawberries are by far the most important of the small fruits raised in Virginia, with blackberries and dewberries ranking second in quantity and third in value, while raspberries and loganberries are third in quantity, but second in value. The total acreage of small fruits in 1909 was 7,295 and in 1899, 8,796, a decrease of 17.1 per cent. The production in 1909 was 11,343,000 quarts, as compared with 13,474,000 quarts in 1899, and the value was \$672,000 in 1909, as compared with \$765,000 in 1899.

Orchard fruits, grapes, nuts, and tropical fruits: 1909 and 1899.—The next table presents data with regard to orchard fruits, grapes, nuts, and tropical fruits. The acreage devoted to these products was not ascertained. In comparing one year with the other the number of trees or vines of bearing age is on the whole a better index of the general changes or tendencies than the quantity of product, but the data for the censuses of 1910 and 1900 are not closely comparable, and the product is therefore compared, although variations may be due largely to temporarily favorable or unfavorable climatic conditions.

CROP.	TREES OR VINES OF BEARING AGE, 1910		TREES OR VINES NOT OF BEARING AGE, 1910		PRODUCT.		
	Farms reporting.	Number.	Farms reporting.	Number.	1909		1899
					Quantity. ¹	Value.	Quantity. ¹
Orchard fruits, total	9,609,799		4,631,587		6,581,101	\$3,582,359	10,497,401
Apples.....	115,881	7,004,548	61,499	3,435,591	6,103,941	3,129,832	9,835,982
Peaches and nectarines.....	63,172	1,585,505	29,415	780,551	243,446	227,141	357,339
Pears.....	55,122	457,177	29,354	265,083	74,480	63,424	88,400
Plums and prunes.....	28,324	171,067	12,582	50,127	22,597	22,772	21,167
Cherries.....	47,492	362,783	14,008	83,323	132,671	134,428	188,693
Apricots.....	1,029	3,853	814	3,233	515	723	678
Quinces.....	9,547	34,236	3,562	14,679	3,443	4,037	(?)
Mulberries.....	4	10			2	2	(?)
Unclassified.....							\$ 5,142
Grapes.....	27,078	424,701	7,163	136,026	4,108,694	156,266	3,008,903
Nuts, total.....	4 53,184		4 13,964		4 841,572	4 22,161	376,440
Persian or English walnuts.....	371	3,540	194	1,642	22,512	1,231	1,450
Pecans.....	209	868	240	2,337	10,508	1,356	1,540
Black walnuts.....	2,586	23,049	670	9,173	600,141	9,723	(?)
Chestnuts.....	459	25,228	19	531	201,364	9,680	(?)
Unclassified.....							\$ 373,650
Tropical fruits, total.....	5 10,264		5 4,903		5 9,705	5 9,705	
Figs.....	1,480	10,136	508	4,925	234,057	9,632	7,840

¹ Expressed in bushels for orchard fruits and pounds for grapes, nuts, and figs.
² Included with "unclassified."
³ Consists of products not separately named by the enumerator, but grouped under the designation "all other."
⁴ Includes Japanese chestnuts, Spanish chestnuts, hazelnuts, Japanese walnuts, almonds, butternuts, hickory nuts, filberts, and other nuts.
⁵ Includes oranges, lemons, pomeloes (grapefruit), and Japanese persimmons.

The total quantity of orchard fruits produced in 1909 was 6,581,000 bushels, valued at \$3,582,000. Apples contributed more than nine-tenths of this quantity, peaches and nectarines and cherries most of the remainder. The production of grapes in 1909 amounted to 4,109,000 pounds, valued at \$156,000, and that of nuts to 842,000 pounds, valued at \$22,000. The tropical fruits in 1909 were valued at \$9,705.

The production of all orchard fruits together in 1909 was 37.3 per cent less in quantity than that in 1899, while the production of grapes increased materially. The value of orchard fruits increased from \$2,662,000 in 1899 to \$3,582,000 in 1909, and that of grapes from \$88,000 in 1899 to \$156,000 in 1909. It should be noted that the values for 1899 include the value of more advanced products derived from orchard fruits or grapes, such as cider, vinegar, dried fruits, and the like, and may therefore involve some duplication, while the values shown for 1909 relate only to the products in their original condition.

The following table shows the quantities of the more advanced products manufactured by farmers from orchard fruits and grapes. Values were not called for on the schedule.

PRODUCT.	FARMS REPORTING, 1909		QUANTITY PRODUCED.		
	Number.	Percent of all farms.	Unit.	1909	1899
Cider.....	6,377	3.5	Gals....	469,651	1,385,843
Vinegar.....	7,069	4.2	Gals....	208,457	517,041
Wine and grape juice.....	4,767	2.6	Gals....	49,699	41,336
Dried fruits.....	8,918	4.8	Lbs.....	929,546	2,302,480

Sugar crops: 1909 and 1899.—The table below shows data with regard to maple trees and their products, and also for sugar beets and sorghum cane. The total value of sorghum cane and sirup produced in 1909 was \$223,000, as compared with \$197,000 in 1899. On the other hand, there was a very small increase in the number of acres devoted to the production of sorghum cane, being 8,039 in 1899 and 8,288 in 1909. The number of farms reporting decreased while the acreage per farm increased.

PRODUCT.	FARMS REPORTING.		Acres.	PRODUCT.		
	Number.	Percent of all farms.		Amount.	Unit.	Value.
Maple sugar and sirup:						
Total, 1909.....	447	0.2	125,451			\$12,233
Sugar made.....	303	0.2		44,976	Lbs..	6,021
Sirup made.....	387	0.2		6,046	Gals..	6,212
Total, 1899.....	213	0.1				3,350
Sugar made.....				19,310	Lbs..	1,816
Sirup made.....				1,677	Gals..	1,534
Sugar beets, 1909 ²	36	(?)	20	94	Tons..	870
Sorghum cane:						
Total, 1909 ⁴						223,224
Cane grown.....	16,808	9.1	8,288	41,449	Tons..	
Sirup made.....	16,696	9.1		441,180	Gals..	217,634
Total, 1899.....						196,915
Cane grown.....	19,304	11.5	8,039	73,137	Tons..	
Cane sold as such.....				2,320	Tons..	6,012
Sirup made.....				555,321	Gals..	190,903

¹ Number of trees. ² Less than one-tenth of 1 per cent.
³ Used as root forage. ⁴ Includes cane used as coarse forage.

Forest products: 1909 and 1899.—The census schedules for 1910 called for the "value of all firewood, fencing material, logs, railroad ties, telegraph and telephone poles, materials for barrels, bark, naval stores, or other forest products cut or produced in 1909, whether used on farm, sold, or on hand April 15, 1910," and also, in a separate item, for the "amount received from sale of standing timber in 1909." There were 108,718 farms in Virginia (59.1 per cent of all farms in the state) which reported forest products in 1909, the total value of such products being \$10,118,851, as compared with \$3,797,116 in 1899, an increase of 166.5 per cent. Of the value in 1909, \$4,357,699 was reported as that of products used or to be used on the farms themselves, \$4,346,560 as that of products sold or for sale, and \$1,414,592 as the amount received for standing timber. It should be noted that forest products not produced on farms are not included in this report.

Miscellaneous crops: 1909.—Straw and cornstalks derived as by-products from the production of grain and corn have a considerable value for feed and other purposes. They are, however, mainly consumed on the farms producing them. The Census Bureau made no attempt to ascertain the total quantity or value of these products, but the schedules called for the quantity and value of those sold during the year 1909. The returns show that 1,819 farmers in Virginia sold, during 1909, 12,869 tons of straw, for which they received \$74,310, and that 2,306 farmers sold 7,533 tons of cornstalks and leaves, for which they received \$40,471.

SELECTED FARM EXPENSES AND RECEIPTS.

Farm expenses: 1909 and 1899.—The following table shows the number of farms reporting expenditures for labor, feed, and fertilizer:

EXPENSE.	1909		1899	INCREASE.		
	Farms reporting.		Amount.	Amount.	Amount.	Per cent.
	Number.	Per cent of all farms.				
Labor.....	84,636	46.0	\$13,354,194	\$7,790,720	\$5,563,474	71.4
Feed.....	62,267	33.8	3,504,600	(1)		
Fertilizer.....	111,277	60.5	6,932,455	3,081,790	3,260,665	88.3

¹ Not reported at the census of 1900.

Nearly half of the farmers hire labor, the average amount expended by the farmers hiring being \$158. During the decade the total expenditure for labor increased \$5,563,000, or 71.4 per cent. About a fifth of the amount reported as expended for labor is in the form of rent and board. At prior censuses no tabulation was made of the number of farmers reporting expenditures for labor.

About one farmer out of every three reports some expenditure for feed, and about six out of every ten

purchase fertilizer. The total amount reported as paid for fertilizer has increased \$3,251,000, or 88.3 per cent, during the decade, the average per farm reporting being \$62.30.

Receipts from sale of feedable crops: 1909.—An effort was made at the census of 1910 to secure as complete a statement as possible of the sales as well as of the production of the more important feedable crops (that is, crops ordinarily fed to live stock). The following table summarizes the data reported:

CROP.	FARMS REPORTING.		QUANTITY SOLD.		Amount received.
	Number.	Percent of all farms.	Amount.	Unit.	
Total.....					\$3,753,316
Corn.....	26,653	14.2	3,027,677	Bu.....	2,295,666
Oats.....	3,940	2.1	205,656	Bu.....	150,308
Barley.....	248	0.1	13,851	Bu.....	10,310
Hay and coarse forage.....	11,356	6.2	96,131	Tons...	1,290,972

While the total amount expended by Virginia farmers for the purchase of feed in 1909 was \$3,505,000, the total receipts from the sale of feed by those reporting sales amounted to \$3,753,000.

COUNTY TABLES.

Tables 1 to 6, which follow, present by counties the more important agricultural data collected at the Thirteenth Census, 1910.

Table 1 shows the population, number of farms, land and farm area, value of farm property, and number and value of domestic animals and of poultry and bees, as of April 15, 1910. Comparative data for June 1, 1900, are given in italics for certain items.

Table 2 gives the number of farms, the farm acreage, and the value of farm property operated by owners, tenants, and managers, collected as of April 15, 1910. Statistics of farm mortgages are included in this table. (See explanation in text.) Comparative data for June 1, 1900, are given in italics for certain items.

Table 3 gives statistics pertaining to the products or live stock on farms (dairy products, poultry and eggs, honey and wax, and wool and mohair); also the number and value of domestic animals sold or slaughtered on farms for the year 1909.

Table 4 shows the total value of farm crops and the principal classes thereof, together with the acreage (or trees of bearing age) and production of the principal crops for the year 1909.

Table 5 gives statistics relating to selected farm expenses for 1909 and also shows the receipts from the sale of feedable crops.

Table 6 shows the number and value of domestic animals in barns and inclosures not on farms, by classes, together with the number of dairy cows and mature horses and mules, on April 15, 1910.

Territorial changes.—In comparing the data secured in 1910 with those for 1900, the following territorial changes should be considered: Alleghany County included Clifton Forge city until 1906, when it became an independent city; a part of Augusta County was annexed to Staunton city in 1905; a part of Campbell County was annexed to Lynchburg city in 1908; a part of Henrico County was annexed to Richmond city in 1906; parts of Norfolk County were annexed to Norfolk city in 1902 and 1906 and part was annexed to Portsmouth city in 1909; a part of Pittsylvania County was annexed to Danville city in 1907; and Manchester city was annexed to Richmond city in 1910, the data for these cities being consolidated for 1900.

Explanation for 1910 figures.—The figures for Winchester city include reports for 11 farms located outside the city in Frederick County, but operated by residents of the city. Only 12 farms, with a total of about 300 acres, are within the city limits. This condition frequently exists in all parts of the country, but it is often impossible from the reports submitted to locate the farm land exactly, and a few immaterial errors may be accounted for in this way.

TABLE 1.—FARMS AND FARM PROPERTY,

[Comparative data for June 1, 1900, in italics.]

Table with columns for 'THE STATE.' (Total, White, Colored) and counties: Accomac, Albemarle, Alexandria, Alleghany, Amelia. Rows include Population, Number of farms, Color and nativity of farmers, LAND AND FARM AREA, VALUE OF FARM PROPERTY, DOMESTIC ANIMALS (farms and ranges), and POULTRY AND BEES.

1 Territorial change. (See explanation at close of text.)

2 Decrease.

TABLE 1.—FARMS AND FARM PROPERTY,

[Comparative data for June 1, 1900, in italics.]

	Charles City.	Charlotte.	Chesterfield.	Clarke.	Craig.	Culpeper.	Cumberland.	Dickenson.	Dinwiddie.
1 Population.....	5,253	15,785	21,290	7,468	4,711	13,472	9,195	9,199	15,442
2 <i>Population in 1900.....</i>	<i>5,040</i>	<i>15,343</i>	<i>18,804</i>	<i>7,027</i>	<i>4,293</i>	<i>14,123</i>	<i>8,896</i>	<i>7,747</i>	<i>15,374</i>
3 Number of all farms.....	844	2,209	1,897	585	560	1,615	1,520	1,417	2,274
4 <i>Number of all farms in 1900.....</i>	<i>430</i>	<i>1,763</i>	<i>1,404</i>	<i>520</i>	<i>493</i>	<i>1,301</i>	<i>1,390</i>	<i>1,229</i>	<i>2,039</i>
Color and nativity of farmers:									
5 Native white.....	215	1,180	1,178	557	547	1,118	562	1,416	985
6 Foreign-born white.....	7	6	125	3	.....	17	34	1	47
7 Negro and other nonwhite.....	622	1,023	594	25	13	480	924	.....	1,242
Number of farms, classified by size:									
8 Under 3 acres.....	.....	.....	2	4	1	.....	.....	1	3
9 3 to 9 acres.....	124	153	255	45	49	179	85	139	97
10 10 to 19 acres.....	200	256	302	31	22	209	248	122	200
11 20 to 49 acres.....	230	488	433	49	78	296	397	350	558
12 50 to 99 acres.....	98	391	335	71	106	267	251	363	506
13 100 to 174 acres.....	69	487	287	140	124	263	244	272	447
14 175 to 259 acres.....	43	195	118	99	74	165	139	87	216
15 260 to 499 acres.....	48	169	116	121	85	145	110	63	183
16 500 to 999 acres.....	23	57	39	21	17	80	43	13	56
17 1,000 acres and over.....	9	13	10	4	4	11	3	7	8
LAND AND FARM AREA									
18 Approximate land area.....acres.	120,320	317,440	301,440	109,440	213,120	245,760	187,520	208,000	331,520
19 Land in farms.....acres.	80,549	261,221	184,732	106,140	89,525	217,937	162,424	130,499	264,573
20 <i>Land in farms in 1900.....</i>	<i>97,726</i>	<i>255,341</i>	<i>194,489</i>	<i>104,011</i>	<i>86,720</i>	<i>217,528</i>	<i>166,274</i>	<i>158,420</i>	<i>283,752</i>
21 Improved land in farms.....acres.	34,423	94,709	65,047	84,271	42,388	154,750	96,895	40,856	99,390
22 <i>Improved land in farms in 1900.....</i>	<i>35,255</i>	<i>103,368</i>	<i>70,378</i>	<i>82,980</i>	<i>38,655</i>	<i>149,184</i>	<i>74,055</i>	<i>35,657</i>	<i>103,010</i>
23 Woodland in farms.....acres.	44,537	137,346	106,934	19,951	45,690	50,122	81,428	68,624	152,000
24 Other unimproved land in farms.....acres.	1,289	29,166	12,751	1,918	1,547	4,065	14,101	21,010	12,583
25 Per cent of land area in farms.....	66.0	82.3	61.3	97.0	42.0	88.7	86.6	62.7	79.8
26 Per cent of farm land improved.....	42.7	36.3	35.2	79.4	47.3	71.0	41.2	31.3	37.0
27 Average acres per farm.....	95.4	118.3	97.4	181.4	159.9	134.9	106.0	92.1	116.3
28 Average improved acres per farm.....	40.8	42.9	34.3	144.1	76.7	95.8	44.0	28.8	43.7
VALUE OF FARM PROPERTY									
29 All farm property.....dollars.	1,700,511	4,368,027	7,564,549	7,309,228	2,511,417	8,083,365	2,848,759	3,134,008	6,096,312
30 <i>All farm property in 1900.....</i>	<i>927,091</i>	<i>1,918,222</i>	<i>5,313,784</i>	<i>4,052,149</i>	<i>1,564,858</i>	<i>4,899,587</i>	<i>1,348,298</i>	<i>1,320,437</i>	<i>2,200,619</i>
31 Per cent increase, 1900-1910.....	84.4	123.4	128.3	81.0	60.6	104.2	111.3	.....	109.7
32 Land.....dollars.	856,025	2,451,490	4,779,896	4,050,419	1,662,670	5,501,018	1,492,286	2,330,075	3,759,766
33 <i>Land in 1900.....</i>	<i>599,170</i>	<i>890,480</i>	<i>1,919,200</i>	<i>2,795,070</i>	<i>1,079,480</i>	<i>2,627,870</i>	<i>766,080</i>	<i>878,080</i>	<i>1,276,540</i>
34 Buildings.....dollars.	500,329	1,200,299	1,050,327	1,395,740	380,710	1,072,411	854,792	424,742	1,487,813
35 <i>Buildings in 1900.....</i>	<i>200,850</i>	<i>564,690</i>	<i>970,760</i>	<i>696,040</i>	<i>205,600</i>	<i>287,910</i>	<i>344,460</i>	<i>212,600</i>	<i>638,500</i>
36 Implements and machinery.....dollars.	68,540	155,536	216,095	106,403	76,130	254,522	102,861	20,287	200,551
37 <i>Implements, etc., in 1900.....</i>	<i>31,870</i>	<i>73,680</i>	<i>110,230</i>	<i>103,230</i>	<i>32,120</i>	<i>139,520</i>	<i>67,690</i>	<i>17,540</i>	<i>105,250</i>
38 Domestic animals, poultry, and bees.....dollars.	284,608	560,762	618,231	850,666	391,007	1,105,434	398,820	340,904	642,152
39 <i>Domestic animals, etc., in 1900.....</i>	<i>98,191</i>	<i>232,432</i>	<i>307,604</i>	<i>456,909</i>	<i>247,753</i>	<i>707,087</i>	<i>180,038</i>	<i>212,127</i>	<i>296,329</i>
40 Per cent of value of all property in—									
41 Land.....	50.1	56.1	63.2	67.3	66.2	61.9	52.4	74.6	61.7
42 Buildings.....	29.3	27.5	25.8	18.9	15.2	22.0	30.0	13.6	24.4
43 Implements and machinery.....	4.0	3.6	2.9	2.3	3.0	2.8	3.6	0.6	3.4
44 Domestic animals, poultry, and bees.....	16.6	12.8	8.2	11.5	15.0	13.3	14.0	11.2	10.5
45 Average values:									
46 All property per farm.....dollars.	2,025	1,977	3,988	12,597	4,465	5,662	1,874	2,212	2,681
47 Land and buildings per farm.....dollars.	1,607	1,653	3,548	10,858	3,649	4,605	1,544	1,960	2,308
48 Land per acre.....dollars.	10.63	9.38	25.87	46.70	18.57	25.52	9.19	17.62	14.21
49 <i>Land per acre in 1900.....</i>	<i>6.10</i>	<i>8.37</i>	<i>9.37</i>	<i>26.87</i>	<i>12.45</i>	<i>12.08</i>	<i>4.61</i>	<i>5.79</i>	<i>4.50</i>
DOMESTIC ANIMALS (farms and ranges)									
50 Farms reporting domestic animals.....	748	2,123	1,784	571	550	1,537	1,438	1,307	2,118
51 Value of domestic animals.....dollars.	265,610	537,624	576,274	812,120	375,124	1,137,181	378,355	334,850	612,883
Cattle:									
52 Total number.....	2,405	5,844	5,493	² 0,100	5,449	¹⁵ 0,778	4,655	5,350	5,967
53 Dairy cows.....	1,173	3,147	3,725	2,184	1,094	0,652	2,180	2,907	4,019
54 Other cows.....	204	741	463	655	640	1,018	631	380	424
55 Yearling heifers.....	193	675	515	553	671	1,266	509	811	642
56 Calves.....	316	470	500	672	621	1,460	439	728	650
57 Yearling steers and bulls.....	78	242	86	523	227	1,031	227	284	83
58 Other steers and bulls.....	411	569	204	1,519	1,487	4,783	663	240	149
59 Value.....dollars.	68,084	115,559	148,178	² 178,520	142,880	² 400,034	94,590	104,778	129,990
Horses:									
60 Total number.....	670	2,654	2,499	4,232	1,639	4,855	1,709	886	2,545
61 Mature horses.....	577	2,493	2,332	3,301	1,257	4,200	1,560	794	2,411
62 Yearling colts.....	66	121	125	596	205	499	100	54	62
63 Spring colts.....	27	40	42	245	77	159	43	38	42
64 Value.....dollars.	64,244	238,389	258,305	485,984	178,608	514,102	175,091	83,493	300,891
Mules:									
65 Total number.....	643	714	1,016	76	78	781	672	878	832
66 Mature mules.....	616	702	973	75	27	697	606	834	825
67 Yearling colts.....	18	9	30	1	9	69	47	36	5
68 Spring colts.....	9	3	13	.....	26	15	19	8	2
69 Value.....dollars.	91,151	94,475	121,285	9,305	5,070	97,002	78,005	108,950	130,230
Asses and burros:									
70 Number.....	2	1	3	.....	5	5	8	12	2
71 Value.....dollars.	2,500	100	820	.....	2,100	1,005	3,800	1,820	790
Swine:									
72 Total number.....	4,001	7,333	6,301	8,311	2,690	9,484	4,880	4,561	9,752
73 Mature hogs.....	2,706	5,400	3,764	4,665	1,824	6,564	3,802	3,593	6,416
74 Spring pigs.....	1,295	1,933	2,537	3,646	866	2,920	1,078	968	3,336
75 Value.....dollars.	28,345	33,773	41,559	45,840	14,436	50,467	22,748	17,601	47,947
Sheep:									
76 Total number.....	2,089	1,692	1,327	20,484	8,319	13,809	640	6,430	1,060
77 Rams, ewes, and wethers.....	1,319	1,085	858	10,453	4,520	7,416	420	4,310	623
78 Spring lambs.....	770	607	469	10,031	3,799	6,393	220	2,120	437
79 Value.....dollars.	10,457	5,270	5,405	92,413	32,030	67,740	2,340	18,174	3,966
Goats:									
80 Number.....	45	19	187	11	.....	23	.....	8	19
81 Value.....dollars.	229	58	662	67	.....	85	1	25	53
POULTRY AND BEES									
82 Number of poultry of all kinds.....	33,360	44,840	63,025	52,020	25,175	82,840	34,259	26,763	51,094
83 Value.....dollars.	17,814	22,069	30,413	33,662	14,543	55,847	10,803	8,603	28,549
84 Number of colonies of bees.....	234	437	416	1,256	932	740	189	1,643	290
85 Value.....dollars.	1,084	1,009	2,544	4,875	2,240	2,406	662	6,454	720

¹ See explanation for 1910 figures at close of text.

AGRICULTURE—VIRGINIA.

795

BY COUNTIES: APRIL 15, 1910—Continued.

[Comparative data for June 1, 1900, in italics.]

	Powhatan.	Prince Edward.	Prince George.	Prince William.	Princess Anna.	Pulaski.	Rappahannock.	Richmond.	Roanoke.	Rock-bridge.	Rockingham.	Russell.	Scott.	Shenandoah.
1	6,000	14,266	7,848	12,026	11,520	17,246	8,044	7,415	10,623	21,171	34,903	23,474	23,814	20,042
2	<i>6,884</i>	<i>15,045</i>	<i>7,758</i>	<i>11,119</i>	<i>11,102</i>	<i>14,000</i>	<i>8,848</i>	<i>7,088</i>	<i>16,887</i>	<i>21,700</i>	<i>33,527</i>	<i>18,031</i>	<i>22,604</i>	<i>20,258</i>
3	890	1,682	1,091	1,204	1,423	1,089	966	1,098	1,217	1,904	3,528	2,857	3,908	2,288
4	<i>920</i>	<i>1,707</i>	<i>1,134</i>	<i>1,261</i>	<i>1,432</i>	<i>948</i>	<i>977</i>	<i>1,101</i>	<i>1,159</i>	<i>1,970</i>	<i>3,203</i>	<i>2,289</i>	<i>3,435</i>	<i>2,332</i>
5	439	722	403	1,035	903	984	790	750	1,110	1,885	3,452	2,818	3,942	2,280
6	14	36	127	33	23	3	1	8	5	10	7	1	5	4
7	437	924	501	193	497	102	175	340	102	99	60	38	51	4
8	0	85	49	70	140	215	90	1	4	1	3	511	643	211
9	62	204	94	96	140	138	102	81	92	162	410	385	613	235
10	100	409	230	245	454	206	184	100	141	147	331	611	876	463
11	142	365	249	276	331	174	107	312	204	322	447	602	871	563
12	154	308	237	268	254	139	157	255	257	377	330	602	871	563
13	102	158	109	153	61	69	85	158	234	436	724	391	594	430
14	97	114	88	113	33	87	94	70	105	303	336	160	211	230
15	39	31	22	34	7	40	41	35	64	199	188	127	148	118
16	10	8	22	9	7	40	41	14	18	45	47	48	38	32
17	39	31	4	3	3	21	16	6	8	12	12	16	4	6
18	174,720	227,840	188,160	220,800	178,560	213,120	175,360	130,560	192,000	302,320	560,040	317,440	347,520	326,400
19	<i>132,106</i>	<i>180,061</i>	<i>129,263</i>	<i>170,231</i>	<i>102,120</i>	<i>141,981</i>	<i>156,032</i>	<i>94,598</i>	<i>131,005</i>	<i>286,069</i>	<i>363,042</i>	<i>255,924</i>	<i>343,170</i>	<i>231,942</i>
20	<i>144,446</i>	<i>192,716</i>	<i>152,124</i>	<i>174,812</i>	<i>118,529</i>	<i>159,840</i>	<i>175,066</i>	<i>99,870</i>	<i>143,328</i>	<i>265,997</i>	<i>345,855</i>	<i>292,397</i>	<i>297,355</i>	<i>254,696</i>
21	52,010	60,177	62,390	100,180	93,232	98,807	101,004	43,039	74,855	101,710	241,070	155,230	164,593	142,206
22	<i>56,629</i>	<i>81,291</i>	<i>70,225</i>	<i>97,202</i>	<i>71,029</i>	<i>91,397</i>	<i>117,552</i>	<i>48,624</i>	<i>82,000</i>	<i>100,533</i>	<i>240,122</i>	<i>161,365</i>	<i>149,672</i>	<i>140,837</i>
23	74,689	95,755	58,878	65,828	33,129	38,285	50,030	46,858	69,020	101,456	80,279	109,794	109,794	71,313
24	<i>5,498</i>	<i>18,729</i>	<i>7,995</i>	<i>4,923</i>	<i>5,759</i>	<i>4,889</i>	<i>3,480</i>	<i>5,701</i>	<i>6,130</i>	<i>27,340</i>	<i>10,917</i>	<i>20,510</i>	<i>8,783</i>	<i>18,423</i>
25	75.6	79.3	68.7	77.1	57.2	66.0	80.0	72.5	68.2	72.0	64.8	80.0	98.7	71.1
26	39.4	36.0	48.3	58.8	61.9	66.0	65.3	45.5	67.1	65.5	60.0	60.0	48.0	61.3
27	148.4	107.4	118.5	134.7	71.8	130.4	101.5	86.2	107.0	143.5	102.0	80.0	85.8	161.4
28	<i>58.4</i>	<i>39.3</i>	<i>67.2</i>	<i>79.3</i>	<i>44.4</i>	<i>90.7</i>	<i>105.5</i>	<i>39.2</i>	<i>61.5</i>	<i>81.1</i>	<i>68.5</i>	<i>64.3</i>	<i>41.2</i>	<i>62.2</i>
29	3,304,192	3,030,208	2,015,753	5,821,041	4,728,943	8,882,491	4,470,257	1,780,200	7,273,268	0,779,232	23,202,121	11,501,220	10,014,741	12,218,010
30	<i>1,409,551</i>	<i>1,097,086</i>	<i>1,532,447</i>	<i>3,033,817</i>	<i>2,776,040</i>	<i>4,531,534</i>	<i>3,410,869</i>	<i>1,198,483</i>	<i>3,348,003</i>	<i>5,331,238</i>	<i>13,708,200</i>	<i>5,682,115</i>	<i>4,059,093</i>	<i>7,540,352</i>
31	124.8	118.3	90.3	91.9	70.4	93.9	31.1	48.5	123.0	83.4	68.8	103.5	168.9	61.9
32	1,754,902	1,941,052	1,095,200	3,813,288	3,074,201	6,485,073	2,001,407	884,066	5,032,322	6,123,955	14,088,353	8,450,000	8,050,202	7,057,304
33	<i>814,050</i>	<i>850,110</i>	<i>889,300</i>	<i>1,674,400</i>	<i>1,737,950</i>	<i>3,301,150</i>	<i>2,155,690</i>	<i>644,400</i>	<i>2,107,870</i>	<i>3,447,460</i>	<i>8,747,330</i>	<i>3,808,070</i>	<i>2,036,200</i>	<i>4,059,880</i>
34	996,388	1,094,780	602,595	1,523,150	1,079,890	1,301,170	890,313	545,765	1,430,110	5,200,592	2,140,505	1,476,580	1,452,865	2,790,305
35	<i>424,990</i>	<i>683,030</i>	<i>401,540</i>	<i>835,670</i>	<i>606,880</i>	<i>643,990</i>	<i>666,110</i>	<i>331,640</i>	<i>704,100</i>	<i>1,064,340</i>	<i>3,237,110</i>	<i>667,120</i>	<i>676,070</i>	<i>1,805,030</i>
36	217,074	128,060	128,844	199,023	104,910	143,608	131,170	70,817	197,376	300,047	721,440	132,800	157,774	357,374
37	<i>54,490</i>	<i>65,240</i>	<i>69,180</i>	<i>99,100</i>	<i>100,560</i>	<i>92,630</i>	<i>84,870</i>	<i>47,450</i>	<i>106,040</i>	<i>161,200</i>	<i>436,340</i>	<i>73,400</i>	<i>69,300</i>	<i>260,520</i>
38	335,738	474,716	399,024	780,474	400,942	652,640	847,361	279,612	607,460	1,207,765	2,591,730	1,501,222	1,263,840	1,404,027
39	<i>175,421</i>	<i>228,706</i>	<i>175,367</i>	<i>424,647</i>	<i>231,200</i>	<i>562,764</i>	<i>622,199</i>	<i>174,993</i>	<i>389,993</i>	<i>668,168</i>	<i>1,377,420</i>	<i>1,043,525</i>	<i>676,928</i>	<i>771,522</i>
40	53.1	53.4	58.1	50.9	65.0	78.0	58.1	49.7	60.2	62.0	63.1	73.1	73.8	62.7
41	30.2	30.1	23.8	20.2	22.8	14.6	20.1	10.7	10.7	22.0	22.7	12.8	18.3	22.9
42	6.0	3.5	4.4	3.4	3.5	1.0	2.9	4.0	2.7	3.1	3.1	1.1	1.4	2.9
43	10.2	13.0	13.7	13.5	8.7	10.7	18.9	15.7	8.4	12.3	11.1	13.0	11.5	11.5
44	3,713	2,104	2,073	4,066	3,323	8,157	4,037	1,021	5,976	4,004	6,002	4,047	2,780	5,340
45	3,001	1,805	2,189	3,826	2,919	7,150	3,024	1,802	5,315	4,148	5,603	3,475	2,377	4,570
46	13.24	10.75	13.12	10.46	30.10	46.08	16.07	0.35	38.41	21.41	40.46	33.02	23.46	33.01
47	<i>5.04</i>	<i>4.41</i>	<i>5.83</i>	<i>9.58</i>	<i>15.03</i>	<i>21.05</i>	<i>12.40</i>	<i>6.60</i>	<i>14.71</i>	<i>12.96</i>	<i>25.29</i>	<i>15.33</i>	<i>8.87</i>	<i>19.89</i>
48	855	1,580	1,055	1,208	1,360	1,030	938	1,068	1,185	1,023	3,354	2,744	3,777	2,204
49	<i>317,959</i>	<i>463,674</i>	<i>332,635</i>	<i>735,226</i>	<i>367,680</i>	<i>925,169</i>	<i>815,411</i>	<i>252,167</i>	<i>581,357</i>	<i>1,161,980</i>	<i>2,441,680</i>	<i>1,441,873</i>	<i>1,179,076</i>	<i>1,290,006</i>
50	3,201	4,304	2,595	8,632	3,004	10,421	11,737	3,682	7,052	14,073	26,435	20,430	17,849	13,436
51	<i>1,837</i>	<i>2,389</i>	<i>1,439</i>	<i>3,842</i>	<i>1,361</i>	<i>2,277</i>	<i>2,820</i>	<i>1,724</i>	<i>3,450</i>	<i>5,420</i>	<i>8,259</i>	<i>6,117</i>	<i>6,951</i>	<i>5,065</i>
52	292	389	361	533	631	528	832	234	668	1,042	3,155	2,234	2,104	1,366
53	335	527	274	762	255	702	947	268	922	1,806	2,855	2,008	2,468	1,600
54	397	452	301	714	374	686	631	473	673	1,074	2,570	1,090	1,457	1,345
55	103	173	89	565	65	909	1,090	90	486	1,003	2,986	3,384	2,553	1,720
56	187	404	41	2,216	18	5,238	5,498	903	855	2,078	6,010	4,074	2,236	2,328
57	<i>69,797</i>	<i>108,371</i>	<i>53,515</i>	<i>262,589</i>	<i>58,144</i>	<i>384,344</i>	<i>302,834</i>	<i>77,440</i>	<i>100,762</i>	<i>310,104</i>	<i>729,497</i>	<i>259,275</i>	<i>391,224</i>	<i>320,490</i>
58	1,438	2,003	1,504	3,033	2,437	2,765	2,079	1,906	2,845	6,007	11,704	4,830	5,457	6,881
59	<i>1,313</i>	<i>1,880</i>	<i>1,450</i>	<i>3,490</i>	<i>2,334</i>	<i>2,437</i>	<i>1,598</i>	<i>2,521</i>	<i>2,521</i>	<i>5,536</i>	<i>9,836</i>	<i>4,085</i>	<i>4,535</i>	<i>5,701</i>
60	92	91	27	306	82	336	351	203	232	787	1,203	620	651	800
61	33	23	18	137	21	118	141	105	92	284	575	225	271	350
62	<i>150,570</i>	<i>238,320</i>	<i>103,255</i>	<i>397,917</i>	<i>202,472</i>	<i>322,946</i>	<i>314,005</i>	<i>144,580</i>	<i>203,872</i>	<i>699,780</i>	<i>1,440,024</i>	<i>518,149</i>	<i>507,763</i>	<i>792,401</i>
63	535	403	616	177	504	186	433	92	318	141	204	934	1,470	329
64	<i>504</i>	<i>473</i>	<i>903</i>	<i>140</i>	<i>502</i>	<i>169</i>	<i>371</i>	<i>70</i>	<i>280</i>	<i>134</i>	<i>193</i>	<i>803</i>	<i>1,015</i>	<i>306</i>
65	23	12	19	2	17	2	53	15	31	5	11	90	121	19
66	8	8	1	9	4	4	4	7	1	2	11	34	4	4
67	70,845	70,480	180,925	22,400	53,477	23,990	52,425	6,490	80,105	18,745	25,547	118,245	170,000	40,340
68	2	1	1	1	1	10	9	32	32	1	12	28	2	3
69	600	700	1	1	1,390	2,850	3,140	3,140	3,140	150	2,970	2,785	275	275
70	3,896	6,008	6,414	6,237	8,642	8,789	7,008	3,992	4,065	10,059	19,754	10,266	11,961	12,299
71	<i>2,589</i>	<i>4,103</i>	<i>4,080</i>	<i>3,892</i>	<i>5,841</i>	<i>5,979</i>	<i>4,957</i>	<i>2,970</i>	<i>3,479</i>	<i>6,853</i>	<i>12,004</i>	<i>7,844</i>	<i>8,567</i>	<i>7,614</i>
72	1,250	1,905	2,354	2,945	2,801	3,110	2,111	1,022	1,479	3,806	7,760	2,422	2,784	4,625
73	<i>20,515</i>	<i>32,215</i>	<i>28,176</i>	<i>40,048</i>	<i>40,900</i>	<i>57,920</i>	<i>80,862</i>	<i>16,974</i>	<i>30,748</i>	<i>61,368</i>	<i>134,460</i>	<i>62,15</i>		

TABLE 1.—FARMS AND FARM PROPERTY, BY COUNTIES: APRIL 15, 1910—Continued.

[Comparative data for June 1, 1900, in italics.]

	Norfolk city. ¹	Petersburg city.	Portsmouth city. ¹	Radford city.	Richmond city. ¹	Roanoke city.	Staunton city. ¹	Williamsburg city.	Winchester city.
1 Population.....	67,452	24,127	33,190	4,202	127,628	34,874	10,004	2,714	5,864
2 <i>Population in 1900.....</i>	<i>40,624</i>	<i>21,810</i>	<i>17,427</i>	<i>3,344</i>	<i>84,765</i>	<i>21,405</i>	<i>7,250</i>	<i>2,044</i>	<i>5,161</i>
3 Number of all farms.....	4	17	7	66	4	4	0	6	23
4 <i>Number of all farms in 1900.....</i>	<i>18</i>	<i>20</i>	<i>4</i>	<i>38</i>	<i>14</i>	<i>7</i>	<i>4</i>	<i>7</i>	<i>12</i>
5 Color and nativity of farmers:									
6 Native white.....	4	13	56	4	3	3	4	22	
7 Foreign-born white.....	1	1	10	1	1	1	1	1	
8 Negro and other nonwhite.....	3	3	1	1	1	1	1	1	
9 Number of farms, classified by size:									
10 Under 3 acres.....	4	4	1	1	1	1	1	1	3
11 3 to 9 acres.....	1	6	41	41	2	3	3	3	3
12 10 to 19 acres.....	2	2	9	9	2	1	1	1	2
13 20 to 49 acres.....	2	4	9	9	2	1	1	1	2
14 50 to 99 acres.....	1	1	4	4	1	1	1	1	2
15 100 to 174 acres.....		1	1	1					2
16 175 to 259 acres.....			1	1				2	2
17 260 to 499 acres.....				1			1		3
18 500 to 999 acres.....									
19 1,000 acres and over.....									
LAND AND FARM AREA									
20 Approximate land area..... acres.....	4,480	1,920	1,920	3,200	7,040	3,200	1,020	1,280	640
21 Land in farms..... acres.....	139	324	324	1,527	79	31	619	535	21,921
22 <i>Land in farms in 1900.....</i>	<i>749</i>	<i>2,235</i>	<i>55</i>	<i>3,027</i>	<i>461</i>	<i>97</i>	<i>355</i>	<i>263</i>	<i>250</i>
23 Improved land in farms..... acres.....	88	274	274	1,314	72	20	594	332	1,731
24 <i>Improved land in farms in 1900.....</i>	<i>676</i>	<i>1,811</i>	<i>50</i>	<i>2,497</i>	<i>347</i>	<i>57</i>	<i>310</i>	<i>160</i>	<i>102</i>
25 Woodland in farms..... acres.....	51	10	10	211	5	1	25	203	168
26 Other unimproved land in farms..... acres.....	51	40	40	2	2	1	1	203	22
27 Per cent of land area in farms.....	3.1	16.0	16.0	47.7	1.1	1.0	32.2	41.8	300.2
28 Per cent of farm land improved.....	63.3	84.6	84.6	86.1	91.1	93.5	96.0	92.1	90.1
29 Average acres per farm.....	34.8	10.1	10.1	23.1	19.8	7.8	103.2	80.2	83.5
30 Average improved acres per farm.....	22.0	16.1	16.1	19.9	18.0	7.2	99.0	55.3	75.3
VALUE OF FARM PROPERTY									
31 All farm property..... dollars.....	637,742	98,276	98,276	224,435	48,740	10,708	62,770	20,328	223,655
32 <i>All farm property in 1900.....</i>	<i>237,147</i>	<i>79,959</i>	<i>90,786</i>	<i>149,781</i>	<i>42,625</i>	<i>8,058</i>	<i>78,208</i>	<i>21,977</i>	<i>37,409</i>
33 Per cent increase, 1900-1910.....	14.6	23.3	23.3	49.0	14.6	32.8	40.6	33.4	497.8
34 Land..... dollars.....	663,300	34,975	34,975	133,920	39,100	13,000	40,813	15,500	103,250
35 <i>Land in 1900.....</i>	<i>201,650</i>	<i>39,550</i>	<i>34,800</i>	<i>98,530</i>	<i>29,200</i>	<i>2,600</i>	<i>69,620</i>	<i>18,030</i>	<i>48,000</i>
36 Buildings..... dollars.....	2,200	25,950	25,950	72,700	5,700	2,800	15,500	7,150	42,300
37 <i>Buildings in 1900.....</i>	<i>10,700</i>	<i>20,700</i>	<i>4,800</i>	<i>38,270</i>	<i>10,100</i>	<i>1,570</i>	<i>7,700</i>	<i>1,650</i>	<i>16,200</i>
38 Implements and machinery..... dollars.....	1,400	910	910	7,313	1,300	11	1,183	1,040	2,988
39 <i>Implements, etc., in 1900.....</i>	<i>3,770</i>	<i>2,080</i>	<i>200</i>	<i>6,620</i>	<i>1,330</i>	<i>120</i>	<i>4,040</i>	<i>1,420</i>	<i>1,268</i>
40 Domestic animals, poultry, and bees..... dollars.....	842	6,441	6,441	10,502	2,640	387	6,280	5,938	15,247
41 <i>Domestic animals, etc., in 1900.....</i>	<i>7,027</i>	<i>8,609</i>	<i>1,530</i>	<i>10,501</i>	<i>2,405</i>	<i>3,778</i>	<i>6,348</i>	<i>1,577</i>	<i>1,049</i>
42 Per cent of value of all property in—									
43 Land.....	99.3	51.2	51.2	59.7	80.2	81.0	65.0	52.9	73.0
44 Buildings.....	0.3	38.0	38.0	32.4	11.7	16.7	24.7	24.4	18.9
45 Implements and machinery.....	0.2	1.3	1.3	3.3	2.7	0.1	1.9	3.5	1.3
46 Domestic animals, poultry, and bees.....	0.1	9.4	9.4	4.7	5.4	2.3	8.4	10.2	0.8
47 Average values:									
48 All property per farm..... dollars.....	160,930	4,016	4,016	3,401	12,185	4,200	10,463	4,888	0.794
49 Land and buildings per farm..... dollars.....	100,375	3,584	3,584	3,131	11,200	4,100	9,380	3,775	8.933
50 Land per acre..... dollars.....	4,771.94	107.95	107.95	87.70	494.94	438.71	65.93	28.07	84.88
51 <i>Land per acre in 1900.....</i>	<i>200.23</i>	<i>17.70</i>	<i>1,530.91</i>	<i>50.77</i>	<i>63.34</i>	<i>70.00</i>	<i>167.94</i>	<i>68.60</i>	<i>75.00</i>
DOMESTIC ANIMALS (farms and ranges)									
52 Farms reporting domestic animals.....	3	15	15	50	4	2	5	0	16
53 Value of domestic animals..... dollars.....	760	0,192	0,192	9,735	2,553	180	4,040	5,625	12,878
54 Cattle:									
55 Total number.....	1	122	122	113	14	4	79	73	96
56 Dairy cows.....	1	96	96	78	12	3	40	43	33
57 Other cows.....		6	6	14			13	1	30
58 Yearling heifers.....	3	3	3	5	1	1	7	11	8
59 Calves.....	1	15	15	11	1	1	3	17	20
60 Yearling steers and bulls.....	4	4	4	4	1	1	0	1	4
61 Other steers and bulls.....	1	1	1	1	1	1	1	1	1
62 Value..... dollars.....	60	4,027	4,027	2,921	423	125	2,705	1,475	2,644
63 Horses:									
64 Total number.....	1	19	19	56	15	1	9	14	54
65 Mature horses.....	1	19	19	53	14	1	8	14	44
66 Yearling colts.....				1					9
67 Spring colts.....				2					1
68 Value..... dollars.....	60	1,740	1,740	6,005	2,120	40	1,220	1,950	5,805
69 Mules:									
70 Total number.....	7	4	4	2				5	20
71 Mature mules.....	7	4	4	2				5	20
72 Yearling colts.....									
73 Spring colts.....									
74 Value..... dollars.....	625	375	375	100				1,200	2,500
75 Asses and burros:									
76 Number.....				1					
77 Value..... dollars.....				50					
78 Swine:									
79 Total number.....	5	13	13	80	5	1	115	62	140
80 Mature hogs.....	5	13	13	63	5	1	100	62	73
81 Spring pigs.....				17			9		67
82 Value..... dollars.....	15	50	50	510	10	15	604	900	724
83 Sheep:									
84 Total number.....				38					222
85 Rams, ewes, and wethers.....									121
86 Spring lambs.....									101
87 Value..... dollars.....				152					1,205
88 Goats:									
89 Number.....									
90 Value..... dollars.....									
POULTRY AND BEES									
91 Number of poultry of all kinds.....	120	506	506	1,165	175	34	1,295	275	2,121
92 Value..... dollars.....	62	229	229	609	87	17	631	113	1,837
93 Number of colonies of bees.....		4	4	19		38			107
94 Value..... dollars.....		20	20	95		190			533

¹Territorial change. (See explanation at close of text.)

² See explanation for 1910 figures at close of text.

³ Decrease.

TABLE 2.—NUMBER, ACREAGE, AND VALUE OF FARMS CLASSIFIED BY TENURE; COLOR AND NATIVITY OF FARMERS; AND MORTGAGED DEBT, BY COUNTIES: APRIL 15, 1910.

[Comparative data for June 1, 1900, in italics.]

