

OTHER STATES.

The following pages present the statistics of drainage collected at the census of 1920 for those states not covered by the foregoing sections for separate states. Statistics for drainage on farms were collected by the census enumerators in all the states. Figures for organized drainage enterprises are given here for Arizona, Nevada, New Mexico, Oklahoma, and Oregon. The totals for these five states together are given in Tables 1 to 12 following, classified as the totals for individual states have been classified in the foregoing pages. Because no operating enterprises of a public nature for draining land for agriculture were found in Alabama, Virginia, and West

Virginia, those states have been omitted entirely from the census of drainage enterprises, except that the character of the public drainage enterprises authorized by law is stated on page 710. Before the census was begun, it was determined that very little drainage of land for agriculture had been undertaken by organized enterprises in most of the northeastern states, and that concerning the work which had been done sufficient information could not be secured to be of value for census purposes. Therefore, no attempt was made to canvass drainage enterprises in the region from Maine to and including Pennsylvania, Maryland, and Delaware.

TABLE 1.—SUMMARY FOR THESE STATES: 1920.

ITEM.	Amount.	Per cent of total.
DRAINAGE ON FARMS.		
Number of all farms in the states included ¹	1, 454, 769	100. 0
Farms reporting land having drainage.....	124, 195	8. 5
Farms reporting land needing drainage.....	190, 181	13. 1
All land in farms.....acres..	189, 042, 653	100. 0
Improved land in farms.....acres..	87, 408, 893	46. 2
Farm land reported as provided with drainage.....acres..	3, 357, 899	1. 8
Farm land reported as needing drainage.....acres..	6, 045, 287	3. 2
Needing drainage only.....acres..	1, 085, 224	0. 6
Needing drainage and clearing.....acres..	4, 960, 063	2. 6
DRAINAGE ENTERPRISES.		
Approximate land area of the states included ².....acres..	327, 139, 200	100. 0
All land in operating drainage enterprises.....acres..	211, 949	0. 1
Improved land.....acres..	150, 172	(3)
Per cent of all improved land in farms.....	0. 2	-----
Timber and cut-over land.....acres..	3, 305	(3)
Other unimproved land.....acres..	58, 472	(3)
Swampy, subject to overflow, seeped, or alkali.....acres..	30, 243	(3)
Suffering a loss of crops from defective drainage.....acres..	35, 581	(3)
Improved land prior to drainage.....acres..	111, 942	(3)
Increase since drainage began.....acres..	38, 230	(3)
Land in nonoperating enterprises.....acres..	32, 345	(3)
Open ditches in operating enterprises.....miles..	193. 4	100. 0
Completed.....miles..	191. 8	99. 2
Additional under construction.....miles..	1. 6	0. 8
Tile drains in operating enterprises.....miles..	365. 3	100. 0
Completed.....miles..	300. 2	82. 2
Additional under construction.....miles..	65. 1	17. 8
Total capital invested in and required for completion of operating enterprises..	\$4, 327, 987	100. 0
Capital invested in these enterprises to December 31, 1919.....	2, 519, 487	58. 2
Additional capital required to complete these enterprises.....	1, 808, 500	41. 8
Average cost per acre when completed.....	20. 42	-----

¹ Comprises Alabama, Arizona, Connecticut, Delaware, District of Columbia, Maine, Maryland, Massachusetts, Nevada, New Hampshire, New Jersey, New Mexico, New York, Oklahoma, Oregon, Pennsylvania, Rhode Island, Vermont, Virginia, and West Virginia.

² Comprises Arizona, Nevada, New Mexico, Oklahoma, and Oregon.

³ Less than one-tenth of 1 per cent.

Operating and nonoperating enterprises.—In Nevada and Oregon the drainage enterprises have completed construction of the drainage works, while in Arizona, New Mexico, and Oklahoma are enterprises that have completed the works authorized and others with works under construction. Nonoperating enterprises were reported only in Arizona.

TABLE 2.—LAND AND CAPITAL INVESTED IN ALL ENTERPRISES, CLASSIFIED AS BETWEEN OPERATING AND NONOPERATING ENTERPRISES: 1920.