	THE STATE.			Accomac.	Albemarle.	Alexandria.	Alleghany. ¹	Amelia.	Amherst.	
	Total.	White.	Colored.							
FARMS OPERATED BY OWNERS,										
1	Number of farms.....	133,604	101,436	32,228	1,263	2,196	72	468	680	1,697
2	Number of farms in 1900.....	<i>114,166</i>	<i>87,680</i>	<i>26,506</i>	<i>1,089</i>	<i>1,918</i>	<i>266</i>	<i>571</i>	<i>898</i>	<i>1,199</i>
3	Per cent of all farms.....	72.6	74.6	67.0	42.1	80.1	76.0	81.6	78.4	66.0
4	Per cent of all farms in 1900.....	<i>63.0</i>	<i>71.8</i>	<i>69.3</i>	<i>59.1</i>	<i>72.8</i>	<i>67.5</i>	<i>71.0</i>	<i>65.6</i>	<i>56.6</i>
5	Land in farms..... acres.....	14,715,345	13,334,122	1,381,223	70,463	274,269	2,404	88,817	144,680	165,209
6	Improved land in farms..... acres.....	7,471,786	6,802,428	669,358	34,270	190,307	1,703	26,073	51,743	81,709
7	Value of land and buildings..... dollars.....	402,841,295	374,781,701	28,069,594	4,612,060	0,696,177	717,000	1,356,076	2,036,601	3,244,102
8	Degree of ownership:									
9	Farms consisting of owned land only.....	117,064	91,144	26,920	1,267	2,056	70	426	854	1,390
10	Farms consisting of owned and hired land.....	15,700	10,292	5,408	40	140	2	42	120	117
11	Color and nativity of owners:									
12	Native white.....	99,802	99,802	.....	1,106	1,674	04	443	388	984
13	Foreign-born white.....	1,574	1,574	.....	2	41	8	8	32	23
14	Negro and other nonwhite.....	32,228	.....	32,228	145	681	0	17	600	600
FARMS OPERATED BY TENANTS										
15	Number of farms.....	48,729	33,023	15,706	1,710	408	18	90	293	786
16	Number of farms in 1900.....	<i>51,696</i>	<i>35,660</i>	<i>16,036</i>	<i>1,689</i>	<i>490</i>	<i>115</i>	<i>150</i>	<i>460</i>	<i>936</i>
17	Per cent of all farms.....	26.5	24.3	32.6	57.6	14.0	18.8	10.7	21.0	33.0
18	Per cent of all farms in 1900.....	<i>30.7</i>	<i>27.5</i>	<i>30.8</i>	<i>60.7</i>	<i>22.4</i>	<i>20.8</i>	<i>26.2</i>	<i>53.7</i>	<i>45.3</i>
19	Land in farms..... acres.....	4,119,966	3,292,954	827,012	103,488	58,225	1,007	11,079	42,023	80,002
20	Improved land in farms..... acres.....	2,077,744	1,649,940	427,804	47,012	31,480	842	4,481	13,590	38,107
21	Value of land and buildings..... dollars.....	101,802,341	86,028,180	15,834,166	6,401,220	1,170,763	394,200	227,315	401,413	1,140,001
22	Form of tenancy:									
23	Share tenants.....	33,472	22,566	10,906	704	280	.....	53	130	608
24	Share-cash tenants.....	1,208	820	382	8	7	.....	1	3	12
25	Cash tenants.....	11,413	7,762	3,651	927	91	10	41	94	164
26	Tenure not specified.....	2,630	1,870	767	17	21	.....	8	36	12
27	Color and nativity of tenants:									
28	Native white.....	32,884	32,884	.....	985	362	.....	15	100	463
29	Foreign-born white.....	139	139	.....	2	2	.....	3	1	1
30	Negro and other nonwhite.....	16,706	.....	16,706	720	44	.....	2	166	322
FARMS OPERATED BY MANAGERS										
31	Number of farms.....	1,025	1,445	180	8	137	0	10	7	24
32	Number of farms in 1900.....	<i>2,139</i>	<i>1,897</i>	<i>238</i>	<i>6</i>	<i>128</i>	<i>11</i>	<i>16</i>	<i>10</i>	<i>25</i>
33	Land in farms..... acres.....	660,825	630,340	20,985	5,597	64,007	985	3,517	2,333	7,102
34	Improved land in farms..... acres.....	320,528	300,482	14,046	925	20,043	460	2,145	608	3,491
35	Value of land and buildings..... dollars.....	27,364,426	26,023,611	1,330,815	162,000	2,284,170	404,000	126,220	48,000	210,800
MORTGAGE DEBT REPORTS²										
36	For all farms operated by owners:									
37	Number free from mortgage debt.....	111,474	85,274	26,200	814	1,905	52	430	706	1,282
38	Number with mortgage debt.....	21,182	16,173	5,006	432	287	18	28	180	307
39	Number with no mortgage report.....	1,008	680	410	7	4	.....	1	4	18
40	For farms consisting of owned land only:									
41	Number reporting debt and amount.....	17,410	13,106	4,304	370	257	18	24	146	107
42	Value of their land and buildings..... dollars.....	62,377,247	57,990,293	4,386,949	1,406,205	1,523,730	261,600	82,800	444,615	547,005
43	Amount of mortgage debt..... dollars.....	15,440,291	14,402,633	1,037,658	643,440	307,649	64,800	26,252	90,868	114,360
44	Per cent of value of land and buildings.....	24.8	24.8	23.7	37.1	24.1	21.0	30.6	21.8	20.0

¹ Territorial change. (See explanation at close of text.) ² No mortgage reports were secured for farms operated by tenants and managers. (See explanation in text.)

TABLE 3.—LIVE STOCK PRODUCTS, AND DOMESTIC ANIMALS SOLD OR SLAUGHTERED ON FARMS, BY COUNTIES: 1909.

LIVE STOCK PRODUCTS										
Dairy Products										
1	Dairy cows on farms reporting dairy products.....	333,785	.....	.....	2,362	7,077	267	1,820	2,110	4,224
2	Dairy cows on farms reporting milk produced.....	326,268	.....	.....	2,344	6,781	267	1,815	2,082	4,201
3	Milk—Produced..... gallons.....	95,555,051	.....	.....	507,914	1,881,166	172,009	510,216	504,060	1,631,245
4	Sold..... gallons.....	8,577,893	.....	.....	12,022	168,407	153,050	59,717	16,231	69,789
5	Cream sold..... gallons.....	302,217	.....	.....	10	25,765	30	53	10,225	3,618
6	Butter fat sold..... pounds.....	97,568	.....	.....	.....	.....	.....	.....	1,150	350
7	Butter—Produced..... pounds.....	26,051,244	.....	.....	202,711	500,313	2,065	130,571	150,049	482,300
8	Sold..... pounds.....	7,983,430	.....	.....	51,402	204,246	1,070	54,810	33,143	113,318
9	Cheese—Produced..... pounds.....	97,293	.....	.....	.....	.....	.....	.....	.....	.....
10	Sold..... pounds.....	41,612	.....	.....	.....	.....	.....	.....	.....	.....
11	Value of dairy products ¹ dollars.....	7,704,326	.....	.....	59,008	104,024	35,116	45,045	47,453	121,873
12	Receipts from sale of dairy products..... dollars.....	3,772,617	.....	.....	17,623	98,640	34,847	28,105	18,257	43,422
Poultry Products										
13	Poultry—Raised..... number.....	15,518,010	.....	.....	436,226	238,671	9,465	60,424	116,745	177,345
14	Sold..... number.....	6,059,990	.....	.....	100,220	90,122	3,527	24,638	38,827	65,990
15	Eggs—Produced..... dozens.....	33,544,512	.....	.....	630,507	517,162	22,136	125,351	146,178	376,579
16	Sold..... dozens.....	21,113,100	.....	.....	442,364	287,402	9,895	60,734	55,016	103,043
17	Value of poultry and eggs produced..... dollars.....	12,430,980	.....	.....	342,458	187,087	9,883	43,127	60,852	123,056
18	Receipts from sale of poultry and eggs..... dollars.....	6,847,235	.....	.....	151,703	96,483	4,309	23,117	25,815	53,604
Honey and Wax										
19	Honey produced..... pounds.....	1,344,360	.....	.....	1,560	21,601	.....	6,542	2,780	10,451
20	Wax produced..... pounds.....	23,883	.....	.....	.....	455	.....	3	22	244
21	Value of honey and wax produced..... dollars.....	173,927	.....	.....	218	2,839	.....	1,107	382	2,088
Wool, Mohair, and Goat Hair										
22	Wool, fleeces shorn..... number.....	378,112	.....	.....	796	4,613	.....	2,425	371	820
23	Mohair and goat hair, fleeces shorn..... number.....	2,614	.....	.....	.....	16	.....	.....	17	3
24	Value of wool and mohair produced..... dollars.....	496,218	.....	.....	907	5,824	.....	3,249	518	606
DOMESTIC ANIMALS SOLD OR SLAUGHTERED										
25	Calves—Sold or slaughtered..... number.....	124,088	.....	.....	560	2,256	221	408	900	1,562
26	Other cattle—Sold or slaughtered..... number.....	334,983	.....	.....	643	4,610	186	1,340	433	4,925
27	Horses, mules, asses and burros—Sold..... number.....	39,014	.....	.....	180	514	5	70	70	306
28	Pigs—Sold or slaughtered..... number.....	831,290	.....	.....	11,224	12,029	80	2,704	5,008	7,805
29	Sheep and goats—Sold or slaughtered..... number.....	421,372	.....	.....	228	2,726	.....	1,537	198	1,107
30	Receipts from sale of animals..... dollars.....	20,124,057	.....	.....	53,366	244,449	7,050	54,454	26,871	295,748
31	Value of animals slaughtered..... dollars.....	8,857,649	.....	.....	173,448	122,048	225	37,647	54,919	103,035

¹ Excluding home use of milk and cream.

TABLE 2.—NUMBER, ACREAGE, AND VALUE OF FARMS CLASSIFIED BY TENURE; COLOR AND

[Comparative data for June 1, 1900, in italics.]

	Appomattox.	Augusta. ¹	Bath.	Bedford.	Bland.	Botetourt.	Brunswick.	Buchanan.	Buckingham.	
FARMS OPERATED BY OWNERS										
1	Number of farms.....	752	2,035	477	2,845	650	1,430	1,386	1,258	1,689
2	Number of farms in 1900.....	791	2,101	440	2,540	589	1,120	1,328	1,094	1,187
3	Per cent of all farms.....	62.9	84.8	84.7	71.8	80.4	85.7	62.5	74.2	70.4
4	Per cent of all farms in 1900.....	61.9	70.2	78.4	68.0	80.2	81.5	56.0	70.9	67.8
5	Land in farms..... acres.....	123,083	305,220	106,186	321,442	124,607	160,118	200,865	170,200	220,609
6	Improved land in farms..... acres.....	51,769	226,040	34,229	181,432	50,812	95,935	72,454	42,385	88,201
7	Value of land and buildings..... dollars.....	1,520,493	10,509,530	1,003,190	6,468,267	2,304,941	5,580,311	2,410,087	2,508,745	2,731,023
Degree of ownership:										
8	Farms consisting of owned land only.....	710	2,340	434	2,524	554	1,200	1,200	1,221	1,409
9	Farms consisting of owned and hired land.....	33	295	43	321	105	140	117	37	190
Color and nativity of owners:										
10	Native white.....	548	2,473	455	2,248	641	1,285	740	1,258	610
11	Foreign-born white.....	13	13	1	18	3	5	2	.....	13
12	Negro and other nonwhite.....	204	140	21	579	15	140	644	.....	706
FARMS OPERATED BY TENANTS										
13	Number of farms.....	440	358	70	1,080	101	231	811	436	431
14	Number of farms in 1900.....	477	455	102	1,460	54	245	1,023	444	553
15	Per cent of all farms.....	36.8	12.6	12.4	27.5	13.2	13.8	30.5	25.7	20.3
16	Per cent of all farms in 1900.....	57.3	16.4	13.2	30.2	8.2	17.8	43.1	28.8	31.9
17	Land in farms..... acres.....	50,093	61,007	12,054	95,041	8,711	27,750	74,850	28,057	59,240
18	Improved land in farms..... acres.....	21,030	43,550	3,784	49,644	3,701	14,003	20,888	7,567	20,165
19	Value of land and buildings..... dollars.....	581,708	3,178,806	154,955	1,534,701	163,331	775,325	743,843	430,917	694,235
Form of tenancy:										
20	Share tenants.....	401	319	20	804	54	137	420	261	201
21	Share-cash tenants.....	3	6	1	16	10	6	24	4	.....
22	Cash tenants.....	23	55	38	206	31	30	252	83	105
23	Tenure not specified.....	13	8	5	3	.....	49	106	88	35
Color and nativity of tenants:										
24	Native white.....	287	375	68	810	100	217	302	430	220
25	Foreign-born white.....	1	1	.....	2	.....	1	.....	.....	1
26	Negro and other nonwhite.....	153	12	2	277	1	13	449	.....	201
FARMS OPERATED BY MANAGERS										
27	Number of farms.....	4	83	10	28	3	7	22	1	7
28	Number of farms in 1900.....	10	122	19	80	17	9	21	4	9
29	Land in farms..... acres.....	1,165	25,515	10,009	9,323	3,068	2,020	6,299	122	3,000
30	Improved land in farms..... acres.....	550	15,042	3,310	5,771	2,260	927	2,744	40	1,770
31	Value of land and buildings..... dollars.....	33,250	1,203,745	403,700	382,400	82,500	56,500	107,138	2,640	88,300
MORTGAGE DEBT REPORTS²										
For all farms operated by owners:										
32	Number free from mortgage debt.....	596	1,950	417	2,425	639	1,320	1,125	1,208	1,470
33	Number with mortgage debt.....	123	670	59	418	84	84	242	37	81
34	Number with no mortgage report.....	30	9	1	2	17	19	13	.....	138
For farms consisting of owned land only:										
35	Number reporting debt and amount.....	98	560	55	363	14	54	192	30	65
36	Value of their land and buildings..... dollars.....	179,525	3,822,130	344,550	1,008,670	48,430	201,190	339,074	29,750	125,505
37	Amount of mortgage debt..... dollars.....	44,441	900,279	58,450	274,336	12,050	42,313	80,688	5,883	28,235
38	Per cent of value of land and buildings.....	24.8	23.0	17.0	27.2	24.9	21.0	26.5	19.8	22.5

¹ Territorial change. (See explanation at close of text.)

TABLE 3.—LIVE STOCK PRODUCTS, AND DOMESTIC ANIMALS

LIVE STOCK PRODUCTS										
Dairy Products										
1	Dairy cows on farms reporting dairy products.....	2,101	7,701	1,990	8,201	1,849	4,140	2,907	3,701	2,882
2	Dairy cows on farms reporting milk produced.....	2,085	7,413	1,960	8,180	1,842	4,125	2,440	3,060	2,808
3	Milk—Produced..... gallons.....	605,515	2,356,627	395,084	2,393,080	423,411	1,261,195	541,761	1,042,390	900,722
4	Sold..... gallons.....	400	104,544	49,243	27,367	160	47,123	4,471	2,087	1,336
5	Cream sold..... gallons.....	.....	5,954	.....	.....	3	.....	.....	.....	549
6	Butter fat sold..... pounds.....	.....	10,318	.....	.....	.....	11,478	02	.....	700
7	Butter—Produced..... pounds.....	205,849	640,041	89,270	890,851	127,596	386,661	202,279	434,412	341,484
8	Sold..... pounds.....	32,295	312,490	24,299	317,055	35,705	178,100	38,513	8,918	35,256
9	Cheese—Produced..... pounds.....	.....	55	184	.....	.....	.....	.....	.....	.....
10	Sold..... pounds.....	.....	.....	.....	.....	2,910	.....	.....	.....	.....
11	Value of dairy products, excluding home use of milk and cream..... dollars.....	48,547	165,356	28,929	191,783	24,272	92,965	48,080	77,100	70,165
12	Receipts from sale of dairy products..... dollars.....	7,775	97,399	10,098	74,079	0,078	48,761	10,164	1,817	8,677
Poultry Products										
13	Poultry—Raised..... number.....	108,333	348,447	41,822	305,448	54,904	169,167	183,910	85,497	191,539
14	Sold..... number.....	39,148	103,829	23,110	151,107	28,094	68,712	55,685	29,300	59,015
15	Eggs—Produced..... dozens.....	130,331	951,358	118,813	608,078	144,545	381,715	230,396	170,856	251,048
16	Sold..... dozens.....	68,405	655,718	73,095	309,344	87,720	231,233	87,433	43,920	97,012
17	Value of poultry and eggs produced..... dollars.....	50,250	301,093	41,205	210,771	51,929	126,044	89,022	51,831	103,773
18	Receipts from sale of poultry and eggs..... dollars.....	23,275	230,977	27,090	104,350	34,929	66,611	32,411	16,027	37,523
Honey and Wax										
19	Honey produced..... pounds.....	7,224	20,000	5,909	27,317	7,470	18,310	3,528	51,042	4,975
20	Wax produced..... pounds.....	111	239	162	1,059	262	239	88	167	237
21	Value of honey and wax produced..... dollars.....	838	2,072	781	4,059	1,092	2,456	476	7,038	622
Wool, Mohair, and Goat Hair										
22	Wool, fleeces shorn..... number.....	216	10,678	8,061	2,093	6,634	1,285	893	6,590	781
23	Mohair and goat hair, fleeces shorn..... number.....	.....	52	.....	.....	21	51	.....	.....	3
24	Value of wool and mohair produced..... dollars.....	284	23,550	10,808	2,008	9,344	1,706	1,101	6,195	883
DOMESTIC ANIMALS SOLD OR SLAUGHTERED										
25	Calves—Sold or slaughtered..... number.....	812	2,512	321	2,924	370	1,319	804	1,794	801
26	Other cattle—Sold or slaughtered..... number.....	345	10,762	2,334	8,913	3,009	4,248	742	1,730	887
27	Horses, mules, and asses and burros—Sold..... number.....	115	1,261	142	640	277	340	101	344	148
28	Swine—Sold or slaughtered..... number.....	3,750	26,929	2,693	14,178	4,437	6,804	5,593	4,171	4,984
29	Sheep and goats—Sold or slaughtered..... number.....	161	20,272	5,841	2,550	7,034	2,517	630	2,718	396
30	Receipts from sale of animals..... dollars.....	24,974	763,885	131,284	355,011	210,998	196,839	29,792	88,074	39,271
31	Value of animals slaughtered..... dollars.....	47,113	273,692	39,200	188,112	51,418	86,885	72,347	49,540	67,616

TABLE 2.—NUMBER, ACREAGE, AND VALUE OF FARMS CLASSIFIED BY TENURE; COLOR AND

[Comparative data for June 1, 1900, in italics.]

	Essex.	Fairfax.	Fauquier.	Floyd.	Fluvanna.	Franklin.	Frederick.	Giles.	Gloucester.	
FARMS OPERATED BY OWNERS										
1	Number of farms.....	1,183	1,030	2,007	2,108	1,177	2,966	1,401	943	1,837
2	Number of farms in 1900.....	<i>1,192</i>	<i>1,485</i>	<i>1,694</i>	<i>1,848</i>	<i>948</i>	<i>2,425</i>	<i>1,150</i>	<i>783</i>	<i>1,707</i>
3	Per cent of all farms.....	79.9	83.6	83.6	87.3	81.8	68.4	79.4	74.7	92.0
4	Per cent of all farms in 1900.....	<i>72.9</i>	<i>77.8</i>	<i>75.1</i>	<i>80.9</i>	<i>71.3</i>	<i>66.0</i>	<i>71.7</i>	<i>75.8</i>	<i>88.6</i>
5	Land in farms..... acres.....	94,517	141,510	277,506	224,473	121,400	331,149	178,833	133,596	101,272
6	Improved land in farms..... acres.....	42,865	87,822	204,969	150,529	61,457	136,576	112,063	71,749	49,176
7	Value of land and buildings..... dollars.....	1,589,513	9,107,698	9,942,992	5,642,533	1,900,703	4,514,282	0,856,079	4,144,918	3,598,987
Degree of ownership:										
8	Farms consisting of owned land only.....	1,032	1,799	1,842	1,629	1,007	2,061	1,232	803	1,409
9	Farms consisting of owned and hired land.....	151	140	165	479	170	305	169	140	428
Color and nativity of owners:										
10	Native white.....	477	1,570	1,485	2,020	748	2,520	1,300	903	982
11	Foreign-born white.....		97	24		9	2	12	4	2
12	Negro and other nonwhite.....	706	272	498	88	420	438	23	36	833
FARMS OPERATED BY TENANTS										
13	Number of farms.....	288	347	347	200	240	1,304	351	313	149
14	Number of farms in 1900.....	<i>438</i>	<i>372</i>	<i>517</i>	<i>411</i>	<i>343</i>	<i>1,304</i>	<i>448</i>	<i>228</i>	<i>218</i>
15	Per cent of all farms.....	19.5	15.0	14.5	12.4	17.1	31.5	19.9	24.8	7.5
16	Per cent of all farms in 1900.....	<i>26.8</i>	<i>20.5</i>	<i>22.9</i>	<i>18.0</i>	<i>25.8</i>	<i>34.9</i>	<i>27.6</i>	<i>22.1</i>	<i>11.0</i>
17	Land in farms..... acres.....	41,801	35,775	84,172	12,010	25,451	77,408	55,800	10,532	10,075
18	Improved land in farms..... acres.....	21,664	20,964	61,002	8,680	9,937	37,935	40,031	7,320	4,921
19	Value of land and buildings..... dollars.....	535,203	1,602,900	2,814,501	205,938	330,855	927,121	2,757,701	353,884	268,897
Form of tenancy:										
20	Share tenants.....	217	96	196	211	173	1,177	262	253	33
21	Share-cash tenants.....	4	8	12	18	5	12	18	9	25
22	Cash tenants.....	48	180	123	39	45	160	69	49	89
23	Tenure not specified.....	19	63	16	31	23	15	2	2	4
Color and nativity of tenants:										
24	Native white.....	189	295	310	285	173	1,020	347	208	114
25	Foreign-born white.....		10	2						1
26	Negro and other nonwhite.....	99	42	35	14	73	335	4	15	84
FARMS OPERATED BY MANAGERS										
27	Number of farms.....	9	34	46	9	15	5	13	7	11
28	Number of farms in 1900.....	<i>4</i>	<i>34</i>	<i>46</i>	<i>25</i>	<i>28</i>	<i>9</i>	<i>11</i>	<i>2</i>	<i>7</i>
29	Land in farms..... acres.....	8,281	13,710	20,404	645	4,643	2,955	4,494	2,301	2,386
30	Improved land in farms..... acres.....	3,971	7,500	16,048	382	2,017	1,697	2,438	1,117	1,608
31	Value of land and buildings..... dollars.....	90,081	871,400	993,790	20,780	104,175	24,300	200,300	100,600	147,800
MORTGAGE DEBT REPORTS:										
For all farms operated by owners:										
32	Number free from mortgage debt.....	1,011	1,485	1,588	1,888	1,059	2,638	1,055	840	1,327
33	Number with mortgage debt.....	129	446	391	216	111	308	340	72	505
34	Number with no mortgage report.....	43	8	23	4	7	20	6	31	6
For farms consisting of owned land only:										
35	Number reporting debt and amount.....	111	403	330	145	65	255	278	58	375
36	Value of their land and buildings..... dollars.....	175,395	2,324,059	2,073,087	387,420	164,485	320,314	1,416,530	270,820	811,787
37	Amount of mortgage debt..... dollars.....	29,391	601,042	594,909	73,298	83,384	82,037	312,070	30,218	153,985
38	Per cent of value of land and buildings.....	10.7	25.9	28.7	18.9	23.3	25.6	22.0	11.2	19.0

1 Territorial change. (See explanation at close of text.)

TABLE 3.—LIVE STOCK PRODUCTS, AND DOMESTIC ANIMALS

LIVE STOCK PRODUCTS										
Dairy Products										
1	Dairy cows on farms reporting dairy products.....	2,078	7,011	7,101	5,957	2,444	7,197	4,750	2,618	2,372
2	Dairy cows on farms reporting milk produced.....	2,029	6,428	7,010	5,954	2,405	7,122	4,629	2,617	2,354
3	Milk—Produced..... gallons.....	376,230	2,893,299	1,831,654	1,884,885	584,974	2,104,533	1,200,587	796,450	487,160
4	Sold..... gallons.....	2,884	1,527,185	174,725	2,550	235	8,921	194,794	2,460	1,167
5	Cream sold..... gallons.....		11,914	5,610		343	8,110	1,107		
6	Butter fat sold..... pounds.....						2,154			
7	Butter—Produced..... pounds.....	100,046	487,632	429,955	526,120	176,656	781,302	281,375	220,817	106,612
8	Sold..... pounds.....	23,502	282,012	154,522	289,969	34,887	163,046	145,108	67,662	50,286
9	Cheese—Produced..... pounds.....		1,200		1,492				2,742	
10	Sold..... pounds.....		1,200		1,126				1,800	
11	Value of dairy products, excluding home use of milk and cream..... dollars.....	20,499	417,537	122,150	99,029	39,007	158,344	79,541	47,090	42,041
12	Receipts from sale of dairy products..... dollars.....	5,318	365,475	65,515	54,022	7,942	40,176	52,770	14,521	13,284
Poultry Products										
13	Poultry—Raised..... number.....	123,373	193,842	237,480	144,412	105,540	303,031	147,607	96,503	215,606
14	Sold..... number.....	53,647	94,688	90,679	81,995	38,008	140,992	60,023	44,807	82,070
15	Eggs—Produced..... dozens.....	299,368	909,881	839,476	331,420	231,301	452,086	581,132	222,853	390,511
16	Sold..... dozens.....	192,161	653,829	558,404	227,786	127,186	243,044	476,958	129,927	273,805
17	Value of poultry and eggs produced..... dollars.....	99,589	311,416	280,377	108,246	79,062	169,973	184,059	87,401	143,675
18	Receipts from sale of poultry and eggs..... dollars.....	59,171	201,275	167,410	75,275	37,859	86,416	130,709	52,703	84,362
Honey and Wax										
19	Honey produced..... pounds.....	555	27,592	26,532	16,874	1,514	47,058	43,604	12,354	3,357
20	Wax produced..... pounds.....		62	71	387	84	2,440	343	166	35
21	Value of honey and wax produced..... dollars.....	78	3,730	2,909	2,096	218	6,649	4,934	1,703	427
Wool, Mohair and Goat Hair										
22	Wool, fleeces shorn..... number.....	1,931	1,493	8,430	9,817	817	2,326	9,548	10,990	1,791
23	Mohair and goat hair, fleeces shorn..... number.....		34	7		10	2	20	30	
24	Value of wool and mohair produced..... dollars.....	1,912	2,013	11,494	11,607	821	2,665	14,215	13,851	2,115
DOMESTIC ANIMALS SOLD OR SLAUGHTERED										
25	Calves—Sold or slaughtered..... number.....	1,287	4,138	3,495	2,286	927	3,236	2,067	650	1,264
26	Other cattle—Sold or slaughtered..... number.....	645	2,498	17,405	8,164	1,166	4,644	4,398	3,780	592
27	Horses, mules, and asses and burros—Sold..... number.....	110	500	1,215	986	115	770	1,152	512	204
28	Swine—Sold or slaughtered..... number.....	5,664	8,382	19,537	10,443	4,266	12,782	13,996	5,545	8,488
29	Sheep and goats—Sold or slaughtered..... number.....	938	1,009	6,491	19,398	876	1,856	9,536	16,514	1,037
30	Receipts from sale of animals..... dollars.....	42,275	185,213	1,200,934	401,083	46,639	201,167	404,534	281,609	49,642
31	Value of animals slaughtered..... dollars.....	54,954	87,818	122,488	123,472	43,169	183,457	119,164	57,547	92,392

AGRICULTURE—VIRGINIA.

NATIVITY OF FARMERS; AND MORTGAGE DEBT, BY COUNTIES: APRIL 15, 1910—Continued.

[Comparative data for June 1, 1900, in Italics.]

	Goochland.	Grayson.	Greene.	Greensville.	Hallfax.	Hanover.	Henrico.	Henry.	Highland.	Isle of Wight.	James City.	King and Queen.	King George.
1	1,100	2,397	730	055	2,450	2,000	1,232	1,118	070	074	401	1,342	701
2	<i>888</i>	<i>2,176</i>	<i>609</i>	<i>655</i>	<i>1,919</i>	<i>1,680</i>	<i>977</i>	<i>771</i>	<i>608</i>	<i>363</i>	<i>414</i>	<i>1,300</i>	<i>751</i>
3	87.9	90.3	84.5	55.2	45.1	81.3	81.7	47.5	02.3	59.2	81.5	82.4	78.7
4	74.7	83.4	70.5	68.9	40.8	67.3	71.3	40.5	83.8	65.1	73.1	75.7	60.8
5	120,720	237,721	70,002	83,313	285,208	183,354	83,218	125,323	182,201	100,222	40,905	123,482	83,205
6	50,015	140,041	43,580	28,170	130,384	88,480	41,212	55,278	72,500	40,336	15,145	52,499	49,483
7	1,042,200	0,644,425	1,406,765	1,101,350	5,183,350	3,543,645	0,202,035	1,076,423	4,040,810	2,282,102	1,331,524	1,433,207	1,933,780
8	951	2,124	656	530	2,171	1,894	1,174	904	616	002	360	1,175	701
9	149	273	80	110	288	106	58	154	63	72	41	167	90
10	540	2,322	045	263	1,528	1,287	700	801	060	076	174	507	492
11	14	1	1	22	22	30	12	7	2	2	44	4	8
12	546	74	91	370	000	077	280	257	17	297	183	741	201
13	144	247	126	531	2,971	430	240	1,228	55	008	83	287	210
14	<i>305</i>	<i>480</i>	<i>185</i>	<i>547</i>	<i>3,148</i>	<i>795</i>	<i>538</i>	<i>1,156</i>	<i>73</i>	<i>550</i>	<i>148</i>	<i>300</i>	<i>369</i>
15	11.5	9.3	14.5	44.7	54.5	17.5	15.0	52.2	7.5	40.0	10.9	17.0	20.9
16	83.1	16.3	23.8	45.5	68.5	31.7	24.8	59.4	10.8	35.1	20.1	22.9	32.3
17	17,199	20,400	9,136	44,584	208,789	46,973	10,480	91,217	13,002	40,481	8,110	30,820	17,475
18	6,317	8,273	5,283	19,708	104,147	19,248	9,256	41,803	5,504	22,230	3,570	18,323	11,452
19	274,708	399,138	136,055	551,530	3,217,516	654,270	2,145,585	1,058,607	230,000	1,127,303	176,995	343,395	414,210
20	84	170	121	193	2,823	148	34	1,070	24	477	34	210	180
21	1	5	2	28	15	2	1	15	.....	17	3	9	1
22	44	63	3	254	123	189	145	100	20	107	45	64	25
23	15	.....	50	10	10	91	60	84	2	7	1	4	4
24	80	222	112	175	1,530	278	170	712	53	417	45	105	131
25	1	.....	2	2	2	1	11	.....	.....	.....	1	.....	1
26	63	25	14	354	1,433	151	50	616	2	251	37	92	78
27	8	11	9	1	24	31	30	7	3	6	.....	.....	4
28	80	7	8	19	28	25	61	5	28	4	.....	25	5
29	5,245	602	1,697	900	4,476	11,309	11,025	3,087	3,500	1,287	6,355	.....	3,744
30	2,725	394	60	50	2,010	5,178	6,843	1,003	1,300	423	2,020	.....	1,610
31	154,946	13,650	29,500	9,200	146,083	332,100	1,540,124	37,900	55,000	23,000	132,810	.....	209,500
32	983	2,239	544	409	2,028	1,713	671	1,016	618	057	818	1,103	609
33	111	162	100	240	415	281	250	96	52	314	82	176	121
34	6	6	2	6	10	6	5	0	0	3	1	3	1
35	87	124	175	177	350	246	237	70	44	258	79	137	99
36	181,364	313,905	350,790	340,482	970,004	570,815	1,400,900	94,197	170,070	580,245	600,990	147,510	232,065
37	42,295	75,213	91,984	86,439	278,312	157,350	435,079	31,174	45,189	224,233	117,955	34,252	36,864
38	23.3	24.0	25.6	24.9	28.5	27.3	20.1	33.1	20.5	38.0	19.3	23.2	15.9

* No mortgage reports were secured for farms operated by tenants and managers. (See explanation in text.)

SOLD OR SLAUGHTERED ON FARMS, BY COUNTIES: 1909—Continued.

1	2,054	5,709	1,046	1,045	6,688	4,243	4,202	2,882	2,860	1,015	606	2,530	2,005
2	2,027	5,290	1,937	1,028	6,678	4,189	4,130	2,875	2,840	1,608	584	2,533	1,523
3	516,600	1,684,748	537,380	230,888	1,840,049	1,123,490	1,817,004	997,374	482,072	317,001	140,038	440,041	355,458
4	34,623	30,763	135	24,755	6,201	23,358	1,273,831	7,715	70	4,355	4,455	340	100
5	4,423	.....	.....	.....	20	.....	50	.....	150	.....	.....	.....	.....
6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
7	144,518	301,453	147,011	73,774	710,573	356,875	210,339	303,753	113,819	69,931	40,350	132,728	91,392
8	63,211	153,159	42,423	19,000	81,210	174,797	115,770	50,558	39,927	28,890	22,673	33,201	28,500
9	.....	5,268	.....	.....	20	.....	1,443	.....	1,230	.....	.....	.....	.....
10	.....	4,183	.....	.....	.....	.....	1,240	.....	288	.....	.....	.....	.....
11	40,220	69,086	26,879	25,801	150,080	97,741	358,054	81,085	21,183	25,078	13,290	28,216	20,813
12	23,915	30,162	7,941	12,334	20,501	40,304	330,775	13,207	0,077	9,162	0,015	7,248	0,793
13	106,921	108,133	71,537	68,809	309,073	213,158	133,348	172,534	41,590	109,204	23,338	140,311	93,760
14	39,647	100,338	37,613	21,710	93,557	88,337	62,759	68,558	39,840	33,172	7,088	69,430	37,304
15	218,748	201,824	180,653	104,484	429,095	477,493	378,000	223,204	97,171	101,028	80,056	305,327	303,095
16	180,779	180,779	114,238	32,101	130,652	205,351	225,300	90,126	55,790	126,162	67,800	231,499	281,513
17	84,631	121,184	68,179	42,090	184,453	108,715	147,064	92,078	39,193	73,689	23,439	115,178	114,848
18	30,710	75,990	38,703	14,003	54,183	85,865	81,002	33,504	27,530	37,224	19,892	72,559	75,161
19	1,824	34,317	5,198	1,600	17,460	5,000	8,058	39,591	12,584	3,268	550	410	4,536
20	23	400	117	20	237	6	225	2,078	308	.....	.....	.....	56
21	250	4,100	632	103	2,307	614	1,253	6,030	1,088	379	101	51	504
22	477	9,823	1,000	113	1,110	1,575	328	395	16,832	237	08	880	1,505
23	300	34	7	7	26	.....	0	77	107	.....	.....	.....	5
24	1,461	14,822	2,094	103	1,340	2,072	370	441	23,312	210	84	1,150	2,213
25	820	1,023	621	213	1,087	1,788	1,980	806	304	580	208	1,317	601
26	887	9,211	1,288	271	1,458	727	1,824	1,080	0,776	547	110	495	965
27	179	1,077	230	12	301	223	209	188	285	103	41	98	130
28	4,129	12,256	4,872	3,065	14,712	9,308	5,737	0,529	3,587	10,190	1,937	4,707	4,030
29	577	10,102	1,072	62	602	1,054	206	112	20,453	57	39	404	812
30	57,732	436,930	70,355	5,863	85,118	81,092	111,567	47,666	432,717	21,647	9,187	32,134	44,429
31	48,070	132,240	55,153	35,603	207,000	93,890	41,106	88,635	40,847	100,033	10,363	55,335	60,016

TABLE 2.—NUMBER, ACREAGE, AND VALUE OF FARMS CLASSIFIED BY TENURE; COLOR AND [Comparative data for June 1, 1900, in italics.]

	King William.	Lancaster.	Lee.	Loudoun.	Louisa.	Lunenburg.	Madison.	Mathews.	Mecklenburg.	
FARMS OPERATED BY OWNERS										
1	Number of farms.....	903	1,055	1,309	1,562	1,925	1,266	1,139	1,306	2,006
2	Number of farms in 1900.....	<i>752</i>	<i>902</i>	<i>1,077</i>	<i>1,307</i>	<i>1,947</i>	<i>1,100</i>	<i>971</i>	<i>1,303</i>	<i>1,520</i>
3	Per cent of all farms.....	83.0	88.6	58.9	72.9	86.6	68.5	89.1	94.2	55.2
4	Per cent of all farms in 1900.....	<i>74.9</i>	<i>82.6</i>	<i>59.4</i>	<i>67.1</i>	<i>76.4</i>	<i>64.4</i>	<i>79.4</i>	<i>80.6</i>	<i>48.4</i>
5	Land in farms.....acres.....	100,830	46,651	197,256	191,320	197,747	154,076	141,801	39,840	220,934
6	Improved land in farms.....acres.....	47,714	24,867	117,605	156,234	87,262	55,656	88,486	23,150	82,680
7	Value of land and buildings.....dollars.....	1,549,752	1,402,525	5,691,158	9,537,377	3,546,500	2,424,516	3,248,095	2,924,837	3,032,755
Degree of ownership:										
8	Farms consisting of owned land only.....	787	1,033	1,479	1,443	1,799	1,154	1,052	1,205	1,781
9	Farms consisting of owned and hired land.....	116	22	420	119	126	112	87	101	225
Color and nativity of owners:										
10	Native white.....	375	532	1,861	1,333	1,024	645	813	1,059	1,067
11	Foreign-born white.....	19	4	10	22	30	1	13	10	10
12	Negro and other nonwhite.....	509	519	38	213	870	585	325	234	929
FARMS OPERATED BY TENANTS										
13	Number of farms.....	179	136	1,297	538	292	580	130	70	1,606
14	Number of farms in 1900.....	<i>240</i>	<i>185</i>	<i>1,127</i>	<i>593</i>	<i>558</i>	<i>600</i>	<i>230</i>	<i>153</i>	<i>1,599</i>
15	Per cent of all farms.....	16.5	11.4	40.3	25.1	13.1	31.4	10.2	5.5	44.2
16	Per cent of all farms in 1900.....	<i>23.9</i>	<i>16.9</i>	<i>40.1</i>	<i>30.4</i>	<i>21.0</i>	<i>35.1</i>	<i>19.3</i>	<i>9.8</i>	<i>51.0</i>
17	Land in farms.....acres.....	23,200	9,229	37,902	104,462	35,341	55,154	23,432	3,051	131,500
18	Improved land in farms.....acres.....	11,554	3,714	25,340	85,883	13,443	18,393	13,263	1,732	64,901
19	Value of land and buildings.....dollars.....	410,515	193,800	1,260,253	4,466,525	507,833	690,970	434,275	147,525	1,078,110
Form of tenancy:										
20	Share tenants.....	41	46	1,030	313	225	360	87	13	1,204
21	Share-cash tenants.....	9	2	25	20	4	4	2	8	8
22	Cash tenants.....	8	83	215	203	60	163	43	23	274
23	Tenure not specified.....	42	5	27	2	3	53	38	38	120
Color and nativity of tenants:										
24	Native white.....	114	99	1,266	504	193	282	114	66	600
25	Foreign-born white.....	2	1	1	1	1	2	1	1	2
26	Negro and other nonwhite.....	63	36	30	33	98	206	15	10	944
FARMS OPERATED BY MANAGERS										
27	Number of farms.....	6	26	44	6	3	10	5	24	
28	Number of farms in 1900.....	<i>13</i>	<i>13</i>	<i>48</i>	<i>45</i>	<i>7</i>	<i>16</i>	<i>3</i>	<i>19</i>	
29	Land in farms.....acres.....	4,210	6,196	13,952	2,282	504	5,932	314	10,188	
30	Improved land in farms.....acres.....	1,080	2,915	10,500	810	179	3,133	253	3,000	
31	Value of land and buildings.....dollars.....	92,450	199,585	743,060	48,000	6,700	164,400	20,000	183,300	
MORTGAGE DEBT REPORTS *										
For all farms operated by owners:										
32	Number free from mortgage debt.....	769	844	1,770	1,145	1,695	1,021	966	1,183	1,506
33	Number with mortgage debt.....	128	208	105	409	223	230	173	121	395
34	Number with no mortgage report.....	6	3	15	8	7	15	2	2	15
For farms consisting of owned land only:										
35	Number reporting debt and amount.....	94	185	76	369	198	173	151	92	320
36	Value of their land and buildings.....dollars.....	254,100	282,000	310,890	2,821,468	512,888	336,120	582,930	254,875	619,548
37	Amount of mortgage debt.....dollars.....	58,790	79,614	61,242	689,152	104,909	93,012	136,192	92,741	183,300
38	Per cent of value of land and buildings.....	23.1	28.2	19.7	29.7	20.5	27.7	23.4	36.5	30.4

* Territorial change. (See explanation at close of text.)

TABLE 3.—LIVE STOCK PRODUCTS, AND DOMESTIC ANIMALS

LIVE STOCK PRODUCTS										
Dairy Products										
1	Dairy cows on farms reporting dairy products.....	1,610	967	5,108	8,715	4,120	2,478	4,018	1,314	4,499
2	Dairy cows on farms reporting milk produced.....	1,505	927	5,108	7,138	4,123	2,463	3,955	1,310	4,462
3	Milk—Produced.....gallons.....	268,790	227,020	1,596,082	2,768,352	1,005,612	614,337	809,052	354,190	1,132,902
4	Sold.....gallons.....	10,545	2,304	12,984	516,168	2,185	2,633	5,300	630	5,488
5	Cream sold.....gallons.....	.....	.....	95	105,961	1,500	.....	.....	.....	.....
6	Butter fat sold.....pounds.....	.....	.....	4,400	.....	.....	.....	.....	.....	.....
7	Butter—Produced.....pounds.....	85,110	83,648	419,950	559,712	292,813	260,714	202,455	105,382	371,945
8	Sold.....pounds.....	27,995	29,963	79,878	286,518	68,460	26,273	56,570	22,403	52,836
9	Cheese—Produced.....pounds.....	.....	.....	4,280	.....	.....	.....	.....	.....	.....
10	Sold.....pounds.....	.....	.....	3,385	.....	.....	.....	.....	.....	.....
11	Value of dairy products, excluding home use of milk and cream.....dollars.....	24,368	18,692	80,429	232,599	65,762	59,082	37,647	26,377	86,617
12	Receipts from sale of dairy products.....dollars.....	10,271	7,181	18,067	225,358	16,450	6,828	11,209	5,787	13,688
Poultry Products										
13	Poultry—Raised.....number.....	87,354	116,486	236,441	304,928	163,668	142,022	171,114	147,356	264,195
14	Sold.....number.....	35,617	48,580	101,074	141,452	53,286	40,272	78,527	37,644	80,139
15	Eggs—Produced.....dozens.....	207,556	221,979	478,960	835,162	353,150	168,840	459,936	360,722	323,040
16	Sold.....dozens.....	133,477	158,301	328,685	556,417	204,534	62,268	304,728	242,977	133,663
17	Value of poultry and eggs produced.....dollars.....	78,690	103,622	187,061	318,816	129,420	69,439	173,128	137,511	137,677
18	Receipts from sale of poultry and eggs.....dollars.....	42,658	60,553	96,363	197,056	62,324	23,795	98,564	67,628	50,969
Honey and Wax										
19	Honey produced.....pounds.....	194	1,670	35,723	37,100	7,221	5,604	11,648	2,705	8,392
20	Wax produced.....pounds.....	.....	.....	579	113	98	23	78	.....	137
21	Value of honey and wax produced.....dollars.....	34	206	4,374	4,463	1,047	813	1,327	348	1,190
Wool, Mohair, and Goat Hair										
22	Wool, fleeces shorn.....number.....	1,272	440	5,142	13,148	701	398	2,810	193	777
23	Mohair and goat hair, fleeces shorn.....number.....	.....	.....	39	.....	4	.....	.....	.....	.....
24	Value of wool and mohair produced.....dollars.....	1,653	794	5,901	17,609	787	574	3,473	301	963
DOMESTIC ANIMALS SOLD OR SLAUGHTERED										
25	Calves—Sold or slaughtered.....number.....	736	333	1,920	4,251	1,492	906	1,010	342	1,280
26	Other cattle—Sold or slaughtered.....number.....	503	205	12,379	12,169	1,423	651	3,512	211	1,082
27	Horses, mules, and asses and burros—Sold.....number.....	129	55	1,243	1,017	200	154	243	50	395
28	Swine—Sold or slaughtered.....number.....	3,907	2,632	13,983	22,705	7,578	4,095	8,819	3,277	8,786
29	Sheep and goats—Sold or slaughtered.....number.....	594	98	5,075	11,512	464	194	3,308	167	715
30	Receipts from sale of animals.....dollars.....	40,743	16,193	556,110	1,007,604	60,273	33,816	169,219	12,967	84,565
31	Value of animals slaughtered.....dollars.....	29,672	22,622	139,638	162,155	32,501	48,645	90,094	53,681	125,346

AGRICULTURE—VIRGINIA.

NATIVITY OF FARMERS; AND MORTGAGE DEBT, BY COUNTIES: APRIL 15, 1910—Continued.

[Comparative data for June 1, 1900, in italics.]

Table with 13 columns representing counties (Middlesex, Montgomery, Nansemond, Nelson, New Kent, Norfolk, Northampton, Northumberland, Nottoway, Orange, Page, Patrick, Pittsylvania) and rows 1-31 representing various metrics for each county.

* No mortgage reports were secured for farms operated by tenants and managers. (See explanation in text.)

SOLD OR SLAUGHTERED ON FARMS, BY COUNTIES: 1909—Continued.

Table with 13 columns representing counties and rows 1-31 representing metrics for each county, continuing from the previous table.

AGRICULTURE—VIRGINIA.

TABLE 2.—NUMBER, ACREAGE, AND VALUE OF FARMS CLASSIFIED BY TENURE; COLOR AND [Comparative data for June 1, 1900, in italics.]

	Powhatan.	Prince Edward.	Prince George.	Prince William.	Princess Anne.	Pulaski.	Rappahannock.	Richmond.	Roanoke.
FARMS OPERATED BY OWNERS									
1 Number of farms.....	700	1,207	793	1,043	884	888	801	862	997
2 <i>Number of farms in 1900.....</i>	<i>619</i>	<i>1,001</i>	<i>793</i>	<i>1,019</i>	<i>736</i>	<i>689</i>	<i>688</i>	<i>767</i>	<i>868</i>
3 Per cent of all farms.....	78.7	71.8	72.7	82.5	62.1	81.5	82.9	78.5	81.9
4 <i>Per cent of all farms in 1900.....</i>	<i>67.8</i>	<i>68.6</i>	<i>69.0</i>	<i>80.8</i>	<i>51.4</i>	<i>73.1</i>	<i>70.4</i>	<i>68.8</i>	<i>70.8</i>
5 Land in farms.....acres.....	99,304	128,971	95,007	128,217	69,907	123,100	135,856	70,278	109,596
6 <i>Improved land in farms.....acres.....</i>	<i>40,269</i>	<i>48,486</i>	<i>45,815</i>	<i>74,987</i>	<i>4,242</i>	<i>85,357</i>	<i>89,702</i>	<i>31,880</i>	<i>62,223</i>
7 Value of land and buildings.....dollars..	1,950,112	2,256,802	1,816,029	3,503,939	2,606,228	6,782,303	3,164,040	1,130,416	5,185,629
Degree of ownership:									
8 Farms consisting of owned land only.....	576	1,047	658	857	807	704	685	770	851
9 Farms consisting of owned and hired land.....	125	160	135	186	77	124	116	92	146
Color and nativity of owners:									
10 Native white.....	350	509	330	840	592	705	650	606	914
11 Foreign-born white.....	11	30	110	31	19	3	1	7	5
12 Negro and other nonwhite.....	339	662	347	172	273	90	150	249	78
FARMS OPERATED BY TENANTS									
13 Number of farms.....	178	460	287	190	521	175	149	220	198
14 <i>Number of farms in 1900.....</i>	<i>293</i>	<i>692</i>	<i>330</i>	<i>204</i>	<i>676</i>	<i>251</i>	<i>253</i>	<i>337</i>	<i>241</i>
15 Per cent of all farms.....	20.0	27.7	20.3	15.0	36.6	16.1	15.4	20.9	16.3
16 <i>Per cent of all farms in 1900.....</i>	<i>31.8</i>	<i>40.5</i>	<i>39.1</i>	<i>16.8</i>	<i>47.8</i>	<i>24.6</i>	<i>23.8</i>	<i>30.6</i>	<i>21.8</i>
17 Land in farms.....acres.....	24,742	49,216	28,561	27,723	28,420	7,752	12,272	23,420	14,025
18 <i>Improved land in farms.....acres.....</i>	<i>9,370</i>	<i>10,986</i>	<i>13,878</i>	<i>16,700</i>	<i>19,441</i>	<i>5,974</i>	<i>8,759</i>	<i>10,809</i>	<i>9,096</i>
19 Value of land and buildings.....dollars..	361,548	693,930	453,706	722,805	1,151,263	412,570	228,855	281,365	825,493
Form of tenancy:									
20 Share tenants.....	110	309	150	105	177	107	65	105	159
21 Share-cash tenants.....	5	5	3	13	23	4	18	6	10
22 Cash tenants.....	58	83	131	71	209	52	64	33	27
23 Tenure not specified.....	5	9	3	1	112	12	2	25	2
Color and nativity of tenants:									
24 Native white.....	82	205	126	172	301	165	124	140	175
25 Foreign-born white.....	1	4	10	1	1	1	1	1	1
26 Negro and other nonwhite.....	95	261	151	18	216	10	25	88	23
FARMS OPERATED BY MANAGERS									
27 Number of farms.....	12	9	11	31	18	26	16	7	23
28 <i>Number of farms in 1900.....</i>	<i>8</i>	<i>14</i>	<i>11</i>	<i>38</i>	<i>20</i>	<i>22</i>	<i>66</i>	<i>7</i>	<i>30</i>
29 Land in farms.....acres.....	8,000	2,474	5,095	14,291	3,793	11,129	7,004	900	7,384
30 <i>Improved land in farms.....acres.....</i>	<i>2,380</i>	<i>705</i>	<i>2,097</i>	<i>3,433</i>	<i>2,549</i>	<i>7,476</i>	<i>3,443</i>	<i>344</i>	<i>3,536</i>
31 Value of land and buildings.....dollars..	433,920	85,700	118,150	609,700	396,600	591,370	107,825	18,050	477,340
MORTGAGE DEBT REPORTS¹									
For all farms operated by owners:									
32 Number free from mortgage debt.....	586	990	552	818	644	720	677	709	837
33 Number with mortgage debt.....	106	206	229	221	231	104	117	87	157
34 Number with no mortgage report.....	8	11	12	4	9	4	7	6	3
For farms consisting of owned land only:									
35 Number reporting debt and amount.....	79	166	180	176	195	137	96	72	128
36 Value of their land and buildings.....dollars..	401,520	300,875	513,105	831,665	721,727	1,363,420	698,130	145,940	868,915
37 Amount of mortgage debt.....dollars..	86,576	79,896	145,240	214,057	174,512	183,770	151,736	33,941	219,066
38 Per cent of value of land and buildings.....	21.6	26.6	28.3	25.7	24.2	13.5	21.7	23.3	25.2

¹ No mortgage reports were secured for farms operated by tenants and managers. (See explanation in text.)

TABLE 3.—LIVE STOCK PRODUCTS, AND DOMESTIC ANIMALS

LIVE STOCK PRODUCTS									
Dairy Products									
1 Dairy cows on farms reporting dairy products.....	1,804	2,195	1,375	3,685	683	2,096	2,718	1,051	3,345
2 Dairy cows on farms reporting milk produced.....	1,660	2,148	1,237	3,651	676	2,082	2,676	1,034	3,340
3 Milk—Produced.....gallons.....	428,610	741,009	237,798	1,257,186	149,517	760,792	525,935	344,110	1,185,622
4 Sold.....gallons.....	27,894	31,405	21,290	425,655	12,160	20,463	320	186	323,203
5 Cream sold.....gallons.....		10,382		10,850	200		2		1,255
6 Butter fat sold.....pounds.....		1,730							167
7 Butter—Produced.....pounds.....	167,103	220,246	98,006	184,243	41,887	223,287	147,095	93,092	269,042
8 Sold.....pounds.....	40,441	43,513	43,203	76,851	7,976	73,788	30,236	14,044	120,773
9 Cheese—Produced.....pounds.....						1,600			2,400
10 Sold.....pounds.....						615			2,400
11 Value of dairy products, excluding home use of milk and cream.....dollars..	44,674	70,903	31,933	137,492	14,352	55,090	30,907	18,041	117,417
12 Receipts from sale of dairy products.....dollars..	15,353	25,043	18,302	113,903	5,831	22,379	7,800	3,006	81,681
Poultry Products									
13 Poultry—Raised.....number.....	94,984	145,092	82,263	102,544	149,160	87,345	99,354	112,803	106,930
14 Sold.....number.....	30,084	44,078	31,468	43,906	56,719	32,131	38,748	57,340	31,098
15 Eggs—Produced.....dozens.....	180,961	180,603	145,822	421,872	296,815	196,498	262,439	233,425	134,090
16 Sold.....dozens.....	96,318	60,000	78,165	315,456	197,427	96,368	194,744	186,549	67,074
17 Value of poultry and eggs produced.....dollars..	72,585	80,845	67,861	138,215	130,820	80,879	99,924	94,193	65,882
18 Receipts from sale of poultry and eggs.....dollars..	28,706	27,190	25,958	92,859	69,054	45,744	62,240	63,541	26,402
Honey and Wax									
19 Honey produced.....pounds.....	2,488	5,745	303	17,198	497	13,342	13,864	3,029	12,734
20 Wax produced.....pounds.....	27	96	20	85	19	85	106	20	236
21 Value of honey and wax produced.....dollars..	347	904	37	1,979	44	1,897	1,449	324	1,945
Wool, Mohair, and Goat Hair									
22 Wool, fleeces shorn.....number.....	299	410	638	2,155	2,393	14,900	4,451	1,108	1,163
23 Mohair and goat hair, fleeces shorn.....number.....		25		22	9				75
24 Value of wool and mohair produced.....dollars..	402	513	762	2,749	2,596	20,080	5,604	1,770	1,002
DOMESTIC ANIMALS SOLD OR SLAUGHTERED									
25 Calves—Sold or slaughtered.....number.....	907	691	697	2,201	470	461	415	790	1,170
26 Other cattle—Sold or slaughtered.....number.....	453	508	120	3,905	430	5,478	7,642	950	1,871
27 Horses, mules, and asses and burros—Sold.....number.....	82	76	96	343	59	307	300	73	238
28 Swine—Sold or slaughtered.....number.....	3,810	6,200	4,701	8,059	4,417	7,567	7,877	3,440	5,380
29 Sheep and goats—Sold or slaughtered.....number.....	134	233	137	1,545	680	15,556	2,448	611	1,203
30 Receipts from sale of animals.....dollars..	28,162	20,509	20,546	260,957	21,049	430,634	411,280	21,951	110,032
31 Value of animals slaughtered.....dollars..	41,036	74,021	39,735	57,383	27,684	94,114	69,736	53,001	74,351

AGRICULTURE—VIRGINIA.

NATIVITY OF FARMERS; AND MORTGAGE DEBT, BY COUNTIES: APRIL 15, 1910—Continued.

[Comparative data for June 1, 1900, in Italics.]

Table with 13 columns for counties (Rock-bridge, Rockingham, Russell, Scott, Shenandoah, Smyth, Southampton, Spotsylvania, Stafford, Surry, Sussex, Tazewell, Warren, Warwick) and 31 rows of data.

SOLD OR SLAUGHTERED ON FARMS, BY COUNTIES: 1909—Continued.

Table with 13 columns for counties (Rock-bridge, Rockingham, Russell, Scott, Shenandoah, Smyth, Southampton, Spotsylvania, Stafford, Surry, Sussex, Tazewell, Warren, Warwick) and 31 rows of data.

TABLE 2.—NUMBER, ACREAGE, AND VALUE OF FARMS CLASSIFIED BY TENURE; COLOR AND

[Comparative data for June 1, 1900, in italics.]

	Washing- ton.	Westmore- land.	Wise.	Wythe.	York.	Alexandria city.	Bristol city.	Bucua Vista city.	Charlot- tes- ville city.
FARMS OPERATED BY OWNERS									
1	Number of farms.....	2,652	900	1,278	1,395	900	2	7	2
2	Number of farms in 1900.....	<i>2,294</i>	<i>862</i>	<i>884</i>	<i>1,105</i>	<i>945</i>	<i>7</i>	<i>6</i>	<i>9</i>
3	Per cent of all farms.....	73.6	75.3	73.8	83.9	85.5	100.0	58.3	100.0
4	Per cent of all farms in 1900.....	<i>67.8</i>	<i>69.3</i>	<i>69.3</i>	<i>83.3</i>	<i>82.8</i>	<i>63.6</i>	<i>66.7</i>	<i>69.2</i>
5	Land in farms.....acres	263,794	84,880	93,891	199,771	85,890	16	12	4
6	Improved land in farms.....acres	173,397	41,575	41,899	122,881	16,310	10	10	4
7	Value of land and buildings.....dollars	10,122,562	1,489,218	2,753,907	8,361,343	1,470,361	12,000	20,000	16,000
Degree of ownership:									
8	Farms consisting of owned land only.....	2,105	858	1,158	1,171	790	2	1	2
9	Farms consisting of owned and hired land.....	547	132	120	224	170	.....	5	.....
Color and nativity of owners:									
10	Native white.....	2,598	577	1,263	1,335	444	1	1	7
11	Foreign-born white.....	3	.....	7	8	43	1	.....	.....
12	Negro and other nonwhite.....	51	413	.....	52	473	.....	.....	1
FARMS OPERATED BY TENANTS									
13	Number of farms.....	931	319	440	243	110	.....	5	.....
14	Number of farms in 1900.....	<i>1,072</i>	<i>376</i>	<i>382</i>	<i>173</i>	<i>193</i>	<i>4</i>	<i>5</i>	<i>4</i>
15	Per cent of all farms.....	25.8	24.3	25.9	14.0	0.8	.....	41.7	.....
16	Per cent of all farms in 1900.....	<i>31.7</i>	<i>30.2</i>	<i>29.9</i>	<i>18.0</i>	<i>16.9</i>	<i>39.4</i>	<i>33.3</i>	<i>30.8</i>
17	Land in farms.....acres	44,741	32,097	27,149	31,487	8,256	.....	57	137
18	Improved land in farms.....acres	28,335	18,927	9,569	15,113	3,300	.....	57	127
19	Value of land and buildings.....dollars	1,597,587	443,810	652,153	971,909	225,380	.....	7,000	7,500
Form of tenancy:									
20	Share tenants.....	689	242	190	184	39	.....	1	3
21	Share-cash tenants.....	42	5	61	6	2	.....	.....	.....
22	Cash tenants.....	138	66	180	34	63	.....	.....	.....
23	Tenure not specified.....	62	6	18	19	6	.....	2	2
Color and nativity of tenants:									
24	Native white.....	915	163	445	230	57	.....	3	5
25	Foreign-born white.....	.....	.....	.....	.....	1	.....	.....	.....
26	Negro and other nonwhite.....	16	156	4	7	52	.....	.....	.....
FARMS OPERATED BY MANAGERS									
27	Number of farms.....	19	0	4	24	53	.....	.....	.....
28	Number of farms in 1900.....	<i>17</i>	<i>6</i>	<i>10</i>	<i>48</i>	<i>3</i>	.....	.....	.....
29	Land in farms.....acres	6,191	1,552	2,334	25,949	6,445	.....	.....	.....
30	Improved land in farms.....acres	3,400	960	433	11,979	3,617	.....	.....	.....
31	Value of land and buildings.....dollars	488,450	51,020	24,050	879,940	213,405	.....	.....	.....
MORTGAGE DEBT REPORTS¹									
For all farms operated by owners:									
32	Number free from mortgage debt.....	2,360	840	1,196	1,215	822	2	1	6
33	Number with mortgage debt.....	254	144	68	177	133	.....	.....	.....
34	Number with no mortgage report.....	38	6	14	3	5	.....	.....	.....
For farms consisting of owned land only:									
35	Number reporting debt and amount.....	186	114	46	138	101	.....	.....	1
36	Value of their land and buildings.....dollars	1,084,850	228,205	124,215	718,845	275,665	.....	.....	9,500
37	Amount of mortgage debt.....dollars	181,593	55,857	22,042	116,521	80,351	.....	.....	1,006
38	Per cent of value of land and buildings.....	16.7	25.8	17.7	16.2	29.1	.....	.....	11.2

¹ Territorial change. (See explanation at close of text.)

TABLE 3.—LIVE STOCK PRODUCTS, AND DOMESTIC ANIMALS

LIVE STOCK PRODUCTS									
Dairy Products									
1	Dairy cows on farms reporting dairy products.....	7,712	2,136	3,016	3,614	1,110	.....	6	19
2	Dairy cows on farms reporting milk produced.....	7,600	2,004	3,015	3,614	1,038	.....	6	19
3	Milk—Produced.....gallons	2,436,670	440,982	1,108,987	1,311,168	237,262	.....	1,890	6,100
4	Sold.....gallons	225,942	9,713	35,838	1,699	12,065	.....	1,125	550
5	Cream sold.....gallons	175	.....	64	787	240	.....	.....	12
6	Butter fat sold.....pounds	.....	.....	.....	.....	.....	.....	.....	.....
7	Butter—Produced.....pounds	669,141	110,590	355,855	330,178	57,765	.....	150	1,725
8	Sold.....pounds	237,102	22,483	62,137	110,833	20,705	.....	.....	475
9	Cheese—Produced.....pounds	1,147	.....	205	220	.....	.....	.....	.....
10	Sold.....pounds	690	.....	80	70	.....	.....	.....	.....
11	Value of dairy products, excluding home use of milk and cream.....dollars	177,137	24,957	78,860	59,008	18,039	.....	270	410
12	Receipts from sale of dairy products.....dollars	93,348	6,913	18,288	20,689	8,632	.....	225	176
Poultry Products									
13	Poultry—Raised.....number	327,768	141,233	82,755	160,548	89,993	.....	250	1,102
14	Sold.....number	148,874	60,153	20,697	73,727	41,831	.....	100	415
15	Eggs—Produced.....dozens	649,443	392,872	147,222	330,045	199,282	.....	277	1,720
16	Sold.....dozens	392,907	302,315	61,093	197,378	130,397	.....	.....	553
17	Value of poultry and eggs produced.....dollars	242,245	145,726	56,170	134,006	70,313	.....	143	504
18	Receipts from sale of poultry and eggs.....dollars	136,047	93,933	20,491	79,282	40,700	.....	23	183
Honey and Wax									
19	Honey produced.....pounds	50,467	1,302	25,770	26,684	348	.....	.....	.....
20	Wax produced.....pounds	540	.....	163	214	.....	.....	.....	.....
21	Value of honey and wax produced.....dollars	6,130	168	3,790	3,201	46	.....	.....	.....
Wool, Mohair, and Goat Hair									
22	Wool, fleeces shorn.....number	14,226	1,457	2,692	16,349	360	.....	.....	.....
23	Mohair and goat hair, fleeces shorn.....number	24	.....	.....	560	.....	.....	.....	.....
24	Value of wool and mohair produced.....dollars	18,557	2,260	2,710	24,303	355	.....	.....	.....
DOMESTIC ANIMALS SOLD OR SLAUGHTERED									
25	Calves—Sold or slaughtered.....number	2,365	844	1,071	812	801	.....	2	4
26	Other cattle—Sold or slaughtered.....number	13,619	942	2,841	9,506	412	.....	3	10
27	Horses, mules, and asses and burros—Sold.....number	1,268	112	484	876	84	.....	.....	18
28	Pigs—Sold or slaughtered.....number	14,315	5,644	4,643	12,814	4,944	.....	.....	45
29	Sheep and goats—Sold or slaughtered.....number	16,335	816	2,577	18,832	235	.....	.....	.....
30	Receipts from sale of animals.....dollars	662,079	39,685	124,435	639,784	22,970	.....	100	3,070
31	Value of animals slaughtered.....dollars	193,956	59,754	53,117	174,606	40,130	.....	.....	125

NATIVITY OF FARMERS; AND MORTGAGE DEBT, BY COUNTIES: APRIL 15, 1910—Continued.

[Comparative data for June 1, 1900 in italics.]

	Clifton Forge city.	Danville city. ¹	Fredericksburg city.	Lynchburg city. ¹	Newport News city.	Norfolk city. ¹	Petersburg city.	Portsmouth city. ¹	Radford city.	Richmond city. ¹	Roanoke city.	Staunton city. ¹	Williamsburg city.	Winchester city.
1														
2	(1)	11	2	4	1	1	13		53	3	1	3	2	19
3		6	4	5	3	6	18		15	7	4	2	0	12
4	(1)	91.7	100.0	50.0	100.0	25.0	76.5		80.3	75.0	25.0	50.0	33.3	82.0
5		46.2	66.7	45.5	42.9	53.3	69.2		39.5	50.0	57.1	50.0	35.7	100.0
6			151	240	16	4	120		966	65	1	14	102	1,361
7			53	58	16	3	96		849	58	1	14	47	1,232
8		142,000	850	24,300	16,000	5,500	33,625		164,610	30,800	250	21,000	5,400	177,450
9		10	2	4	1	1	13		53	3	1	3	2	19
10		1												
11		10	2	2	1	1	10		43	3	1	1	2	10
12		1		1			2		10			2		
13		1		4		3	3		12		3	1	3	4
14	(1)	8.3	2	6	4	11	6		23		7			
15		38.5	33.3	54.5	57.1	61.1	25.1		18.2	75.0	10.7	50.0	17.4	
16	(1)	30		35		135	48		60.5	50.0	42.9			
17		30		35		85	48		556	30	8	120	560	
18		12,000		11,550		660,000	7,300		400	28	8	110	460	
19									34,010	16,150	180	2,250	28,000	
20		1							11	1	1		3	
21														
22				4			1		1	2		8	1	
23							3		2					
24				4			3		12	2		1	3	
25										1				
26		1					1				1	2	1	
27							1		1	1		2	1	
28	(1)						2					1		
29							150		5	14		597	223	
30							130		5	14		572	175	
31							20,000		8,000	14,000		35,153	15,000	
32		11	1	4	1	1	4		51	3	1	2	1	17
33			1				3		2			1	1	2
34							6							
35			1				2		1			1	1	2
36			700				12,700		1,500			0,000	5,000	35,000
37			300				7,500		200			200	1,300	15,200
38			42.9				59.1		13.3			2.2	26.0	43.4

¹ No mortgage reports were secured for farms operated by tenants and managers. (See explanation in text.)

SOLD OR SLAUGHTERED ON FARMS, BY COUNTIES: 1909—Continued.

1														
2		9	3	13	2		87		77	10	2	49	43	16
3		9		13			87		76	10	2	49	43	14
4		5,805		8,035			44,085		27,850	4,045	730	38,820	10,500	7,865
5		2,878		6,305	600		41,705		2,517	3,600	50	850		650
6									350					
7		1,640		1,750			2,204		8,819	95	365	50	300	1,350
8		1,000		1,200			2,044		2,304	25	100	35	100	
9														
10														
11		1,238		2,407	150		15,097		2,000	1,458	117	145	75	447
12		1,048		2,242	150		15,054		1,059	1,445	55	142	24	110
13		310		275	300		305		3,750	10	50	585	306	2,635
14		12		65	80		345		402		15	68		1,501
15		205		365	240		1,390		7,344	12	50	2,269	1,300	3,600
16				70	155		460		1,730			70		2,140
17		187		160	135		419		2,047	8	37	848	435	1,804
18		7		42	70		220		458		5	27		1,008
19														
20		40		100			65		80		1,000			1,320
21		10												25
22		11		15			8		16		160			174
23														
24														60
25							7		2	7			27	9
26									1				2	29
27		1		1					1					8
28				5					2				75	57
29														
30				87			20		150	35				2,811
31		25							60				1,835	230

AGRICULTURE—VIRGINIA.

TABLE 4.—VALUE OF ALL CROPS AND PRINCIPAL CLASSES THEREOF, AND

		THE STATE.	Accomac.	Albomarle.	Alexan- dria.	Alleghany.	Amelia.	Amherst.
VALUE OF ALL CROPS								
1	Total	dollars. 100,531,157	2,772,299	1,486,629	106,611	328,381	598,413	1,254,655
2	Cereals	dollars. 39,993,929	460,877	697,816	9,676	125,405	191,165	413,523
3	Other grains and seeds	dollars. 4,510,046	488	1,419	650	118	1,131	1,009
4	Hay and forage	dollars. 10,256,998	48,448	253,804	9,401	63,607	56,565	65,123
5	Vegetables	dollars. 17,338,490	2,071,997	183,109	23,527	67,658	46,041	149,093
6	Fruits and nuts	dollars. 4,442,334	93,565	163,312	6,871	14,259	10,735	65,017
7	All other crops	dollars. 23,088,454	96,924	182,169	56,480	57,334	292,770	559,990
SELECTED CROPS (acres and quantity)								
8	Cereals:							
9	Total	acres. 2,841,114	32,633	48,771	559	8,323	17,902	29,756
10		bushels. 50,283,074	646,419	935,936	16,332	158,823	254,516	548,742
11	Corn	acres. 1,800,359	32,327	31,207	455	5,023	13,329	17,333
12		bushels. 38,295,141	643,438	709,581	14,302	121,048	204,934	408,563
13	Oats	acres. 204,455	100	8,610	29	657	1,180	4,934
14		bushels. 2,884,405	998	134,725	804	8,389	14,905	61,538
15	Wheat	acres. 692,007	205	8,800	51	2,535	3,375	7,378
16		bushels. 8,076,989	1,953	90,105	761	28,450	34,599	77,691
17	Buckwheat	acres. 25,481				90	2	
18		bushels. 332,222		40		701	20	
19	Rye	acres. 47,800	1		27	14	16	111
		bushels. 438,345	30	1,334	465	164	58	980
20	Other grains:							
21	Dry peas	acres. 12,001	36	117			62	39
22		bushels. 66,488	180	435			301	251
23	Dry edible beans	acres. 4,777	2	6		6	28	64
24		bushels. 20,435	50	24	2	19	141	233
25	Peanuts	acres. 145,213					3	
		bushels. 4,284,340					100	
26	Hay and forage:							
27	Total	acres. 773,577	3,374	17,824	429	4,210	3,295	4,587
28		tons. 823,383	5,375	18,457	690	4,376	4,131	4,991
29	All tame or cultivated grasses	acres. 687,150	2,548	15,508	410	4,168	2,506	4,018
30		tons. 715,635	4,082	15,521	500	4,330	3,051	4,322
31	Timothy alone	acres. 169,325	167	4,253	385	1,567	164	770
32		tons. 169,891	333	4,284	513	1,672	150	864
33	Timothy and clover mixed	acres. 358,176	250	9,211	7	2,332	1,400	2,353
34		tons. 366,744	438	9,207	7	2,336	1,704	2,522
35	Clover alone	acres. 64,016	2,091	347	6	100	454	684
36		tons. 63,056	3,220	390	6	126	632	792
37	Alfalfa	acres. 3,126	0	16	2	13	11	12
38		tons. 3,203	22	31	4	42	27	15
39	Millet or Hungarian grass	acres. 11,434	25	202		98	25	9
40		tons. 14,589	54	245		110	34	12
41	Other tame or cultivated grasses	acres. 97,073	6	1,479	10	58	530	190
42		tons. 94,162	6	1,274	30	44	504	207
43	Wild, salt, or prairie grasses	acres. 8,249	4	228		24	61	30
44		tons. 8,294	7	148		25	94	46
45	Grains cut green	acres. 55,173	736	1,559	9	18	458	407
46		tons. 56,180	1,212	1,640	30	21	450	234
47	Coarse forage	acres. 22,990	86	529	10		150	132
		tons. 43,230	74	1,342	100		536	389
48	Special crops:							
49	Potatoes	acres. 86,927	14,519	669	99	434	119	634
50		bushels. 8,770,778	1,300,300	50,583	9,016	43,150	8,782	39,931
51	Sweet potatoes and yams	acres. 40,838	14,811	121	8	4	92	187
52		bushels. 5,270,202	2,420,149	10,858	705	384	7,776	13,435
53	All other vegetables	acres. 124,354	1,430	1,767	179	459	603	1,284
54	Tobacco	acres. 185,427		411			3,280	5,472
55		pounds. 132,979,300		355,479		100	2,703,531	5,102,762
56	Cotton	acres. 25,147						
57		bales. 10,480						
58	Cane, sorghum	acres. 8,288		77		18	20	77
59		tons. 41,449		410		112	54	245
	Sirup (made)	gallons. 441,189		5,318		1,104	585	4,084
FRUITS AND NUTS								
60	Orchard fruits:							
61	Total	acres. 9,609,789	31,370	470,420	4,043	50,874	31,980	234,881
62		bushels. 6,581,101	23,424	195,472	2,793	15,548	16,126	85,589
63	Apples	acres. 7,004,545	17,747	309,084	1,025	33,303	20,681	168,310
64		bushels. 6,103,941	18,204	194,436	1,773	14,807	15,972	80,740
65	Peaches and nectarines	acres. 1,586,605	7,007	80,043	1,335	10,918	8,268	41,514
66		bushels. 243,446	2,641	631	161	278	1,123	5,406
67	Pears	acres. 457,177	3,639	8,497	1,429	2,100	1,037	8,192
68		bushels. 74,486	1,524	241	790	62	10	691
69	Plums and prunes	acres. 171,067	700	5,771	15	1,429	344	2,259
70		bushels. 22,597	279	74	1	52		403
71	Cherries	acres. 352,783	1,182	9,023	234	2,578	1,118	3,692
72		bushels. 132,671	764	83	102	244	11	1,179
73	Quinces	acres. 34,256	121	929		436	21	550
74		bushels. 3,443	12	7		43	1	80
75	Grapes	acres. 424,701	1,224	30,919	576	2,139	2,545	4,656
		pounds. 4,108,694	4,640	149,870	3,800	24,632	11,178	15,984
76	Tropical fruits:							
77	Total	acres. 10,264	788	21		1		5
78	Figs	acres. 10,136	787	15		1		5
		pounds. 234,057	18,407	150				12
79	Small fruits:							
80	Total	acres. 7,295	993	88	70	1		36
81		quarts. 11,342,980	1,680,711	88,024	94,526	1,508	530	37,076
82	Strawberries	acres. 6,606	993	80	56			31
		quarts. 10,761,381	1,680,711	80,828	70,331	470	480	35,191
83	Nuts	acres. 53,184	28	8	28		69	5,233
84		pounds. 841,572	2,450	175	515		1,280	118,800

TABLE 5.—SELECTED FARM EXPENSES

1	Labor	Farms reporting	84,636	2,163	1,425	76	217	496	780
2		Cash expended	10,822,816	297,710	281,278	55,547	20,640	30,076	61,270
3		Rent and board furnished	2,531,378	108,440	72,337	5,467	9,330	14,779	10,111
4	Fertilizer	Farms reporting	111,277	2,788	1,080	57	201	884	1,142
5		Amount expended	6,032,455	512,748	50,367	5,098	5,605	35,417	32,044
6	Feed	Farms reporting	62,267	1,422	915	68	214	261	744
7		Amount expended	3,504,660	62,620	77,556	33,507	21,782	12,882	51,351
8	Receipts from sale of feedable crops		3,753,316	23,748	76,995	60	9,738	9,175	23,691

AGRICULTURE—VIRGINIA.

TABLE 4.—VALUE OF ALL CROPS AND PRINCIPAL CLASSES THEREOF, AND

Table with 10 columns: Crop Name, Greensville, Halifax, Hanover, Henrico, Henry, Highland, Isle of Wight, James City, King and Queen. Rows include 'VALUE OF ALL CROPS', 'SELECTED CROPS (acres and quantity)', and 'FRUITS AND NUTS'.

1 Less than one bale.

TABLE 5.—SELECTED FARM EXPENSES AND

Table with 10 columns: Expense Category, Greensville, Halifax, Hanover, Henrico, Henry, Highland, Isle of Wight, James City, King and Queen. Rows include Labor, Fertilizer, Feed, and Receipts from sale of feedable crops.

AGRICULTURE—VIRGINIA.

TABLE 4.—VALUE OF ALL CROPS AND PRINCIPAL CLASSES THEREOF, AND

		Smyth.	Southampton.	Spotsylvania.	Stafford.	Surry.	Sussex.	Tazewell.	Warren.	Warwick.	
VALUE OF ALL CROPS											
1	Total	dollars 905,976	2,209,878	551,140	459,655	932,254	1,210,865	879,368	474,274	208,726	
2	Cereals	dollars 472,531	457,280	274,366	200,117	208,168	230,396	420,224	317,501	60,323	
3	Other grains and seeds	dollars 2,507	1,033,267	1,043	211	415,836	577,392	1,936	1,402	1,821	
4	Hay and forage	dollars 128,116	13,602	90,521	69,313	29,799	47,280	178,776	53,846	34,053	
5	Vegetables	dollars 174,301	115,359	50,985	75,693	52,575	84,771	93,672	41,684	65,211	
6	Fruits and nuts	dollars 61,888	16,523	20,889	36,057	17,580	16,071	30,656	23,192	8,393	
7	All other crops	dollars 66,633	523,787	98,356	75,264	208,266	245,655	154,104	37,840	20,925	
SELECTED CROPS (acres and quantity)											
8	Cereals:										
9	Total	acres 28,156	36,865	25,598	18,744	12,938	18,091	23,530	24,420	3,588	
10	bushels 664,104	481,044	374,778	305,963	211,720	251,734	660,690	388,760	78,472		
11	Corn	acres 15,038	36,350	18,805	14,502	12,738	17,318	15,283	11,821	3,376	
12	bushels 474,880	472,308	302,510	256,737	207,870	243,250	443,616	244,356	74,120		
13	Oats	acres 2,662	400	2,245	1,707	1,151	598	4,031	1,167	155	
14	bushels 55,170	6,512	31,570	25,870	3,146	6,681	64,648	16,831	3,268		
15	Wheat	acres 8,150	58	4,470	2,384	32	126	3,437	10,600	53	
16	bushels 101,710	1,010	40,120	22,980	542	1,351	43,357	120,403	985		
17	Buckwheat	acres 2,108	2	47	6	4	176	13	2	
18	bushels 30,418	.....	25	286	65	28	2,193	136	60	
19	Rye	acres 120	70	68	14	10	46	598	794	
20	bushels 1,637	1,210	535	81	87	415	6,830	0,371	.....	
21	Other grains:										
22	Dry peas	acres 2	175	76	14	11	140	
23	bushels 2	1,076	390	81	74	1,088	.....	.....	.....
24	Dry edible beans	acres 28	.....	19	2	.....	132	.....	.....
25	bushels 223	.....	82	32	.....	17	465	.....	8
26	Peanuts	acres 36,270	.....	.....	.....	11,973	21,116	.....	79
27	bushels 1,189,912	6	.....	.....	.....	463,980	569,205	.....	2,128
28	Hay and forage:										
29	Total	acres 10,186	870	6,923	4,914	3,181	7,554	16,977	4,828	1,896	
30	tons 11,503	875	6,501	4,415	1,834	4,967	16,904	4,629	1,970		
31	All tame or cultivated grasses	acres 10,116	850	6,631	4,763	343	540	15,000	4,601	445	
32	tons 11,480	850	5,980	4,103	580	606	16,233	4,319	729		
33	Timothy alone	acres 2,458	27	522	1,433	22	34	7,744	2,005	33	
34	tons 2,778	65	534	1,270	36	38	7,762	2,602	54		
35	Timothy and clover mixed	acres 7,389	19	4,080	2,914	70	99	1,450	44		
36	tons 8,930	32	4,217	2,353	175	122	8,138	1,852	81		
37	Clover alone	acres 190	404	172	104	199	361	107	55		
38	tons 224	693	190	119	209	394	142	63	308		
39	Alfalfa	acres 2	13	41	3	13	16	.....	97	
40	tons 9	25	73	8	44	17	.....	107		
41	Millet or Hungarian grass	acres 69	12	154	129	26	24	40	27		
42	tons 75	30	105	127	32	32	48	36	10		
43	Other tame or cultivated grasses	acres 28	7	965	180	43	0	225	67		
44	tons 20	6	801	226	63	3	143	69	130		
45	Wild, salt, or prairie grasses	acres 4	.....	47	28	.....	53	17	.....	
46	tons 5	.....	36	35	.....	.....	24	12	.....	
47	Grains cut green	acres 85	28	215	44	2,825	2,904	.....	13	
48	tons 55	26	388	47	1,243	2,049	.....	.....	683
49	Coarse forage	acres 55	.....	30	79	13	4,020	24	197	
50	tons 192	.....	230	41	1,402	40	.....	282	185
51	Special crops:										
52	Potatoes	acres 687	140	253	200	171	152	540	184	304	
53	bushels 37,025	11,986	10,643	19,718	14,750	11,644	53,767	16,849	29,460		
54	Sweet potatoes and yams	acres 6	774	119	81	134	345	99	6		
55	bushels 482	83,411	11,459	8,754	10,276	38,671	1,560	612	11,617		
56	All other vegetables	acres 1,736	1,065	669	891	410	785	671	485		
57	Tobacco	acres 4	170	234	6	1	10	2	18		
58	pounds 2,775	6,128	207,083	4,787	100	5,680	320	20,800	915		
59	Cane, sorghum	acres 164	.....	61	12	.....	402	.....	.....
60	acres 804	.....	340	50	.....	3	292	.....	1
61	gallons 8,627	1	3,006	493	.....	8	11,804	13	64	
62	FRUITS AND NUTS										
63	Total	trees 65,565	41,361	69,551	71,486	67,073	23,297	80,610	75,048	10,860	
64	bushels 150,142	33,122	35,078	58,483	31,204	31,174	51,459	39,787	8,112		
65	Apples	trees 54,722	28,367	40,238	46,708	26,331	17,004	61,848	61,110	3,765	
66	bushels 140,457	25,817	32,412	50,170	26,497	20,625	47,276	37,008	6,053		
67	Peaches and nectarines	trees 3,288	9,900	15,303	16,522	23,245	4,225	5,093	7,490		
68	bushels 1,101	4,056	1,897	3,383	2,435	3,814	254	1,233			
69	Pears	trees 751	2,197	3,245	4,200	3,968	1,681	1,430	1,714		
70	bushels 611	863	927	1,030	1,107	882	202	70			
71	Plums and prunes	trees 623	583	1,556	1,367	824	352	92	1,178		
72	bushels 233	253	221	210	106	314	118	134			
73	Cherries	trees 5,998	221	2,393	2,440	411	141	11,541	3,186		
74	bushels 7,714	132	792	1,637	230	139	3,574	2,350			
75	Quinces	trees 18	1	211	147	27	8	308	63		
76	bushels 23	.....	9	6	.....	.....	.....	12	
77	Grapes	vines 1,561	234	3,175	10,225	3,877	580	5,273	1,655		
78	pounds 50,647	18,758	55,002	33,705	17,060	0,412	20,276	12,515	21,347		
79	Tropical fruits:										
80	Total	trees 3	128	7	10	82	5	69	
81	pounds 3	128	2	10	82	5	.....	.....	80
82	Small fruits	pounds 300	2,535	20	420	977	20	4,540	
83	Total	acres 4	2	12	18	2	15	3	4	9	
84	Strawberries	quarts 4,637	1,410	11,143	20,562	1,865	24,994	2,136	4,738	10,075	
85	acres 4	2	11	14	1	14	1	4	8		
86	quarts 3,671	1,360	9,081	15,898	1,200	23,774	632	3,068	8,075		
87	Nuts	trees 1,440	52	240	165	22	61	42	2		
88	pounds 14,050	1,611	140	7,110	3,110	2,400	1,461	.....	6,600	

TABLE 5.—SELECTED FARM EXPENSES AND

1	Labor	Farms reporting	831	1,406	720	700	690	845	700	436	156
2	Cash expended	dollars 111,262	179,535	71,714	67,572	76,291	108,914	117,265	63,742	24,126	
3	Rent and board furnished	dollars 12,003	56,470	15,815	19,935	17,477	18,815	24,844	14,259	8,827	
4	Fertilizer	Farms reporting	1,018	2,499	1,108	754	799	1,264	308	453	192
5	Amount expended	dollars 38,950	212,447	32,948	27,053	40,801	88,789	11,747	20,198	9,423	
6	Farms reporting	610	830	646	.....	394	488	505	291	141
7	Amount expended	dollars 25,483	30,154	33,872	34,420	16,238	26,208	25,337	18,235	14,537	
8	Receipts from sale of feedable crops	dollars 34,814	10,046	30,216	33,715	5,554	4,891	33,531	31,580	4,247	

AGRICULTURE—VIRGINIA.

ACREAGE AND PRODUCTION OF PRINCIPAL CROPS, BY COUNTIES: 1909—Continued.

	Washington.	Westmoreland.	Wise.	Wythe.	York.	Alexandria city.	Bristol city.	Buena Vista city.	Charlottesville city.	Clifton Forge city.	Danville city.	Fredricksburg city.	Lynchburg city.	Newport News city.
1	1,500,594	527,233	525,771	1,217,076	438,802	340	2,997	6,600	104	2,169	2,940	323	1,355	85
2	850,965	235,596	188,379	585,021	137,785	00	225	2,581	17		370	208	234	
3	7,780	4,955	386	1,408	0,075			6					25	
4	204,680	44,377	54,226	161,483	20,075	80	20	739			75	40	190	
5	158,479	119,408	122,178	301,093	140,097	200	2,680	2,304	143	2,169	532		663	
6	89,322	25,200	18,767	71,601	23,427		72	280	4		1,817	75	58	85
7	189,368	47,517	141,835	97,067	101,743			690			140		185	
8	56,131	22,600	13,510	34,047	10,348	2	23	187			24	13	19	
9	1,185,368	430,299	203,489	815,347	164,198	75	300	4,040	20		540	260	391	
10	32,191	16,811	11,852	15,775	10,171	2	23	137			18	13	13	
11	893,507	359,490	188,279	533,181	160,785	75	300	3,380	20		465	260	210	
12	4,442	1,275	1,453	3,955	108			14			6		6	
13	69,070	23,299	13,695	97,750	2,251			200			85		181	
14	18,073	4,509	97	12,295	42			36						
15	202,261	47,466	699	156,721	701			460						
16	1,293	2	18	908										
17	18,717	10	182	14,370	2									
18	91	3	90	855	15									
19	1,033	34	634	0,240	225									
20	10	256			27								1	
21	61	1,190		2	173			3					12	
22	543	23	26	4	152									
23	2,203	154	186	28	956								2	
24					227									
25		3			5,595									
26	18,294	3,612	4,440	12,713	1,854		2	54			2	7	9	
27	18,504	3,904	3,947	17,272	2,080	5	2	61			5	8	10	
28	17,922	2,720	4,275	12,562	626		2	54			2	7	9	
29	18,059	3,120	3,742	16,782	734	5	2	01			5	8	10	
30	3,138	237	1,175	1,371	67			38				7		
31	3,319	304	1,650	1,650	100			43				8		
32	12,836	447	2,544	10,319	45			5					9	
33	12,832	508	2,329	14,036	74			4			2		10	
34	298	1,932	59	123	218			0						
35	327	2,109	43	122	275			0			5			
36	16	15		1	86									
37	18	32		4	153									
38	593	32	248	316	36									
39	609	37	216	574	43		2	5						
40	1,041	67	249	432	74			8						
41	894	46	211	306	83	5								
42	21	19	24	12	167									
43	21	4	30	7	150									
44	255	863	112	21	1,078									
45	289	824	53	15	1,144									
46	96	10	38	118	83									
47	135	10	22	468	52									
48	835	214	544	1,553	1,363		4	4			2		1	
49	72,004	24,592	41,055	217,505	111,395		315	934	25		330		117	
50	142	169	36	261	261						3			
51	15,887	24,446	5,217	43	22,748			47	12		250		38	
52	1,508	2,036	871	2,200	781	5	20	10	2	23			12	
53	140	4	6								2			
54	87,074	676	1,655								800			
55														
56														
57	307	6	290	30	2									
58	1,849	18	1,592	209	14									
59	21,785	123	13,725	2,218	109									
60	148,514	53,974	87,781	101,233	20,217		29	1,041			218	40	154	68
61	198,734	44,843	27,216	125,350	24,701		114	130			1,058	245	26	40
62	116,766	21,823	68,217	80,995	11,300		20	700			125	25	40	40
63	189,028	33,617	20,472	116,932	16,707		90	130			643	200	11	20
64	17,243	23,862	9,881	9,355	5,041			300			13	5	20	
65	3,229	7,084	358	530	4,559						35	30		
66	2,883	5,333	1,993	2,177	2,511			19			62	5	25	
67	1,332	1,849	60	892	2,390		24				342	10		
68	1,893	1,309	1,781	1,215	597			12			8		14	
69	436	580	55	216	441						10		4	
70	8,935	1,689	5,845	6,934	724			10			4	5	54	28
71	4,570	1,511	265	6,530	611						3	5	11	20
72	767	6	48	530	25		1				6		1	
73	136	2		236	15						25			
74	2,204	1,484	1,863	2,470	3,200						28			
75	38,010	10,210	147	65,643	49,087						560			
76					400									30
77	3	39			400									30
78	100	340			17,015									350
79	27	5	8	14	21			2			3			
80	31,013	6,507	2,715	14,067	10,238			1,800	35		3,545		32	
81	7	3	1	6	19						3			
82	10,252	4,910	455	6,210	18,893			1,000	35		3,075			
83	4	15			19								30	
84	200	280			690								550	

RECEIPTS, BY COUNTIES: 1909—Continued.

1	1,468	590	579	848	566		2	6	2		6	1	4	1
2	149,510	55,005	24,273	150,567	34,858		800	160	700		1,075	25	345	310
3	21,245	17,642	4,018	18,082	5,120		90		120		103		60	
4	1,646	640	104	1,228	600		1	2	2		4		3	
5	54,688	46,205	2,222	81,193	27,841		125	46	60		280		122	
6	720	372	423	444	444		3	3	1		4		5	1
7	30,183	10,482	36,207	19,122	10,710		275	85	60		240		580	270
8	56,496	37,010	9,267	37,302	7,874		250	472			80	110	195	

TABLE 4.—VALUE OF ALL CROPS AND PRINCIPAL CLASSES THEREOF, AND ACREAGE AND PRODUCTION OF PRINCIPAL CROPS, BY COUNTIES: 1909—Continued.

		Norfolk city.	Petersburg city.	Portsmouth city.	Radford city.	Richmond city.	Roanoke city.	Staunton city.	Williamsburg city.	Winchester city.
VALUE OF ALL CROPS										
1	Total.....	dollars.. 19,475	3,224		17,739	924	198	9,406	7,109	21,731
2	Cereals.....	dollars.. 230	1,220		12,154	410	48	1,400	1,455	10,097
3	Other grains and seeds.....	dollars.. 576	60		110	300		85	480	
4	Hay and forage.....	dollars.. 60	665		1,775			2,357	1,264	2,052
5	Vegetables.....	dollars.. 14,685	601		2,954	207	135	4,823	3,010	686
6	Fruits and nuts.....	dollars.. 4,500	153		720	7	15	741		8,408
7	All other crops.....	dollars..			26					488
SELECTED CROPS (acres and quantity)										
Cereals:										
8	Total.....	acres.. 15	70		585	17	2	84	89	543
9		bushels.. 300	1,635		14,749	525	80	1,742	1,885	10,545
10	Corn.....	acres.. 15	66		420	17	2	47	82	310
11		bushels.. 300	1,595		12,034	525	80	1,309	1,600	6,370
12	Oats.....	acres.. 4	4		29				7	8
13		bushels.. 40			535				285	165
14	Wheat.....	acres..			128			37		213
15		bushels..			2,040			442		3,834
16	Buckwheat.....	acres..								
17		bushels..								
18	Rye.....	acres..								8
19		bushels..								80
Other grains:										
20	Dry peas.....	acres..				10				
21		bushels..				400				
22	Dry edible beans.....	acres..						2		
23		bushels..				4		14		
24	Peanuts.....	acres.. 17						8	11	
25		bushels.. 430						40	600	
Hay and forage:										
26	Total.....	acres.. 31			87			67	62	155
27		tons.. 4	48		121			307	87	161
28	All tame or cultivated grasses.....	acres.. 31			87			41	57	155
29		tons.. 4	48		121			117	80	161
30	Timothy alone.....	acres.. 5			20					110
31		tons.. 10			37					106
32	Timothy and clover mixed.....	acres.. 3			65			41	57	45
33		tons.. 5			80			117	80	55
34	Clover alone.....	acres.. 20								
35		tons.. 30								
36	Alfalfa.....	acres..								
37		tons.. 4			2					
38	Millet or Hungarian grass.....	acres..			4					
39		tons..								
40	Other tame or cultivated grasses.....	acres.. 3								
41		tons.. 3								
42	Wild, salt, or prairie grasses.....	acres..								
43		tons..								
44	Grains cut green.....	acres..						10		
45		tons..						60		
46	Coarse forage.....	acres..						10	5	
47		tons..						130	7	
Special crops:										
48	Potatoes.....	acres.. 2			19	2	1	11	17	8
49		bushels.. 150			1,108	200	150	1,803	1,320	781
50	Sweet potatoes and yams.....	acres.. 5							7	
51		bushels.. 470			35	20			504	
52	All other vegetables.....	acres.. 75			50	2	2	18	32	3
53	Tobacco.....	acres..								
54		pounds..								
55	Cotton.....	acres..								
56		bales..								
57	Cane, sorghum.....	acres..			2					
58		tons.. 8								
59	Sirup (made).....	gallons.. 53								
FRUITS AND NUTS										
Orchard fruits:										
60	Total.....	trees.. 20			1,658	23		289		5,868
61		bushels.. 30			479	2		708		11,335
62	Apples.....	trees.. 1,012			0			280		5,103
63		bushels.. 450			2			708		10,910
64	Peaches and nectarines.....	trees.. 382			5					402
65		bushels..								212
66	Pears.....	trees.. 20			107	12				262
67		bushels.. 30			1					205
68	Plums and prunes.....	trees.. 40			2					1
69		bushels.. 2								
70	Cherries.....	trees.. 58								8
71		bushels.. 20								8
72	Quinces.....	trees.. 15								
73		bushels..								
74	Grapes.....	vines.. 160			623	50	12	1,812		
75		pounds.. 500			8,605	100	100	8,420		
Tropical fruits:										
76	Total.....	trees.. 30								
77	Figs.....	trees.. 30								
78		pounds.. 400								
Small fruits:										
79	Total.....	acres.. 12	1		3					
80		quarts.. 15,000	1,000		2,247		100	200		
81	Strawberries.....	acres.. 12	1		2					
82		quarts.. 15,000	1,000		1,585		100	25		
83	Nuts.....	trees..								
84		pounds..								

TABLE 5.—SELECTED FARM EXPENSES AND RECEIPTS, BY COUNTIES: 1909—Continued.

1	Labor.....	Farms reporting.....	3	8		28	4	1	3	5	15
2		Cash expended.....	dollars.. 4,600	3,010		2,979	780	50	2,028	1,950	0,470
3		Rent and board furnished.....	dollars..	100		600	120	15	830	611	1,036
4	Fertilizer.....	Farms reporting.....	4	4		18	1		5	5	17
5		Amount expended.....	dollars.. 2,600	70		629	10		290	1,434	1,247
6	Feed.....	Farms reporting.....	2	3		21	3	1	5	3	9
7		Amount expended.....	dollars.. 175	2,550		970	595	40	391	2,075	1,303
8	Receipts from sale of feedable crops.....	dollars..		190		900			930		1,045

TABLE 6.—NUMBER AND VALUE OF DOMESTIC ANIMALS NOT ON FARMS, BY COUNTIES: APRIL 15, 1910.