CLASS.	LAND.		CAPITAL. ¹		
	Acreage.	Per cent of total.	To Dec. 31, 1919.		Additional required to complete.
			Amount.	Per cent of total.	
All organized enterprises.....	244,294	100.0	\$2,519,987	100.0	\$2,493,500
Operating enterprises.....	211,949	86.8	2,519,487	100.0	1,808,500
With works completed.....	61,499	25.2	857,430	34.0	1,808,500
With works under construction.....	150,450	61.6	1,662,057	66.0	
Nonoperating enterprises.....	32,345	13.2	500	(²)	685,000

¹ The inquiry asked for "the total cost of the enterprise to Dec. 31, 1919," and for an "estimate of additional investment to complete."

² Less than one-tenth of 1 per cent.

Location of enterprises.—The operating drainage enterprises for which statistics are given in the following pages are located in Graham, Maricopa, and Yuma Counties, Ariz.; in Churchill County, Nev.; in Chaves, Dona Ana, and Eddy Counties, N. Mex.; in Canadian, Kay, Johnston, and Muskogee Counties, Okla.; and in Malheur County, Oreg. The locations are indicated approximately on the map following page 346. The nonoperating enterprises are located in Maricopa and Sierra Counties, Ariz.

TABLE 3.—LAND AND CAPITAL INVESTED IN ALL ENTERPRISES, CLASSIFIED BY DRAINAGE BASIN: 1920.

DRAINAGE BASIN.	LAND.		CAPITAL.		
	Acreage.	Per cent of total.	To Dec. 31, 1919.		Additional required to complete.
			Amount.	Per cent of total.	
All organized enterprises.....	244,294	100.0	\$2,519,987	100.0	\$2,493,500
Operating enterprises.....	211,949	86.8	2,519,487	100.0	1,808,500
Snake River.....	4,000	1.6	200,000	7.9	
Gila River.....	9,640	3.9	101,425	4.0	
Colorado River.....	30,000	12.3	313,000	12.4	612,000
Great Basin.....	15,940	6.5	117,851	4.7	
Pecos River.....	66,219	27.1	1,135,796	45.1	195,500
Rio Grande.....	74,000	30.3	575,000	22.8	1,000,000
Red River.....	6,000	2.5	44,500	1.8	
Canadian River.....	2,900	1.2	4,250	0.2	1,000
Arkansas River.....	3,250	1.3	27,665	1.1	
Nonoperating enterprises.....	32,345	13.2	500	(¹)	685,000
Gila River.....	25,345	10.4	500	(¹)	535,000
Rio Grande.....	7,000	2.9			150,000

¹ Less than one-tenth of 1 per cent.

Condition of land in enterprises.—The enterprises in Oklahoma were reported as organized to drain land subject to overflow from streams after storm periods, while all the enterprises in the other states were established for draining or protecting land injured or threatened by seepage or the accumulation of alkali in the surface soil as a result of irrigation.

In Arizona, Nevada, and New Mexico, 100,329 acres in projects of the United States Reclamation Service were reported as not to have needed drainage or protection, but to have been assessed for drainage merely on account of being responsible for injury to the other land. This acreage is not included in the statistics given for drainage enterprises.

The usual purpose of an organized enterprise is merely to provide adequate outlets into which the landowners of the district may drain their farms and to afford relief from overflow for the district as a unit. Therefore the fact that an enterprise which has completed the construction of the drainage works authorized contains land still swampy or subject to overflow, or land that suffers damage to crops, does not show that the improvement works are inadequate.

TABLE 4.—LAND IN ALL ENTERPRISES, CLASSIFIED BY CONDITION: 1920.

CONDITION OF LAND.	OPERATING ENTERPRISES.				Non-operating enterprises (acres).
	Total.		Works completed (acres).	Works under construction (acres).	
	Acreage.	Per cent of all land.			
All land in enterprises.....	211,949	100.0	61,499	150,450	32,345
Improved land.....	150,172	70.9	47,730	102,442	24,026
Timber and cut-over land.....	3,305	1.6	3,025	280	
Other unimproved land.....	58,472	27.6	10,744	47,728	8,319
Swampy, subject to overflow, seeped, or alkali.....	30,243	14.3	8,571	21,672	1,069
Suffering a loss of crops.....	35,531	16.8	10,261	25,270	2,224

Size of enterprises.—Presentation of the statistics by counties requires that an enterprise located in more than one county be divided, and the part in each county be considered a separate enterprise. In this way, 18 operating drainage enterprises are counted in the five states named, with an average area of 11,775 acres. There are 3 enterprises having less than 1,000 acres each, 10 between 1,000 and 10,000 acres, and 5 having more than 10,000 acres each. There is no overlapping of the enterprises in any of these states.