	THE STATE.	Accomac.	Albemarle.	Alexandria.	Alleghany.	Amelia.	Amherst.	Appomattox.	Augusta.	Bath.	
1	Inclosures reporting domestic animals...	39,973	1,580	659	470	720	101	318	57	1,015	136
2	Value of domestic animals.....dollars..	6,835,454	181,362	91,216	217,143	100,434	20,045	34,237	13,595	141,080	55,749
3	Cattle:										
4	Total number.....	30,661	854	908	288	987	77	283	98	1,167	295
5	Value.....dollars..	1,078,182	17,511	28,041	9,741	28,675	2,110	8,235	2,520	34,024	6,374
6	Number of dairy cows.....	27,210	278	692	216	690	50	228	61	857	140
7	Horses:										
8	Total number.....	35,908	1,193	419	1,361	405	65	158	00	838	305
9	Value.....dollars..	4,540,316	122,226	55,934	180,044	51,250	7,225	21,788	7,020	95,817	46,633
10	Number of mature horses.....	34,994	1,131	407	1,350	394	50	147	58	801	304
11	Mules and asses and burros:										
12	Total number.....	6,700	205	31	138	140	62	10	10	21	3
13	Value.....dollars..	950,433	26,430	4,260	25,180	22,500	10,075	1,305	1,555	2,875	525
14	Number of mature mules.....	6,582	202	31	131	139	62	9	10	21	3
15	Sheep and goats:										
16	Total number.....	3,305	884	.....	12	36	7	1	.....	10	36
17	Value.....dollars..	11,775	1,915	.....	65	125	27	5	.....	23	126

	Bedford.	Bland.	Botetourt.	Brunswick.	Buchanan.	Buckingham.	Campbell.	Caroline.	Carroll.	Charles City.	
1	Inclosures reporting domestic animals...	358	65	470	110	127	70	370	109	251	2
2	Value of domestic animals.....dollars..	39,433	9,400	50,687	41,648	46,160	5,021	49,684	20,297	20,182	37
3	Cattle:										
4	Total number.....	331	86	507	77	224	67	413	181	316	1
5	Value.....dollars..	10,195	2,490	15,147	1,068	5,076	1,016	13,149	3,003	7,805	25
6	Number of dairy cows.....	282	62	404	56	152	52	358	114	202	1
7	Horses:										
8	Total number.....	220	40	269	131	104	24	244	124	60	.....
9	Value.....dollars..	20,943	5,080	34,455	21,000	14,720	2,700	20,115	15,285	7,375	.....
10	Number of mature horses.....	211	30	243	127	103	23	238	121	57	.....
11	Mules and asses and burros:										
12	Total number.....	5	4	28	104	134	4	24	36	27	.....
13	Value.....dollars..	410	675	3,355	18,125	25,405	300	4,405	5,845	3,000	.....
14	Number of mature mules.....	5	4	28	104	134	4	24	30	25	.....
15	Sheep and goats:										
16	Total number.....	319	85	546	127	148	70	453	224	318	2
17	Value.....dollars..	1,885	504	3,725	553	603	345	2,951	1,204	1,830	12
18	Sheep and goats:										
19	Total number.....	.....	.....	1	1	108	.....	1	.....	37	.....
20	Value.....dollars..	.....	.....	5	2	296	.....	4	.....	106	.....

	Charlotte.	Chesterfield.	Clarke.	Craig.	Culpeper.	Cumberland.	Dickenson.	Dinwiddie.	Elizabeth City.	Essex.	
1	Inclosures reporting domestic animals...	128	780	424	123	158	46	31	27	532	104
2	Value of domestic animals.....dollars..	25,938	61,680	55,035	15,470	31,230	4,235	3,770	12,046	84,480	15,809
3	Cattle:										
4	Total number.....	117	420	272	207	194	36	50	20	234	81
5	Value.....dollars..	3,103	12,276	8,519	6,612	4,980	960	1,107	518	9,170	1,932
6	Number of dairy cows.....	83	343	214	138	134	23	33	17	202	51
7	Horses:										
8	Total number.....	133	287	367	41	187	23	15	36	535	80
9	Value.....dollars..	10,885	26,940	42,075	4,365	24,297	2,515	2,134	3,100	61,688	9,570
10	Number of mature horses.....	129	282	344	30	183	23	15	36	529	85
11	Mules and asses and burros:										
12	Total number.....	35	109	3	32	6	3	2	51	73	45
13	Value.....dollars..	5,490	14,719	200	3,350	910	500	300	8,800	10,525	3,720
14	Number of mature mules.....	35	107	2	19	6	3	2	50	72	45
15	Sheep and goats:										
16	Total number.....	89	1,106	768	124	104	65	21	40	527	157
17	Value.....dollars..	550	7,710	4,230	870	934	290	148	228	3,055	647
18	Sheep and goats:										
19	Total number.....	.....	13	4	71	13	.....	.....	.....	17	.....
20	Value.....dollars..	.....	35	11	264	50	.....	.....	.....	98	.....

	Fairfax.	Fauquier.	Floyd.	Fluvanna.	Franklin.	Frederick.	Giles.	Gloucester.	Goochland.	Grayson.	
1	Inclosures reporting domestic animals...	471	570	70	78	178	403	342	147	3	174
2	Value of domestic animals.....dollars..	58,314	102,984	10,349	8,087	25,150	48,412	40,138	8,578	280	31,095
3	Cattle:										
4	Total number.....	310	682	92	84	238	438	515	65	2	203
5	Value.....dollars..	10,020	19,192	2,333	1,767	5,384	12,748	14,291	1,526	26	6,204
6	Number of dairy cows.....	270	484	73	46	151	320	359	38	1	175
7	Horses:										
8	Total number.....	411	646	41	43	122	283	164	68	3	104
9	Value.....dollars..	45,240	78,560	4,070	4,825	13,950	30,316	21,315	5,905	240	21,545
10	Number of mature horses.....	403	598	41	42	121	292	152	63	3	162
11	Mules and asses and burros:										
12	Total number.....	5	12	23	11	36	6	9	4	.....	10
13	Value.....dollars..	850	1,305	2,775	1,800	4,970	1,050	1,015	235	.....	2,800
14	Number of mature mules.....	5	11	21	11	36	6	9	4	.....	10
15	Sheep and goats:										
16	Total number.....	320	765	72	49	127	590	438	180	6	145
17	Value.....dollars..	2,187	3,805	537	295	755	3,827	3,423	912	14	1,078
18	Sheep and goats:										
19	Total number.....	3	30	9	1	37	141	23	.....	.....	19
20	Value.....dollars..	17	122	34	10	97	471	94	.....	.....	68

TABLE 6.—NUMBER AND VALUE OF DOMESTIC ANIMALS NOT ON FARMS, BY COUNTIES: APRIL 15, 1910—Continued.

	Richmond.	Roanoke.	Rock-bridge.	Rocking-ham.	Russell.	Scott.	Shenan-doah.	Smyth.	South-ampton.	Spot-sylvania.
1 Inclosures reporting domestic animals...	33	821	833	1,002	348	150	832	585	148	73
2 Value of domestic animals.....dollars..	6,130	96,359	118,295	178,451	54,803	17,532	100,048	65,252	30,164	0,074
3 Cattle:										
4 Total number.....	28	1,072	1,301	880	434	225	728	786	86	61
5 Value.....dollars..	822	32,724	32,400	27,596	14,332	6,506	20,036	23,421	2,328	1,401
6 Number of dairy cows.....	19	825	820	644	375	109	540	601	62	44
7 Horses:										
8 Total number.....	35	511	728	1,011	174	02	583	200	188	45
9 Value.....dollars..	4,030	54,814	77,173	135,972	20,698	7,700	73,521	32,739	25,360	4,705
10 Number of mature horses.....	31	499	078	972	171	01	555	245	188	44
11 Mules and asses and burros:										
12 Total number.....	8	30	10	36	50	16	8	43	22	26
13 Value.....dollars..	1,000	3,320	2,255	5,150	8,021	2,150	1,235	4,850	2,115	3,005
14 Number of mature mules.....	8	28	18	34	48	14	7	41	16	23
15 Swine:										
16 Total number.....	52	708	993	1,228	285	135	1,304	618	125	121
17 Value.....dollars..	278	5,501	6,282	9,242	1,842	1,026	9,967	4,224	352	493
18 Sheep and goats:										
19 Total number.....			44	123	2		328	8	3	1
20 Value.....dollars..			185	491	10		1,280	28	9	10

	Stafford.	Surry.	Sussex.	Tazewell.	Warren.	Warwick.	Washing- ton.	West- moreland.	Wiso.	Wytho.
1 Inclosures reporting domestic animals...	29	128	200	722	435	159	634	69	1,700	608
2 Value of domestic animals.....dollars..	7,342	13,777	34,729	97,290	51,241	14,040	81,744	0,444	212,091	81,343
3 Cattle:										
4 Total number.....	51	79	119	817	419	160	919	42	2,131	843
5 Value.....dollars..	1,438	1,555	2,963	32,570	11,795	4,452	27,089	1,100	60,060	22,886
6 Number of dairy cows.....	30	47	80	693	311	72	603	35	1,061	637
7 Horses:										
8 Total number.....	32	84	146	209	301	80	355	79	483	371
9 Value.....dollars..	3,800	8,425	17,400	28,993	34,052	6,545	47,955	7,935	60,305	40,084
10 Number of mature horses.....	30	83	138	201	273	80	348	75	475	303
11 Mules and asses and burros:										
12 Total number.....	7	26	72	236	16	13	29	2	687	57
13 Value.....dollars..	1,400	2,950	12,275	33,306	2,085	1,825	3,945	300	75,585	6,825
14 Number of mature mules.....	7	26	72	233	13	13	28	2	665	50
15 Swine:										
16 Total number.....	71	228	281	520	546	179	407	20	1,498	950
17 Value.....dollars..	670	750	1,995	3,321	3,257	845	2,858	109	10,119	4,942
18 Sheep and goats:										
19 Total number.....	5	11	2		11	108	27		6	3
20 Value.....dollars..	25	88	6		51	373	197		16	6

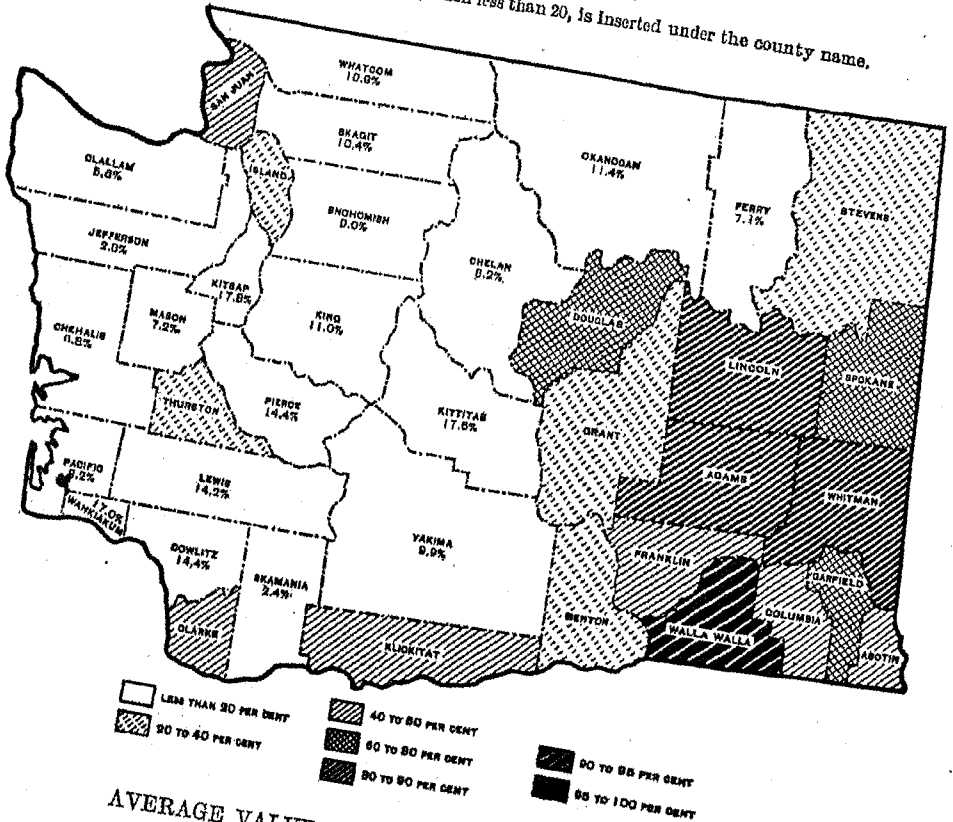
	York.	Alexandria city.	Bristol city.	Buena Vista city.	Charlottes- ville city.	Clifton Forge city.	Danville city.	Fredericks- burg city.	Lynchburg city.	Newport News city.
1 Inclosures reporting domestic animals...	206	125	104	340	184	217	674	243	697	177
2 Value of domestic animals.....dollars..	9,502	56,022	40,210	33,764	72,141	30,258	155,908	50,155	180,724	54,405
3 Cattle:										
4 Total number.....	276	69	150	304	121	259	542	112	641	90
5 Value.....dollars..	3,524	2,345	5,077	11,592	4,333	8,389	18,400	4,465	20,081	4,150
6 Number of dairy cows.....	157	54	149	305	111	215	477	107	688	86
7 Horses:										
8 Total number.....	45	354	275	165	377	172	682	284	1,029	287
9 Value.....dollars..	3,673	40,755	41,471	10,850	67,047	20,000	103,775	40,355	144,109	37,000
10 Number of mature horses.....	44	354	271	161	371	171	681	282	1,027	284
11 Mules and asses and burros:										
12 Total number.....	17	23	8	5	5	10	187	25	124	74
13 Value.....dollars..	1,150	3,760	1,210	575	750	1,575	33,680	4,275	16,425	12,400
14 Number of mature mules.....	17	23	8	5	4	10	187	25	124	74
15 Swine:										
16 Total number.....	370	12	88	230	1	10	25	154		24
17 Value.....dollars..	1,061	117	844	1,747	6	204	132	688		103
18 Sheep and goats:										
19 Total number.....	42	3	4		1		4	5	6	1
20 Value.....dollars..	94	55	17		5		21	52	10	2

	Norfolk city.	Petersburg city.	Portsmouth city.	Radford city.	Richmond city.	Roanoke city.	Staunton city.	Williams- burg city.	Winchester city.
1 Inclosures reporting domestic animals...	579	389	317	300	1,444	950	230	86	276
2 Value of domestic animals.....dollars..	320,583	91,577	113,148	40,010	632,807	208,480	100,060	9,309	57,084
3 Cattle:									
4 Total number.....	126	170	141	301	208	706	201	63	117
5 Value.....dollars..	6,218	5,433	5,433	12,238	9,301	23,142	7,275	1,416	3,810
6 Number of dairy cows.....	105	142	113	313	240	618	156	45	85
7 Horses:									
8 Total number.....	1,908	540	797	170	3,306	1,259	507	87	395
9 Value.....dollars..	290,034	64,832	94,318	24,777	447,051	164,853	88,540	7,010	48,003
10 Number of mature horses.....	1,906	537	794	101	3,385	1,243	498	87	380
11 Mules and asses and burros:									
12 Total number.....	227	147	106	14	1,119	100	32	2	21
13 Value.....dollars..	23,910	21,109	13,282	1,845	175,238	19,429	4,095	300	4,275
14 Number of mature mules.....	226	147	106	13	1,115	100	31	2	21
15 Swine:									
16 Total number.....	24	53	3	208	26	74	105	0	210
17 Value.....dollars..	178	163	10	1,431	116	907	738	43	1,700
18 Sheep and goats:									
19 Total number.....	62	8	22	61	36	9	2		39
20 Value.....dollars..	243	40	105	328	411	65	12		130

PER CENT OF LAND AREA IN FARMS, AND AVERAGE VALUE OF FARM LAND PER ACRE, IN WASHINGTON, BY COUNTIES: 1910.

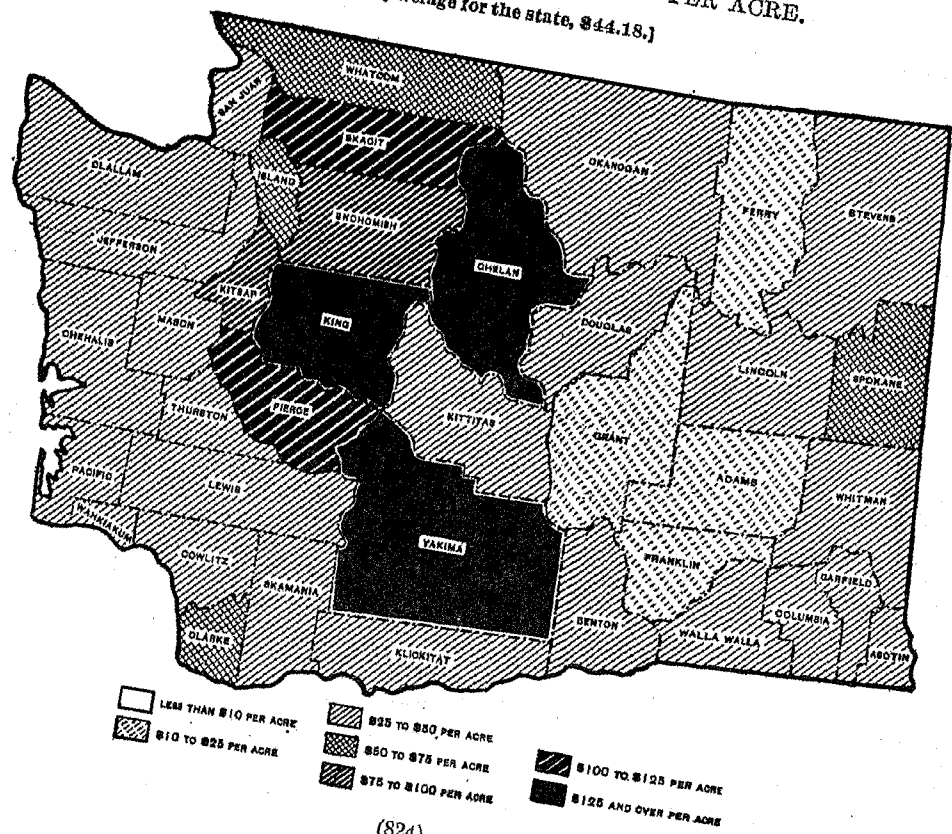
PER CENT OF LAND AREA IN FARMS.

[Per cent for the state, 27.4.]
 The per cent of land area in farms, when less than 20, is inserted under the county name.



AVERAGE VALUE OF FARM LAND PER ACRE.

[Average for the state, \$44.18.]



WASHINGTON.

FARMS AND FARM PROPERTY.

Washington ranks nineteenth in land area and thirtieth in population among the states of continental United States. The state ranges in elevation from sea level at the Pacific Ocean and Puget Sound to altitudes in excess of 14,000 feet in the Cascade Ranges. The coast country consists of benches and river valleys in the immediate vicinity of the sea. The Olympic Mountains, in the northwestern portion of the state, and the Coast Ranges, in the southwestern portion, constitute mountainous masses which separate this coast country through the greater portion of its extent from the basin of the Puget Sound region and from the basin traversed by the lower Columbia River. This interior valley rises to altitudes of 600 or 700 feet, and is bounded on the east by the foothills and ranges of the Cascade Mountains.

The state is crossed from north to south by the high ranges of the Cascade Mountains, which separate western from eastern Washington. Eastern Washington consists of the broad valley of the Columbia River, flanked on the east by numerous high mountain ranges with included valleys. The south central portion of the state consists of a high rolling plateau district, with numerous valleys and basins, which constitutes a portion of the great Intermountain Plateau region lying between the Cascade Mountains and the Rocky Mountains. The extreme southeastern portion of Washington is also mountainous in the vicinity of the Snake River.

The soils of the western coastal portion of the state at the lower elevations consist of silty loams and silty clay loams derived from the weathering of sandstones, shales, and basaltic rocks. The region is crossed by numerous alluvial valleys, where loams and silty clays predominate. The greater part of the agriculture of the region is confined to the alluvial valleys. The Columbia River Basin and the southern portion of the Puget Sound Basin are occupied by similar soils. All of the northern portion of the Puget Sound Basin has been glaciated, and the level benches and rolling uplands are occupied by a great variety of stony, gravelly, and sandy loam soils. Alluvial bottoms and partially filled lake basins are numerous in this region. Included areas of rough mountain country and the greater portion of the higher elevations are heavily forested, as are also the rough, rugged, and nonagricultural regions of the Olympic Mountains, the Coast Ranges, and the Cascade Ranges.

The intermountain valleys in the north central and northeastern portions of the state consist chiefly of glacial deposits and of glacial outwash. The mountain ridges are forested.

The western portion of the great Intermountain Plateau region is arid and the soils consist of fine sands,

sandy loams, and clay soils derived from basaltic rocks, volcanic ash, and ancient lake sediments. The more easterly portion of the plateau region consists of high, rolling to somewhat mountainous country, the soils of which are derived from the weathering of basaltic rock, and to a considerable extent from the fine silty wind blown material which has been deposited over the rolling country in eastern and southeastern Washington.

The two maps on the opposite page show, for the different counties, the proportion of the total land area which is in farms and the average value of farm land per acre. Of the state's entire land area more than one-fourth (27.4 per cent) is in farms. As shown by the first map, the counties in which the proportion is highest are located largely in the southeastern part of the state. Thus in one county (Walla Walla) the proportion is 91.4 per cent, while in three counties it is from 80 to 90 per cent, and in three others between 60 and 80 per cent. The proportion is between 40 and 60 per cent in six counties, of which five are on or near the southern border of the state, and one, San Juan, on Puget Sound. In five counties the proportion of land in farms is between 20 and 40 per cent; of these, three are in the eastern part of the state and two in the western part. In 20 counties, located mostly in the mountainous regions of the western and central portions of the state, the proportion is less than 20 per cent. The proportion varies considerably among these 20 counties, ranging from 2.4 per cent in Skamania County to 17.8 in Kitsap County.

For the state as a whole, the average value of farm land per acre is \$44.18. As shown by the second map, the average value is in no county less than \$10, while in three counties, located in the central and west central parts of the state, the average is over \$125 per acre, and in two in the western part between \$100 and \$125 per acre. In Snohomish and Kitsap Counties, both bordering on Puget Sound, the average value of farm land is between \$75 and \$100 per acre, while in Island, Clark, and Whatcom Counties, all situated in the western part of the state, and in Spokane County, in the eastern part, the average values are between \$50 and \$75 per acre. In 23 counties, which are well distributed over the state, the average value is between \$25 and \$50 per acre, and in four in the eastern part of the state the average is between \$10 and \$25 per acre.

Progress during the decade 1900 to 1910.—Between 1900 and 1910 there was an increase of 22,990, or 69.2 per cent, in the number of farms in Washington, as compared with an increase of 120.4 per cent in the population of the state. The total farm acreage and the acreage of improved land both increased; the former

37.8 per cent and the latter 83.9 per cent. The average size of the farms decreased 18.6 per cent.

The total value of farm property, which includes that of land, buildings, implements and machinery, and live stock (domestic animals, poultry, and bees), has increased \$493,503,000, or 342.6 per cent, since 1900. Land alone increased in value 421 per cent, as compared with increases of 234.6 per cent in the value of buildings, 166.4 per cent in that of implements and machinery, and 120.5 per cent in that of live stock. In considering the increase of values in agriculture the general increase in the prices of commodities in the last 10 years should be borne in mind.

The average value of a Washington farm, including its equipment, is \$11,346, an increase of 161.5 per cent over the value in 1900. The average value of land per acre rose from \$11.68 in 1900 to \$44.18 in 1910, a gain of \$32.50, or 278.3 per cent. This increase was due mainly to the inclusion in 1900 of a considerable acreage of very low-priced land, for which no report was secured in 1910.

The following table summarizes for the state the more significant facts relating to population and land area, the number, value, and acreage of farms, and the value of all other farm property in 1910 and 1900:

NUMBER, AREA, AND VALUE OF FARMS.	1910 (April 15)	1900 (June 1)	INCREASE. ¹	
			Amount.	Per cent.
Population.....	1,141,990	518,103	623,887	120.4
Number of all farms.....	56,192	33,202	22,990	69.2
Approximate land area of the state..... acres..	42,775,040	42,775,040	.....	.....
Land in farms..... acres..	11,712,235	8,499,297	3,212,938	37.8
Improved land in farms..... acres..	6,373,311	3,465,960	2,907,351	83.9
Average acres per farm.....	208.4	256.0	-47.6	-18.6
Value of farm property:				
Total.....	\$637,543,411	\$144,040,547	\$493,502,864	342.6
Land.....	517,421,998	99,310,510	418,111,488	421.0
Buildings.....	54,546,459	16,299,200	38,247,259	234.7
Implements and machinery.....	16,709,844	6,271,630	10,438,214	166.4
Domestic animals, poultry, and bees.....	48,865,110	22,159,207	26,705,903	120.5
Average value of all property per farm.....	\$11,346	\$4,338	\$7,008	161.5
Average value of land per acre.....	\$44.18	\$11.68	\$32.50	278.3

¹ A minus sign (-) denotes decrease.

NOTE.—Ranges or ranches using the public domain for grazing purposes, but not owning or leasing land, were counted as farms in 1910 and 1900. They were included as owned or managed, free from mortgage, and under 3 acres in size. The counting of these ranges as farms affects all totals, averages, and percentages in which the number of farms is a factor. In 1910 there were 94 such ranges included as farms.

Irrigation.—Of the 56,192 farms in the state, 7,664, or 13.6 per cent, were reported as irrigated in 1909. The acreage reported as irrigated in 1909 was 334,378 acres, or 5.2 per cent of the improved land in farms. The area to which enterprises existing in 1910 were capable of supplying water was 470,514 acres, and the total acreage included in irrigation projects completed or under way in 1910 was 817,032 acres.

Population, number of farms, and farm acreage: 1870 to 1910.—During each of the four decades since 1870 a very considerable increase has occurred in the population of the state, in the number of farms, in the total farm acreage, and in the acreage of improved farm land. During these 40 years the population of the state increased 1,118,035, or nearly forty-seven times, the greatest absolute increase of the period being 623,887 for the last decade. The number of farms is 56,192, an increase of 69.2 per cent as compared with the number for 1900 (33,202), and more than three times the number for 1890 (18,056).

The table following presents, for the state as a whole for each census from 1870 to 1910, inclusive, a statement of the total population, the number of farms, and the acreage of farm land and of improved land in farms. It also gives the percentage of the land

area in farms, the percentage of farm land improved, and the percentage of increase during each decade in the number of farms and in the land in farms.

CENSUS YEAR.	Popu- lation.	FARMS.		LAND IN FARMS.			Per cent of land area in farms.	Per cent of farm land im- proved.
		Num- ber.	Per cent of in- crease.	All land.		Improved land (acres).		
				Acres.	Per cent of in- crease.			
1910.....	1,141,990	56,192	69.2	11,712,235	37.8	6,373,311	27.4	54.4
1900.....	518,103	33,202	83.9	8,499,297	103.4	3,465,960	19.9	40.8
1890.....	357,232	18,056	178.6	4,179,100	196.6	1,820,832	9.8	43.6
1880.....	75,116	6,529	108.8	1,409,421	117.1	484,346	3.3	84.4
1870.....	23,955	3,127	.....	649,139	.....	192,016	1.6	29.6

¹ Change of area of territory makes data for 1860 not comparable.

The total land area of the state is approximately 42,775,040 acres, of which 11,712,235 acres, or 27.4 per cent, are included in farms. Of the farm land, 6,373,311 acres, or 54.4 per cent, are reported as improved. In 1870 the total acreage of farm land was but 649,139 acres, of which 192,016 acres, or 29.6 per cent, were reported as improved. Thus in 40 years the total farm acreage increased continuously from 1.5 per cent to 27.4 per cent of the total land

area, by far the greatest absolute increases occurring during the last two decades.

The increase in the proportion of farm land which is improved shows that the increase in the improved farm acreage has been relatively greater than the increase in the total farm acreage. This rising proportion of improved land is noticeable for each decade except that between 1890 and 1900. On account of the greater relative increase in the total than in the improved acreage during that decade, the proportion improved decreased from 43.6 per cent in 1890 to 40.8 per cent in 1900.

Values of farm property: 1870 to 1910.—The agricultural changes in Washington since 1870, as reflected in the values of the several classes of farm property, are shown in the table which follows:

CENSUS YEAR.	FARM PROPERTY.							
	Total.		Land and buildings.		Implements and machinery.		Domestic animals, poultry, and bees.	
	Value.	Per cent of increase.	Value.	Per cent of increase.	Value.	Per cent of increase.	Value.	Per cent of increase.
1910	\$637,543,411	342.6	\$571,968,457	394.8	\$16,709,844	166.4	\$48,865,110	120.5
1900	144,040,547	43.0	115,609,710	38.5	6,271,630	99.1	22,159,207	57.0
1890	100,724,970	38.4	83,461,660	50.2	3,150,200	223.6	14,113,110	136.2
1880	20,777,044	226.0	13,844,224	248.0	958,513	241.7	15,074,307	184.0
1870	6,362,235	.....	3,978,341	.....	280,551	.....	2,103,343	.....

¹ Includes estimated value of range animals.
² Change of area of territory makes data for 1800 not comparable.

The total wealth in the form of farm property is \$637,543,000, of which \$571,968,000, or nearly nine-tenths, is contributed by land and buildings. In 1870 the value of land and buildings was but \$3,978,000, since which time it has continuously increased. It is now nearly five times as great as it was in 1900, having increased 394.8 per cent during the decade. A continuous advance since 1870 has also occurred in the value of live stock and in that of implements and machinery. In each of the three classes the absolute gain has been very much greater during the last 10 years than during any other decade covered by the table.

Of the total value of farm property at the present time, land and buildings represent 89.7 per cent, live stock 7.7 per cent, and implements and machinery 2.6 per cent, as compared with 80.3 per cent, 15.4 per cent, and 4.4 per cent, respectively, in 1900. Except during the decade 1890-1900 the proportion which land and buildings represented of the total value of farm property increased throughout the period covered by the table. The decreasing relative importance of live stock as compared with that of implements and machinery may also be noted. Thus, while in 1870 the value of the former was about seven times that of the latter the proportion had decreased in 1890 to about four and one-half times and in 1910 to about three times.

Average acreage and values per farm: 1870 to 1910.—The changes which have taken place during the past 40 years in the average acreage of Washington farms and in the average values of the various classes of farm property, as well as in the average value per acre of land and buildings, are shown in the following table:

CENSUS YEAR.	Average acres per farm.	AVERAGE VALUE PER FARM. ¹				Average value of land and buildings per acre.
		All farm property.	Land and buildings.	Implements and machinery.	Domestic animals, poultry, and bees.	
1910	208.4	\$11,346	\$10,170	\$207	\$870	\$48.84
1900	256.0	4,338	3,482	189	667	13.60
1890	231.4	5,578	4,622	174	782	19.97
1880	215.0	3,182	2,120	147	615	9.82
1870	207.6	2,035	1,272	90	673	6.13

¹ Averages are based on "all farms" in state.
² Includes estimated value of range animals.
³ Change of area of territory makes data for 1800 not comparable.

The average size of the Washington farm is 208.4 acres, a decrease, as compared with 256 acres in 1900. The present average is slightly greater than in 1870, when it was 207.6 acres, but is less than in any intervening year shown in the table.

The state has in its eastern portion a great amount of semiarid land upon which are many live stock ranches. These ranches, which are larger than most other farms in the state, account in great measure for the large average size of farms. During the past few decades their number has formed a constantly decreasing proportion of the total number of farms in the state; and since the more recently developed farms, which are mainly of the general farming or fruit-growing type, are much smaller in size, the average size of all farms has been reduced.

The average value of a Washington farm, including its equipment, is \$11,346, which is more than twice the value in any other year shown by the table. In 1870 the average value was \$2,035. It increased during the following 20 years to \$5,578, but decreased during the next decade to \$4,338. As pointed out in the census reports for 1900, the decrease between 1890 and 1900 in average value of land and buildings per acre and per farm resulted largely from the addition to the category of farm land of a considerable acreage of range land which was of little value. This land was at censuses prior to 1900 free range, but in 1900 was held by individuals, either under ownership or lease, and reported as in farms.

Farm tenure: 1880 to 1910.—The number of all farms, and therefore of all farm operators, is 56,192. Of the operators, 47,505 are classified as owners, 961 as managers, and 7,726 as tenants. Of the owners, 41,729 operate land owned exclusively by them, while 5,776 operate land which they rent in addition to that which they own. The farmers classified as tenants are further distributed according to the character of their tenure; thus, 3,459 are share tenants, 255 share-cash

tenants, 3,089 cash tenants, and for 923 no report relative to character of tenure was secured. The proportion of tenants in Washington is less than that for the Pacific division (17.2 per cent), and is only a little more than one-third that for the United States as a whole (37 per cent).

The tenants now form 13.7 per cent of the total number of farmers. This percentage is a little smaller than in 1900, but is considerably larger than in 1880 or 1890. For the sake of comparing the state figures for 1910 with those of previous census years, the share-cash tenants have been grouped with the share tenants, and similarly the tenants for whom the form of tenure was unreported have been grouped with the cash tenants. Although the number in each group increased continuously and rapidly in each decade since 1880, the share and share-cash group outnumbered the cash and nonspecified group in 1900 as in 1890 and in 1880. During the last decade, however, the relative importance of these groups has been reversed, the cash and nonspecified group now representing 7.1 per cent of the total number of farm operators, and the share and share-cash group 6.6 per cent.

The following table shows the distribution of the farms of the state according to character of tenure at each census since 1880:

TENURE.	1910	1900	1890	1880
Number of all farms.....	50,192	33,202	18,058	6,520
Farms operated by owners and managers.....	48,466	28,425	16,529	6,058
Farms consisting of owned land only.....	41,729	24,521	(1)	(1)
Farms consisting of owned and hired land.....	5,776	3,409	(1)	(1)
Farms operated by managers.....	661	405	(1)	(1)
Farms operated by tenants.....	7,726	4,777	1,527	471
Share tenants.....	3,459	2,436	989	202
Share-cash tenants ²	255			
Cash tenants.....	3,089		541	200
Tenure not specified ³	923	2,341	541	200
Per cent of farms operated by—				
Owners and managers.....	80.3	85.6	91.5	92.8
Tenants.....	13.7	14.4	8.5	7.2
Share and share-cash.....	6.6	7.3	5.5	4.0
Cash and nonspecified.....	7.1	7.1	3.0	3.2

¹ Not reported separately.
² Share-cash tenants were doubtless largely included with share tenants in 1900, 1890, and 1880.
³ Prior to 1910 nonspecified tenants were included with cash tenants.

The following table shows the total and improved acreage and the value of land and buildings for farms operated by owners (including part owners), managers, and tenants, respectively:

FARMS OPERATED BY—	ALL LAND IN FARMS (ACRES).		IMPROVED LAND IN FARMS (ACRES).		VALUE OF LAND AND BUILDINGS.	
	1910	1900	1910	1900	1910	1900
Total.....	11,712,235	8,499,297	6,373,311	3,465,900	\$571,968,457	\$115,609,710
Owners.....	9,115,171	6,998,988	4,700,830	2,840,444	430,024,440	92,447,700
Managers.....	529,082	373,499	159,401	70,040	20,414,474	3,970,950
Tenants.....	2,067,982	1,126,810	1,463,014	555,476	111,929,543	19,191,060

The next table shows the per cent distribution by tenure groups of the items in the preceding table, and also of the number of farms.

It will be seen that in 1910, 77.8 per cent of all land in farms was in farms operated by their owners (in-

cluding part owners), 4.5 per cent in farms operated by managers, and 17.7 per cent in farms operated by tenants, the percentage for owners being lower and that for tenants and for managers higher than in 1900.

FARMS OPERATED BY—	PER CENT OF TOTAL.							
	Number of farms.		All land in farms.		Improved land in farms.		Value of land and buildings	
	1910	1900	1910	1900	1910	1900	1910	1900
Total.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Owners.....	84.5	84.4	77.8	82.3	74.7	82.0	75.3	80.0
Managers.....	1.7	1.2	4.5	4.4	2.5	2.0	5.1	3.4
Tenants.....	13.7	14.4	17.7	13.3	22.8	16.0	19.6	16.6

As shown by the next table, the average size of farms operated by managers in 1910 (550.6 acres) was more than twice as great as that of farms operated by tenants (267.7 acres), which in turn was considerably larger than that of farms operated by owners (191.9 acres). The average size of farms operated by tenants increased between 1900 and 1910, while that of farms operated by owners and by managers decreased. In 1910 the percentage of farm land improved was highest for farms operated by tenants, and lowest for those operated by managers.

FARMS OPERATED BY—	AVERAGE ACRES PER FARM.				PER CENT OF FARM LAND IMPROVED		AVERAGE VALUE OF LAND AND BUILDINGS.			
	All land.		Improved land.		1910	1900	Per farm.		Per acre.	
	1910	1900	1910	1900			1910	1900	1910	1900
Total.....	208.4	256.0	113.4	104.4	54.4	40.8	\$10,179	\$3,482	\$48.84	\$13.00
Owners.....	191.0	249.8	100.2	101.4	52.2	40.0	9,005	3,209	47.24	13.21
Managers.....	550.6	922.2	165.0	172.9	30.1	18.8	30,608	0,805	55.00	10.03
Tenants.....	267.7	235.0	188.1	116.3	70.3	49.3	14,487	4,017	54.13	17.03

Farm mortgages: 1890 to 1910.—The Eleventh Census (1890) was the first to collect data relating to mortgage debt on farms. The basis of the returns was the "farm home" occupied by its owner. The same class of information was secured by the population schedules of the Twelfth Census (1900). The agricultural schedules of the Thirteenth Census (1910) secured practically the same information, except that the basis was "owned farms" instead of "owned farm homes"—a difference involving, however, no appreciable incomparability.

The next table relates to farms operated by persons owning all or part of the land, and shows for 1910 (1) the number of such farms reported as free from mortgage; (2) the number reported as mortgaged; and (3) the number for which no mortgage reports were secured. Comparable items are included for 1900 and 1890.

In 1910 the total number of farms owned in whole or in part by the operators was 47,505. Of this number 30,979 were reported as free from mortgage; 16,026 were reported as mortgaged; and for 500 no report relative to mortgage indebtedness was obtained. The number of mortgaged farms constituted 34.1 per cent of the total number of owned farms, exclusive of those for which no mortgage report was

obtained, the percentage being somewhat larger than it was in 1900 and 1890. It may be noted that the percentages given for the three censuses are comparable, but that the number of mortgaged and unmortgaged farms reported in 1890 is not entirely comparable with the numbers reported at the later censuses because at the census of 1890 the farms for which no reports were secured were distributed between the two classes of mortgaged and unmortgaged farms. It can be seen, however, that from 1890 to 1900 the number of farms free of mortgage increased much more rapidly than the number mortgaged, but that during the last decade the number of mortgaged farms showed the greater increase, the number free of mortgage increasing by 9,386 and the number mortgaged by 10,025.

CLASS.	OWNED FARMS, ¹		OWNED FARM HOMES.		OWNED FARM HOMES, ²	
	1910		1900		1890	
	Number.	Per cent. ³	Number.	Per cent. ³	Number.	Per cent.
Total.....	47,505		28,016		19,820	
Free from mortgage.....	30,079	65.9	21,593	78.3	14,309	73.2
Mortgaged.....	16,026	34.1	6,001	21.7	5,251	26.8
Unknown.....	500		422			

¹ Includes all farms owned in whole or in part by the operator.
² The 576 "owned farm homes" for which no reports were secured were distributed between "free from mortgage" and "mortgaged" in 1890.
³ Per cent of combined total of "free from mortgage" and "mortgaged."

The statement of mortgage debt and of the value of mortgaged farm property is restricted to the farms of those farmers who own all of their land and report the amount as well as the fact of indebtedness. Of the 16,026 farms reported as mortgaged, 13,255 are wholly owned by the farmers, and for 12,715 of these the amount of mortgage debt is reported. Only these last-mentioned farms are included for 1910 in the next table, which presents data relating to mortgaged farms for 1910 and 1890. In this connection it should be noted that in 1890 the amount of mortgage debt of farms with incomplete reports was estimated according to the percentages and averages obtained from farms with full reports, but that no such estimate is here made for 1910. The table gives a comparative statement of the value of mortgaged farms owned entirely by their operators and the amount of indebtedness, together with the average value of such farms, the average debt per farm, and the average equity per farm for 1910 and 1890. Data regarding the amount of mortgage debt were not obtained in 1900.

	OWNED FARMS OR FARM HOMES MORTGAGED.		INCREASE.	
	1910 ¹	1890 ²	Amount.	Per cent.
	Number			
Number.....	12,715	5,251		
Value—Land and buildings.....	\$113,394,798	\$24,320,083		
Amount of mortgage debt.....	\$25,044,551	\$6,986,100		
Per cent of debt to value.....	22.6	28.6		
Average value per farm.....	\$8,918	\$4,632	\$4,286	92.5
Average debt per farm.....	\$2,017	\$1,327	\$890	62.0
Average equity per farm.....	\$6,901	\$3,305	\$3,596	108.8

¹ Includes only farms consisting wholly of owned land and reporting value of farm and amount of debt.
² Includes all owned farm homes, estimates being made of value of farms and amount of debt for all defective reports.

The average debt of mortgaged farms increased in the 20-year period from \$1,327 to \$2,017, or 52 per cent, while the average value of such farms rose from \$4,632 to \$8,918, or 92.5 per cent. Thus the owner's equity increased from \$3,305 to \$6,901, or 108.8 per cent. As a result of the greater relative increase in the total farm value than in the total farm debt, the mortgage indebtedness, which was 28.6 per cent of the value of the mortgaged farm in 1890, was only 22.6 per cent of this value in 1910.

Farms by size groups: 1910 and 1900.—About one-fourth (24.7 per cent) of the farms in the state consist of 100 to 174 acres, nearly one-fifth (18.2 per cent) consist of 20 to 49 acres, and slightly more than one-eighth (12.6 per cent) are of 50 to 99 acres in size. Thus these three groups together comprise more than one-half of the total number of farms in the state. During the decade the numbers in all the groups increased, but in varying ratios, thus changing the relative importance of the groups. The small farms, or those that consist of under 50 acres each, and the very large farms, or those of 500 acres and over, constitute a larger proportion of all farms now than in 1900; those between these sizes a smaller proportion.

The following table shows the distribution of farms by size groups at the censuses of 1910 and 1900:

SIZE GROUP.	NUMBER OF FARMS.		INCREASE.		PER CENT OF TOTAL.	
	1910	1900	Number.	Per cent.	1910	1900
Total.....	56,192	33,202	22,990	69.2	100.0	100.0
Under 3 acres.....	563	358	205	57.3	1.0	1.1
3 to 9 acres.....	4,593	1,056	3,537	334.9	8.2	3.2
10 to 19 acres.....	5,373	1,011	3,702	233.5	9.0	4.8
20 to 49 acres.....	10,252	4,240	6,012	141.8	18.2	12.8
50 to 99 acres.....	7,105	4,387	2,718	62.0	12.6	13.2
100 to 174 acres.....	13,884	11,240	2,635	23.4	24.7	33.9
175 to 259 acres.....	3,080	2,400	680	28.7	5.5	7.2
260 to 499 acres.....	6,126	4,038	1,188	24.1	10.9	14.9
500 to 999 acres.....	3,481	2,015	1,466	72.8	6.2	6.1
1,000 acres and over.....	1,726	948	778	82.1	3.1	2.8

The following table shows the total and improved acreage and the value of land and buildings for farms of various size groups, consolidating into one group the farms of less than 20 acres (numbering in all 1,0529), and also the farms of between 175 and 499 acres (numbering 9,215):

SIZE GROUP.	ALL LAND IN FARMS (ACRES).		IMPROVED LAND IN FARMS (ACRES).		VALUE OF LAND AND BUILDINGS.	
	1910	1900	1910	1900	1910	1900
Total.....	11,712,235	8,499,297	6,373,311	3,465,960	\$571,968,457	\$115,609,710
Under 20 acres.....	91,282	28,471	66,475	18,879	50,780,532	3,734,500
20 to 49 acres.....	328,883	144,567	164,236	63,329	61,496,331	6,499,450
50 to 99 acres.....	523,088	332,077	218,786	122,537	52,667,859	9,067,440
100 to 174 acres.....	2,082,832	1,765,952	760,073	553,101	94,207,452	25,243,610
175 to 499 acres.....	2,898,427	2,374,994	1,692,749	1,198,795	132,453,455	35,359,740
500 to 999 acres.....	2,442,048	1,465,025	1,709,798	775,988	90,553,407	18,380,000
1,000 acres and over.....	3,344,775	2,448,211	1,821,104	733,331	89,309,361	17,315,370

The next table shows the per cent distribution, by size groups, of the items presented in the preceding table, and also of the number of farms.

SIZE GROUP.	PER CENT OF TOTAL.							
	Number of farms.		All land in farms.		Improved land in farms.		Value of land and buildings.	
	1910	1900	1910	1900	1910	1900	1910	1900
Total.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Under 20 acres.....	18.7	9.1	0.8	0.3	1.0	0.5	8.9	3.2
20 to 49 acres.....	18.2	12.8	2.8	1.7	2.6	1.8	10.8	5.6
50 to 99 acres.....	12.6	13.2	4.5	3.9	3.4	3.5	9.2	7.8
100 to 174 acres.....	24.7	33.9	17.8	20.8	11.0	10.0	16.5	21.8
175 to 499 acres.....	16.4	22.1	24.7	27.9	26.6	34.6	23.2	30.6
500 to 999 acres.....	6.2	6.1	20.9	16.5	26.8	22.4	15.8	15.9
1,000 acres and over.....	3.1	2.8	28.6	28.8	28.6	21.2	15.7	15.0

Of the total farm acreage of the state in 1910, 28.6 per cent was in farms of 1,000 acres and over, this being from the standpoint of aggregate acreage the most important size group, although it comprised only 3.1 per cent of the total number of farms. Between 1900 and 1910 there was an increase in the proportion of the total acreage which was in farms of under 100 acres and in farms of 500 to 999 acres, while there was a decrease in the proportion in farms of 100 to 499 acres and in farms of 1,000 acres and over.

As shown by the next table, the percentage of farm land improved is highest in farms of under 20 acres, but, outside of this group, the proportion is lower in farms of each size group under 175 acres than in those of 175 acres and over.

SIZE GROUP.	PER CENT OF FARM LAND IMPROVED.		AVERAGE VALUE OF LAND AND BUILDINGS.			
	1910	1900	Per farm.		Per acre.	
			1910	1900	1910	1900
Total.....	54.4	40.8	\$10,170	\$3,482	\$48.84	\$13.60
Under 20 acres.....	72.8	66.3	4,823	1,235	556.30	131.17
20 to 49 acres.....	40.9	43.8	5,998	1,533	186.99	44.96
50 to 99 acres.....	41.8	36.9	7,413	2,067	100.69	27.31
100 to 174 acres.....	33.6	31.3	0,785	2,244	45.23	14.20
175 to 499 acres.....	59.4	50.5	14,374	4,819	45.70	14.89
500 to 999 acres.....	70.0	55.2	20,014	9,126	37.07	13.00
1,000 acres and over.....	51.4	30.0	52,633	18,265	26.85	7.07

DOMESTIC ANIMALS, POULTRY, AND BEES.

Domestic animals on farms: 1910.—The census of 1910 was taken as of April 15, and that of 1900 as of June 1. Since a great many domestic animals are born during the six weeks between April 15 and June 1, and on the other hand a considerable number of older animals are slaughtered or die during the same period, the numbers of the different classes of animals for the two censuses are not closely comparable, and the same is true in somewhat less degree of the values. For this reason the figures for 1900 are not presented in this bulletin, but in the general reports of the census the figures for the several states will be presented and the extent to which their comparability is affected by the change in the date of enumeration will be discussed.

The next table summarizes the statistics of domestic animals on farms for the state, recorded as of April 15, 1910. Cattle and sheep are divided into age and sex

Owing to the fact that buildings have normally a higher value in proportion to farm acreage in small than in large farms, the average value of land and buildings per acre of land in general diminishes with the increase in the size of the farms; it is very much higher for the farms under 20 acres in size than for those of any other group.

Color and nativity of farmers: 1910.—Prior to the Thirteenth Census no attempt was made to secure information on the farm schedules concerning the nativity of farmers. The table which follows shows the color and nativity of farm operators by character of tenure for 1910:

COLOR AND NATIVITY.	FARM OPERATORS.							
	Total.		Owners.	Tenants.	Managers.	Per cent of total.		
	Number.	Per cent distribution.				Own-ers.	Ten-ants.	Man-agers.
Total.....	56,192	100.0	47,505	7,728	961	84.5	13.7	1.7
Native white.....	37,770	67.2	31,163	5,838	769	82.5	15.5	2.0
Foreign-born white..	17,297	30.8	15,641	1,476	181	90.4	8.5	1.0
Negro and other nonwhite.....	1,125	2.0	701	413	11	62.3	36.7	1.0

More than two-thirds (67.2 per cent) of the Washington farmers in 1910 were native-born whites and more than three-tenths (30.8 per cent) were foreign-born whites. Only 1,125, or 2 per cent of the total, were nonwhites, 673 being Indians, 316 Japanese, 77 negroes, and 59 Chinese. Of the native-born white farmers, 15.5 per cent, and of the foreign-born white, 8.5 per cent, were tenants.

Of the 17,297 foreign-born white farmers in Washington in 1910, 3,687 were born in Germany; 2,399 in Sweden; 2,218 in Canada; 2,030 in Norway; 1,206 in England; 945 in Denmark; 871 in Russia; and 736 in Ireland. Other European countries were represented by a total of 2,977 farmers, and non-European countries, other than Canada, by 228.

groups, while horses, mules, and swine are presented by age groups only.

Of the total number of farms enumerated, 50,596, or 90 per cent, report domestic animals of some kind, the number without any domestic animals being 5,596.

Cattle are reported by 76.3 per cent of all farms, "dairy cows" by 74.8 per cent, and "other cows" by 17.7 per cent. The farms reporting "dairy cows" show an average of about four per farm, while those reporting "other cows" show an average of about six. The total number of cattle increased 1.8 per cent during the decade, owing mainly to the large increase in "dairy cows," which offset the decreases in the number of steers and bulls and calves. The census of 1900 was taken as of June 1, after all the spring calves were born, while that of 1910 was taken as of April 15, before the close of the calving season and when the

calves on hand were on the average younger than at the enumeration of 1900. As a result, the calves enumerated were fewer in number and of lower average value in 1910 than in 1900, the number decreasing from 105,130 to 57,188, and the average value decreasing from \$8.46 to \$7.37.

AGE AND SEX GROUP.	FARMS REPORTING.		ANIMALS.		
	Number.	Percent of all farms.	Number.	Value.	Average value.
Total.....	50,590	90.0	.....	\$47,370,775	.....
Cattle.....	42,885	76.3	402,120	12,193,465	\$30.32
Dairy cows (cows and heifers kept for milk, born before Jan. 1, 1909).....	42,030	74.8	180,233	7,988,133	42.80
Other cows (cows and heifers not kept for milk, born before Jan. 1, 1909).....	9,055	17.7	58,140	1,530,758	26.33
Heifers born in 1909.....	19,248	34.3	51,905	844,480	16.24
Calves born after Jan. 1, 1910.....	21,155	37.6	57,188	421,018	7.37
Steers and bulls born in 1909.....	6,940	12.4	20,120	350,737	17.43
Steers and bulls born before Jan. 1, 1909.....	5,829	10.4	24,711	930,109	37.88
Unclassified cattle.....	25	(1)	3,733	121,030	32.58
Horses.....	45,634	81.2	280,572	29,680,849	106.79
Mares, stallions, and geldings born before Jan. 1, 1909.....	45,495	81.0	241,624	27,839,750	115.22
Colts born in 1909.....	12,053	22.5	27,272	1,498,683	54.95
Colts born after Jan. 1, 1910.....	6,287	11.2	11,071	325,041	29.44
Unclassified horses.....	16	(1)	605	16,475	27.23
Mules.....	2,447	4.4	12,185	1,776,297	145.78
Mules born before Jan. 1, 1909.....	1,898	3.4	9,949	1,628,923	163.73
Mule colts born in 1909.....	737	1.3	1,673	125,587	75.07
Mule colts born after Jan. 1, 1910.....	853	0.6	503	21,787	38.70
Asses and burros.....	121	0.2	173	82,405	476.33
Swine.....	23,049	41.0	206,135	1,674,927	8.13
Hogs and pigs born before Jan. 1, 1910.....	20,403	36.3	127,356	1,431,280	11.24
Pigs born after Jan. 1, 1910.....	9,344	16.6	78,779	243,641	3.09
Sheep.....	2,155	3.8	475,555	1,931,170	4.06
Ewes born before Jan. 1, 1910.....	1,950	3.5	220,377	1,121,445	4.95
Rams and wethers born before Jan. 1, 1910.....	955	1.7	68,887	331,798	4.82
Lambs born after Jan. 1, 1910.....	1,041	2.0	180,291	477,927	2.65
Goats.....	417	0.7	8,021	31,662	3.67

¹ Less than one-tenth of 1 per cent.

Horses are reported by 81.2 per cent of all the farms in the state. It is noteworthy that 22.5 per cent report colts born in 1909 and 11.2 per cent report spring colts, since for the United States as a whole only 16.1 per cent report yearling colts and 6.9 per cent spring colts. The average value of mature horses is nearly three times that reported in 1900.

Mules are reported by only 4.4 per cent of the farms. Although they are four and one-half times as numerous as in 1900, their number is only 4.3 per cent of the number of horses. Their average values, however, are considerably higher than those of horses of the corresponding age groups.

Sheep and lambs are reported from 2,155 farms, 76.1 per cent of which report spring lambs, the number of the latter being equal to 79.6 per cent of the

number of ewes. Ewes are reported from all but 205 of the farms reporting sheep, the average being 116 ewes per farm. The farms reporting rams and wethers show an average of 72 per farm. The average flock (excluding spring lambs) numbers 137 sheep, while in 1900 it numbered about 200.

Of all farms, 41 per cent report swine, the average number being nearly nine per farm reporting. Only 16.6 per cent of all farms report spring pigs; this is doubtless due largely to the early date of enumeration. The average value of the swine reported under the head of "hogs and pigs born before January 1, 1910," is \$11.24 and that of spring pigs \$3.09.

Poultry on farms: 1910 and 1900.—The increase in the number of fowls on Washington farms during the last decade amounted to 916,060, or 67.5 per cent, while the value increased from \$615,000 to \$1,367,000, or 122.4 per cent. The number of farms reporting poultry increased from 26,340 to 44,906, or 70.5 per cent. Chickens represent 97 per cent of the number and 94.3 per cent of the value of all fowls. The increase in the number of chickens during the decade amounted to 84.2 per cent. Large decreases were reported in the number of turkeys, ducks, and geese. The value of poultry and the number of farms reporting were obtained in 1900 for the total of all fowls only, and not for each kind as in 1910.

The following table gives the numbers of the various kinds of poultry reported in 1910 and 1900, together with their value and the number of farms reporting each kind in 1910:

KIND.	1910 (April 15)				1900 (June 1)
	Farms reporting.		Number of fowls.	Value.	Number of fowls.
	Number.	Percent of all farms.			
Total.....	44,906	79.9	2,272,775	\$1,367,440	1,356,715
Chickens.....	44,802	79.8	2,204,114	1,283,328	1,196,639
Turkeys.....	3,557	6.3	30,040	36,353	29,155
Ducks.....	2,553	4.6	18,170	10,883	66,433
Geese.....	3,052	6.4	14,858	21,350	64,488
Guinea fowls.....	536	1.0	1,793	1,400	(1)
Pigeons.....	800	1.4	22,701	7,004	(2)
Poufowls.....	10	(3)	64	171	(3)
Phenants.....	5	(3)	57	252	(3)

¹ Included with chickens.

² Not reported.

³ Less than one-tenth of 1 per cent.

Bees on farms: 1910 and 1900.—The number of farms reporting bees has increased from 4,435 in 1900 to 5,886 in 1910, or 32.7 per cent. The number of colonies of bees increased from 30,870 to 33,884, or 9.8 per cent, and their value increased from \$106,841 to \$126,895, or 18.8 per cent. The average value of bees per farm reporting was \$24.09 in 1900 and \$21.56 in 1910. About one farm in every ten reports bees.

Domestic animals not on farms: 1910.—Most of the domestic animals not on farms are found in cities, towns, and villages. Statistics for such animals are shown below. No provision was made by law to

secure data pertaining to poultry and bees not on farms. In the table below age groups are omitted for the sake of brevity, but it may be noted that in cities and villages a comparatively small proportion of the animals of each class are in the younger age groups.

KIND.	Number of inclosures reporting.	ANIMALS.		
		Number.	Value.	Average value.
Total	20,509		\$7,558,077	
All cattle.....	11,103	21,730	820,520	\$37.76
Dairy cows.....	10,700	15,266	707,842	46.37
Horses.....	13,654	44,617	6,350,366	142.33
Mules.....	205	1,804	289,192	160.31
Asses and burros.....	85	114	32,105	281.02
Swine.....	937	4,274	44,763	10.47
Sheep.....	61	2,957	17,431	5.80
Goats.....	70	789	3,694	4.68

As would be expected, horses are by far the most important class of domestic animals not on farms, both in number and in value; cattle, about three-fourths of which are dairy cows, rank next in importance.

LIVE STOCK PRODUCTS.

The returns for live stock products obtained at the census of 1910, like those for crops, relate to the activities of the calendar year 1909. It is impossible to give a total representing the annual production of live stock products for the reason that, as shown elsewhere, the total value of products from the business of raising domestic animals for use, sale, or slaughter can not be calculated from the census returns. Even if this value could be ascertained and were added to the value of the crops the sum would not correctly represent the total value of farm products, because, as already more fully explained, duplication would result from the fact that part of the crops are fed to the live stock.

Dairy products: 1909 and 1899.—The number of farms reporting dairy cows on April 15, 1910, was 42,036, but only 33,416 reported dairy products in 1909. That there should be this difference is not surprising. Doubtless some farmers who had dairy cows in 1910 had none in 1909, while other farmers neglected to give information for the preceding year, or were unable to do so, perhaps because the farm was then in other hands. Dairy products in general are somewhat less accurately reported than the principal crops. This is particularly the case as regards the quantity of milk produced. The number of farms which made any report of milk produced during 1909 was 30,057 (somewhat less than the total number reporting dairy products), and the number of dairy cows on such farms on April 15, 1910, was 142,000. The amount of milk reported was 70,083,000 gallons; assuming that there were the same number of cows in 1909 as in 1910, this would represent an average of 495 gallons per cow. In considering this average, however, it should be borne in mind that the quantity of milk reported is probably deficient

Domestic animals on farms and not on farms: 1910.—The following table gives the total number and value of domestic animals, distinguishing those on farms from those not on farms:

KIND.	DOMESTIC ANIMALS.					
	Total.		On farms.		Not on farms.	
	Number.	Value.	Number.	Value.	Number.	Value.
Total		\$54,928,852		\$47,370,775		\$7,558,077
All cattle.....	423,850	13,013,991	402,120	12,193,465	21,730	820,520
Dairy cows.....	201,499	8,695,975	186,233	7,988,133	15,266	707,842
Horses.....	325,189	36,031,215	280,572	29,680,849	44,617	6,350,366
Mules.....	13,089	2,005,489	12,185	1,776,297	1,804	289,192
Asses and burros.....	287	114,510	173	82,405	114	32,105
Swine.....	210,409	1,719,690	209,135	1,674,927	4,274	44,763
Sheep.....	478,512	1,948,601	475,555	1,931,170	2,957	17,431
Goats.....	9,410	35,356	8,621	31,602	789	3,694

The total value of all domestic animals in the state in 1910 was \$54,929,000, of which the value of animals not on farms constituted 13.8 per cent.

and that the distinction between dairy and other cows is not always strictly observed in the census returns.

The following table shows the principal statistics relative to dairy products in 1909, with certain comparative statistics for 1899:

	FARMS REPORTING.		Number or quantity.	Unit.	VALUE.	
	Number.	Per cent of all farms.			Total.	Average per unit.
Dairy cows on farms April 15, 1910.....	42,036	74.8	186,233	Head.....		
On farms reporting dairy products in 1909.....	33,416	50.6	163,508	Head.....		
On farms reporting milk produced in 1909.....	30,057	53.5	141,508	Head.....		
Specified dairy products, 1909:						
Milk reported.....			70,083,033	Gals.....		
Butter made.....	24,074	43.9	6,751,575	Lbs.....	\$1,002,240	\$4.50
Cheese made.....	88	0.2	52,070	Lbs.....	6,787	0.13
Milk sold.....	5,005	10.0	25,524,200	Gals.....	3,880,000	0.15
Cream sold.....	3,343	5.0	1,011,261	Gals.....	1,460,024	0.73
Butter fat sold.....	3,750	0.7	4,380,283	Lbs.....	1,371,075	0.31
Butter sold.....	11,774	21.0	3,112,320	Lbs.....	641,286	0.50
Cheese sold.....	47	0.1	43,530	Lbs.....	5,189	0.12
Total receipts from sales, 1909					7,603,470	
Total value of milk, cream, and butter fat sold and butter and cheese made, 1909.....					8,746,041	
Specified dairy products, 1899:						
Butter made.....	19,114	57.6	7,372,106	Lbs.....		
Cheese made.....	208	0.6	151,689	Lbs.....		
Butter sold.....			4,172,820	Lbs.....	882,344	0.21
Cheese sold.....			120,670	Lbs.....	15,020	0.12

By reason of the incompleteness of the returns for milk produced, the Census Bureau has made no attempt to determine the total value of dairy products for 1909. For convenience a partial total has been presented comprising the reported value of milk, cream, and butter fat sold and the reported value of butter and cheese made, whether for home consumption or for sale. The total thus obtained for 1909 is

\$8,746,000, which may be defined as the total value of dairy products exclusive of milk and cream used on the farm producing.

Somewhat more than one-third of the milk reported as produced by Washington farmers in 1909 was sold as such. Large quantities of milk and cream were sold on the butter fat basis. The butter made on farms in 1909 was valued at \$1,992,000.

Comparisons are made between 1909 and 1899 for but few of the census items relating to dairy products, for the reason that in 1899 estimates were made for farms with incomplete reports, which was not done at the census of 1910. The figures for milk produced and milk sold are particularly affected, but those for butter and cheese are approximately comparable. The table shows a decrease between 1899 and 1909 in the amount of butter made and a decided decrease in the production of cheese.

Wool: 1909 and 1899.—The table below gives statistics as to the production of wool on farms, the figures being partly based on estimates:¹

	Number of farms reporting.	Sheep of shearing age.	WOOL PRODUCED.		
			Fleeces (number).	Weight (pounds).	Value.
Sheep of shearing age on farms April 15, 1910.....	2,005	205,264			
Wool produced, as reported, 1909.....	1,230		283,003	2,738,028	\$409,703
On farms reporting sheep April 15, 1910.....	1,127	242,515	204,830	2,575,217	440,825
On other farms.....	103		18,824	163,411	28,068
Total production of wool (partly estimated):					
1909.....			322,444	3,135,348	536,708
1899.....			576,555	5,268,088	618,975
Decrease, 1899 to 1909.....			254,111	2,132,740	82,267
Per cent of decrease.....			44.1	40.5	13.3

The total number of sheep of shearing age in Washington on April 15, 1910, was 295,000, representing a decrease of 47.1 per cent, as compared with the number on June 1, 1900 (558,000). The approximate production of wool during 1909 was 322,000 fleeces, weighing 3,135,000 pounds, and valued at \$537,000. Of these totals about one-eighth represents estimates. The number of fleeces produced in 1909 was 44.1 per cent less than in 1899. The average weight per fleece

¹ Farmers should be able in general to report the production of wool more accurately than that of dairy products. There were, however, 878 farmers who reported the possession of 52,749 sheep of shearing age on April 15, 1910, without reporting any wool produced in 1909. Probably in a large proportion of cases this failure was due to the fact that they did not have these sheep, or did not occupy the same farm, during the preceding year. The returns of farms reporting wool in 1909 but no sheep of shearing age on April 15, 1910, would partially make up this deficiency, but it is believed that in many cases enumerators, having found that a farm had no sheep in 1910, omitted the inquiry as to wool produced in 1909 and thus missed more or less wool actually produced. It is a fairly safe assumption that the entire production of wool in 1909 bore the same relation to the entire number of sheep of shearing age on April 15, 1910, as the production of wool on those farms reporting both production and sheep bore to the number of sheep reported on such farms. Statistics for this group of farms are given in the table, and the total wool product, estimated on the basis of the above assumption, is also given.

in 1909 was 9.7 pounds, as compared with 9.1 pounds in 1899, and the average value per pound was 17 cents, as compared with 12 cents in 1899.

Goat hair and mohair: 1909 and 1899.—Although 417 farmers reported 8,621 goats and kids on their farms April 15, 1910, only 164 reported the production of goat hair or mohair during 1909. These farmers reported 5,154 fleeces, weighing 19,120 pounds, and valued at \$4,666. Although the production is still comparatively unimportant, some increase is shown over that in 1899. Many farmers who have goats do not produce goat hair or mohair, but it is believed that the report is somewhat short of the actual production.

Poultry products: 1909 and 1899.—The statement below gives data relative to the production and sale of eggs and poultry:

	Number of farms reporting.	Number of fowls on hand.	PRODUCT.	
			Quantity.	Value.
Fowls on farms April 15, 1910.....	44,906	2,272,775		
On farms reporting eggs produced in 1909.....	35,088	1,985,607		
On other farms.....	8,918	287,168		
Eggs produced, as reported, 1909.....	36,507		14,326,464	\$3,740,599
Total production of eggs (partly estimated):				
1909.....			10,472,575	4,311,201
1899.....			7,473,790	1,259,225
Increase, 1899 to 1909.....			8,098,785	3,052,066
Per cent of increase.....			130.4	242.4
Eggs sold, as reported, 1909.....	26,621		8,572,408	2,302,128
Fowls on farms April 15, 1910:				
On farms reporting poultry raised in 1909.....	34,754	1,945,795		
On other farms.....	10,152	326,980		
Poultry raised, as reported, 1909.....	35,551			
Total poultry raised (partly estimated):				
1909.....			3,722,257	1,873,608
1899.....			849,201	120,9
Increase, 1899 to 1909.....			1,026,317	150.9
Per cent of increase.....			120.9	120.9
Fowls sold, as reported, 1909.....	20,040		1,250,830	693,002

The total number of fowls on Washington farms on April 15, 1910, was 2,273,000. Of the 44,906 farms reporting fowls, 8,918 did not report any eggs produced in 1909, and 10,152 did not report any poultry raised in 1909. The production of eggs actually reported for the year 1909 was 14,326,000 dozens, valued at \$3,750,000. According to the Twelfth Census reports, the production of eggs in 1899 was 7,474,000 dozens, the value being \$1,259,000. The latter figures, however, are somewhat in excess of the actual returns at that census, because they include estimates made to cover those cases where the schedules reported fowls on hand without reporting the production of eggs. In order to make the returns for 1909 comparable with those published for 1899 similar estimates have been made, the method of estimate and the justification therefor being substantially the same as in the case of wool. The total production of eggs in 1909, including these estimates, was 16,473,000 dozens, valued at \$4,311,000. The total production of poultry in 1909,

including estimates made on the same basis as for eggs, was 3,722,000 fowls, valued at \$1,874,000.

Honey and wax: 1909.—Although, as noted elsewhere, 5,886 farms reported 33,884 colonies of bees on hand April 15, 1910, 2,737 of these farms, with 9,150 colonies on hand April 15, 1910, made no report of honey or wax produced in 1909. The actual returns show the production of 503,580 pounds of honey, valued at \$65,196, and 4,038 pounds of wax, valued at \$1,195; the true totals are doubtless somewhat above these figures.

Sale or slaughter of domestic animals on farms: 1909 and 1899.—The total value of domestic animals sold during 1909 was \$7,772,000, and that of animals slaughtered on farms \$2,477,000, making an aggregate of \$10,249,000. This total, however, involves considerable duplication, resulting from the resale or slaughter of animals which had been purchased by the farmers during the same year.

The value of the cattle (including calves) sold during 1909 represented somewhat less than one-half of the total value of animals sold, and the value of horses sold represented somewhat more than one-fourth of the total.

The census of 1900 called for the receipts from the sale of all domestic animals raised on the farms reporting and the value of those slaughtered during 1899, which amounted, respectively, to \$3,517,000 and \$1,169,000. The item of sales is not closely comparable with that for 1909, when the inquiry covered all sales whether of animals raised on the farms

reporting or elsewhere. It is believed, however, that in many cases the returns for 1899 also included receipts from sales of animals not actually raised on the farms reporting.

The following statement presents statistics relating to the sale or slaughter of domestic animals by Washington farmers during the year 1909, with certain items for 1899:

	FARMS REPORTING.		Number of animals.	VALUE.	
	Num-ber.	Percent of all farms.		Total.	Aver-age.
1909—All domestic animals:					
Sold				\$7,771,950	
Slaughtered				2,477,800	
Calves:					
Sold	7,035	12.5	30,201	222,167	\$7.33
Slaughtered	10,345	18.4	44,238	350,570	8.00
Other cattle:					
Sold	13,335	23.7	94,368	3,216,251	34.08
Slaughtered	7,370	13.1	25,087	639,093	25.48
Horses:					
Sold	6,028	10.7	18,106	2,108,438	116.45
Mules:					
Sold	317	0.6	1,240	181,560	146.42
Asses and burros:					
Sold	15	(1)	86	6,755	78.55
Swine:					
Sold	7,702	13.8	121,880	1,291,725	10.60
Slaughtered	18,120	32.3	62,000	1,444,108	15.60
Sheep:					
Sold	720	1.3	177,160	741,226	4.18
Slaughtered	731	1.3	7,380	35,067	4.75
Goats:					
Sold	81	0.1	606	3,822	3.96
Slaughtered	90	0.2	680	2,552	3.72
1899—All domestic animals:					
Sold ¹				3,517,053	
Slaughtered				1,168,802	

¹ Less than one-tenth of 1 per cent.

² Schedules called for receipts from sales of animals raised on the farms reporting.

CROPS.

Summary: 1909 and 1899.—The following table summarizes the census data relative to all of the farm crops of 1909 and 1899. It includes not only general farm crops, but also flowers and plants, nursery products, and forest products of farms. In comparing one year with the other it should be borne in mind that acreage is on the whole a better index of the general changes or tendencies of agriculture than either the quantity or the value of the crops, since variations in quantity may be due largely to temporarily favorable or unfavorable climatic conditions, and variations in the value of the crops are largely affected by changes in prices. (See also discussion of "Total value of farm products.")

The total value of crops in 1909 was \$78,927,053. Of this amount, 89.7 per cent was contributed by crops for which the acreage as well as the value was reported, the remainder consisting of the value of by-products (straw, garden and grass seeds, etc.) derived from the same land as other crops reported, or of orchard fruits, nuts, forest products, and the like. The combined acreage of crops for which

acreage was reported was 3,431,273, representing 53.8 per cent of the total improved land in farms (6,373,311 acres). Most of the remaining improved land doubtless consisted of improved pasture, land lying fallow, house and farm yards, and land occupied by orchards and vineyards, the acreage for which was not reported.

The general character of Washington agriculture is indicated by the fact that somewhat less than three-fifths (56.7 per cent) of the total value of crops in 1909 was contributed by the cereals and about one-fifth (21.7 per cent) by hay and forage. The remainder, representing 21.6 per cent of the total, consisted mostly of potatoes and other vegetables, fruits and nuts, and forest products.

The total value of crops in 1909 was 235.4 per cent greater than in 1899, this increase being no doubt due in part to higher prices. There was an increase of 80.5 per cent in the total acreage of crops for which acreage was reported, nearly all of the crops showing increases, and the greatest absolute increase being that in the acreage of cereals.

	ACRES.				PER CENT OF IMPROVED LAND OCCUPIED.		VALUE OF PRODUCTS.					
	1909	1899	Increase. ¹		1909	1899	1909	1899	Increase. ¹		Per cent of total.	
			Amount.	Per cent.					Amount.	Per cent.	1909	1899
	All crops.....											
Crops with acreage reports	3,431,273	1,901,361	1,529,892	80.5	53.8	54.9	70,770,241	21,487,785	49,282,476	229.4	89.7	91.3
Cereals.....	2,591,582	1,360,897	1,240,085	91.8	40.7	30.0	44,702,138	12,101,397	32,570,741	207.2	56.7	51.8
Other grains and seeds.....	3,550	4,018	—468	—11.6	0.1	0.1	125,741	85,040	39,801	46.3	0.2	0.4
Hay and forage.....	742,137	497,139	244,998	40.3	11.6	14.3	17,147,048	5,831,088	11,316,560	104.1	21.7	24.8
Hops.....	2,433	5,296	—2,863	—54.1	(2)	0.2	605,493	589,582	75,011	12.9	0.8	2.5
Sugar crops.....	1,896	1,801	—95	—5.3	(2)	0.1	61,188	26,520	64,068	243.8	0.1	0.1
Sundry minor crops.....	183	87	96	(3)	(2)	(2)	9,066	1,597	7,469	467.7	(2)	(2)
Potatoes and sweet potatoes and yams.....	57,902	25,171	32,731	130.0	0.9	0.7	2,994,155	1,315,198	1,678,957	127.7	3.8	5.6
Other vegetables.....	24,410	13,848	10,562	76.3	0.4	0.4	2,988,510	1,040,668	1,947,842	187.2	3.8	4.4
Flowers and plants and nursery products.....	1,082	189	1,493	789.0	(2)	(2)	1,044,907	79,149	965,758	1,220.2	1.3	0.3
Small fruits.....	5,508	2,845	2,663	93.6	0.1	0.1	941,415	326,040	614,769	188.2	1.2	1.4
Crops with no acreage reports							8,156,792	2,044,365	6,112,427	209.0	10.3	8.7
Seeds.....							46,950	13,213	33,746	255.4	0.1	0.1
Fruits and nuts.....							4,320,058	* 1,027,539	3,301,519	321.3	5.5	4.4
Maple sirup.....							10	113	—103	—0.1	(2)	(2)
Forest products of farms.....							3,764,293	1,002,120	2,762,173	274.0	4.8	4.8
Miscellaneous.....							26,472	1,374	25,098	1,826.0	(2)	(2)

¹ A minus sign (—) denotes decrease.
² Less than one-tenth of 1 per cent.

³ Per cent not calculated when base is less than 100.
⁴ Includes value of raisins and other dried fruits, wine, elder, vinegar, etc.

General farm crops, minor grains and seeds, and sundry minor crops: 1879 to 1909.—The following table presents statistics for 1909 regarding cereals, other grains and seeds, hay and forage, potatoes, hops, and sundry minor crops:

CROP.	Farms report- ing.	Acres harvested.	QUANTITY.		Value.
			Amount.	Unit.	
Cereals, total		2,591,582	60,610,807	Bu...	344,769,138
Corn.....	3,128	26,033	563,025	Bu...	404,367
Oats.....	10,139	266,742	13,228,093	Bu...	5,870,857
Wheat, total.....	13,805	2,116,015	40,920,390	Bu...	35,102,370
Common winter.....	7,947	951,094	29,810,392	Bu...	17,238,825
Common spring.....	8,313	1,156,817	20,064,372	Bu...	17,864,573
Durum or macaroni.....	9	474	9,622	Bu...	8,972
Emmer and spelt.....	90	302	10,845	Bu...	6,368
Barley.....	3,353	171,888	5,884,015	Bu...	3,331,930
Buckwheat.....	29	148	3,138	Bu...	2,220
Rye.....	215	5,450	50,746	Bu...	43,974
Kaffir corn and milo maize.....	3	4	47	Bu...	32
Other grains and seeds with acreage report, total		3,550	94,357	Bu...	125,741
Dry edible beans.....	268	353	3,311	Bu...	9,656
Dry peas.....	915	3,196	91,032	Bu...	110,065
Seeds with no acreage report, total					46,950
Timothy seed.....	7	(2)	342	Bu...	1,158
Clover seed.....	4	(2)	166	Bu...	1,508
Alfalfa seed.....	2	(2)	162	Bu...	1,000
Chenop seed.....	7	(2)	664	Bu...	595
Vetch seed.....	45	(2)	1,632	Bu...	3,503
Other tame grass seed.....	6	(2)	380	Bu...	724
Flower and garden seeds.....	33	(2)	.....		37,671
Hay and forage, total	38,897	742,137	1,391,664	Tons.	17,147,048
Timothy alone.....	5,310	88,298	143,401	Tons.	2,168,016
Timothy and clover mixed.....	11,226	120,890	253,194	Tons.	3,635,626
Clover alone.....	2,166	10,867	21,923	Tons.	293,048
Alfalfa.....	5,043	94,000	357,595	Tons.	3,067,901
Millet or Hungarian grass.....	42	250	421	Tons.	5,014
Other tame or cultivated grasses.....	1,349	28,760	42,722	Tons.	594,002
Wild, salt, or prairie grasses.....	1,136	28,168	80,563	Tons.	268,016
Grains cut green.....	24,119	358,543	406,955	Tons.	6,226,515
Coarse forage.....	1,540	10,328	20,005	Tons.	163,814
Root forage.....	1,008	1,085	15,825	Tons.	94,866
Potatoes.....	31,712	57,897	7,067,171	Bu...	2,993,737
Sweet potatoes and yams.....	8	5	500	Bu...	418
Hops.....	155	2,433	3,432,504	Lbs...	605,493
Sundry minor crops, total.....					9,066
Broom corn.....	5	183	45,040	Lbs...	2,905
Ginseng.....	8	(2)	.....		5,785

¹ Includes small amounts of flaxseed.
² The entire acreage from which these seeds were secured is believed to be included in the acreage given elsewhere for hay and forage crops, flowers and plants, etc.
³ Includes small amounts of tobacco and willows. ⁴ Less than 1 acre.

The leading crops covered by the table, in the order of their importance as judged by value, are wheat, \$35,102,000; hay and forage, \$17,148,000; oats, \$5,871,000; barley, \$3,332,000; and potatoes, \$2,994,000. It should be noted, however, that some of the crops, shown elsewhere, are more important than barley or potatoes.

The acreage of hay and forage is more than one-fourth as great as that of the combined cereals, and the value of the crop is nearly two-fifths as great. Wheat is the leading cereal, representing about four-fifths of the total acreage and value of cereals. About one-half of the total acreage, yield, and value of the wheat crop is contributed by spring wheat. Oats and barley combined have an acreage slightly more than one-fifth as great as wheat and a value more than one-fourth as great. Of the remaining cereals, only corn is of any importance.

Among the hay and forage crops "grains cut green," "timothy and clover mixed," "alfalfa," and "timothy alone" rank in the order named in acreage; in value, however, "alfalfa" ranks above "timothy and clover mixed." These four classes combined represent about nine-tenths of the acreage and value of the entire crop.

Outside of the cereals and hay and forage crops, only potatoes and hops are of consequence. Though their acreage is comparatively small, their combined value is more than one-fifth as great as the value of hay and forage.

The increases in the acreages of some of the principal crops during the past 30 years are shown in the next table.

The acreage of every crop shown in the table has increased considerably during each decade of the period for which figures are presented. The relative gain for the whole period is highest in the case of wheat, the acreage of which crop in 1909 was about

orchard fruits and grapes. Values were not called for on the schedule.

PRODUCT.	FARMS REPORTING, 1909		QUANTITY PRODUCED.		
	Number.	Percent of all farms.	Unit.	1909	1899
Cider.....	1,347	2.4	Gals....	98,050	34,713
Vinegar.....	982	1.7	Gals....	62,446	13,104
Wine and grape juice.....	136	0.2	Gals....	5,891	4,073
Dried fruits.....	490	0.9	Lbs.....	1,842,306	253,720

Sugar crops: 1909 and 1899.—The table following shows data with regard to maple trees and their products, and for sugar beets and sorghum cane. The total value of sugar beets produced in 1909 was \$85,954, as compared with \$26,176 in 1899.

PRODUCT.	FARMS REPORTING.		Acres.	PRODUCT.		
	Number.	Percent of all farms.		Amount.	Unit.	Value.
Maple sirup made:						
1909 ¹	1	(2)		10	Gals....	\$10
1899.....	2	(2)		120	Gals....	113
Sugar beets:						
1909 ²	381	0.7	1,820	13,794	Tons...	85,954
1899.....	29	0.1	1,863	6,149	Tons...	26,176
Sorghum cane:						
Total, 1909.....						5,234
Cane grown.....	35	0.1	60	700	Tons....	
Sirup made.....	8	(2)		634	Gals....	577
Total, 1899.....						344
Cane grown.....	8	(2)	28	82	Tons....	140
Cane sold as such.....				82	Tons....	140
Sirup made.....				438	Gals....	198

¹ Fifty trees were reported.
² Less than one-tenth of 1 per cent.

³ Includes beets used as root forage.
⁴ Includes cane used as coarse forage.

SELECTED FARM EXPENSES AND RECEIPTS.

Farm expenses: 1909 and 1899.—The next table shows the number of farms reporting expenditures for labor, feed, and fertilizer at the census of 1910, as well as the sums expended in 1909 and 1899:

EXPENSE.	1909			1899	INCREASE.	
	Farms reporting.		Amount.	Amount.	Amount.	Per cent.
	Number.	Per cent of all farms.				
Labor.....	29,935	53.3	\$15,370,931	\$5,280,190	\$10,090,741	191.1
Feed.....	29,375	52.3	5,045,297	(¹)		
Fertilizer.....	1,801	3.2	87,023	29,165	87,858	198.4

¹ Not reported at the census of 1900.

Over half of the farmers hire labor, the average amount expended by the farmers hiring being \$513. During the decade the total expenditure for labor increased \$10,091,000, or 191.1 per cent. Nearly one-fifth of the total amount reported as expended for labor is in the form of rent and board. At prior censuses no tabulation was made of the number of farmers reporting expenditures for labor.

One farmer out of every two reports some expenditure for feed, but only about three out of every hun-

Forest products: 1909 and 1899.—The census schedules for 1910 called for the "value of all firewood, fencing material, logs, railroad ties, telegraph and telephone poles, materials for barrels, bark, naval stores, or other forest products cut or produced in 1909, whether used on farm, sold, or on hand April 15, 1910;" and also, in a separate item, for the "amount received from sale of standing timber in 1909." There were 19,036 farms in Washington (33.9 per cent of all farms in the state) which reported forest products in 1909, the total value of such products being \$3,754,293, as compared with \$1,002,126 in 1899, an increase of 274.6 per cent. Of the value in 1909, \$1,055,873 was reported as that of products used or to be used on the farms themselves, \$1,989,309 as that of products sold or for sale, and \$709,111 as the amount received for standing timber. It should be noted that forest products not produced on farms are not included in this report.

Miscellaneous crops: 1909.—Straw and cornstalks derived as by-products from the production of grain and corn have a considerable value for feed and other purposes. They are, however, mainly consumed on the farms producing them. The Census Bureau made no attempt to ascertain the total quantity or value of these products, but the schedules called for the quantity and value of those sold during the year 1909. The returns show that 505 farmers in Washington sold, during 1909, 7,539 tons of straw, for which they received \$24,520, and that 48 farmers sold 266 tons of cornstalks and leaves, for which they received \$1,847.

dred purchase fertilizer. The total amount reported as paid for fertilizer has increased \$57,858 during the decade, and is nearly three times as great as in 1899. The average per farm reporting is \$48.32.

Receipts from sale of feedable crops: 1909.—An effort was made at the census of 1910 to secure as complete a statement as possible of the sales as well as the production of the more important feedable crops (that is, crops ordinarily fed to live stock). The following table summarizes the data reported:

CROP.	FARMS REPORTING.		QUANTITY SOLD.		Amount received.
	Number.	Percent of all farms.	Amount.	Unit.	
Total.....					\$7,277,113
Corn.....	847	0.6	96,593	Bu.....	57,423
Oats.....	4,025	7.2	5,745,804	Bu.....	2,540,010
Barley.....	1,174	2.1	2,469,845	Bu.....	1,412,793
Hay and coarse forage.....	5,880	10.5	272,956	Tons...	3,266,892

While the total amount expended by Washington farmers for the purchase of feed in 1909 was \$5,045,000, the total receipts from the sale of feed by those reporting sales amounted to \$7,277,000.

COUNTY TABLES.

Tables 1 to 6, which follow, present by counties the more important agricultural data collected at the Thirteenth Census, 1910.

Table 1 shows the population, number of farms, land and farm area, value of farm property, and number and value of domestic animals and of poultry and bees, as of April 15, 1910. Comparative data for June 1, 1900, are given in italics for certain items.

Table 2 gives the number of farms, the farm acreage, and the value of farm property operated by owners, tenants, and managers, collected as of April 15, 1910. Statistics of farm mortgages are included in this table. (See explanation in text.) Comparative data for June 1, 1900, are given in italics for certain items.

Table 3 gives statistics pertaining to products of live stock on farms (dairy products, poultry and eggs, honey and wax, and wool and mohair); also the num-

ber and value of domestic animals sold or slaughtered on farms for the year 1909.

Table 4 shows the total value of farm crops and the principal classes thereof, together with the acreage (or trees of bearing age) and production of the principal crops for the year 1909.

Table 5 gives statistics relating to selected farm expenses for 1909 and also shows the receipts from the sale of feedable crops.

Table 6 shows the number and value of domestic animals in barns and inclosures not on farms, by classes, together with the number of dairy cows and mature horses and mules, on April 15, 1910.

Change of boundaries.—In comparing the data secured in 1910 with those for 1900, the following changes in county boundaries should be considered: Benton County was organized from parts of Klickitat and Yakima Counties in 1905, and Grant County was organized from a part of Douglas County in 1909.

TABLE 1.—FARMS AND FARM PROPERTY.

[Comparative data for June 1, 1900, in italics.]

	THE STATE.	Adams.	Asotin.	Benton.	Chehalis. ¹	Chelan.
1 Population.....	1,141,990	10,920	5,831	7,937	35,500	15,104
2 <i>Population in 1900.....</i>	<i>618,103</i>	<i>4,840</i>	<i>3,800</i>	(*)	<i>15,124</i>	<i>3,931</i>
3 Number of all farms.....	50,102	1,263	555	1,239	742	1,661
4 <i>Number of all farms in 1900.....</i>	<i>33,202</i>	<i>783</i>	<i>533</i>	(*)	<i>600</i>	<i>437</i>
5 Color and nativity of farmers:						
6 Native white.....	37,770	779	408	970	502	1,421
7 Foreign-born white.....	17,297	483	87	268	213	231
8 Negro and other nonwhite.....	1,125	1		1	27	9
9 Number of farms, classified by size:						
10 Under 3 acres.....	503		5			
11 3 to 9 acres.....	4,593	4	153	9	5	17
12 10 to 19 acres.....	5,373	5	25	147	52	301
13 20 to 49 acres.....	10,252	10	20	291	58	317
14 50 to 99 acres.....	7,105	21	10	255	174	271
15 100 to 174 acres.....	13,884	188	98	73	150	160
16 175 to 259 acres.....	3,090	30	17	228	180	398
17 260 to 499 acres.....	6,120	339	98	23	48	55
18 500 to 999 acres.....	3,481	383	78	94	44	83
19 1,000 acres and over.....	1,726	277	45	60	13	28
LAND AND FARM AREA						
20 Approximate land area..... acres..	42,775,040	1,223,080	387,840	1,069,440	1,233,280	1,356,000
21 <i>Land in farms.....</i>	<i>11,712,235</i>	<i>970,455</i>	<i>189,987</i>	<i>200,044</i>	<i>84,347</i>	<i>152,613</i>
22 <i>Land in farms in 1900.....</i>	<i>8,499,297</i>	<i>424,452</i>	<i>128,249</i>	(*)	<i>35,214</i>	<i>91,185</i>
23 Improved land in farms..... acres..	6,373,311	747,778	70,265	186,397	26,106	45,251
24 <i>Improved land in farms in 1900.....</i>	<i>3,465,000</i>	<i>275,778</i>	<i>57,510</i>	(*)	<i>21,788</i>	<i>14,032</i>
25 Woodland in farms..... acres..	1,541,551	1,905	15,260	1,037	28,215	49,076
26 Other unimproved land in farms..... acres..	3,707,973	229,772	95,462	72,610	29,006	61,226
27 Per cent of land area in farms.....	27.4	80.0	49.0	24.3	6.8	8.2
28 Per cent of farm land improved.....	54.4	76.3	41.7	71.7	31.0	27.7
29 Average acres per farm.....	208.4	775.5	342.3	200.9	113.7	91.9
30 Average improved acres per farm.....	113.4	692.1	142.8	150.4	35.3	25.4
VALUE OF FARM PROPERTY						
31 All farm property..... dollars..	637,543,411	29,712,292	6,404,012	14,310,556	5,330,908	24,945,236
32 <i>All farm property in 1900.....</i>	<i>144,040,547</i>	<i>4,791,011</i>	<i>1,015,360</i>	(*)	<i>2,320,544</i>	<i>1,203,077</i>
33 Per cent increase, 1900-1910.....	342.0	524.1	234.4		120.4	1,823.2
34 Land..... dollars..	517,421,098	24,419,184	4,885,430	12,391,374	3,818,838	22,378,411
35 <i>Land in 1900.....</i>	<i>99,310,510</i>	<i>5,567,850</i>	<i>1,211,990</i>	(*)	<i>1,502,310</i>	<i>288,180</i>
36 Buildings..... dollars..	54,540,450	1,684,595	565,685	808,504	743,494	1,642,444
37 <i>Buildings in 1900.....</i>	<i>10,299,200</i>	<i>323,100</i>	<i>202,250</i>	(*)	<i>327,300</i>	<i>129,200</i>
38 Implements and machinery..... dollars..	10,709,844	1,033,760	105,365	347,035	102,920	341,330
39 <i>Implements, etc., in 1900.....</i>	<i>6,271,650</i>	<i>232,090</i>	<i>73,320</i>	(*)	<i>39,310</i>	<i>64,020</i>
40 Domestic animals, poultry, and bees..... dollars..	48,865,110	2,574,744	767,532	708,053	581,737	583,051
41 <i>Domestic animals, etc., in 1900.....</i>	<i>22,169,207</i>	<i>612,071</i>	<i>427,320</i>	(*)	<i>407,034</i>	<i>226,477</i>
42 Per cent of value of all property in—						
43 Land.....	81.2	82.2	76.3	80.0	71.0	89.7
44 Buildings.....	8.6	5.7	8.8	5.6	13.9	6.6
45 Implements and machinery.....	2.0	3.5	3.1	2.4	3.0	1.4
46 Domestic animals, poultry, and bees.....	7.7	8.7	11.8	5.4	10.9	2.3
47 Average values:						
48 All property per farm..... dollars..	11,346	23,525	11,539	11,555	7,193	15,018
49 Land and buildings per farm..... dollars..	10,179	20,608	9,822	10,054	6,149	14,462
50 Land per acre..... dollars..	44.18	24.93	25.71	47.65	45.28	148.64
51 <i>Land per acre in 1900.....</i>	<i>11.63</i>	<i>7.20</i>	<i>9.42</i>	(*)	<i>17.03</i>	<i>2.27</i>
DOMESTIC ANIMALS (farms and ranges)						
52 Farms reporting domestic animals.....	50,500	1,200	512	1,019	681	1,293
53 Value of domestic animals..... dollars..	47,370,775	2,541,715	744,928	741,875	554,825	555,457
54 Cattle:						
55 Total number.....	402,120	8,820	4,718	2,742	7,870	3,182
56 Dairy cows.....	180,233	2,109	1,169	1,087	4,012	1,608
57 Other cows.....	58,140	2,239	1,208	673	820	432
58 Yearling heifers.....	51,995	651	320	1,095	377	
59 Calves.....	67,188	1,224	711	323	1,201	477
60 Yearling steers and bulls.....	20,120	389	634	144	364	145
61 Other steers and bulls.....	24,711	2,222	345	105	327	142
62 Value..... dollars..	12,193,465	208,372	107,430	93,732	250,508	103,930
63 Horses:						
64 Total number.....	280,572	10,603	5,100	6,068	1,908	3,854
65 Mature horses.....	241,624	14,475	4,154	4,952	1,088	3,589
66 Yearling colts.....	27,272	1,480	638	778	190	238
67 Spring colts.....	11,071	648	314	338	30	37
68 Value..... dollars..	20,080,849	1,861,147	387,555	509,053	265,545	426,355
69 Mules:						
70 Total number.....	12,185	1,720	47	187	10	68
71 Mature mules.....	9,049	1,358	39	146	10	60
72 Yearling colts.....	1,073	288	8	30		5
73 Spring colts.....	563	80		11		3
74 Value..... dollars..	1,770,297	257,230	5,434	24,415	2,010	10,940
75 Asses and burros:						
76 Number.....	173	12	1	2	2	6
77 Value..... dollars..	82,405	8,050	100	2,020	22	900
78 Swine:						
79 Total number.....	200,135	6,200	4,285	2,100	3,164	1,212
80 Mature hogs.....	127,350	4,450	3,148	1,370	1,743	882
81 Spring pigs.....	78,779	1,750	1,137	730	1,421	330
82 Value..... dollars..	1,074,927	49,950	31,820	16,405	25,570	11,815
83 Sheep:						
84 Total number.....	475,555	20,832	50,548	22,235	2,182	323
85 Rams, ewes, and wethers.....	295,204	15,974	33,870	17,028	1,442	243
86 Spring lambs.....	180,291	4,858	16,678	5,207	740	80
87 Value..... dollars..	1,031,170	96,338	212,574	95,325	9,597	1,037
88 Goats:						
89 Number.....	8,621	6		2	263	
90 Value..... dollars..	31,062	19		25	973	
POULTRY AND BEES						
91 Number of poultry of all kinds.....	2,272,775	70,644	23,259	35,302	31,341	38,587
92 Value..... dollars..	1,367,440	33,004	12,312	23,505	23,310	23,891
93 Number of colonies of bees.....	33,884	5	68	793	1,110	719
94 Value..... dollars..	120,895	25	292	3,573	8,002	3,703

¹ Agricultural data for Indians on reservations in 1900 shown separately in last column of table.

BY COUNTIES: APRIL 15, 1910.

[Comparative data for June 1, 1900, in italics.]

Table with 14 columns (Counties: Clallam, Clarke, Columbia, Cowlitz, Douglas, Ferry, Franklin, Garfield, Grant, Island, Jefferson, King, Kitsap) and 89 rows (years 1-89). Data includes numerical values for various agricultural metrics, with 1900 data in italics.

¹Change of boundary. (See explanation at close of text.)

²Includes animals, age or sex not specified.

TABLE 1.—FARMS AND FARM PROPERTY,

[Comparative data for June 1, 1900, in italics.]