TABLE 5.—LAND IN OPERATING ENTERPRISES, CLASSIFIED BY SIZE OF AREA ASSESSED: 1920.

SIZE GROUP.	Land in enterprises (acres).	ASSESSED AREA.	
		Acreage.	Per cent of total.
All operating enterprises.....	211,949	211,949	100.0
200 to 499 acres.....	400	400	0.2
500 to 999 acres.....	1,390	1,390	0.7
1,000 to 4,999 acres.....	9,000	9,000	4.2
5,000 to 9,999 acres.....	49,579	49,579	23.4
10,000 to 49,999 acres.....	77,580	77,580	36.6
50,000 to 99,999 acres.....	74,000	74,000	34.9

Character of enterprises.—The enterprises in the states being considered here are drainage districts in Arizona, New Mexico, Oklahoma, and Oregon; projects of the United States Reclamation Service in

Arizona, Nevada, and New Mexico; one small undertaking by an incorporated town in Arizona; and one enterprise under individual ownership in Oklahoma.

The drainage districts in Arizona are organized under Chapter 5, Title 55, Civil Code, Revised Statutes of Arizona, 1913. That chapter authorizes the establishment of drainage districts by the boards of county supervisors in which the proposed districts are situated, upon petition from five or more owners of agricultural land to be benefited, if approved by the landowning voters of the district. These voters elect three directors to manage the enterprise. The cost of the drainage is paid by ad valorem taxes upon the real property in the district or, as authorized by an amendment of March 14, 1917 (ch. 57), according to benefits assessed against the land. In apportioning the benefits, no parcel of land is to be assessed less than one unit nor more than five units. The districts are financed by bonds issued for 11 to 20 years, authorized by vote of the electors and tested by proceedings in the superior court of the county. This statute was first enacted May 16, 1912 (ch. 38).

The drainage districts in New Mexico are organized under an act of June 14, 1912 (ch. 84). The statute provides that districts for the drainage of land for agriculture may be established by the district courts upon petition from a majority of the adult owners representing one-third of the area to be benefited. A district may comprise separated tracts of land. A preliminary investigation of the project is made by three commissioners appointed by the court. When the decree of establishment has been issued, these commissioners become the officers of the district to complete the plan of drainage, determine the boundaries of the district, assess benefits and damages, and secure construction of the works. The cost of the enterprise is apportioned against the land in proportion to the benefits. Public hearings are held upon the petition, the commissioners' preliminary report, and their final report with plan and assessments. Appeal regarding the confirmation of the final report may be taken to the state supreme court. Bonds of the district may be issued by the commissioners to finance the work. A state law of March 6, 1917 (ch. 22), authorizes the establishment of drainage districts in projects of the United States Reclamation Service, but no enterprises were reported as organized under that law. The act provides for establishment by the county commissioners upon petition from a majority of the resident owners representing one-third of the land in the proposed district, subject to vote of the landowners. The affairs of the district are to be administered by elected directors. The cost is to be apportioned according to benefits, and the enterprise may be financed by issuing bonds.

The drainage districts in Oklahoma are organized under an act approved May 29, 1908 (ch. 30). As amended to the census date, the law provides that the

districts may be established by the boards of county commissioners on petition from five or more landowners to be assessed for the improvement. A district shall be established upon petition from 50 per cent of the owners or from the resident owners of 50 per cent of the land. A preliminary survey and report are made by viewers appointed by the commissioners. The final plan of drainage works and the assessments of damages and benefits are made by viewers appointed by the judge of the district court of the county, and are equalized and confirmed by the county commissioners. The cost is apportioned according to the confirmed benefits. Public hearings are held by the commissioners upon the preliminary and final reports of the viewers. Appeals regarding assessments may be taken to the district court. Contracts for construction are let by a surveyor appointed by the commissioners. Bonds of the district may be issued by the commissioners.