	Kittitas.	Klickitat. ^{1,2}	Lewis.	Lincoln.	Mason. ³	Okanogan. ²	Pacific.	Pierce. ²
1 Population.....	18,561	10,180	32,127	17,539	5,156	12,897	12,532	120,812
2 Population in 1900.....	9,704	6,407	15,167	11,069	3,810	4,689	5,983	55,618
3 Number of all farms.....	871	1,041	2,261	2,139	385	2,173	347	2,070
4 Number of all farms in 1900.....	699	1,080	1,736	1,911	274	606	542	1,456
Color and nativity of farmers:								
5 Native white.....	617	1,203	1,433	1,538	200	1,652	192	1,398
6 Foreign-born white.....	244	326	756	600	148	385	154	1,438
7 Negro and other nonwhite.....	10	22	22	1	37	136	1	136
Number of farms, classified by size:								
8 Under 3 acres.....	11	6	12	2	.....	2	.....	99
9 3 to 9 acres.....	38	51	125	30	13	25	23	733
10 10 to 19 acres.....	34	66	147	22	21	70	19	641
11 20 to 49 acres.....	92	134	595	40	114	175	65	710
12 50 to 99 acres.....	145	138	537	55	86	108	64	315
13 100 to 174 acres.....	287	549	501	427	64	1,267	105	297
14 175 to 259 acres.....	93	120	133	90	30	104	31	89
15 260 to 499 acres.....	123	316	87	638	18	253	21	61
16 500 to 999 acres.....	30	175	12	562	9	48	12	19
17 1,000 acres and over.....	18	87	2	287	.....	5	2	6
LAND AND FARM AREA								
18 Approximate land area..... acres..	1,490,560	1,168,000	1,516,100	1,473,280	595,200	3,341,440	572,800	1,088,640
19 Land in farms..... acres..	282,095	530,291	214,872	1,209,910	42,028	379,790	47,092	156,590
20 Land in farms in 1900..... acres..	190,085	404,947	224,755	905,997	35,056	80,196	51,930	146,050
21 Improved land in farms..... acres..	78,939	181,551	62,838	799,380	7,078	127,386	9,305	42,405
22 Improved land in farms in 1900..... acres..	55,057	115,550	55,558	616,924	5,718	19,590	8,123	25,505
23 Woodland in farms..... acres..	17,559	87,379	93,207	52,864	22,028	61,583	21,083	60,334
24 Other unimproved land in farms..... acres..	166,107	261,331	88,767	357,606	13,222	195,797	16,104	53,851
25 Per cent of land area in farms.....	19.0	45.4	14.2	82.1	7.2	11.4	8.2	14.4
26 Per cent of farm land improved.....	30.1	34.2	20.2	66.1	17.0	32.2	19.8	27.1
27 Average acres per farm.....	301.5	323.2	95.0	595.6	111.5	174.8	135.7	52.7
28 Average improved acres per farm.....	96.6	110.7	27.8	373.7	19.9	60.3	26.8	14.3
VALUE OF FARM PROPERTY								
29 All farm property..... dollars..	14,491,850	16,430,904	12,993,491	42,153,274	2,095,869	15,523,053	2,547,903	20,531,078
30 All farm property in 1900..... dollars..	3,189,420	4,361,340	4,531,408	11,258,173	717,050	1,570,691	1,015,645	4,070,325
31 Per cent increase, 1900-1910.....	354.8	.....	200.0	275.1	192.3	1,032.5	151.4	404.4
32 Land..... dollars..	11,734,000	13,491,844	9,502,073	34,734,427	1,470,407	12,183,907	1,830,785	16,320,024
33 Land in 1900..... dollars..	1,353,980	2,079,800	2,775,130	8,222,450	445,270	666,830	681,580	2,699,340
34 Buildings..... dollars..	1,122,875	1,215,562	1,773,437	2,546,100	358,640	1,117,578	352,340	2,790,047
35 Buildings in 1900..... dollars..	523,590	458,450	628,800	359,920	128,380	179,190	179,020	783,060
36 Implements and machinery..... dollars..	391,192	401,371	388,091	1,425,886	78,219	467,083	63,974	345,276
37 Implements, etc., in 1900..... dollars..	158,550	216,550	168,550	642,220	28,350	71,810	29,220	139,200
38 Domestic animals, poultry, and bees..... dollars..	1,243,733	1,322,217	1,326,890	3,446,861	170,603	1,754,425	300,804	1,065,831
39 Domestic animals, etc., in 1900..... dollars..	889,520	1,007,380	702,953	1,473,533	114,770	604,301	138,725	548,725
40 Per cent of value of all property in—								
41 Land.....	81.0	82.1	73.1	82.4	70.6	78.5	71.9	79.5
42 Buildings.....	7.7	7.4	13.6	6.0	17.1	7.2	13.8	13.6
43 Implements and machinery.....	2.7	2.4	3.0	3.4	3.7	3.0	2.5	1.7
44 Domestic animals, poultry, and bees.....	8.6	8.0	10.2	8.2	8.6	11.3	11.8	5.2
45 Average values:								
46 All property per farm..... dollars..	16,638	10,013	5,747	19,707	5,444	7,144	7,343	9,913
47 Land and buildings per farm..... dollars..	14,761	8,962	4,937	17,429	4,774	6,121	6,261	6,438
48 Land per acre..... dollars..	44.58	25.44	44.22	28.71	34.46	32.08	38.88	104.23
49 Land per acre in 1900..... dollars..	8.24	6.02	12.54	9.16	13.24	8.32	11.87	17.89
DOMESTIC ANIMALS (farms and ranges)								
48 Farms reporting domestic animals.....	808	1,342	2,129	2,061	341	1,921	333	2,404
49 Value of domestic animals..... dollars..	1,212,918	1,303,595	1,276,291	3,389,039	166,131	1,722,988	292,956	957,441
Cattle:								
50 Total number.....	11,229	8,551	19,311	13,664	2,914	23,035	5,784	16,304
51 Dairy cows.....	3,426	2,700	10,230	4,802	1,353	5,061	3,087	10,592
52 Other cows.....	3,496	2,204	1,888	3,563	240	6,482	551	1,270
53 Yearling heifers.....	1,664	1,200	2,671	1,608	474	3,130	642	1,781
54 Calves.....	1,253	1,150	2,879	2,692	502	2,898	949	1,931
55 Yearling steers and bulls.....	761	609	732	858	211	2,190	383	332
56 Other steers and bulls.....	624	628	911	871	134	2,934	169	271
57 Value..... dollars..	329,715	215,608	512,162	361,636	74,208	599,020	170,255	604,439
Horses:								
58 Total number.....	5,935	8,331	5,800	26,950	749	13,920	914	4,074
59 Mature horses.....	5,059	7,322	5,003	22,941	662	11,419	783	3,805
60 Yearling colts.....	601	746	681	2,995	71	1,782	103	212
61 Spring colts.....	275	263	131	1,014	16	725	28	57
62 Value..... dollars..	616,299	792,519	671,893	2,746,906	83,190	988,197	106,772	405,259
Mules:								
63 Total number.....	73	230	55	1,489	8	288	5	19
64 Mature mules.....	57	170	42	1,229	8	191	5	19
65 Yearling colts.....	15	56	12	192	.....	82	.....	.....
66 Spring colts.....	1	4	1	68	.....	15	.....	.....
67 Value..... dollars..	7,700	29,940	5,940	203,438	630	28,475	500	2,050
Asses and burros:								
68 Number.....	3	3	.....	8	.....	22	.....	.....
69 Value..... dollars..	1,250	3,800	.....	4,410	.....	5,730	.....	.....
Swine:								
70 Total number.....	3,151	10,438	11,626	8,488	725	4,538	829	4,070
71 Mature hogs.....	1,903	6,025	7,574	5,301	458	2,967	517	2,273
72 Spring pigs.....	1,248	3,513	4,052	3,187	267	1,581	312	1,797
73 Value..... dollars..	28,996	74,542	70,931	70,393	5,704	37,452	8,141	33,032
Sheep:								
74 Total number.....	60,623	48,985	3,384	485	392	15,409	276	2,276
75 Rams, ewes, and wethers.....	34,738	28,795	2,090	332	293	10,360	169	1,885
76 Spring lambs.....	25,885	20,173	1,294	153	99	5,149	107	891
77 Value..... dollars..	228,410	185,767	12,499	2,038	1,593	62,395	1,012	8,770
Goats:								
78 Number.....	339	364	1,043	37	222	143	76	1,220
79 Value..... dollars..	1,848	1,419	2,846	318	906	810	276	3,891
POULTRY AND BEES								
80 Number of poultry of all kinds.....	35,181	35,683	80,622	114,104	19,117	56,802	12,134	161,720
81 Value..... dollars..	26,626	18,180	46,067	57,769	10,393	29,097	7,133	102,784
82 Number of colonies of bees.....	1,188	112	2,553	8	832	325	188	1,513
83 Value..... dollars..	3,239	442	7,632	33	3,079	2,340	715	5,906

¹ Change of boundary. (See explanation at close of text.)

AGRICULTURE—WASHINGTON.

843

BY COUNTIES: APRIL 15, 1910—Continued.

[Comparative data for June 1, 1900, in Italics.]

	San Juan.	Skagit. ²	Skamania.	Snohomish. ²	Spokane.	Stevens. ²	Thurston. ²	Wahkuk. akum.	Walla Walla.	Whatcom. ²	Whitman.	Yakima. ^{1,2}	Indian res. ervations.
1	3,603	29,241	2,887	59,209	139,404	25,297	17,581	3,285	31,931	49,511	33,280	41,709	.....
2	<i>2,983</i>	<i>14,872</i>	<i>1,983</i>	<i>25,990</i>	<i>67,542</i>	<i>10,543</i>	<i>9,927</i>	<i>2,819</i>	<i>18,980</i>	<i>24,110</i>	<i>26,500</i>	<i>19,498</i>	.....
3	483	1,897	232	1,813	3,947	3,196	1,173	229	1,383	2,413	3,006	3,341	.....
4	<i>593</i>	<i>889</i>	<i>839</i>	<i>1,024</i>	<i>2,911</i>	<i>1,132</i>	<i>665</i>	<i>247</i>	<i>1,029</i>	<i>1,802</i>	<i>5,081</i>	<i>1,893</i>	740
5	201	1,094	169	815	2,772	2,273	812	89	1,107	1,205	2,508	2,002	.....
6	176	773	63	983	1,163	822	344	138	250	1,088	580	670	.....
7	16	30	.....	16	12	101	17	2	20	90	2	69	.....
8	.....	10	1	8	15	2	10	1	8	47	12	14	.....
9	17	232	5	202	333	40	89	4	139	157	58	358	.....
10	30	314	14	311	356	52	134	6	110	294	82	695	.....
11	118	616	51	578	522	221	316	40	147	803	193	1,208	.....
12	91	325	55	341	540	380	195	67	91	561	197	503	.....
13	140	286	75	270	1,099	1,009	106	73	205	385	653	302	.....
14	36	63	15	47	315	205	86	21	87	49	345	78	.....
15	35	47	15	33	560	274	88	14	201	23	951	120	.....
16	12	4	1	10	187	45	32	2	200	.....	602	64	.....
17	4	.....	4	4	40	8	16	1	186	.....	103	29	.....
18	113,920	1,135,360	1,078,400	1,320,960	1,123,840	2,474,240	453,700	170,380	800,600	1,332,480	1,340,120	3,237,760	.....
19	<i>69,612</i>	<i>118,118</i>	<i>25,031</i>	<i>118,328</i>	<i>92,330</i>	<i>521,260</i>	<i>151,243</i>	<i>29,030</i>	<i>739,090</i>	<i>145,747</i>	<i>1,187,096</i>	<i>320,921</i>	.....
20	<i>50,981</i>	<i>87,161</i>	<i>39,861</i>	<i>97,507</i>	<i>655,372</i>	<i>216,041</i>	<i>128,822</i>	<i>52,504</i>	<i>651,847</i>	<i>119,454</i>	<i>1,103,817</i>	<i>542,370</i>	70,383
21	<i>15,547</i>	<i>58,273</i>	<i>4,477</i>	<i>34,120</i>	<i>361,958</i>	<i>116,872</i>	<i>35,112</i>	<i>4,850</i>	<i>470,660</i>	<i>40,886</i>	<i>923,820</i>	<i>176,410</i>	.....
22	<i>11,618</i>	<i>38,565</i>	<i>4,060</i>	<i>23,711</i>	<i>280,159</i>	<i>67,522</i>	<i>84,018</i>	<i>4,458</i>	<i>501,710</i>	<i>26,648</i>	<i>711,975</i>	<i>104,880</i>	80,680
23	<i>29,374</i>	<i>30,167</i>	<i>12,703</i>	<i>32,849</i>	<i>213,000</i>	<i>279,838</i>	<i>58,440</i>	<i>10,489</i>	<i>27,867</i>	<i>57,134</i>	<i>14,337</i>	<i>6,848</i>	.....
24	<i>21,691</i>	<i>29,678</i>	<i>8,451</i>	<i>51,353</i>	<i>106,772</i>	<i>124,549</i>	<i>57,022</i>	<i>13,985</i>	<i>232,172</i>	<i>41,728</i>	<i>249,800</i>	<i>137,663</i>	.....
25	58.5	10.4	2.4	9.0	60.7	21.1	33.3	17.0	91.4	10.9	88.1	9.0	.....
26	23.3	49.3	17.5	28.8	53.0	22.4	23.2	16.7	64.8	32.2	77.8	55.0	.....
27	137.9	62.3	110.5	65.3	172.9	103.1	128.9	126.8	534.9	60.4	383.7	90.1	.....
28	32.2	30.7	19.3	18.8	91.7	36.0	29.0	21.2	346.8	19.4	208.4	62.8	.....
29	3,120,947	17,000,798	1,597,075	13,340,133	47,521,952	18,620,820	7,681,746	1,420,823	39,517,589	14,715,519	67,357,022	47,777,590	.....
30	<i>1,104,985</i>	<i>4,206,907</i>	<i>498,864</i>	<i>3,379,528</i>	<i>11,828,612</i>	<i>2,626,009</i>	<i>2,176,021</i>	<i>740,544</i>	<i>18,080,317</i>	<i>5,474,218</i>	<i>20,222,202</i>	<i>6,781,378</i>	1,668,060
31	<i>182.5</i>	<i>320.9</i>	<i>241.1</i>	<i>294.9</i>	<i>301.8</i>	<i>609.1</i>	<i>263.0</i>	<i>93.1</i>	<i>182.7</i>	<i>323.0</i>	<i>233.1</i>	.....	.....
32	2,255,825	13,838,420	1,265,615	9,940,522	38,984,091	15,050,801	5,553,465	954,570	33,554,517	10,733,909	55,179,702	40,617,133	.....
33	<i>785,800</i>	<i>2,956,110</i>	<i>306,870</i>	<i>2,248,440</i>	<i>8,373,130</i>	<i>1,808,190</i>	<i>1,375,410</i>	<i>469,680</i>	<i>10,955,090</i>	<i>2,164,100</i>	<i>14,805,096</i>	<i>4,237,340</i>	837,800
34	<i>488,075</i>	<i>2,101,320</i>	<i>184,170</i>	<i>1,861,107</i>	<i>4,740,850</i>	<i>1,717,439</i>	<i>1,215,010</i>	<i>259,780</i>	<i>2,123,584</i>	<i>2,126,341</i>	<i>4,222,343</i>	<i>3,062,214</i>	.....
35	<i>186,440</i>	<i>699,800</i>	<i>63,730</i>	<i>638,090</i>	<i>1,514,330</i>	<i>561,560</i>	<i>336,300</i>	<i>150,090</i>	<i>1,063,850</i>	<i>645,190</i>	<i>1,708,070</i>	<i>625,440</i>	136,280
36	<i>108,177</i>	<i>480,820</i>	<i>40,815</i>	<i>359,572</i>	<i>988,705</i>	<i>525,507</i>	<i>209,028</i>	<i>42,460</i>	<i>999,072</i>	<i>417,807</i>	<i>1,904,939</i>	<i>792,990</i>	.....
37	<i>44,880</i>	<i>169,570</i>	<i>18,080</i>	<i>111,000</i>	<i>573,190</i>	<i>146,680</i>	<i>84,800</i>	<i>23,510</i>	<i>628,600</i>	<i>134,440</i>	<i>678,610</i>	<i>226,290</i>	107,180
38	<i>268,870</i>	<i>1,534,232</i>	<i>100,475</i>	<i>1,181,872</i>	<i>2,807,616</i>	<i>1,321,010</i>	<i>703,342</i>	<i>173,013</i>	<i>2,840,416</i>	<i>1,438,402</i>	<i>6,056,038</i>	<i>2,705,517</i>	.....
39	<i>148,408</i>	<i>548,027</i>	<i>86,584</i>	<i>489,652</i>	<i>1,597,962</i>	<i>516,649</i>	<i>379,481</i>	<i>117,264</i>	<i>1,448,337</i>	<i>540,488</i>	<i>2,009,008</i>	<i>1,076,808</i>	526,760
40	72.3	77.0	79.2	74.5	82.0	80.9	72.3	66.8	84.9	72.9	81.9	85.0	.....
41	15.6	11.7	11.5	13.9	10.0	9.2	15.8	18.2	5.4	14.4	6.3	7.7	.....
42	3.5	2.7	2.9	2.7	2.1	2.8	2.7	3.0	2.5	2.8	2.8	1.7	.....
43	8.6	8.5	6.3	8.9	5.9	7.1	9.2	12.1	7.2	9.8	9.0	5.7	.....
44	6,462	6,468	6,884	7,361	12,040	5,826	6,540	6,244	28,574	6,008	21,756	14,300	.....
45	<i>5,081</i>	<i>8,403</i>	<i>6,240</i>	<i>6,513</i>	<i>11,078</i>	<i>5,240</i>	<i>5,771</i>	<i>5,303</i>	<i>25,798</i>	<i>5,320</i>	<i>19,187</i>	<i>13,253</i>	.....
46	<i>33.87</i>	<i>117.16</i>	<i>40.38</i>	<i>84.06</i>	<i>57.13</i>	<i>28.80</i>	<i>30.72</i>	<i>32.88</i>	<i>45.36</i>	<i>73.65</i>	<i>46.45</i>	<i>126.56</i>	.....
47	<i>14.22</i>	<i>53.92</i>	<i>7.70</i>	<i>23.06</i>	<i>18.73</i>	<i>7.45</i>	<i>10.68</i>	<i>14.42</i>	<i>16.31</i>	<i>18.04</i>	<i>18.67</i>	<i>7.31</i>	11.19
48	440	1,762	211	1,093	3,667	2,598	1,094	223	1,263	2,281	2,976	3,135	.....
49	<i>258,034</i>	<i>1,478,743</i>	<i>95,874</i>	<i>1,131,800</i>	<i>2,691,561</i>	<i>1,283,024</i>	<i>663,857</i>	<i>107,893</i>	<i>2,792,596</i>	<i>1,370,083</i>	<i>5,948,634</i>	<i>2,025,053</i>	.....
50	3,073	19,545	1,395	10,271	* 18,437	* 14,802	10,773	3,069	* 9,620	20,061	* 29,105	* 21,248	.....
51	<i>1,916</i>	<i>10,781</i>	<i>767</i>	<i>11,875</i>	<i>6,567</i>	<i>6,359</i>	<i>5,488</i>	<i>2,362</i>	<i>3,527</i>	<i>11,030</i>	<i>9,310</i>	<i>8,531</i>	.....
52	<i>270</i>	<i>1,484</i>	<i>138</i>	<i>1,098</i>	<i>2,191</i>	<i>2,095</i>	<i>1,310</i>	<i>113</i>	<i>2,187</i>	<i>1,348</i>	<i>5,632</i>	<i>3,485</i>	.....
53	<i>283</i>	<i>2,865</i>	<i>218</i>	<i>2,897</i>	<i>2,614</i>	<i>2,100</i>	<i>1,456</i>	<i>498</i>	<i>1,220</i>	<i>3,050</i>	<i>3,702</i>	<i>2,273</i>	.....
54	<i>401</i>	<i>3,021</i>	<i>201</i>	<i>2,714</i>	<i>2,895</i>	<i>2,547</i>	<i>1,798</i>	<i>673</i>	<i>1,372</i>	<i>3,375</i>	<i>4,655</i>	<i>2,514</i>	.....
55	<i>95</i>	<i>745</i>	<i>30</i>	<i>304</i>	<i>724</i>	<i>985</i>	<i>311</i>	<i>227</i>	<i>563</i>	<i>683</i>	<i>2,244</i>	<i>731</i>	.....
56	<i>102</i>	<i>649</i>	<i>35</i>	<i>353</i>	<i>413</i>	<i>724</i>	<i>410</i>	<i>90</i>	<i>601</i>	<i>429</i>	<i>3,631</i>	<i>1,209</i>	.....
57	<i>79,941</i>	<i>648,339</i>	<i>37,290</i>	<i>653,433</i>	* 638,781	* 305,184	<i>283,306</i>	<i>113,122</i>	* 291,551	<i>652,495</i>	* 809,008	* 758,801	.....
58	<i>990</i>	<i>5,309</i>	<i>479</i>	<i>3,320</i>	<i>17,050</i>	* 8,052	<i>2,905</i>	<i>430</i>	* 10,365	<i>4,770</i>	<i>30,880</i>	* 14,798	.....
59	<i>854</i>	<i>4,564</i>	<i>452</i>	<i>3,027</i>	<i>15,514</i>	<i>7,572</i>	<i>2,593</i>	<i>309</i>	<i>14,039</i>	<i>4,285</i>	<i>30,816</i>	<i>12,800</i>	.....
60	<i>94</i>	<i>583</i>	<i>21</i>	<i>255</i>	<i>1,677</i>	<i>701</i>	<i>289</i>	<i>32</i>	<i>1,240</i>	<i>391</i>	<i>3,946</i>	<i>1,323</i>	.....
61	<i>15</i>	<i>102</i>	<i>6</i>	<i>38</i>	<i>459</i>	<i>241</i>	<i>83</i>	<i>8</i>	<i>884</i>	<i>100</i>	<i>2,129</i>	<i>630</i>	.....
62	<i>132,965</i>	<i>771,821</i>	<i>51,805</i>	<i>427,390</i>	<i>1,019,248</i>	* 805,010	<i>347,253</i>	<i>40,200</i>	* 1,796,418	<i>630,893</i>	<i>4,405,790</i>	* 1,584,239	.....
63	2	51	5	32	343	125	17	4	2,267	28	1,700	239	.....
64	2	51	4	32	232	110	15	4	2,100	28	1,202	175	.....
65	.....	.....	.....	.....	45	14	2	.....	94	.....	325	49	.....
66	.....	.....	.....	.....	16	.....	.....	.....	67	.....	122	15	.....
67	300	7,525	690	4,780	49,720	17,500	1,975	285	488,400	3,715	212,062	31,270	.....
68	.....	1	.....	.....	5	4	4	.....	12	.....	42	5	.....
69	.....	75	.....	.....	1,345	2,150	83	.....	14,450	.....	10,125	1,550	.....
70	1,212	4,820	307	4,392	9,099	5,368	3,027	1,109	9,763	6,093	40,841	8,660	.....
71	<i>639</i>	<i>2,069</i>	<i>185</i>	<i>2,339</i>	<i>5,248</i>	<i>3,293</i>	<i>1,684</i>	<i>737</i>	<i>6,676</i>	<i>2,698</i>	<i>20,600</i>	<i>4,711</i>	.....
72	<i>673</i>	<i>2,151</i>	<i>182</i>	<i>2,053</i>	<i>3,851</i>	<i>2,110</i>	<i>1,343</i>	<i>372</i>	<i>3,087</i>	<i>3,095</i>	<i>15,232</i>	<i>3,858</i>	.....
73	<i>7,384</i>	<i>34,794</i>	<i>3,402</i>	<i>38,005</i>	<i>70,323</i>	<i>45,239</i>	<i>24,733</i>	<i>7,369</i>	<i>85,423</i>	<i>55,748</i>	<i>332,317</i>	<i>70,177</i>	.....
74	9,855	3,914	510	1,395	1,285	4,281	1,223	201	40,118	6,592	28,406	38,470	.....
75	6,100	2,495	346	881	796	2,029	724	137	19,800	3,865	20,649	22,144	.....
76	3,005	1,419	164	514	519	1,682	499	64	26,818	2,727	7,817	1	

AGRICULTURE—WASHINGTON.

TABLE 2.—NUMBER, ACREAGE, AND VALUE OF FARMS CLASSIFIED BY TENURE, COLOR,
[Comparative data for June 1, 1900, in italics.]

	THE STATE.	Adams.	Asotin.	Benton.	Chehalis. ¹	Chelan.	
FARMS OPERATED BY OWNERS							
1	Number of farms.....	47,505	967	486	1,101	623	1,501
2	Number of farms in 1900.....	<i>28,080</i>	<i>789</i>	<i>469</i>	(²)	<i>498</i>	<i>407</i>
3	Per cent of all farms.....	84.5	76.6	87.6	88.9	84.0	90.4
4	Per cent of all farms in 1900.....	<i>84.4</i>	<i>84.4</i>	<i>88.0</i>	(²)	<i>83.0</i>	<i>89.1</i>
5	Land in farms..... acres.....	9,115,171	684,712	150,283	206,985	65,346	135,483
6	Improved land in farms..... acres.....	4,760,836	545,487	59,688	150,849	20,091	35,919
7	Value of land and buildings..... dollars.....	430,624,440	18,967,798	4,378,115	9,189,156	3,045,352	20,642,405
Degree of ownership:							
8	Farms consisting of owned land only.....	41,729	528	406	932	580	1,382
9	Farms consisting of owned and hired land.....	5,776	439	80	169	43	110
Color and nativity of owners:							
10	Native white.....	31,163	581	403	858	413	1,279
11	Foreign-born white.....	16,641	385	83	242	185	213
12	Negro and other nonwhite.....	701	1		1	25	9
FARMS OPERATED BY TENANTS							
13	Number of farms.....	7,726	275	62	84	110	110
14	Number of farms in 1900.....	<i>4,777</i>	<i>48</i>	<i>65</i>	(²)	<i>94</i>	<i>48</i>
15	Per cent of all farms.....	13.7	21.8	11.2	6.8	14.8	6.6
16	Per cent of all farms in 1900.....	<i>14.4</i>	<i>6.4</i>	<i>11.8</i>	(²)	<i>15.7</i>	<i>9.2</i>
17	Land in farms..... acres.....	2,067,082	213,056	29,931	29,818	17,304	9,522
18	Improved land in farms..... acres.....	1,453,014	188,436	14,507	23,613	5,505	3,208
19	Value of land and buildings..... dollars.....	111,929,543	6,183,661	760,200	1,114,787	784,100	1,391,050
Form of tenancy:							
20	Share tenants.....	3,459	254	34	53	14	49
21	Share-cash tenants.....	255	3	4	2	3	6
22	Cash tenants.....	3,089	9	22	22	62	23
23	Tenure not specified.....	923	9		7	31	32
Color and nativity of tenants:							
24	Native white.....	5,838	183	59	66	82	100
25	Foreign-born white.....	1,475	92	3	18	26	10
26	Negro and other nonwhite.....	413				2	
FARMS OPERATED BY MANAGERS							
27	Number of farms.....	901	21	7	54	9	50
28	Number of farms in 1900.....	<i>406</i>	<i>8</i>	<i>1</i>	(²)	<i>8</i>	<i>8</i>
29	Land in farms..... acres.....	529,082	81,687	9,773	23,241	1,097	7,608
30	Improved land in farms..... acres.....	150,461	13,855	5,070	5,935	570	3,124
31	Value of land and buildings..... dollars.....	20,414,474	952,320	312,800	2,890,025	132,880	1,086,500
MORTGAGE DEBT REPORTS:							
For all farms operated by owners:							
32	Number free from mortgage debt.....	30,970	394	262	557	455	747
33	Number with mortgage debt.....	10,026	560	221	540	156	749
34	Number with no mortgage report.....	500	13	8	4	12	5
For farms consisting of owned land only:							
35	Number reporting debt and amount.....	12,715	236	170	456	143	636
36	Value of their land and buildings..... dollars.....	113,394,798	4,475,096	1,666,340	3,191,136	803,940	9,041,270
37	Amount of mortgage debt..... dollars.....	25,644,551	1,266,345	438,220	848,004	190,400	1,783,884
38	Per cent of value of land and buildings.....	22.6	28.3	26.3	26.6	22.0	19.7

¹ Agricultural data for Indians on reservations in 1900 shown separately in last column of table.

² Change of boundary. (See explanation at close of text.)

TABLE 3.—LIVE STOCK PRODUCTS, AND DOMESTIC ANIMALS

LIVE STOCK PRODUCTS								
Dairy Products								
1	Dairy cows on farms reporting dairy products.....	number..	163,508	1,877	927	798	3,488	1,305
2	Dairy cows on farms reporting milk produced.....	number..	141,508	1,604	924	784	3,331	1,281
3	Milk—Produced.....	gallons.....	70,083,033	629,038	299,006	359,900	1,785,641	545,951
4	Sold.....	gallons.....	25,524,200	22,397	622	36,954	605,043	67,283
5	Cream sold.....	gallons.....	1,911,261	880	1,075	1,874	76,981	700
6	Butter fat sold.....	pounds.....	4,386,283		14,020		59,448	
7	Butter—Produced.....	pounds.....	6,751,575	137,872	50,762	96,205	123,203	120,301
8	Sold.....	pounds.....	3,112,326	53,382	23,943	40,446	72,269	50,392
9	Cheese—Produced.....	pounds.....	52,970		40			100
10	Sold.....	pounds.....	43,530					
11	Value of dairy products, excluding home use of milk and cream.....	dollars.....	8,746,041	47,650	22,962	38,294	208,410	63,524
12	Receipts from sale of dairy products.....	dollars.....	7,603,479	23,454	13,225	23,598	192,263	38,384
Poultry Products								
13	Poultry—Raised.....	number.....	3,186,743	103,235	35,625	48,497	47,085	63,585
14	Sold.....	number.....	1,250,839	16,733	12,867	19,250	21,054	16,037
15	Eggs—Produced.....	dozens.....	14,326,464	305,334	112,003	191,374	193,082	208,851
16	Sold.....	dozens.....	8,572,408	175,241	53,229	101,867	108,837	81,778
17	Value of poultry and eggs produced.....	dollars.....	5,353,655	120,750	40,880	77,681	86,691	91,239
18	Receipts from sale of poultry and eggs.....	dollars.....	2,095,220	47,988	18,693	39,277	47,599	32,558
Honey and Wax								
19	Honey produced.....	pounds.....	503,580		415	15,538	15,111	8,277
20	Wax produced.....	pounds.....	4,038		4	20	110	109
21	Value of honey and wax produced.....	dollars.....	66,391		71	1,830	1,874	1,421
Wool, Mohair, and Goat Hair								
22	Wool, fleeces shorn.....	number.....	283,663	19,181	25,855	6,715	1,245	138
23	Mohair and goat hair, fleeces shorn.....	number.....	5,154				168	7
24	Value of wool and mohair produced.....	dollars.....	474,450	31,697	42,206	16,134	2,051	226
DOMESTIC ANIMALS SOLD OR SLAUGHTERED								
25	Calves—Sold or slaughtered.....	number.....	74,529	995	840	192	2,118	403
26	Other cattle—Sold or slaughtered.....	number.....	119,455	2,910	2,741	692	1,834	995
27	Horses, mules, and asses and burros—Sold.....	number.....	19,432	847	375	665	130	450
28	Pigs—Sold or slaughtered.....	number.....	214,486	7,057	5,589	2,144	3,074	1,893
29	Sheep and goats—Sold or slaughtered.....	number.....	186,201	9,646	4,104	1,014	1,024	110
30	Receipts from sale of animals.....	dollars.....	7,771,950	255,929	170,818	85,438	86,216	60,896
31	Value of animals slaughtered.....	dollars.....	2,477,396	77,996	20,790	14,859	47,740	24,553

AGRICULTURE—WASHINGTON.

AND NATIVITY OF FARMERS, AND MORTGAGE DEBT, BY COUNTIES: APRIL 15, 1910.

[Comparative data for June 1, 1900, in italics.]

	Clallam. ¹	Clarke.	Columbia.	Cowlitz.	Douglas. ²	Ferry. ¹	Franklin [*]	Garfield.	Grant.	Island.	Jefferson.	King. ¹	Kitsap. ¹
1	507	2,181	474	708	1,510	547	550	344	1,499	415	227	2,621	870
2	335	1,020	561	84	799	57	58	393	(*)	199	169	1,338	410
3	83.5	86.7	67.4	87.8	87.8	92.7	89.7	68.3	93.8	90.6	86.6	70.7	92.5
4	84.8	87.0	79.5	84.4	85.0	91.9	85.2	76.4	(*)	74.8	79.7	77.8	93.5
5	50,359	152,833	210,474	91,400	608,132	98,814	315,501	209,163	500,015	32,829	27,451	111,818	38,043
6	12,027	48,978	103,873	16,636	392,085	17,978	232,465	98,961	381,571	10,740	6,253	37,905	8,230
7	2,462,525	12,657,727	8,092,230	3,378,793	16,512,974	1,971,976	6,023,740	6,280,798	14,021,862	2,457,005	1,304,696	21,454,064	3,972,252
8	405	2,052	360	766	950	513	333	218	1,054	309	212	2,533	805
9	42	129	114	32	569	34	228	126	445	16	15	588	14
10	206	1,421	425	503	1,226	370	440	293	1,005	202	118	1,308	286
11	200	756	49	289	293	143	105	50	434	210	102	1,277	589
12	41	4	.....	6	.....	20	2	1	.....	3	7	30	4
13	89	292	220	107	187	43	52	146	103	35	29	008	60
14	60	203	153	113	19	5	7	115	(*)	64	40	372	28
15	14.7	11.6	31.3	11.8	10.8	7.3	8.4	20.0	6.4	7.6	11.1	18.5	6.3
16	13.7	10.8	18.8	15.0	5.7	8.1	11.5	22.1	(*)	26.2	13.9	20.8	6.5
17	10,221	29,497	100,646	14,663	97,110	7,236	55,338	70,742	69,704	2,984	3,206	27,400	3,010
18	3,973	10,508	74,278	4,470	75,015	2,059	34,383	52,808	60,451	1,304	932	13,750	756
19	611,475	2,487,035	4,861,790	721,140	2,621,506	170,050	915,710	2,961,040	2,098,385	228,600	294,100	9,054,945	358,300
20	.....	43	175	15	125	15	39	129	88	4	2	28	7
21	.....	3	.....	6	5	.....	.....	4	2	1	.....	7	.....
22	70	199	25	51	7	25	7	10	6	27	15	514	37
23	19	47	20	35	50	3	4	3	7	3	12	59	16
24	59	230	212	88	160	38	40	189	81	17	16	250	27
25	26	57	6	10	27	4	12	7	22	10	10	104	27
26	4	5	2	.....	1	.....	.....	.....	.....	8	3	194	6
27	11	42	9	4	24	.....	12	14	5	8	6	58	11
28	70	41	12	4	6	.....	2	8	(*)	.....	3	25	.....
29	1,068	4,590	3,437	400	6,689	.....	10,803	25,704	9,280	3,168	801	9,139	1,279
30	708	1,429	1,625	127	1,625	.....	6,403	3,764	2,600	732	399	3,208	175
31	125,800	383,100	262,900	25,900	930,350	.....	307,080	412,950	408,700	172,340	81,096	2,148,900	138,400
32	369	1,422	285	619	885	488	357	189	1,031	253	187	1,882	676
33	138	752	185	170	630	48	198	137	418	161	39	716	208
34	.....	7	4	9	4	11	1	18	50	1	1	23	.....
35	111	679	133	155	314	37	77	70	177	158	38	654	194
36	704,690	3,622,817	1,728,970	642,940	2,872,409	136,950	858,045	1,178,375	1,817,084	931,450	154,250	5,232,250	809,307
37	141,890	909,822	494,565	162,289	691,668	21,313	170,455	314,830	408,921	198,058	36,617	1,039,097	155,481
38	20.1	25.1	28.6	23.7	20.6	15.6	19.9	26.7	22.5	21.3	23.7	19.7	17.9

* No mortgage reports were secured for farms operated by tenants and managers. (See explanation in text.)

SOLD OR SLAUGHTERED ON FARMS, BY COUNTIES: 1909.

1	3,504	10,178	1,570	4,146	1,871	1,159	486	987	1,504	1,910	1,381	17,027	2,344
2	2,876	9,036	1,387	2,985	1,374	1,009	459	974	1,394	1,784	1,170	16,445	2,288
3	1,893,035	4,212,767	400,071	1,057,042	461,048	307,522	191,949	321,358	490,649	931,841	649,633	10,616,773	1,054,637
4	19,820	380,272	26,291	193,250	6,878	6,071	23,486	3,988	15,130	13,549	203,790	7,820,410	130,290
5	261,764	105,176	6,373	40,290	14,761	10,411	110	200	16,176	37,778	19,255	195,255	32,335
6	84,315	762,423	6,435	154,885	.....	.....	.....	.....	5,160	294,539	32,005	154,730	41,371
7	60,022	218,001	123,827	124,131	147,568	53,901	40,272	60,053	97,139	51,072	30,361	365,801	167,830
8	20,709	74,721	56,379	50,747	54,273	17,025	10,150	11,053	33,025	18,273	10,747	184,047	75,248
9	435	2,314	.....	.....	620	70	80	102	.....	.....	.....	22,450	.....
10	245	1,276	.....	.....	220	.....	73	.....	.....	.....	.....	20,450	.....
11	241,740	440,038	47,520	150,571	44,403	34,838	19,924	19,604	29,407	117,113	77,468	1,547,911	124,241
12	230,806	398,683	28,842	131,818	17,833	24,221	10,834	4,310	13,932	107,204	73,116	1,490,064	97,232
13	25,413	94,730	44,877	40,152	111,540	25,311	36,755	39,704	70,069	35,100	13,220	253,402	138,029
14	10,911	38,669	13,523	18,529	30,019	9,138	7,692	7,692	13,008	19,957	6,304	133,682	90,433
15	118,039	475,313	170,879	174,505	323,074	102,864	124,578	127,077	278,068	203,790	61,695	1,310,990	994,549
16	59,204	259,003	61,274	93,604	147,748	52,066	54,821	37,424	105,705	101,775	34,797	979,982	830,219
17	43,885	169,564	55,971	66,279	123,918	42,726	48,544	43,749	93,435	71,451	25,975	547,777	348,667
18	22,114	88,087	21,929	35,342	40,849	20,870	19,828	11,872	30,901	53,600	14,543	374,147	200,066
19	3,210	34,388	3,271	34,970	80	.....	245	806	80	940	425	17,314	3,555
20	28	967	.....	380	.....	.....	.....	5	.....	.....	.....	99	.....
21	541	4,015	601	4,063	12	.....	33	189	16	180	75	2,861	644
22	1,298	939	17,060	1,095	27	20	24,813	7,432	14,000	1,730	442	494	120
23	58	967	.....	80	13	17	.....	.....	5	107	10	168	26
24	1,009	2,045	34,932	1,849	79	82	30,061	12,754	23,750	3,027	479	802	153
25	1,130	5,301	258	2,204	689	418	83	270	400	992	604	10,351	1,228
26	1,082	2,344	2,252	2,564	3,537	1,575	546	3,955	1,680	558	473	4,646	731
27	120	207	532	152	1,170	209	437	492	830	54	25	292	33
28	3,663	6,539	5,449	3,263	7,586	1,142	2,678	6,257	5,088	1,775	1,604	6,068	752
29	670	751	7,001	807	11	18	10,252	4,391	11,731	1,165	321	411	204
30	64,823	95,454	203,700	90,940	228,375	59,122	146,306	306,979	194,414	27,223	12,551	212,139	10,671
31	56,302	115,446	49,502	55,699	114,621	27,160	25,907	28,947	50,205	20,097	30,445	132,513	22,935

TABLE 2.—NUMBER, ACREAGE, AND VALUE OF FARMS CLASSIFIED BY TENURE, COLOR, AND [Comparative data for June 1, 1900, in italics.]

	Kittitas.	Klickitat. ^{1,2}	Lewis.	Lincoln.	Mason. ²	Okanogan. ²	Pacific.	Pierce. ²
FARMS OPERATED BY OWNERS								
1	677	1,413	2,023	1,095	356	2,050	298	2,575
2	<i>887</i>	<i>995</i>	<i>1,539</i>	<i>1,673</i>	<i>248</i>	<i>493</i>	<i>311</i>	<i>1,155</i>
3	77.7	86.1	89.5	79.2	92.5	94.8	85.9	86.7
4	<i>84.0</i>	<i>89.4</i>	<i>89.0</i>	<i>87.5</i>	<i>88.5</i>	<i>97.4</i>	<i>90.9</i>	<i>79.4</i>
5	203,805	456,314	180,269	958,538	39,219	354,700	36,730	127,123
6	57,200	150,862	52,781	619,703	6,837	114,402	6,538	31,058
7	9,389,085	11,954,771	9,561,520	28,774,617	1,690,797	12,047,145	1,710,075	14,362,553
Degree of ownership:								
8	624	1,183	1,890	1,230	347	1,878	290	2,477
9	53	230	133	405	9	181	2	98
Color and nativity of owners:								
10	463	1,100	1,291	1,157	179	1,502	164	1,199
11	297	299	711	537	144	367	134	1,332
12	7	14	21	1	33	130		44
FARMS OPERATED BY TENANTS								
13	158	147	230	416	25	91	48	361
14	<i>104</i>	<i>107</i>	<i>187</i>	<i>216</i>	<i>18</i>	<i>10</i>	<i>30</i>	<i>875</i>
15	18.1	9.0	10.2	19.4	6.5	4.2	13.8	12.2
16	<i>14.0</i>	<i>9.0</i>	<i>10.5</i>	<i>11.5</i>	<i>6.6</i>	<i>2.0</i>	<i>8.8</i>	<i>12.0</i>
17	23,199	51,843	26,271	214,754	3,274	10,347	10,242	25,744
18	15,986	24,118	9,469	162,575	791	5,699	2,707	6,536
19	2,502,830	1,585,525	1,515,290	7,757,910	134,350	421,900	463,050	4,351,058
Form of tenancy:								
20	74	93	32	340	5	33	1	37
21	15	3	2	12	1	2		78
22	43	32	150	29	18	34	39	220
23	26	19	46	35	1	22	8	20
Color and nativity of tenants:								
24	124	124	186	357	17	76	27	173
25	31	15	43	59	4	9	20	96
26	8	8	1		4	6	1	92
FARMS OPERATED BY MANAGERS								
27	36	81	8	28	4	23	1	34
28	<i>8</i>	<i>8</i>	<i>10</i>	<i>22</i>	<i>14</i>	<i>3</i>	<i>1</i>	<i>25</i>
29	30,601	22,134	2,332	36,618	435	8,020	120	3,718
30	5,803	6,601	588	17,102	50	2,285	60	1,211
31	964,860	1,167,110	198,700	748,000	12,900	832,500	10,000	406,360
MORTGAGE DEBT REPORTS:								
For all farms operated by owners:								
32	427	920	1,446	895	205	1,557	230	1,872
33	240	456	558	766	54	469	57	684
34	10	7	19	34	7	43	2	19
For farms consisting of owned land only:								
35	221	386	483	470	51	401	51	605
36	3,132,405	3,597,700	2,402,025	7,178,637	313,872	3,300,110	313,845	3,009,525
37	659,106	808,399	611,623	1,536,923	72,610	660,555	77,215	681,410
38	21.0	22.5	24.8	21.4	23.1	19.7	24.6	22.6

¹ Change of boundary. (See explanation at close of text.)

² Agricultural data for Indians on reservations in 1900 shown separately in last column of table.

TABLE 3.—LIVE STOCK PRODUCTS, AND DOMESTIC ANIMALS

LIVE STOCK PRODUCTS										
Dairy Products										
1	Dairy cows on farms reporting dairy products.....	number..	2,628	2,145	9,100	3,724	1,229	3,547	2,740	9,429
2	Dairy cows on farms reporting milk produced.....	number..	2,084	1,777	8,335	3,475	1,138	2,680	2,303	8,383
3	Milk—Produced.....	gallons..	999,025	675,307	3,547,744	1,241,185	510,594	933,021	1,147,580	4,401,074
4	Sold.....	gallons..	362,334	107,783	1,401,170	128,360	40,233	23,445	630,208	2,269,773
5	Cream sold.....	gallons..	10,453	3,726	70,907	6,753	13,025	5,026	26,903	120,664
6	Butter fat sold.....	pounds..	125,000	67,451	138,719	5,364	28,155	170,030	17,052	135,231
7	Butter—Produced.....	pounds..	120,573	104,667	280,103	256,600	66,277	118,586	81,036	347,950
8	Sold.....	pounds..	88,912	43,593	104,821	89,919	34,118	30,077	46,027	177,945
9	Cheese—Produced.....	pounds..	4,200	365				1,550	150	1,700
10	Sold.....	pounds..	3,870					700		1,610
11	Value of dairy products, excluding home use of milk and cream.....	dollars	144,930	70,089	363,222	99,090	49,364	97,625	130,487	648,140
12	Receipts from sale of dairy products.....	dollars	134,474	52,911	323,256	53,783	39,395	74,201	119,234	599,503
Poultry Products										
13	Poultry—Raised.....	number..	50,843	47,304	104,952	182,983	26,331	74,073	18,428	297,893
14	Sold.....	number..	19,258	11,134	51,685	42,798	10,095	18,865	8,027	109,737
15	Eggs—Produced.....	dozens	189,329	165,943	529,804	584,940	168,841	274,985	92,871	1,179,746
16	Sold.....	dozens	86,900	66,107	298,951	252,137	117,293	120,959	59,724	880,671
17	Value of poultry and eggs produced.....	dollars	74,059	57,626	188,054	213,608	58,535	101,507	37,888	417,656
18	Receipts from sale of poultry and eggs.....	dollars	34,892	20,277	106,687	79,944	35,462	41,340	22,890	295,476
Honey and Wax										
19	Honey produced.....	pounds	18,199	732	33,450	100	14,138	6,624	1,014	18,566
20	Wax produced.....	pounds	35	15	284		170			369
21	Value of honey and wax produced.....	dollars	2,162	116	4,220	20	1,667	1,232	170	2,073
Wool, Mohair, and Goat Hair										
22	Wool, fleeces shorn.....	number..	33,882	30,397	1,553	204	242	8,725	130	1,029
23	Mohair and goat hair, fleeces shorn.....	number..	47	286	556	11	108	30	45	865
24	Value of wool and mohair produced.....	dollars	60,950	52,558	3,021	350	470	14,788	189	2,152
DOMESTIC ANIMALS SOLD OR SLAUGHTERED										
25	Calves—Sold or slaughtered.....	number..	726	717	4,502	1,281	449	1,553	1,019	5,635
26	Other cattle—Sold or slaughtered.....	number..	4,512	3,129	4,626	4,761	477	11,508	1,323	2,834
27	Horses, mules, and asses and burros—Sold.....	number..	494	385	431	1,405	42	1,019	70	279
28	Pigs—Sold or slaughtered.....	number..	2,909	9,071	11,126	8,448	492	4,795	1,039	5,135
29	Sheep and goats—Sold or slaughtered.....	number..	35,199	27,540	1,336	161	162	10,473	172	999
30	Receipts from sale of animals.....	dollars	390,543	318,790	239,941	348,205	17,137	486,027	38,831	162,678
31	Value of animals slaughtered.....	dollars	27,584	52,124	111,869	118,478	10,498	79,385	34,740	70,825

AGRICULTURE—WASHINGTON.

NATIVITY OF FARMERS, AND MORTGAGE DEBT, BY COUNTIES: APRIL 15, 1910—Continued.

[Comparative data for June 1, 1900, in italics.]

	San Juan.	Skagit. ¹	Skamania.	Snohomish. ²	Spokane.	Stevens. ²	Thurston. ¹	Wahkia-kum.	Walla Walla.	Whatcom. ¹	Whitman.	Yakima. ^{1,2}	Indian res.
1	418	1,583	202	1,000	3,285	2,965	1,009	202	976	2,182	2,147	2,595	.....
2	318	711	218	808	2,413	1,046	564	211	809	1,099	2,316	1,000	606
3	80.5	83.4	87.1	88.3	83.2	92.3	80.0	88.2	70.0	90.4	90.3	77.7	.....
4	93.5	80.0	88.7	88.1	88.9	92.4	84.8	85.4	78.0	87.1	75.1	77.8	80.3
5	53,011	89,885	20,710	96,043	542,800	478,834	123,968	23,807	447,831	128,034	774,130	218,790	.....
6	12,740	39,446	3,501	26,021	277,038	102,487	28,316	4,122	281,355	49,436	602,055	117,046	.....
7	2,209,800	11,407,600	1,194,335	9,324,886	34,386,001	14,088,720	5,504,950	1,030,350	21,861,460	11,151,370	30,711,181	30,062,061	.....
8	400	1,499	198	1,662	2,012	2,850	930	108	770	2,090	1,540	2,202	.....
9	18	84	4	38	373	115	73	4	206	83	007	303	.....
10	245	883	144	608	2,210	2,091	675	68	702	1,107	1,060	1,985	.....
11	160	677	58	392	1,063	776	324	132	184	903	480	501	.....
12	13	23	.....	10	3	98	10	2	.....	82	1	40	.....
13	54	302	22	192	611	193	159	27	368	212	905	593	.....
14	16	177	23	113	436	77	97	30	201	101	752	248	70
15	11.2	15.9	9.5	10.6	15.6	6.0	13.0	11.8	26.0	8.8	29.2	17.7	.....
16	4.7	19.9	9.0	11.0	15.0	6.8	14.6	14.6	19.5	12.8	24.4	18.7	10.6
17	10,707	27,141	3,016	17,798	113,312	32,083	26,227	5,133	236,167	15,739	343,218	60,260	.....
18	2,592	18,526	935	7,444	72,004	10,655	6,265	734	177,206	5,783	301,614	45,203	.....
19	344,100	4,420,640	140,460	2,184,403	7,494,370	1,286,820	1,084,425	184,000	10,235,520	1,528,580	18,123,218	8,567,821	.....
20	8	73	4	30	353	73	34	1	209	41	742	202	.....
21	1	10	.....	2	19	8	4	.....	6	3	17	18	.....
22	37	203	16	130	175	78	112	20	89	142	88	299	.....
23	8	16	2	21	64	34	9	6	64	26	58	73	.....
24	42	202	17	104	513	152	134	21	281	141	804	490	.....
25	11	93	5	84	89	38	19	0	68	63	100	82	.....
26	1	7	.....	4	9	3	6	.....	19	8	1	15	.....
27	11	12	8	21	51	38	5	.....	39	10	44	153	.....
28	6	1	4	9	62	9	4	.....	25	9	14	46	.....
29	2,294	1,092	1,899	3,887	26,218	10,342	1,048	.....	55,701	1,074	70,609	41,863	.....
30	299	301	341	661	12,316	3,730	531	.....	21,099	606	20,151	13,561	.....
31	190,300	111,500	115,000	298,400	1,844,570	493,700	180,000	.....	3,591,112	179,300	1,567,949	4,759,475	.....
32	295	1,000	138	1,089	1,914	2,222	759	161	901	1,371	1,237	1,433	.....
33	118	515	64	501	1,353	730	240	47	359	730	889	1,143	.....
34	5	8	.....	10	18	18	4	4	10	75	21	10	.....
35	111	470	61	460	1,121	909	222	39	251	995	595	943	.....
36	611,550	3,214,475	355,745	2,365,045	10,044,418	4,209,295	1,184,760	237,000	5,503,420	3,305,580	8,794,042	10,212,810	.....
37	117,507	983,435	75,990	630,385	2,270,520	854,057	242,500	88,700	1,095,405	817,898	2,142,713	2,452,627	.....
38	19.2	21.3	21.4	26.7	22.7	20.0	20.5	37.4	16.3	24.7	24.4	24.0	.....

* No mortgage reports were secured for farms operated by tenants and managers. (See explanation in text.)

SOLD OR SLAUGHTERED ON FARMS, BY COUNTIES: 1909—Continued.

1	1,491	9,038	680	11,032	8,124	5,437	4,948	2,305	2,775	10,150	8,486	7,045	.....
2	682	9,287	568	7,150	6,990	5,134	3,915	1,238	2,452	9,374	8,312	5,130	.....
3	471,860	5,621,972	209,470	3,872,701	3,274,097	1,041,401	1,841,770	634,427	1,274,879	4,872,649	3,361,297	3,074,763	.....
4	7,874	4,490,806	11,757	2,975,385	1,207,880	79,717	375,040	23,935	343,650	757,100	315,750	367,437	.....
5	89,341	41,350	15,053	221,013	22,548	18,931	83,049	73,822	8,218	158,326	20,095	93,823	.....
6	11,454	35,923	21,723	262,846	19,091	140,443	150,200	173,194	64,800	553,751	177,591	518,515	.....
7	21,784	169,698	24,200	183,851	627,131	378,578	223,764	25,884	184,318	536,010	593,773	300,442	.....
8	8,902	103,338	9,180	111,051	326,433	160,621	124,293	17,210	81,235	340,924	239,252	82,240	.....
9	.....	.....	.....	410	10,804	2,316	730	.....	1,480	60	1,592	1,240	.....
10	.....	.....	.....	410	8,839	1,736	320	.....	1,460	.....	1,275	1,140	.....
11	68,834	635,963	28,295	730,395	433,191	185,969	257,256	118,500	180,208	577,524	290,635	403,472	.....
12	65,662	606,374	23,792	713,319	340,387	121,016	227,427	115,601	102,213	518,442	197,278	339,522	.....
13	27,071	108,200	7,920	82,164	227,880	99,253	84,795	8,192	89,752	120,921	243,079	147,068	.....
14	17,160	46,862	2,524	30,234	70,061	32,628	46,654	3,570	27,075	60,613	60,404	54,782	.....
15	130,395	623,247	38,073	495,423	862,983	406,713	392,209	47,273	873,710	735,376	934,877	567,110	.....
16	87,925	417,700	16,654	336,224	485,266	182,034	291,800	33,502	162,420	540,025	417,879	278,834	.....
17	43,329	218,368	14,280	180,409	308,049	154,388	144,338	16,320	135,570	204,450	332,570	233,143	.....
18	20,920	136,361	5,785	116,290	186,040	65,866	101,667	10,441	52,429	179,124	140,254	113,625	.....
19	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
20	490	32,601	1,680	11,795	13,816	1,730	12,812	3,125	40,944	23,492	20,620	99,961	.....
21	65	236	15	119	95	68	144	22	360	53	65	977	.....
22	6,622	2,508	193	724	479	2,730	550	126	21,189	3,305	22,869	22,327	.....
23	92	21	165	209	212	340	229	35	14	55	52	8	.....
24	8,495	3,314	579	1,459	1,013	3,652	905	191	30,458	4,021	43,520	30,729	.....
25	601	3,904	364	4,203	3,097	1,901	2,518	1,259	800	4,042	3,486	3,564	.....
26	652	4,552	284	2,623	4,782	5,671	2,520	760	2,460	3,200	11,917	11,083	.....
27	26	497	33	179	1,194	689	163	32	920	429	2,595	1,485	.....
28	1,016	3,907	492	5,279	10,963	6,663	4,937	1,057	6,865	7,260	42,211	9,227	.....
29	2,414	2,477	93	654	952	2,012	767	59	9,891	2,364	8,897	19,588	.....
30	17,330	305,275	10,084	125,817	334,086	214,830	92,002	16,211	287,213	146,192	1,154,180	753,569	.....
31	26,569	33,640	9,923	82,198	184,755	122,147	74,730	30,392	61,549	118,932	235,337	67,684	.....

AGRICULTURE—WASHINGTON.

TABLE 4.—VALUE OF ALL CROPS AND PRINCIPAL CLASSES THEREOF, AND

		THE STATE.	Adams.	Asotin.	Benton.	Chehalis.	Chelan.	Clallam.	
VALUE OF ALL CROPS									
1	Total	dollars..	78,927,953	4,914,204	850,319	712,767	637,369	1,505,116	477,654
2	Cereals	dollars..	44,762,138	4,463,836	574,716	356,214	101,698	65,143	64,760
3	Other grains and seeds	dollars..	172,700	31	200	100	10,470	15	7,513
4	Hay and forage	dollars..	17,147,648	410,150	119,478	230,742	215,803	201,475	270,513
5	Vegetables	dollars..	5,982,065	35,937	45,222	63,471	122,577	106,354	61,601
6	Fruits and nuts	dollars..	5,270,473	4,110	55,744	38,770	35,550	933,249	24,454
7	All other crops	dollars..	5,591,429	140	64,059	27,454	161,371	108,880	48,723
SELECTED CROPS (acres and quantity)									
8	Cereals:								
9	Total	acres	2,591,582	343,512	29,416	78,341	3,619	4,345	1,650
10		bushels..	60,610,807	5,236,098	750,866	393,482	187,864	82,457	93,868
11	Corn	acres	20,033	702	403	118	2	3,491	2
12		bushels..	563,025	7,700	7,463	4,272	50	64,802	120
13	Oats	acres	200,742	7,859	320	1	2,953	32	1,135
14		bushels..	13,228,003	243,538	8,750	100	166,458	1,040	62,132
15	Wheat	acres	2,118,015	332,505	22,945	77,508	549	820	591
16		bushels..	40,920,390	4,943,867	584,244	384,230	10,871	16,595	25,026
17	Emmer and spelt	acres	302	1					
18		bushels..	10,843	15			100		
19	Barley	acres	171,888	1,483	5,686	702	92		117
20		bushels..	5,834,615	33,737	149,249	4,810	3,988		6,436
21	Rye	acres	6,450	965		12	17		5
22		bushels..	60,746	7,241		70	297		155
23	Other grains:								
24	Dry peas	acres	3,196				245		214
25		bushels..	91,032	22			9,858	5	5,531
26	Dry edible beans	acres	353						
27		bushels..	3,311		10	2			3
28	Hay and forage:								
29	Total	acres	742,137	26,359	8,518	8,829	7,030	8,549	6,858
30		tons	1,391,664	28,913	13,210	20,923	17,190	16,653	18,628
31	All tame or cultivated grasses	acres	344,013	1,510	1,265	4,278	5,869	3,772	4,597
32		tons	810,310	3,983	1,775	18,950	12,611	11,070	10,351
33	Timothy alone	acres	88,298	60	821	103	749	681	187
34		tons	143,461	240	844	363	1,563	1,229	381
35	Timothy and clover mixed	acres	120,890	180	30	412	4,408	299	3,859
36		tons	263,194	330	30	1,230	9,793	457	8,035
37	Clover alone	acres	10,897			124	159	50	412
38		tons	21,923		3	386	314	150	615
39	Alfalfa	acres	94,000	675	387	3,632		2,733	125
40		tons	357,595	2,208	873	10,076		9,231	407
41	Millet or Hungarian grass	acres	259				2		
42		tons	421				2	3	
43	Other tame or cultivated grasses	acres	28,769	595	25	7	401		14
44		tons	42,722	1,205	25	4	939		13
45	Wild, salt, or prairie grasses	acres	28,168	681		352	61	119	183
46		tons	30,563	942		337	91	167	208
47	Grains cut green	acres	358,543	24,083	7,129	4,179	983	3,989	1,963
48		tons	499,955	23,800	11,295	1,691	2,179	4,102	4,965
49	Coarse forage	acres	10,328	84	124	20		664	44
50		tons	26,005	88	140	36		1,182	153
51	Special crops:								
52	Potatoes	acres	57,897	840	139	505	912	930	568
53		bushels..	7,067,171	45,299	17,494	40,311	162,220	93,178	87,200
54	All other vegetables	acres	24,415	138	387	281	330	568	106
55	Sugar beets	acres	1,820			13	39		3
56		tons	13,794			331	646		75
57	Hops	acres	2,433			57	6		
58		pounds	3,432,504			95,370	6,000		
59	FRUITS AND NUTS								
60	Total	acres	4,944,889	45,640	106,087	54,722	32,709	600,114	25,175
61		bushels..	4,244,670	2,527	47,168	4,388	29,004	602,765	22,694
62	Apples	acres	3,009,337	28,873	18,344	18,649	22,053	421,800	19,038
63		bushels..	2,672,160	1,310	29,435	2,480	18,407	543,757	17,856
64	Peaches and nectarines	acres	536,375	1,433	53,457	22,331	631	113,294	294
65		bushels..	84,494	10	7,458		65	5,800	55
66	Pears	acres	200,076	5,192	3,437	5,167	2,721	25,957	1,335
67		bushels..	310,804	476	2,062	575	2,891	27,637	1,542
68	Plums and prunes	acres	823,082	5,128	5,552	2,050	5,710	8,029	3,180
69		bushels..	1,032,077	525	3,444	888	7,029	17,820	2,989
70	Cherries	acres	241,038	3,597	23,179	3,018	1,517	10,447	1,242
71		bushels..	131,392	179	4,369	40	592	5,807	803
72	Apricots	acres	36,088	1,285	1,786	1,700	11	14,207	26
73		bushels..	10,789	17	395	2	3	2,433	10
74	Grapes	vines	322,007	727	25,058	69,103	2	10,872	6
75		pounds	1,794,005	165	53,425	103,910	109	49,540	205
76	Small fruits:								
77	Total	acres	5,508	7	31	229	53	93	24
78		quarts..	13,490,930	6,882	59,338	235,036	93,657	140,086	26,716
79	Strawberries	acres	3,283	1	9	198	30	55	14
80		quarts..	7,083,774	983	18,466	199,331	64,054	92,606	15,130
81	Raspberries and loganberries	acres	1,210		8	13	12	16	6
82		quarts..	3,118,720	100	10,430	12,085	18,867	14,771	6,465
83	Blackberries and dewberries	acres	709	1	14	14	10	11	2
84		quarts..	2,340,770	2,012	20,610	19,311	9,019	10,120	3,042
85	Nuts:								
86	Total	acres	7,107	67	732	58	24	729	42
87		pounds	65,441		2,100	730		4,476	10
88	Walnuts (Persian or English)	acres	3,651	13	405	31	24	702	29
89		pounds	16,460		2,025	30		4,300	

TABLE 5.—SELECTED FARM EXPENSES

1	Labor	Farms reporting	29,965	929	332	584	353	882	300
2		Cash expended	12,602,293	545,426	111,406	291,086	86,574	340,985	71,302
3		Rent and board furnished	2,768,728	148,140	23,990	40,981	32,250	58,730	22,791
4	Fertilizer	Farms reporting	1,801	1	38	61	35	23	12
5		Amount expended	37,023	25	1,803	1,837	744	649	298
6	Feed	Farms reporting	29,375	501	227	657	378	1,021	365
7		Amount expended	5,045,297	109,334	25,861	110,973	47,903	146,469	54,160
8	Receipts from sale of feedable crops	dollars	7,277,118	21,806	55,749	53,319	38,367	55,843	36,887

AGRICULTURE—WASHINGTON.

ACREAGE AND PRODUCTION OF PRINCIPAL CROPS, BY COUNTIES: 1909.

	Clarke.	Columbia.	Cowlitz.	Douglas.	Ferry.	Franklin.	Garfield.	Grant.	Island.	Jefferson.	King.	Kitsap.
1	1,593,060	2,421,469	642,335	3,452,126	310,760	924,132	1,979,244	1,994,782	369,342	185,590	2,458,556	326,525
2	152,481	2,039,018	54,008	2,750,202	44,288	800,728	1,646,556	1,650,189	118,787	2,567	44,860	315
3	4,186		1,999		320				1,235	22	7,987	90
4	589,284	204,733	267,672	507,871	128,353	104,736	200,815	200,197	83,608	87,219	572,123	111,043
5	252,411	73,392	110,452	111,478	48,837	8,224	51,565	30,374	60,077	28,976	704,538	77,683
6	365,235	61,896	84,870	181,042	6,310	1,240	71,449	9,597	26,449	20,236	456,559	70,641
7	229,463	22,430	113,234	0,892	83,809	204	8,850	5,425	70,186	40,570	582,723	60,762
8	7,477	84,733	2,060	204,698	2,698	113,161	78,146	188,222	3,516	88	1,186	13
9	275,190	3,002,223	91,558	3,353,221	71,681	963,496	2,290,385	1,888,280	183,205	3,875	72,652	315
10	212	2,394	51	2,843	308	584	831	584			24	1
11	0,902	71,468	2,062	32,469	7,380	1,670	17,407	4,351		10	911	40
12	0,005	570	1,520	16,732	1,291	1,350	36	5,044	1,060	71	903	4
13	235,889	28,938	74,648	485,055	41,194	7,234	1,357	102,141	103,206	3,379	61,385	86
14	1,152	41,593	411	181,042	981	111,059	40,335	179,089	1,800	14	131	8
15	20,783	1,308,648	12,320	2,724,169	17,898	947,403	1,200,413	1,737,684	77,409	370	3,735	190
16	15		1		2			49				
17	152		20		146			360		45		
18	69	40,106	54	5,081	204			1,805		45		
19	1,988	1,503,109	1,066	111,528	5,063			39,304	2,545	110	6,405	
20	21		21			5,384	1,071,208	691			1	
21	408		482			1,775		4,440		6	16	
22	32		41		3							
23	651		1,088		68				43	1	62	1
24	5		3		25				655	12	2,114	40
25	52		55		88							
26	84,457	10,369	10,088	36,069	8,944	15,210	12,094	25,969	2,928	2,342	17,819	3,666
27	44,730	19,801	20,469	34,545	11,160	7,851	20,478	19,997	7,574	5,608	46,070	7,359
28	15,652	2,770	0,314	4,727	3,558	243	1,706	2,227	2,357	1,901	12,809	2,333
29	27,927	0,033	13,227	4,027	3,992	1,252	4,887	5,357	4,478	4,570	29,026	4,617
30	927	534	780		3,289		140	30	214	129	771	71
31	1,632	779	1,844		3,475		125	30	362	334	1,775	127
32	10,047	27	4,224		14		4	320	1,701	1,695	10,758	1,643
33	18,088	34	9,004		24		18	680	3,327	3,847	24,849	3,384
34	1,611	4	657		5		1	4	157	33	449	
35	3,229	5	1,368		6		2	8	293	82	1,642	795
36	81	2,100	3	209	214	243	1,561	697	1		14	
37	240	5,185	13	466	411	1,252	4,742	2,045	2		45	
38	4	18	1		30				1		3	
39	5	30			40				2		1	
40	2,082		649	4,518	6			1,176	283	134	391	168
41	4,724		997	3,501	6			1,094	492	316	715	307
42	2,580	30	1,545	48	214			407	11	20	237	122
43	3,187	45	1,937	132	192			754	15	67	452	159
44	5,827	7,558	2,107	28,283	5,091	14,909	10,389	22,308	451	299	4,373	1,189
45	10,151	13,718	4,365	27,397	6,727	6,565	15,554	13,553	884	662	10,486	2,466
46	310	1	105	3,011	73	58		437	17	12	260	8
47	2,301	2	703	2,989	241	34		333	206	17	3,780	16
48	3,302	475	1,239	1,437	247	179	146	428	928	176	3,989	413
49	378,103	60,144	100,467	81,589	30,654	8,774	20,630	19,648	115,123	28,464	668,860	71,611
50	1,127	591	347	1,002	377	28	401	404	183	108	1,921	260
51			11		8			3	6	5	72	
52			168	2	53	30			111	36	1,336	
53	13		20								37	
54	13,000		32,000								38,000	
55	522,646	55,357	75,630	55,704	7,469	6,989	53,683	16,973	34,706	13,428	175,853	56,102
56	893,758	58,245	94,496	40,636	1,197	1,151	56,847	4,373	23,863	17,307	232,113	60,178
57	104,374	40,621	45,523	32,141	5,857	2,233	14,251	10,534	28,511	10,871	114,803	40,705
58	67,600	50,054	58,556	28,031	970	516	22,120	2,500	18,584	14,271	153,971	45,979
59	3,275	5,869	057	13,543	276	2,901	24,911	2,493	17	21	942	385
60	2,024	16	533	2,464	2	425	18,150	509	4		893	168
61	17,153	2,986	7,336	3,809	237	600	4,547	982	1,438	621	13,217	3,479
62	14,406	4,385	12,369	6,315	17	72	7,218	388	1,015	893	17,156	3,545
63	387,042	2,857	15,490	2,865	645	675	5,893	1,385	1,909	1,424	30,433	7,913
64	663,060	1,837	16,754	2,290	192	20	6,202	470	1,583	1,783	33,367	7,379
65	9,052	2,766	6,435	1,851	499	303	3,108	1,010	2,728	460	15,509	3,413
66	0,074	1,261	6,114	1,193	16	17	1,951	224	1,676	349	16,210	2,444
67	106	347	14	1,457	14	315	908	563	15	1	31	15
68	99	92	7	706		101	1,196	280			15	1
69	10,349	699	448	3,380	150	6,229	15,930	1,000	15	3	261	73
70	55,000	0,870	12,953	13,160	150	3,800	102,530	1,815	760	150	3,325	1,203
71	156	43	56	18	81	1	32	17	46	8	1,223	111
72	242,518	84,586	84,901	20,316	30,109	1,256	39,200	23,758	113,998	10,177	4,298,927	262,561
73	100	27	30	7	12	1	6	7	36	4	991	68
74	107,483	58,960	57,508	8,156	11,716	800	4,401	12,845	94,776	3,660	3,586,919	180,941
75	37	7	8		8		12	4	3	2	153	21
76	58,465	12,848	10,233	7,867	6,933		10,048	5,070	10,200	3,257	515,656	44,007
77	8	7	13	2	3		11	3	6	2	57	11
78	10,048	11,391	12,280	2,440	3,571	20	15,754	3,299	4,183	2,770	152,173	15,246
79	2,007	275	61	18			10	33	9	9	201	41
80	7,247	1,480	405	570				50	165	1	801	45
81	1,073	0	49	11			4	12	5	3	182	20
82	5,196		55	20					55		761	45

AND RECEIPTS, BY COUNTIES: 1909.

1	1,136	465	410	1,126	284	376	377	874	248	102	1,647	378
2	204,972	404,776	67,743	534,197	45,052	250,109	243,434	297,791	59,193	44,539	624,941	51,617
3	45,737	65,934	10,361	115,298	15,469	66,142	58,193	68,410	7,322	12,325	131,270	16,423
4	269	3	30	4	1	3		6	16	3	285	67
5	3,946	370	623	230	4	85		475	120	120	18,732	1,993
6	1,593	241	599	593	251	320	130	690	330	159	2,540	818
7	172,879	33,059	61,129	65,013	20,873	88,076	20,229	93,736	49,495	37,955	759,370	241,038
8	97,450	563,473	60,412	78,612	26,885	11,622	439,916	32,202	16,370	85	26,923	24

AGRICULTURE—WASHINGTON.

TABLE 4.—VALUE OF ALL CROPS AND PRINCIPAL CLASSES THEREOF, AND

		Kittitas.	Klickitat.	Lewis.	Lincoln.	Mason.	Okanogan.	Pacifico.	Pierce.	
VALUE OF ALL CROPS										
1	Total.....	dollars.....	1,606,164	1,278,530	1,418,626	8,272,870	273,612	1,209,937	275,126	1,873,293
2	Cereals.....	dollars.....	234,100	759,140	811,670	7,343,083	9,735	401,233	6,151	38,281
3	Other grains and seeds.....	dollars.....		80	34,946	1,011	1,245	2,700	30	1,490
4	Hay and forage.....	dollars.....	1,183,114	320,998	526,698	730,741	91,364	542,752	110,485	304,568
5	Vegetables.....	dollars.....	80,330	75,001	207,673	103,999	43,933	133,866	58,621	522,185
6	Fruits and nuts.....	dollars.....	45,312	71,599	107,930	50,996	30,142	60,673	12,058	411,494
7	All other crops.....	dollars.....	57,302	42,712	229,800	33,140	69,713	81,775		595,276
SELECTED CROPS (acres and quantity)										
Cereals:										
8	Total.....	acres.....	10,348	65,563	14,206	420,607	450	24,707	282	1,943
9		bushels.....	396,955	874,484	873,438	8,687,406	15,101	654,342	11,621	60,677
10	Corn.....	acres.....	32	106	30	861	1	3,717		16
11		bushels.....	779	1,122	873	10,989	15	75,733		580
12	Oats.....	acres.....	5,437	2,848	11,927	11,026	303	10,882	263	1,501
13		bushels.....	200,860	61,850	507,885	480,690	13,133	306,690	11,031	50,694
14	Wheat.....	acres.....	4,099	58,302	2,027	389,968	127	8,916	19	306
15		bushels.....	103,671	743,580	50,976	7,052,522	1,528	180,814	590	6,138
16	Emmer and spelt.....	acres.....					6			
17		bushels.....					150			
18	Barley.....	acres.....	796	3,998	150	18,897	13	1,032		53
19		bushels.....	25,305	67,529	6,338	501,785	245	32,140		2,444
20	Rye.....	acres.....	108	44	44	57	1	156		67
21		bushels.....		396	716	1,420	30	2,042		819
Other grains:										
22	Dry peas.....	acres.....			1,155	1	35	2	1	20
23		bushels.....			20,191	5	744	31	80	387
24	Dry edible beans.....	acres.....				107	1	77		
25		bushels.....				330	0	1,068		
Hay and forage:										
26	Total.....	acres.....	44,540	21,787	20,475	42,590	3,119	37,449	3,983	12,369
27		tons.....	76,681	23,919	41,156	68,906	5,870	54,025	9,295	23,685
28	All tame or cultivated grasses.....	acres.....	40,898	3,725	11,275	4,400	2,218	13,124	2,745	6,808
29		tons.....	71,860	5,962	22,064	7,404	3,841	20,620	6,029	13,185
30	Timothy alone.....	acres.....	12,036	1,202	2,048	2,622	125	6,110	38	797
31		tons.....	22,349	1,407	4,195	3,937	213	6,316	83	1,714
32	Timothy and clover mixed.....	acres.....	15,124	1,221	7,795	506	1,578	662	2,317	4,975
33		tons.....	23,973	2,269	15,310	1,003	2,900	1,203	5,154	9,696
34	Clover alone.....	acres.....	408	316	1,118	6	240	76	200	666
35		tons.....	1,015	778	2,023	11	340	193	408	1,210
36	Alfalfa.....	acres.....	6,987	905	2	789		5,473		12
37		tons.....	11,326	1,411	3	1,483		14,673		44
38	Millet or Hungarian grass.....	acres.....	3	25	0	46		2		6
39		tons.....	4	20	11	126		2		5
40	Other tame or cultivated grasses.....	acres.....	7,180	56	396	401	275	1,771	130	353
41		tons.....	13,193	77	509	784	370	2,209	204	516
42	Wild, salt, or prairie grasses.....	acres.....	390	2,472	261	1,531	257	3,333	290	777
43		tons.....	378	2,030	301	2,031	238	3,696	612	941
44	Grains cut green.....	acres.....	3,261	16,421	8,835	30,145	611	19,610	608	4,665
45		tons.....	3,841	16,151	16,024	58,728	1,116	24,242	2,559	8,599
46	Coarse forage.....	acres.....	1	100	30	453	14	1,374	3	64
47		tons.....	2	167	396	737	140	1,615	51	506
Special crops:										
48	Potatoes.....	acres.....	1,331	1,050	1,861	1,382	320	972	308	2,983
49		bushels.....	135,644	65,523	204,967	96,168	44,620	115,870	40,286	495,162
50	All other vegetables.....	acres.....	318	500	758	650	143	961	151	1,540
51	Sugar beets.....	acres.....			35		11	25	2	20
52		tons.....			328		268	192	40	220
53	Hops.....	acres.....	312						40	638
54		pounds.....			407,807					770,985
FRUITS AND NUTS										
Orchard fruits:										
55	Total.....	trees.....	50,460	76,221	128,787	131,071	32,825	44,803	11,675	187,197
56		bushels.....	32,134	27,073	123,559	41,874	31,276	56,205	8,526	155,542
57	Apples.....	trees.....	33,244	50,548	70,120	84,402	23,666	33,243	8,258	115,637
58		bushels.....	23,641	18,894	71,560	22,240	22,047	36,563	6,560	104,949
59	Peaches and nectarines.....	trees.....	1,773	8,002	430	15,190	129	4,907	24	804
60		bushels.....	63	798	241	642	100	5,182		660
61	Pears.....	trees.....	3,167	4,773	11,751	12,263	2,853	1,940	780	11,567
62		bushels.....	3,392	3,193	14,114	12,224	2,982	3,170	337	15,721
63	Plums and prunes.....	trees.....	4,441	7,510	33,720	10,152	4,424	2,640	2,164	25,381
64		bushels.....	3,420	3,410	33,527	4,631	4,640	3,174	1,566	23,081
65	Cherries.....	trees.....	2,411	4,645	6,424	7,278	1,785	1,694	420	12,343
66		bushels.....	1,010	584	3,931	1,578	1,421	1,467	50	10,510
67	Apricots.....	trees.....	380	479	7	1,533	3	550	6	44
68		bushels.....	14	68	1	222		646		8
69	Grapes.....	vines.....	546	17,994	515	5,246	6,462	2,062	2	2,138
70		pounds.....	2,000	90,314	3,105	40,760	158,375	3,475		14,245
Small fruits:										
71	Total.....	acres.....	28	180	93	69	23	62	20	1,174
72		quarts.....	33,768	252,373	130,315	104,867	37,260	65,852	38,080	3,938,832
73	Strawberries.....	acres.....	11	139	54	23	15	39	14	306
74		quarts.....	17,455	223,879	66,674	38,238	28,438	42,404	18,598	654,442
75	Raspberries and loganberries.....	acres.....	5	6	28	26	5	12	3	432
76		quarts.....	4,777	12,540	50,859	28,995	5,618	11,880	10,047	1,006,031
77	Blackberries and dewberries.....	acres.....	4	6	5	17	2	2	1	401
78		quarts.....	4,201	7,270	7,726	34,998	2,261	2,285	1,457	1,020,091
Nuts:										
79	Total.....	trees.....	9	146	111	20	90	58	13	52
80		pounds.....	2,040	2,552	1,001	165	278	250	20	265
81	Walnuts (Persian or English).....	trees.....	2	61	70	10	63	28	10	38
82		pounds.....	40	138	475	100	255	50	20	185

TABLE 5.—SELECTED FARM EXPENSES

		Kittitas.	Klickitat.	Lewis.	Lincoln.	Mason.	Okanogan.	Pacifico.	Pierce.
1	Labor.....								
2	Farms reporting.....	572	910	1,021	1,500	133	1,132	187	1,310
3	Cash expended.....	dollars.....	300,202	209,184	167,132	875,098	24,975	221,630	47,447
4	Rent and board furnished.....	dollars.....	92,456	48,946	36,552	211,128	7,262	46,859	10,428
5	Fertilizer.....								
6	Farms reporting.....	21	51	39	9	18	5	20	327
7	Amount expended.....	dollars.....	1,455	1,260	1,089	1,019	358	57	560
8	Feed.....								
9	Farms reporting.....	421	714	1,239	846	253	651	275	2,225
10	Amount expended.....	dollars.....	83,068	96,386	133,381	122,339	43,995	33,832	48,309
11	Receipts from sale of feedable crops.....	dollars.....	686,638	37,794	108,826	108,941	3,407	173,719	5,816

AGRICULTURE--WASHINGTON.

ACREAGE AND PRODUCTION OF PRINCIPAL CROPS, BY COUNTIES: 1909--Continued.

	San Juan.	Skagit.	Skamania.	Snohomish.	Spokane.	Stevens.	Thurston.	Wahkiakum.	Walla Walla.	Whatcom.	Whitman.	Yakima.	Indian res.
1	398,248	2,228,487	117,863	1,301,257	5,306,115	1,917,682	787,763	91,985	5,828,559	1,712,778	12,540,694	4,734,144	.....
2	53,980	1,010,900	6,708	146,040	2,823,814	281,515	85,512	655	4,742,408	272,273	10,878,427	378,305	.....
3	8,534	19,543	70	423	15,002	2,915	2,020	100	1,203	42,332	4,473	1,730	.....
4	103,053	673,789	38,043	451,089	1,203,351	815,085	301,575	45,408	709,403	670,078	1,060,243	2,482,200	.....
5	48,370	202,935	27,804	236,480	543,503	239,369	135,223	15,504	101,042	294,667	290,502	475,263	.....
6	74,668	110,852	17,890	103,774	375,623	140,050	77,511	9,141	91,857	131,870	321,331	667,037	.....
7	109,637	208,388	26,742	364,451	844,702	438,718	185,922	21,217	33,659	201,658	20,718	720,573	.....
8	2,215	22,813	430	3,508	143,747	15,114	4,886	18	221,941	8,540	453,297	30,320	.....
9	102,750	2,156,827	11,985	298,843	4,425,090	430,718	154,803	1,140	5,821,100	504,318	15,953,866	534,172	.....
10	34	0	4	1,037	2,045	17	.....	1,203	7	2,371	1,619	.....
11	2,005	183	173	30,355	63,109	025	.....	39,930	331	40,905	63,072	.....
12	1,649	22,179	207	3,334	45,479	7,556	3,783	18	1,433	7,381	81,095	4,434	.....
13	80,275	2,137,391	0,763	292,660	1,890,823	273,500	134,757	1,140	50,704	400,870	4,302,068	181,653	.....
14	537	280	171	99	03,295	4,295	770	.....	102,448	023	347,033	20,957	.....
15	12,508	11,023	888	2,904	2,378,440	83,949	14,032	.....	4,099,205	31,719	10,098,029	209,509	.....
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64
65
66
67
68
69
70
71
72
73
74
75
76
77
78
79
80
81
82

AND RECEIPTS, BY COUNTIES: 1909--Continued.

1	142	077	118	847	2,071	1,371	434	120	1,000	1,108	2,351	1,837	.....
2	25,009	378,694	37,004	240,305	664,482	242,438	101,488	21,338	1,098,048	195,153	1,773,161	1,158,098	.....
3	2,840	100,625	5,228	73,809	150,047	55,133	81,320	7,623	280,321	41,113	312,345	190,597	.....
4	7	59	4	00	43	17	73	3	52	122	4	25	.....
5	297	237	19	1,966	3,489	630	1,702	26	4,639	6,692	2,068	2,209	.....
6	312	1,048	100	1,378	1,552	1,467	825	182	685	1,517	784	1,449	.....
7	37,403	172,804	19,424	245,203	241,326	160,487	145,712	10,007	199,188	200,238	124,364	192,381	.....
8	6,796	789,305	2,877	108,358	603,173	247,366	36,842	1,041	323,672	158,401	1,175,668	1,015,747	.....

TABLE 6.—NUMBER AND VALUE OF DOMESTIC ANIMALS NOT ON FARMS, BY COUNTIES: APRIL 15, 1910.

	THE STATE.	Adams.	Asotin.	Benton.	Chelan.	Chewahalis.	Chelan.	Clallam.	Clarke.	Columbia.
1	Inclusures reporting domestic animals...	20,509	136	230	110	660	268	274	475	240
2	Value of all domestic animals...dollars..	7,558,077	84,730	57,074	58,417	217,113	77,937	48,091	212,955	66,007
	Cattle:									
3	Total number.....	21,730	76	163	49	1,143	126	434	693	250
4	Value.....dollars..	820,528	3,782	7,588	2,350	37,033	5,098	13,355	22,896	10,169
5	Number of dairy cows.....	15,266	61	117	45	658	104	238	352	192
	Horses:									
6	Total number.....	44,017	527	424	475	1,182	583	334	1,121	415
7	Value.....dollars..	6,350,366	72,905	48,470	52,117	173,844	71,170	34,181	145,592	55,095
8	Number of mature horses.....	43,933	517	417	468	1,100	570	321	1,110	397
	Mules and asses and burros:									
9	Total number.....	1,018	41	6	17	14	6	1	402	.....
10	Value.....dollars..	321,297	8,000	1,100	3,950	1,350	800	25	42,910	.....
11	Number of mature mules.....	1,760	40	6	16	8	6	1	401	.....
	Swine:									
12	Total number.....	4,274	13	35	.....	326	12	54	53	21
13	Value.....dollars..	44,763	73	345	.....	3,698	180	530	405	142
	Sheep and goats:									
14	Total number.....	3,746	.....	43	.....	51	14	.....	255	3
15	Value.....dollars..	21,125	.....	171	.....	200	89	.....	1,152	11

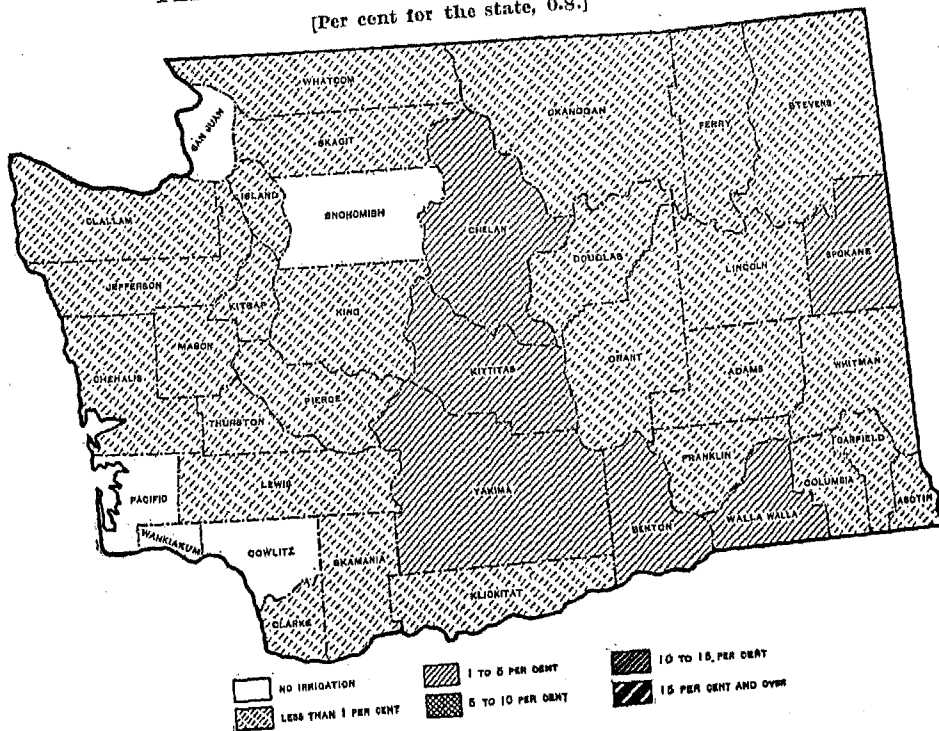
	Cowlitz.	Douglas.	Ferry.	Franklin.	Garfield.	Grant.	Island.	Jefferson.	King.	Kitsap.
1	Inclusures reporting domestic animals...	204	64	100	73	139	112	137	170	2,051
2	Value of all domestic animals...dollars..	72,213	38,595	28,158	26,569	38,073	44,825	25,593	52,833	1,814,074
	Cattle:									
3	Total number.....	357	64	214	60	136	117	230	303	2,875
4	Value.....dollars..	12,940	2,369	5,883	2,311	4,905	4,304	7,953	8,859	117,406
5	Number of dairy cows.....	269	52	97	37	96	80	123	194	2,191
	Horses:									
6	Total number.....	440	339	223	214	210	331	141	283	0,952
7	Value.....dollars..	56,556	32,798	21,045	23,207	32,460	35,075	16,360	34,430	1,568,322
8	Number of mature horses.....	427	298	212	211	216	320	183	280	0,903
	Mules and asses and burros:									
9	Total number.....	11	16	1	1	3	25	2	68	583
10	Value.....dollars..	2,140	3,200	50	1,000	700	4,850	500	8,885	110,431
11	Number of mature mules.....	11	18	.....	.....	3	25	2	46	508
	Swine:									
12	Total number.....	54	26	30	9	2	71	21	61	600
13	Value.....dollars..	566	228	280	51	8	596	136	468	5,198
	Sheep and goats:									
14	Total number.....	3	.....	.....	.....	.....	104	61	1,801	79
15	Value.....dollars..	11	.....	.....	.....	.....	624	191	12,627	318

	Kititas.	Klickitat.	Lewis.	Lincoln.	Mason.	Okanogan.	Pacific.	Pierce.	San Juan.	Skagit.
1	Inclusures reporting domestic animals...	482	166	678	292	141	153	176	2,083	18
2	Value of all domestic animals...dollars..	134,133	70,903	148,304	158,060	43,645	108,280	36,452	648,878	8,080
	Cattle:									
3	Total number.....	337	166	775	277	207	402	281	1,827	31
4	Value.....dollars..	15,721	6,070	27,577	9,870	6,634	13,953	11,488	71,229	1,275
5	Number of dairy cows.....	288	124	546	193	133	141	210	1,410	20
	Horses:									
6	Total number.....	880	513	873	800	220	712	143	3,770	42
7	Value.....dollars..	105,700	63,990	115,692	130,753	36,453	80,330	24,460	566,829	7,145
8	Number of mature horses.....	871	504	850	772	216	694	138	3,741	41
	Mules and asses and burros:									
9	Total number.....	104	4	24	13	.....	55	2	48	.....
10	Value.....dollars..	12,140	480	3,825	8,900	.....	13,725	140	7,060	.....
11	Number of mature mules.....	82	2	24	5	.....	49	2	47	.....
	Swine:									
12	Total number.....	70	28	128	34	81	35	29	413	2
13	Value.....dollars..	567	331	864	410	558	278	304	3,567	20
	Sheep and goats:									
14	Total number.....	1	10	56	3	.....	.....	37	121	0
15	Value.....dollars..	5	23	346	18	.....	.....	193	540	40

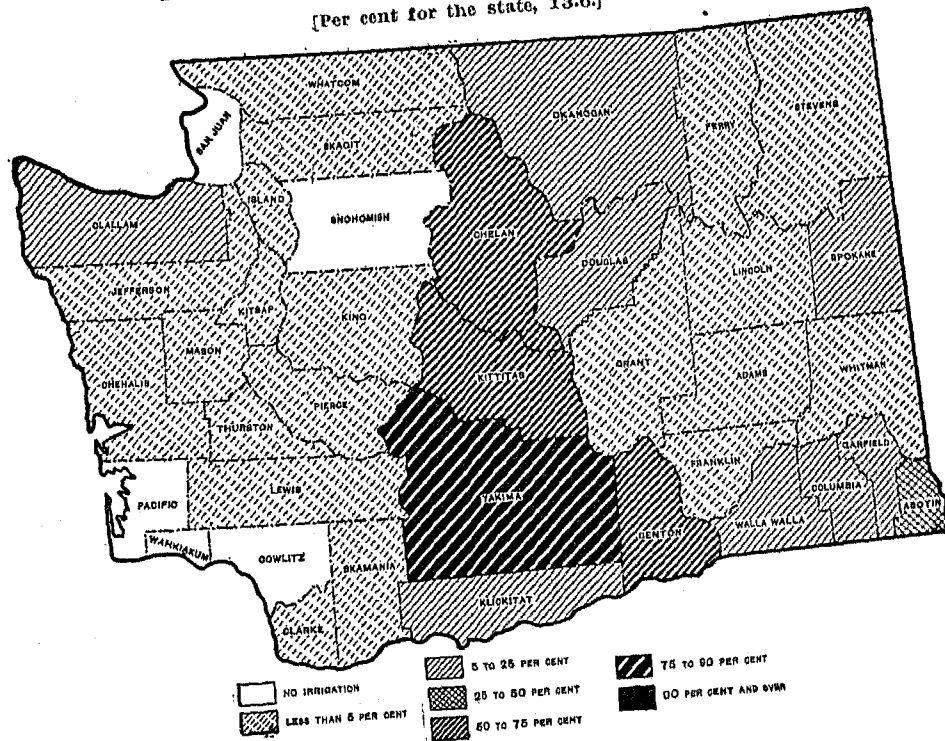
	Skamania.	Snohomish.	Spokane.	Stevens.	Thurston.	Wahkiakum.	Walla Walla.	Whitcom.	Whitman.	Yakima.
1	Inclusures reporting domestic animals...	85	1,258	2,570	422	449	71	811	1,431	753
2	Value of all domestic animals...dollars..	18,276	467,960	921,263	172,066	112,850	7,061	225,555	370,432	204,468
	Cattle:									
3	Total number.....	156	1,420	1,384	455	530	158	674	2,304	816
4	Value.....dollars..	4,503	57,176	60,411	16,171	17,617	4,611	28,626	83,548	32,362
5	Number of dairy cows.....	81	1,019	1,087	275	377	99	526	1,549	606
	Horses:									
6	Total number.....	134	2,128	6,307	1,108	709	23	1,508	1,066	1,042
7	Value.....dollars..	13,520	397,711	825,613	149,705	91,670	2,085	184,467	280,640	252,654
8	Number of mature horses.....	131	2,115	6,264	1,088	688	.....	1,466	1,056	1,594
	Mules and asses and burros:									
9	Total number.....	.....	32	192	31	8	.....	44	32	30
10	Value.....dollars..	.....	5,042	26,391	6,150	1,050	.....	12,025	5,200	7,575
11	Number of mature mules.....	.....	32	144	31	6	.....	30	31	27
	Swine:									
12	Total number.....	27	613	388	53	87	40	42	426	133
13	Value.....dollars..	250	7,143	6,615	640	1,209	305	346	3,209	1,877
	Sheep and goats:									
14	Total number.....	1	85	459	5	387	.....	8	147	.....
15	Value.....dollars..	3	288	2,333	30	1,314	.....	61	535	.....

PER CENT OF TOTAL LAND AREA IRRIGATED, AND PER CENT OF NUMBER OF FARMS IRRIGATED,
IN WASHINGTON, BY COUNTIES: 1909.

PER CENT OF TOTAL LAND AREA IRRIGATED.
[Per cent for the state, 0.8.]



PER CENT OF NUMBER OF FARMS IRRIGATED.
[Per cent for the state, 13.6.]



WASHINGTON.

FARMS AND ACREAGE IRRIGATED.

Topographically, Washington is divided by the Cascade Mountains, which extend north and south across the state, into two parts which differ widely in climatic characteristics. West of the Cascades, the normal annual precipitation is heavy, and is ample in most sections for the maturing of crops without irrigation. East of the mountains, however, the climate is arid or semiarid, and it is in this portion of the state that irrigation is most widely practiced. Irrigation was reported in 1909 from all counties except 5, but 98.6 per cent of the total acreage irrigated in that year lies east of the Cascades. The location of the irrigated lands of the state is indicated in a general way by the

accompanying maps, which show the class in which each county falls with reference to the percentage which irrigated land forms of the total land area and the percentage which irrigated farms represent of all farms.

The following table shows for the state as a whole the number of farms and the acreage irrigated in 1909, in comparison with the total number of farms, the total land area, the total land in farms, and the total acreage of improved land in farms in 1910, together with the areas not yet irrigated for which water has been or is being made available. Similar statistics for the census of 1900 are included as far as possible.

	CENSUS OF—		INCREASE.	
	1910	1900	Amount.	Per cent.
Number of all farms.....	¹ 56, 192	² 33, 202	22, 990	69. 2
Approximate land area of the state..... acres..	42, 775, 040	42, 775, 040	.....	.....
Land in farms..... acres..	¹ 11, 712, 235	² 8, 490, 297	3, 212, 938	37. 8
Improved land in farms..... acres..	¹ 6, 373, 311	² 3, 465, 960	2, 907, 351	83. 9
Number of farms irrigated.....	³ 7, 064	⁴ 3, 513	4, 151	118. 2
Acreage irrigated.....	³ 334, 378	⁴ 135, 470	198, 908	146. 8
Acreage enterprises were capable of irrigating.....	⁵ 470, 514	(⁶)	.....	.....
Acreage included in projects.....	⁵ 817, 032	(⁶)	.....	.....
Percentage irrigated of—				
Number of all farms.....	13. 6	10. 6	3. 0	.....
Approximate land area of the state.....	0. 8	0. 3	0. 5	.....
Land in farms.....	2. 9	1. 6	1. 3	.....
Improved land in farms.....	5. 2	3. 0	1. 3	.....
Excess of acreage enterprises were capable of irrigating in 1910 over acreage irrigated in 1909.....	136, 136	.....	.....	.....
Excess of acreage included in projects over acreage irrigated in 1909.....	482, 654	.....	.....	.....

¹ April 15.

² June 1.

³ In 1909.

⁴ In 1899.

⁵ July 1.

⁶ Not reported.

Number of farms irrigated.—The number of farms irrigated is made up of the number reported on the supplemental schedules by the regular enumerators, together with an estimate of the number of farms covered by enterprises which were reported by special agents but not by the regular enumerators. This estimate was based upon the average acreage irrigated per farm shown by the supplemental schedules. According to the figures presented in the table, irrigation was practiced on slightly more than one-eighth (13.6 per cent) of the farms of the state in 1909. In 1899 the proportion of irrigated farms was 10.6 per cent, while in 1889 the proportion was 5.8 per cent. It is evident that between 1889 and 1899 the number of irrigated farms in the state increased much more rapidly than the number of unirrigated farms. During that period the rate of increase in the number of irrigated farms was more than three times as great as that in the number of unirrigated farms, while during the last decade irrigated farms increased almost twice as rapidly as unirrigated farms.

Of the 38 counties in the state, only 4 report as many as half their farms irrigated, 1 other county reports as many as 40 per cent, and 5 additional counties report more than 10 per cent of their farms irrigated. There

are, however, 23 counties in which less than 10 per cent of the farms are reported as irrigated and 5 counties from which irrigation is not reported. The last-mentioned counties are all in the western part of the state, whereas the counties in which the proportion of irrigated farms exceeds 50 per cent are in the central part. In 1 county the irrigated farms form more than 85 per cent of the whole number of farms, and in 2 others more than 70 per cent, the maximum proportion of irrigated farms being 88.3 per cent in Yakima County.

From 1899 to 1909 the increase in the number of farms irrigated was 118.2 per cent for the entire state. Four counties, the boundaries of which have not been changed since the Twelfth Census, show higher rates of gain. In addition the territory comprising Douglas County in 1900 and Douglas and Grant Counties in 1910 shows an increase of 254.5 per cent, while the territory comprising Klickitat and Yakima Counties in 1900 and Benton, Klickitat, and Yakima Counties in 1910 shows an increase of 166.7 per cent. The highest percentage of increase for any county in the state is 381.3 in Clallam County, which is the only western county reporting any considerable number of irrigated farms. In no county has the number of irrigated farms decreased.

Acreage irrigated.—The acreage irrigated is taken from the special schedules filled out by agents from information secured from owners or officials of irrigation enterprises and, in some instances, from public records. The acreage thus obtained is considerably larger than the irrigated acreage reported on the supplemental schedules filled out by the farm enumerators. This difference is due in a measure to the fact that the special agents found enterprises which were not reported on any schedules returned by the enumerators, indicating that the acreage reported on the supplemental schedules is short to some extent. There is, however, a natural tendency for the officials of irrigation enterprises to report as irrigated the entire area of farms of which only a part was irrigated. Furthermore, some farms are so situated as to receive water from more than one enterprise, and may be reported as irrigated by each, which results in duplication. Owing to the two causes last enumerated, it is probable that the acreage irrigated, as shown in this bulletin, is somewhat excessive; but the extent of this excess can not be determined. It is believed, however, to be less than 10 per cent for the state of Washington.

The total acreage reported as irrigated in 1909 was 334,378, against 135,470 in 1899 and 48,799 in 1889. The percentage of increase from 1889 to 1899 was 177.6, while from 1899 to 1909 it was 146.8. The absolute increase during the latter decade was the larger, however, amounting to 198,908 acres, compared with 86,671 acres during the earlier decade.

The percentage of increase between 1899 and 1909 in the acreage irrigated was considerably higher than the percentage of increase in the number of farms irrigated, the average acreage irrigated per farm increasing from 39 in 1899 to 44 in 1909. During the same period the average size of farms in the state decreased from 256 acres to 208 acres, which change, considered in connection with the increase in the acreage irrigated per farm, indicates that farmers are irrigating larger parts of their holdings than formerly. The same tendency is shown by the increase in the percentage irrigated of the total improved farm acreage. In 1899 this proportion was 3.9 per cent and in 1909 it was 5.2 per cent.

The percentage of the total land area of the state irrigated in 1909 was 0.8, as compared with 0.3 per cent in 1899 and 0.1 per cent in 1889.

In both 1899 and 1909 the greater part of the irrigated acreage reported for the state was situated in the valley of the Yakima River. The territory comprising Klickitat and Yakima Counties in 1900, and Benton, Klickitat, and Yakima Counties in 1910, together with Kittitas County, included in the former year 77.7 per cent and in the latter year 73.5 per cent of the total land irrigated in Washington, the acreages

reported being, respectively, 105,219 and 245,640. In 1909 the irrigated area in Yakima County comprised 148,630 acres, or 44.4 per cent of the total for the state; that in Kittitas County 68,892, or 20.6 per cent; and that in Benton County 23,437, or 7 per cent. One other county, Chelan, reported an irrigated area in 1909 exceeding 20,000 acres, while three counties each had an irrigated area of between 10,000 and 20,000 acres.

In Kittitas and Yakima Counties the percentage which irrigated land formed of the total land area was the same, 4.6. In only one other county, Benton, was the proportion higher than 2 per cent, and in only three additional counties was it as high as 1 per cent.

Acreage included in projects.—The table shows that in 1910 existing enterprises were ready to supply water to 136,136 acres not irrigated in 1909. The acreage included in projects exceeds the acreage irrigated in 1909 by 482,654 acres, which is more than two and one-third times the acreage brought under irrigation in the last decade and nearly one and one-half times the total area irrigated in 1909. This acreage represents the area which will be available for the extension of irrigation in the next few years upon the completion of the projects now under construction. It indicates in a general way the area available for settlement, although much of this un-irrigated land is in farms already settled.

Acreage irrigated, classified by character of enterprise.—The following table gives the distribution of the acreage irrigated in 1909 according to the character of the enterprise controlling the irrigation works. The state of Washington has never accepted the provisions of the Carey Act, and does not contain any irrigation districts.

CHARACTER OF ENTERPRISE.	ACREAGE IRRIGATED IN 1909.	
	Amount.	Per cent distribution.
All classes.....	334,378	100.0
U. S. Reclamation Service.....	55,600	16.7
U. S. Indian Service.....	35,000	10.5
Cooperative enterprises.....	81,122	24.3
Commercial enterprises.....	66,911	20.0
Individual and partnership enterprises.....	95,655	28.6

Cooperative enterprises, as well as individual and partnership enterprises, are controlled by the water users. These two classes supplied about 53 per cent of the acreage irrigated in 1909, while United States Reclamation Service enterprises, which are to be turned over to the water users, supplied 16.7 per cent. Thus less than one-third of the irrigated land is supplied by enterprises which are not either controlled by the water users or to be turned over to them ultimately. The cooperative enterprises, which supplied water for

24.3 per cent of the land irrigated, are principally stock companies, of which the stock is owned by the water users.

Acreage irrigated, classified by source of water supply.—The following table shows the distribution of the acreage irrigated in 1909 according to the source of water supply, with corresponding percentages. From this table it is apparent that up to the present time there has been little development of any source other than streams.

SOURCE OF WATER SUPPLY.	ACREAGE IRRIGATED IN 1909.	
	Amount.	Per cent distribution.
All sources.....	334,378	100.0
Streams.....	310,420	92.8
Lakes.....	10,782	3.2
Wells.....	8,664	2.6
Springs.....	4,207	1.3
Reservoirs.....	299	0.1

IRRIGATION WORKS.

The following statement summarizes the data collected relating to works for supplying water for irrigation in 1910:

	Amount.
Independent enterprises.....number.....	1,934
Ditches, total length.....miles.....	3,892
Main ditches.....number.....	1,600
Length.....miles.....	2,594
Capacity.....cu. ft. per second.....	13,178
Lateral ditches.....number.....	1,180
Length.....miles.....	1,298
Reservoirs.....number.....	153
Capacity.....acre-feet.....	121,543
Flowing wells.....number.....	55
Capacity.....gals. per minute.....	18,920
Pumped wells.....number.....	128
Capacity.....gals. per minute.....	60,220
Pumping plants.....number.....	391
Engine capacity.....horsepower.....	13,847
Pump capacity.....gals. per minute.....	365,411

The only item for which a figure from the earlier census is available for comparison is the length of main ditches, which for systems receiving water from streams in 1899 was 806 miles. As compared with this figure, the length of main ditches reported in 1910 represents an increase of 1,788 miles, or 221.8 per cent, which, however, is somewhat higher than the actual

increase owing to the fact that the figures for 1910 cover enterprises receiving water from sources other than streams. Assuming that the enterprises in operation in 1909 were identical with those reported in 1910, the average number of acres irrigated per enterprise in 1909 was 172.9, and the acreage irrigated per mile of main ditch was 128.9. The acreage irrigated per mile of main ditch in 1899, exclusive of well systems, was 165.9.

There has been little utilization of underground water for irrigation up to this time. The table shows 55 flowing wells, which irrigated 3,227 acres in 1909; and 128 pumped wells, which irrigated 5,437 acres. Of the flowing wells, 40 are in Walla Walla and Yakima Counties, while more than half of the pumped wells are in Benton, Grant, and Spokane Counties.

Pumping for irrigation from either wells or streams has been but little practiced as yet, the total acreage supplied with pumped water in 1909 being only 20,606. Of this, 16,103 acres were reported from Benton, Grant, and Spokane Counties. The total engine capacity of the 391 pumping plants was 13,847 horsepower.

COST OF CONSTRUCTION, OPERATION, AND MAINTENANCE.

The table following shows the total cost of irrigation enterprises up to July 1, 1910, including construction of works and acquisition of rights but not operation and maintenance, with the average cost per acre, based on the acreage the enterprises were capable of irrigating in 1910; the estimated final cost of completed enterprises and those under construction, with the average cost per acre, based on the acreage included in projects; and the total cost and average cost per acre of operation and maintenance in 1909. Data relating to the cost of the systems operated in 1899 are included for comparison.

The cost of operation and maintenance is not reported for individual and partnership enterprises, for the reason that farmers whose land is irrigated by such systems generally clean their own ditches at odd times without keeping any record of the time spent. In the case of the larger enterprises this cost represents a cash outlay by the farmers, while in the case of many of the smaller cooperative enterprises the cost is worked out by the farmers.

	CENSUS OF—		INCREASE.	
	1910	1900	Amount.	Per cent.
Cost of irrigation enterprises.....	\$10,219,140	\$1,722,369	\$14,496,780	841.7
Average per acre.....	\$34.47	\$12.71	(^b)	
Estimated final cost of existing enterprises.....	\$22,322,850	(^c)		
Average per acre included in projects.....	\$27.32			
Operation and maintenance:				
Acreage for which cost is reported.....	176,107	(^d)		
Total cost reported.....	\$549,312	(^e)		
Average cost per acre.....	\$3.08	(^f)		

¹ Reported July 1, 1910. ⁵ Figures not comparable. (See explanation in text.)
² Cost of systems operated in 1899. ⁶ Not reported.
³ Based on acreage enterprises were capable of irrigating in 1910. ⁷ For 1909.
⁴ Based on acreage irrigated in 1899.

The cost of irrigation systems shows the largest increase of any item included in the census of irrigation, 841.7 per cent. The average cost per acre can not be compared for the two censuses, because the average cost per acre shown for the census of 1900 is based on the acreage irrigated in 1899 instead of the acreage

under ditch, as in 1910, the latter acreage not being reported in 1900. If computed on the basis of the acreage irrigated in 1909, the average cost in 1910 would be \$48.51, representing an increase of 281.7 per cent over the figure for the average cost at the census of 1900. The year 1899 was near the close of the period of private and cooperative construction, when most of the works were built by the water users themselves, with little or no expenditure of money, and near the beginning of the present period of large-scale construction by corporations and the Federal Government. This later construction is not only on a larger scale, but also more difficult and of a better type. Largely as a result of these influences the average cost per acre of irrigation has greatly increased. A number of large enterprises are under construction, and on these considerable expenditures have been made, while but little land is irrigated as yet. This condition tends to make the average cost shown higher than the true average. The average based on the estimated final cost and the acreage included in proj-

ects, \$27.32 per acre, probably more truly represents the average cost per acre of irrigation in Washington.

The county showing the lowest average cost per acre—\$4.29—is Clallam, which lies in the extreme western portion of the state, where the development of irrigation has been on a small scale. Of the counties east of the Cascade Mountains that are shown separately in the general table, Columbia, Ferry, Kittitas, and Klickitat show the lowest figures for cost per acre—\$5.73, \$8.78, \$9.42, and \$9.84, respectively. The highest average cost per acre—\$309.50—is reported from Asotin County, where expensive development of orchard lands has recently been undertaken.

The acreage for which cost of operation and maintenance in 1909 was reported constitutes 52.7 per cent of the total acreage reported as irrigated in 1909, and 73.8 per cent of the acreage reported as irrigated by other than individual and partnership enterprises. The cost reported can be said, therefore, to represent fairly the average annual expense for all but individual and partnership enterprises.

CROPS.

As previously stated, the data relating to irrigated crops are taken from supplemental schedules filled out by the regular census enumerators. Since the special agents found enterprises which the enumerators had not reported, it is evident that the information relating to irrigated crops is incomplete to some extent. It shows, however, the relative importance of the different irrigated crops and is sufficiently complete to give reliable averages of yields.

The table following shows the acreage, yield, and value of the principal crops reported on the supplemental irrigation schedules as grown under irrigation in 1909, in comparison with totals for the same crops reported for the entire state. While small quantities of other crops are grown, both on irrigated and unirrigated land, the leading crops of the state, as well as the leading crops grown under irrigation, are represented in the table.

CROP.	ACREAGE.			YIELD.			VALUE.	
	Total for state.	Irrigated.		Unit.	Total for state.	On irrigated land.	Total for state.	For irrigated land.
		Amount.	Per cent of total.					
Cereals:								
Corn.....	26,033	2,404	9.5	Bushels.....	563,025	87,357	\$404,307	\$35,065
Oats.....	209,742	6,090	2.5	Bushels.....	13,228,003	330,587	5,870,857	163,048
Wheat.....	2,118,015	6,720	0.3	Bushels.....	40,920,300	188,855	35,102,370	173,221
Barley.....	171,888	1,738	1.0	Bushels.....	5,834,615	40,143	3,331,930	80,474
Hay and forage:								
Timothy alone.....	88,298	17,326	19.6	Tons.....	143,461	33,642	2,168,010	530,044
Timothy and clover mixed.....	120,890	7,704	6.4	Tons.....	253,194	20,901	3,035,823	325,768
Clover alone.....	10,897	794	7.3	Tons.....	21,023	2,136	203,048	25,684
Alfalfa.....	94,090	74,496	78.5	Tons.....	357,505	200,614	3,667,901	3,150,690
Other tame or cultivated grasses ¹	29,028	1,054	3.6	Tons.....	43,143	1,025	599,016	22,325
Wild, salt, or prairie grasses.....	28,168	2,800	9.9	Tons.....	80,563	4,891	294,010	65,124
Grains cut green.....	358,543	5,340	1.5	Tons.....	409,955	9,417	0,225,515	123,354
Coarse forage.....	10,328	537	5.2	Tons.....	26,005	1,188	163,814	10,355
Sundry crops:								
Potatoes.....	57,807	9,178	15.9	Bushels.....	7,667,171	1,532,915	2,093,737	505,887
Sugar beets.....	1,820	246	13.5	Tons.....	13,794	244	85,954	1,755
Orchard fruits and grapes.....	(3)	17,378	.....	.....	.....	.....	4,325,530	1,767,183
Small fruits.....	5,508	1,232	22.4	.....	.....	.....	941,416	171,867

¹ Includes millet or Hungarian grass.

² Agricultural returns show number of trees, not acreage.

Acreage.—Of the entire acreage of the crops for which totals are presented in the table, slightly less than 5 per cent is irrigated. This is due to the fact that in a large part of the state the climate is humid and irrigation is unnecessary. The proportion irrigated, however, varies widely for the different crops.

Less than 1 per cent of the acreage in cereals in the state is irrigated. The highest percentage of acreage irrigated shown for any cereal, 9.5 per cent, is for corn, but its total acreage is small. Oats rank next, with 2.5 per cent, and barley follows with 1 per cent. Of the acreage in wheat, which covers more than 80

per cent of the total acreage in cereals, only 0.3 per cent is irrigated.

The hay and forage crops are more generally irrigated, but the percentage irrigated of the total acreage in these crops is only 14.9. Alfalfa is grown principally on irrigated land, irrigated acreage forming 78.5 per cent of the total for this crop. The only other hay and forage crop with more than 10 per cent of its acreage irrigated is timothy, for which the proportion is 19.6 per cent.

Of the acreage in potatoes, 15.9 per cent is irrigated, and of those in small fruits and sugar beets 22.4 per cent and 13.5 per cent, respectively. The relative importance of the irrigated orchard acreage can not be determined, because the total acreage of orchards in the state is not reported, but it will be observed that 40.9 per cent of the value of all orchard fruits and grapes produced in the state is that of products grown on irrigated land.

Of the crops shown in the table, alfalfa covers the largest irrigated acreage, representing 47.8 per cent of the total for the crops given. Orchard fruits and grapes are next, with 11.2 per cent of this total; timothy is next with 11.1 per cent; and potatoes follow with 5.9 per cent. No other single crop comprises as much as 5 per cent of the irrigated acreage shown.

While most of the irrigated crops are well distributed geographically, there is a tendency toward the concentration of certain crops in particular localities. This is shown by the following statement, which gives the counties having the largest acreages of the principal irrigated crops, with the proportions which they contain of the total irrigated acreages of these crops in the state. Yakima and Kittitas Counties contain about 65 per cent of the total irrigated land in the state, and, naturally, lead in the acreage of most irrigated crops.

Corn.—Yakima County, 55 per cent; Chelan, 18.8 per cent; Okanogan, 9.7 per cent.

Oats.—Kittitas County, 60.9 per cent; Yakima, 30.9 per cent; Klickitat, 3.5 per cent.

Wheat.—Yakima County, 49.1 per cent; Kittitas, 36.1 per cent; Lincoln, 5.4 per cent.

Barley.—Yakima County, 58.9 per cent; Kittitas, 30.7 per cent; Columbia, 6.3 per cent.

Timothy alone.—Kittitas County, 74.3 per cent; Yakima, 15.5 per cent; Stevens, 3.3 per cent.

Timothy and clover mixed.—Kittitas County, 60.4 per cent; Yakima, 14.7 per cent; Klickitat, 12.3 per cent.

Clover alone.—Yakima County, 35.8 per cent; Benton, 16.5 per cent; Clallam, 13.1 per cent.

Alfalfa.—Yakima County, 54.1 per cent; Kittitas, 22.4 per cent; Okanogan, 5.5 per cent.

“Wild, salt, or prairie grasses.”—Kittitas County, 63.5 per cent; Yakima, 19.4 per cent; Klickitat, 12.4 per cent.

Grains cut green.—Yakima County, 37.2 per cent; Kittitas, 18.4 per cent; Okanogan, 10.7 per cent.

Potatoes.—Yakima County, 67.1 per cent; Kittitas, 9 per cent; Benton, 6.3 per cent.

Sugar beets.—Spokane County, 81.7 per cent; Yakima, 18.3 per cent.

Orchard fruits and grapes.—Yakima County, 38.7 per cent; Chelan, 36.6 per cent; Walla Walla, 6.3 per cent.

Small fruits.—Yakima County, 30.8 per cent; Benton, 23.7 per cent; Walla Walla, 8.1 per cent.

Of the irrigated acreage of orchards not bearing in 1909, amounting to 30,505 acres, 47.4 per cent was in Yakima County, 17.8 per cent in Chelan County, and 14.1 per cent in Benton County.

Yield.—In the following table the average yields per acre of crops extensively grown, both with and without irrigation, are shown. The yields on unirrigated land are obtained by subtracting the totals for irrigated crops from the totals for the state.

CROP.	AVERAGE YIELD PER ACRE.		
	On unirrigated land.	On irrigated land.	
		Amount.	Per cent of excess over yield on unirrigated land. ¹
Corn.....bushels..	20.2	35.5	75.7
Oats.....bushels..	40.0	49.4	0.8
Wheat.....bushels..	10.3	28.1	45.7
Barley.....bushels..	34.0	28.3	-15.8
Timothy alone.....tons..	1.55	1.94	25.2
Timothy and clover mixed.....tons..	2.05	2.72	32.7
Clover alone.....tons..	1.90	2.60	37.2
Alfalfa.....tons..	2.60	3.98	53.1
Wild, salt, or prairie grasses.....tons..	1.01	1.75	73.3
Grains cut green.....tons..	1.30	1.70	26.6
Potatoes.....bushels..	125.0	167.0	32.0

¹ A minus sign (—) indicates that the yield on irrigated land is less than that on unirrigated land.

All the crops given in the table except barley show greater yields per acre in 1909 on irrigated land than on unirrigated land, and the excess shown in the average yield on irrigated land is more than 25 per cent for all except oats. The difference is greatest in the average production of corn, which, however, covers only a small acreage. In the case of alfalfa, which comprises nearly one-half of the total irrigated acreage, the yield on irrigated land is 33.1 per cent greater than that on unirrigated land. For timothy, the crop next in importance with respect to irrigated acreage of those for which comparisons are possible, an excess of 25.2 per cent is shown in the yield under irrigation.

In considering these comparisons it should be borne in mind that they are not comparisons of yields on irrigated and on unirrigated land in the same localities, but of yields under irrigation in localities where crops can not be grown to advantage without it with yields in localities where irrigation is not necessary. They do not indicate, therefore, the relative advantages of farming with and without irrigation in a given community, but rather give one factor for determining the relative advantages of farming where irrigation is necessary and where it is not necessary for the successful growing of crops.

COUNTY TABLE.

The next table gives in detail, by counties, the data summarized above, except those relating to crops. For purposes of comparison the total number of farms in the state, the approximate land area of the state, the total land in farms, and the improved land in farms have been included in the table.

Five counties—Cowlitz, Pacific, San Juan, Snohomish, and Wahkiakum—did not report any irrigation in 1909, but as regards the items just mentioned the figures for these counties are included in the state totals and also in the totals shown under the head of "all other counties," in the last column of the table. The group of "all other counties" comprises for 1909 and 1910 all but one of the counties west of the Cascades, including in addition to the five counties named thirteen in which there was some irrigation, namely, Chehalis, Clarke, Island, Jefferson, King, Kitsap, Lewis, Mason, Pierce, Skagit, Skamania, Thurston, and Whatcom. In this section of the state, as already explained, irrigation is comparatively unimportant. The counties represented under the head of "all other counties" for 1899 in the Twelfth Census report were not named, but were practically all in the western part of the state.

In the tables in the Twelfth Census report showing the number of farms and acreage irrigated in 1899 the group designated "all other counties" included Frank-

lin County, but not Clallam and King Counties, while in the table showing length of main ditches in 1899 and cost of systems operated in 1899 it included Clallam and King Counties, but not Franklin. In the present bulletin figures for farms and acreage irrigated in King County have been added to the totals shown under the head of "all other counties" for 1900, but for all the other items the figures are the same as were shown under this head in the 1900 report. The figure for average cost per acre irrigated in 1899 is based on the acreage irrigated from streams in the counties for which the cost in 1899 is included under the head of "all other counties."

Certain enterprises extend into more than one county, and in the case of some of these enterprises the reports do not segregate the data by counties. In such cases a distribution has been made according to the best estimates possible from all the information in the possession of the bureau. It is believed that these estimates are approximately correct.

Change of boundaries.—In comparing the data secured in 1910 with those for 1900, the following changes in county boundaries should be considered: Benton County was organized from parts of Klickitat and Yakima Counties in 1905, and Grant County was organized from a part of Douglas County in 1909.

IRRIGATION—WASHINGTON.

ACREAGE IRRIGATED, EXTENT AND COST OF IRRIGATION ENTERPRISES, AND COST OF OPERATION AND MAINTENANCE, BY COUNTIES: 1909 AND 1910.

[Comparative data for 1899 in italics.]

		THE STATE.	Adams.	Asotin.	Benton.	Chelan.	Clallam.	Columbia.
1	Number of all farms in 1910.....	59,192	1,293	555	1,230	1,061	607	703
2	Number of farms irrigated in 1909.....	7,664	20	238	708	1,189	77	56
3	Per cent of all farms.....	13.0	1.6	42.9	62.0	71.6	12.7	8.0
4	Number of farms irrigated in 1899.....	3,515	1 ²	222	(¹)	309	16	25
5	Per cent of increase, 1899-1909.....	118.2	66.7	7.2	.....	284.8	381.3	124.0
LAND AND FARM AREA								
6	Approximate land area..... acres.....	42,775,040	1,223,080	387,840	1,069,440	1,850,000	1,104,040	549,120
7	Land in farms..... acres.....	11,712,235	979,455	189,987	260,044	162,013	62,248	314,557
8	Improved land in farms..... acres.....	6,373,311	747,778	79,205	180,397	42,261	10,708	180,562
9	Acres irrigated in 1909.....	334,378	1,523	3,170	23,437	23,020	4,205	2,174
10	Per cent of total land area.....	0.8	0.1	0.8	2.2	1.3	0.4	0.4
11	Per cent of land in farms.....	2.9	0.2	1.7	0.0	15.5	6.9	0.7
12	Per cent of improved land in farms.....	5.2	0.2	4.0	12.6	55.9	25.5	1.2
13	Acres irrigated in 1899.....	155,470	423	1,098	(¹)	6,406	187	440
14	Per cent of increase, 1899-1909.....	140.8	200.0	87.2	.....	208.7	3,258.3	304.1
15	Acres enterprises were capable of irrigating in 1910.....	470,514	1,655	5,373	50,653	27,070	4,405	2,797
16	Acres included in projects.....	817,032	5,123	9,844	87,384	53,497	9,975	3,922
ACREAGE IRRIGATED AND INCLUDED IN PROJECTS								
CLASSIFIED BY CHARACTER OF ENTERPRISE.								
17	U. S. Reclamation Service, irrigated in 1909.....	55,699	.....	.....	5,777	.....	.....	.....
18	Enterprises were capable of irrigating in 1910.....	74,500	.....	.....	6,111	.....	.....	.....
19	Included in projects.....	143,098	.....	.....	10,955	.....	.....	.....
20	U. S. Indian Service, irrigated in 1909.....	35,000	.....	.....	.....	.....	.....	.....
21	Enterprises were capable of irrigating in 1910.....	50,000	.....	.....	.....	.....	.....	.....
22	Included in projects.....	100,000	.....	.....	.....	.....	.....	.....
23	Carey Act enterprises, irrigated in 1909.....	.....	.....	.....	.....	.....	.....	.....
24	Enterprises were capable of irrigating in 1910.....	.....	.....	.....	.....	.....	.....	.....
25	Included in projects.....	.....	.....	.....	.....	.....	.....	.....
26	Irrigation districts, irrigated in 1909.....	.....	.....	.....	.....	.....	.....	.....
27	Enterprises were capable of irrigating in 1910.....	.....	.....	.....	.....	.....	.....	.....
28	Included in projects.....	.....	.....	.....	.....	.....	.....	.....
29	Cooperative enterprises, irrigated in 1909.....	81,122	.....	400	152	5,830	4,100	165
30	Enterprises were capable of irrigating in 1910.....	90,805	.....	400	152	6,255	4,200	200
31	Included in projects.....	115,410	.....	700	312	7,170	6,600	200
32	Commercial enterprises, irrigated in 1909.....	60,911	1,000	2,125	10,180	10,226	.....	.....
33	Enterprises were capable of irrigating in 1910.....	138,064	1,000	4,300	41,974	11,930	.....	.....
34	Included in projects.....	269,210	4,000	8,300	72,204	31,200	.....	.....
35	Individual and partnership enterprises, irrigated in 1909.....	95,655	623	654	1,328	7,504	165	2,009
36	Enterprises were capable of irrigating in 1910.....	117,145	655	673	2,410	9,794	205	2,597
37	Included in projects.....	192,310	1,123	844	3,853	15,067	375	3,632
ACREAGE IRRIGATED								
CLASSIFIED BY SOURCE OF WATER SUPPLY.								
38	Supplied from streams.....	310,426	1,400	3,140	22,018	22,793	4,175	2,083
39	By gravity.....	301,341	1,370	3,147	17,780	22,320	4,175	2,072
40	By pumping.....	9,085	30	2	4,840	404	.....	11
41	Supplied from lakes.....	10,782	10	.....	.....	47	.....	.....
42	By gravity.....	4,698	.....	.....	.....	.....	.....	.....
43	By pumping.....	6,084	10	.....	.....	47	.....	.....
44	Supplied from wells.....	8,604	93	.....	807	94	.....	.....
45	Flowing.....	3,227	.....	.....	171	24	.....	.....
46	By pumping.....	5,437	93	.....	636	70	.....	.....
47	Supplied from springs.....	4,207	11	30	12	678	90	61
48	Supplied from reservoirs.....	299	.....	.....	.....	8	.....	.....
49	Total acreage supplied by pumping.....	20,606	133	2	5,485	581	.....	11
IRRIGATION ENTERPRISES								
50	Independent enterprises..... number.....	1,934	19	23	74	290	7	42
51	Number in 1899.....	.....	.....	.....	.....	.....	.....	.....
52	Per cent of increase, 1899-1910.....	.....	.....	.....	.....	.....	.....	.....
53	Main ditches..... number.....	1,600	12	18	50	227	7	43
54	Number in 1899.....	.....	.....	.....	.....	.....	.....	.....
55	Per cent of increase, 1899-1910.....	.....	.....	.....	.....	.....	.....	.....
56	Length..... miles.....	2,594	24	40	130	357	17	30
57	Length in 1899..... miles.....	2,809	4	25	(¹)	172	(⁴)	7
58	Per cent of increase, 1899-1910.....	221.8	500.0	73.0	.....	218.8	.....	414.3
59	Capacity..... cubic feet per second.....	13,178	185	76	1,099	1,210	281	211
60	Laterals..... number.....	1,180	8	10	70	132	10	30
61	Length..... miles.....	1,298	7	64	119	122	19	4
62	Reservoirs..... number.....	156	1	3	2	36	.....	.....
63	Capacity..... acre-feet.....	121,543	10,000	1,160	(⁵)	12,748	.....	.....
64	Flowing wells..... number.....	55	.....	.....	4	.....	.....	.....
65	Capacity..... gallons per minute.....	18,026	.....	.....	1,290	.....	.....	.....
66	Pumped wells..... number.....	128	5	.....	31	8	.....	1
67	Capacity..... gallons per minute.....	60,229	1,873	.....	10,158	504	.....	1,500
68	Pumping plants..... number.....	391	8	1	84	54	.....	3
69	Engine capacity..... horsepower.....	13,847	133	2	5,894	2,024	.....	520
70	Pump capacity..... gallons per minute.....	365,411	3,223	42	147,059	14,777	.....	1,020
COST								
71	Cost of enterprises up to July 1, 1910..... dollars.....	10,210,149	171,940	1,662,958	3,211,493	889,152	18,900	10,027
72	Cost in 1899..... dollars.....	1,722,569	7,295	82,089	(¹)	84,852	(¹)	1,093
73	Per cent of increase, 1899-1910.....	841.7	13,195.2	1,925.8	.....	955.3	.....	860.9
74	Average cost per acre enterprises were capable of irrigating in 1910..... dollars.....	34.47	103.89	309.50	63.40	31.78	4.29	5.73
75	Average cost per acre irrigated in 1899..... dollars.....	2.71	5.09	48.34	(¹)	13.16	.....	5.79
76	Estimated final cost of existing enterprises..... dollars.....	22,322,850	171,946	1,662,958	3,566,877	1,340,835	18,900	10,027
77	Average per acre included in projects..... dollars.....	27.32	33.56	168.93	40.81	25.60	1.89	4.00
OPERATION AND MAINTENANCE								
78	Acres for which cost is reported.....	176,197	1,000	2,525	17,714	8,750	4,100	185
79	Total cost reported..... dollars.....	543,312	2,000	92,216	274,253	14,702	1,000	400
80	Average per acre for which cost is reported..... dollars.....	3.08	2.00	36.52	15.48	1.68	0.24	2.42
81	Average cost per acre in 1899.....	.....	.....	.....	.....	.....	.....	.....
82	Per cent of increase, 1899-1909.....	.....	.....	.....	.....	.....	.....	.....

¹ Change of boundary. (See explanation at close of text.)

² Not reported.

³ Figures relate only to systems obtaining water from streams.

⁴ Not shown separately.

⁵ Less than 1 acre-foot.

⁶ State total includes \$43,050 representing cost of well systems not distributed by counties, and also \$197,000 reported for Spokane and Yakima Indian Reservations, not segregated, while county figures relate only to systems obtaining water from streams.

IRRIGATION—WASHINGTON.

ACREAGE IRRIGATED, EXTENT AND COST OF IRRIGATION ENTERPRISES, AND

[Comparative data for 1899 in italics.]

	Douglas. ¹	Ferry.	Franklin.	Garfield.	Grant.	Kittitas.	Klickitat. ¹	Lincoln.
1 Number of all farms in 1910.....	1,730	500	620	604	1,607	871	1,641	2,139
2 Number of farms irrigated in 1909.....	140	20	21	54	40	639	169	77
3 Per cent of all farms.....	8.4	3.4	3.4	10.7	3.0	73.4	10.3	3.6
4 <i>Number of farms irrigated in 1899.....</i>	<i>55</i>	<i>10</i>	<i>(?)</i>	<i>25</i>	<i>(1)</i>	<i>549</i>	<i>181</i>	<i>54</i>
5 Per cent of increase, 1899-1909.....		25.0		116.0		16.4		42.6
LAND AND FARM AREA								
6 Approximate land area..... acres..	1,143,690	1,420,800	771,840	444,160	1,740,800	1,490,560	1,108,000	1,473,280
7 Land in farms..... acres..	711,831	101,050	387,832	314,600	647,909	242,605	530,291	1,206,010
8 Improved land in farms..... acres..	472,025	20,037	273,241	155,631	444,622	78,939	181,581	709,380
9 Acreage irrigated in 1909.....	3,317	307	3,830	1,310	3,230	68,892	4,681	2,217
10 Per cent of total land area.....	0.3	(?)	0.1	0.3	0.2	4.6	0.4	0.2
11 Per cent of land in farms.....	0.5	0.4	0.2	0.4	0.5	26.2	0.9	0.2
12 Per cent of improved land in farms.....	0.7	2.0	0.3	0.8	0.7	87.3	2.6	0.3
13 <i>Acreage irrigated in 1899.....</i>	<i>2,027</i>	<i>625</i>	<i>(?)</i>	<i>328</i>	<i>(1)</i>	<i>47,373</i>	<i>1,235</i>	<i>1,060</i>
14 Per cent of increase, 1899-1909.....	8.305	4.258	1.276	1.728	8.501	72.348	7.461	2.404
15 Acreage enterprises were capable of irrigating in 1910.....	12,826	5,271	2,113	2,283	14,450	92,940	18,590	2,635
16 Acreage included in projects.....								
ACREAGE IRRIGATED AND INCLUDED IN PROJECTS								
<i>CLASSIFIED BY CHARACTER OF ENTERPRISE.</i>								
17 U. S. Reclamation Service, irrigated in 1909.....								
18 Enterprises were capable of irrigating in 1910.....								
19 Included in projects.....								
20 U. S. Indian Service, irrigated in 1909.....								
21 Enterprises were capable of irrigating in 1910.....								
22 Included in projects.....								
23 Carey Act enterprises, irrigated in 1909.....								
24 Enterprises were capable of irrigating in 1910.....								
25 Included in projects.....								
26 Irrigation districts, irrigated in 1909.....								
27 Enterprises were capable of irrigating in 1910.....								
28 Included in projects.....								
29 Cooperative enterprises, irrigated in 1909.....						29,730	700	334
30 Enterprises were capable of irrigating in 1910.....	610					30,035	1,625	594
31 Included in projects.....	760					31,140	4,300	474
32 Commercial enterprises, irrigated in 1909.....	1,820				1,400	9,200	207	
33 Enterprises were capable of irrigating in 1910.....	5,495	9,500	55		5,400	10,200	685	
34 Included in projects.....	9,076	4,200	350		5,500	15,200	3,500	
35 Individual and partnership enterprises, irrigated in 1909.....	1,407	397	830	1,310	1,830	29,962	3,714	1,853
36 Enterprises were capable of irrigating in 1910.....	2,200	758	1,221	1,728	3,101	32,113	5,151	2,010
37 Included in projects.....	3,001	1,071	1,763	2,283	8,890	46,000	10,730	2,461
ACREAGE IRRIGATED								
<i>CLASSIFIED BY SOURCE OF WATER SUPPLY.</i>								
38 Supplied from streams.....	2,009	372	747	1,183	1,205	68,084	4,174	2,106
39 By gravity.....	2,241	372		1,058	735	67,729	4,120	1,080
40 By pumping.....	458		747	125	470	355	48	180
41 Supplied from lakes.....					1,325		40	
42 By gravity.....					65		40	
43 By pumping.....					1,260			
44 Supplied from wells.....	26	13	53		447		39	51
45 Flowing.....	6				3		10	
46 By pumping.....	20	13	53		444		29	51
47 Supplied from springs.....	592		30	133	133	808	428	
48 Supplied from reservoirs.....		12			120			
49 Total acreage supplied by pumping.....	478	13	800	125	2,174	355	77	231
IRRIGATION ENTERPRISES								
50 Independent enterprises..... number..	45	20	21	47	43	257	115	48
51 <i>Number in 1899.....</i>								
52 Per cent of increase, 1899-1910.....								
53 Main ditches..... number..	33	20	8	42	23	206	87	41
54 <i>Number in 1899.....</i>								
55 Per cent of increase, 1899-1910.....								
56 Length of main ditches..... miles..	31	24	7	41	41	387	108	31
57 <i>Length in 1899.....</i>	<i>22</i>	<i>8</i>	<i>1</i>	<i>5</i>	<i>(1)</i>	<i>118</i>	<i>16</i>	<i>0</i>
58 Per cent of increase, 1899-1910.....		200.0	600.0	1,206.7		228.0		244.4
59 Capacity..... cubic feet per second..	49	120	44	120	87	1,530	596	62
60 Laterals..... number..	26	4		5	22	143	65	24
61 Length..... miles..	8	1		1	17	50	23	8
62 Reservoirs..... number..	4	1		2	10	3	11	3
63 Capacity..... acre-feet..	39	700		1	84	35,000	12	(?)
64 Flowing wells..... number..	2				2		1	
65 Capacity..... gallons per minute..	25	1		7	14		14	
66 Pumped wells..... number..	1	1	5		14		12	5
67 Capacity..... gallons per minute..	856	13	1,845		2,000		278	450
68 Pumping plants..... number..	18	2	22	5	23	3	19	8
69 Engine capacity..... horsepower..	406	12	208	90	417	207	45	184
70 Pump capacity..... gallons per minute..	12,713	278	12,335	2,600	23,785	11,700	910	3,170
COST								
71 Cost of enterprises up to July 1, 1910..... dollars..	488,941	37,406	30,561	23,503	160,510	681,168	73,434	28,434
72 <i>Cost in 1899.....</i>	<i>15,740</i>	<i>1,707</i>	<i>210</i>	<i>893</i>	<i>(1)</i>	<i>119,700</i>	<i>4,232</i>	<i>1,293</i>
73 Per cent of increase, 1899-1910.....		2,091.3	17,310.0	2,630.3		460.0		2,000.0
74 Average cost per acre enterprises were capable of irrigating in 1910..... dollars..	58.45	8.78	28.85	13.60	10.59	9.42	9.84	11.83
75 <i>Average cost per acre irrigated in 1899.....</i>	<i>7.19</i>	<i>2.73</i>	<i>0.73</i>	<i>3.24</i>	<i>(1)</i>	<i>6.53</i>	<i>5.55</i>	<i>1.21</i>
76 Estimated final cost of existing enterprises..... dollars..	488,941	37,406	30,561	23,503	160,510	681,168	80,434	28,434
77 Average cost per acre included in projects..... dollars..	38.12	7.10	17.30	10.29	13.25	7.33	4.81	9.09
OPERATION AND MAINTENANCE								
78 Acreage for which cost is reported.....	320				400	38,730	310	334
79 Total cost reported..... dollars..	1,550				1,405	28,660	25	515
80 Average per acre for which cost is reported..... dollars..	4.84				3.66	0.74	0.08	1.59
81 <i>Average cost per acre in 1899.....</i>								
82 Per cent of increase, 1899-1909.....								

¹ Change of boundary. (See explanation at close of text.)

² Not shown separately.

¹ Less than one-tenth of 1 per cent.

IRRIGATION—WASHINGTON.

863

COST OF OPERATION AND MAINTENANCE, BY COUNTIES: 1909 AND 1910—Continued.

[Comparative data for 1899 in italics.]

		Okanogan.	Spokane.	Stevens.	Walla Walla.	Whitman.	Yakima. ¹	All other counties.
1	Number of all farms in 1910.....							
2	Number of farms irrigated in 1909.....	2,173	8,947	3,196	1,383	3,096	3,341	23,326
3	Per cent of all farms.....	397	287	120	273	40	2,951	61
4	Number of farms irrigated in 1899.....	18.3	7.3	3.9	10.7	1.5	88.3	0.8
5	Per cent of increase, 1899-1909.....	261	74	104	281	44	1,307	68
	Per cent of increase, 1899-1909.....	58.2	287.8	21.2	18.2	4.5		
LAND AND FARM AREA								
6	Approximate land area..... acres.....	3,341,440	1,123,840	2,474,240	809,000	1,340,120	3,237,760	14,595,200
7	Land in farms..... acres.....	379,760	682,330	521,259	739,699	1,187,968	320,921	1,755,263
8	Improved land in farms..... acres.....	122,386	361,968	116,872	479,660	923,820	170,410	513,288
9	Area irrigated in 1909.....	15,238	12,143	3,510	10,008	1,877	148,630	394
10	Per cent of total land area.....	0.5	1.1	0.1	1.2	0.1	4.6	(²)
11	Per cent of land in farms.....	4.0	1.8	0.7	1.4	0.1	46.3	(²)
12	Per cent of improved land in farms.....	12.5	3.4	3.0	2.1	0.1	84.3	0.1
13	Area irrigated in 1899.....	6,377	858	1,020	6,100	869	60,611	584
14	Per cent of increase, 1899-1909.....	139.0	1,315.3	82.2	64.1	59.6		
15	Average enterprises were capable of irrigating in 1910.....	31,670	17,140	13,235	20,954	1,705	186,050	557
16	Average included in projects.....	53,012	52,330	15,510	39,622	3,057	331,455	887
ACREAGE IRRIGATED AND INCLUDED IN PROJECTS								
CLASSIFIED BY CHARACTER OF ENTERPRISE.								
17	U. S. Reclamation Service, irrigated in 1909.....	3,690					46,223	
18	Enterprises were capable of irrigating in 1910.....	9,500					58,889	
19	Included in projects.....	10,000					122,141	
20	U. S. Indian Service, irrigated in 1909.....						35,000	
21	Enterprises were capable of irrigating in 1910.....						50,000	
22	Included in projects.....						100,000	
23	Carey Act enterprises, irrigated in 1909.....							
24	Enterprises were capable of irrigating in 1910.....							
25	Included in projects.....							
26	Irrigation districts, irrigated in 1909.....							
27	Enterprises were capable of irrigating in 1910.....							
28	Included in projects.....							
29	Cooperative enterprises, irrigated in 1909.....	1,015	400	200	000		37,436	
30	Enterprises were capable of irrigating in 1910.....	1,705	450	300	870		43,609	
31	Included in projects.....	4,571	640	500	908		54,055	
32	Commercial enterprises, irrigated in 1909.....	1,043	11,120	230	4,660		6,800	
33	Enterprises were capable of irrigating in 1910.....	7,400	15,605	8,410	14,150		7,900	
34	Included in projects.....	14,890	40,647	8,760	30,150		9,000	
35	Individual and partnership enterprises, irrigated in 1909.....	8,590	623	3,030	4,748	1,377	23,171	394
36	Enterprises were capable of irrigating in 1910.....	13,005	1,085	4,525	5,934	1,705	25,652	557
37	Included in projects.....	23,551	2,043	6,250	8,564	3,057	46,259	887
ACREAGE IRRIGATED								
CLASSIFIED BY SOURCE OF WATER SUPPLY.								
38	Supplied from streams.....	12,834	1,166	3,102	8,077	1,199	146,876	315
39	By gravity.....	12,478	1,112	3,080	7,800	1,074	146,442	237
40	By pumping.....	356	54	22	277	125	434	78
41	Supplied from lakes.....	2,044	7,274	40				2
42	By gravity.....	2,020	2,524	40				
43	By pumping.....	15	4,750					2
44	Supplied from wells.....		3,042		1,532		1,547	20
45	Flowing.....		2		1,720		1,282	3
46	By pumping.....		3,040		100		265	17
47	Supplied from springs.....	201	61	368	99	178	207	57
48	Supplied from reservoirs.....	150						
49	Total acreage supplied by pumping.....	371	8,444	22	383	125	699	97
IRRIGATION ENTERPRISES								
50	Independent enterprises..... number.....	255	55	61	136	36	280	61
51	Number in 1899.....							
52	Per cent of increase, 1899-1910.....		50	61	100	86	242	26
53	Main ditches..... number.....	298						
54	Number in 1899.....							
55	Per cent of increase, 1899-1910.....							
56	Length of main ditches..... miles.....	321	124	133	140	80	664	8
57	Length in 1899.....	70	10	27	53	15	318	4
58	Per cent of increase, 1899-1910.....	322.4	1,140.0	362.6	324.2	100.0		
59	Capacity..... cubic feet per second.....	1,845	625	374	613	68	3,615	20
60	Laterals..... number.....	171	44	78	68	14	247	
61	Length..... miles.....	96	93	10	105	4	546	
62	Reservoirs..... number.....	88	18	3	10	2	2	7
63	Capacity..... acre-feet.....	25,727	1,536	20	4	11	34,500	1
64	Flowing wells..... number.....		5		13		27	1
65	Capacity..... gallons per minute.....		1		12,502		5,009	18
66	Pumped wells..... number.....	2	30		1		9	3
67	Capacity..... gallons per minute.....	185	33,929		4,500		1,382	84
68	Pumping plants..... number.....	25	32	2	36	6	18	19
69	Engine capacity..... horsepower.....	200	1,633	23	1,162	63	270	37
70	Pump capacity..... gallons per minute.....	9,983	42,046	275	62,087	2,179	11,812	1,248
COST								
71	Cost of enterprises up to July 1, 1910..... dollars.....	1,110,447	946,307	244,406	1,166,120	53,720	159,024	23,632
72	Cost in 1899.....	59,474	41,850	7,664	25,073	8,855	1,046,000	1,500
73	Per cent of increase, 1899-1910.....	2,069.2	2,161.2	3,132.0	4,654.0	506.7		
74	Average cost per acre enterprises were capable of irrigating in 1910..... dollars.....	35.35	55.21	18.47	55.65	31.51	27.73	42.43
75	Average cost per acre irrigated in 1899.....	5.73	0.37	0.38	3.37	11.68	22.50	5.78
76	Estimated final cost of existing enterprises..... dollars.....	1,229,118	946,307	244,406	1,393,370	53,720	10,078,743	23,632
77	Average cost per acre included in projects..... dollars.....	23.19	18.08	15.70	35.17	17.57	30.41	26.64
OPERATION AND MAINTENANCE								
78	Acreage for which cost is reported.....	0,228	8,420	200	350		86,645	
79	Total cost reported..... dollars.....	8,495	20,252	300	442		88,037	
80	Average per acre for which cost is reported..... dollars.....	1.36	3.47	1.50	1.26		1.02	
81	Average cost per acre in 1899.....							
82	Per cent of increase, 1899-1909.....							

¹ Decrease.

² Not reported.

³ Figures relate only to systems obtaining water from streams.

⁴ Less than 1 acre-foot.