Drainage districts in Oregon may be organized under an act of February 26, 1915 (ch. 340), which authorizes the establishment of such districts by the county courts upon petition from the record owners of 50 per cent of any contiguous body of swamp, wet, or overflowed land. Each district is governed by three supervisors elected by the landowners; each owner has one vote for each acre he owns in the district. After the plan of reclamation is prepared, benefits and damages are assessed against all land to be affected, by three commissioners appointed by the court. The cost is apportioned according to the benefits confirmed by the court at public hearing. The district may issue bonds running for 20 years. An act of February 23, 1911 (ch. 172), provides that three or more persons may incorporate as a district improvement company for draining land, by filing with the secretary of state and the county clerk articles of incorporation which must specify the land to be improved. All expenditures must be authorized and the plan of reclamation must be approved by the owners of the land to be improved. The corporation has power of eminent domain, and may issue bonds for 20 years. An act of February 21, 1889, authorized the county courts, except in five counties, to establish drainage districts upon petition from one-half the owners representing one-third of the land to be benefited. Trustees for the district were to be named by the petitioners. The act later was made applicable in all counties, and the proportion of landowners required to sign the petition was reduced. Right-of-way for a private drain across the land of an objecting owner may be secured through application to the county court and payment of damages assessed, under an act of October 24, 1868.

While no organized drainage enterprise was reported in Nevada except that by the United States Reclamation Service, the formation of drainage districts in that state is authorized by an act of March 31, 1913 (ch. 281). Such districts may be established by the

boards of county commissioners, upon petition from a majority of the owners controlling not less than one-third of the acreage to be benefited, or from one-third of the owners controlling a major part of the acreage, and after public hearing. To govern each district, the county commissioners appoint three supervisors and an engineer, who prepare the plan of drainage, assess benefits and damages, and secure construction of the works. The cost of the enterprise is apportioned according to the benefits as equalized by the county commissioners. The board of supervisors may issue bonds to mature in not more than 20 years, if approved by vote of the landowners.

TABLE 6.—LAND AND CAPITAL INVESTED IN ALL ENTERPRISES, CLASSIFIED BY CHARACTER OF ENTERPRISE: 1920.

CHARACTER OF ENTERPRISE.	LAND.		CAPITAL.		
	Acreage.	Per cent of total.	To Dec. 31, 1919.		Additional required to complete.
			Total.	Per cent of total.	
All organized enterprises..	244,294	100.0	\$2,519,987	100.0	\$2,493,500
Operating enterprises.....	211,949	86.8	2,519,487	100.0	1,808,500
Drainage districts ¹	84,478	34.6	1,377,032	54.6	196,500
U. S. Reclamation Service ² ..	127,471	52.2	1,142,455	45.3	1,612,000
Nonoperating enterprises.....	32,345	13.2	500	(³)	685,000
Drainage districts.....	25,345	10.4	500	(³)	535,000
U. S. Reclamation Service....	7,000	2.9	.....	.....	150,000

¹ Includes 640 acres organized as a town drain.

² Includes 2,500 acres under individual ownership.

³ Less than one-tenth of 1 per cent.

Alabama has two general drainage laws, though no public drainage enterprises. The statute of March 4, 1915 (No. 167), authorizes the establishment of drainage districts as corporate bodies by the courts of probate of the counties in which the districts are located, for the drainage of farm, wet, swamp, or overflowed land. A petition for the district must be signed by a majority, in either number or acreage, of the landowners to be assessed. When the district has been established, the court appoints three viewers to make the plan of drainage and to assess damages and benefits. Thereafter, the district is controlled by three commissioners appointed by the court. The cost is apportioned against the land according to the benefits. Bonds may be issued if the average cost will be 50 cents or more per acre. Drainage and flood protection districts for public health and welfare in counties containing cities of 50,000 to 125,000 population may be established as political subdivisions by the courts of county commissioners according to an act of September 30, 1919 (No. 742). The petition for establishment may be signed by a majority of the landowners affected, in number or acreage, or by a majority of the qualified voters of the district. An engineer appointed by the court makes a preliminary investigation and, after the district is established, the final plan of improvement and the assessments of benefits and damages. The court lets contract for construction and apportions the cost according to the benefits. Bonds may be issued if the average cost

will exceed \$1 per acre and if approved by a majority of the voters of the district.

Virginia enacted a law March 14, 1906 (ch. 188), authorizing the establishment of drainage districts by the circuit courts, but no enterprises in the state organized under that or succeeding drainage laws had begun actual construction by January 1, 1920. The statute of 1906 provided that upon petition from more than five landowners the court should hold a hearing and, by its commissioner in chancery, determine the size of the ditch and assess benefits and damages. Upon establishing the district, the court should appoint a commissioner to collect the assessments and let contract for the work. This act has been superseded by later statutes. An act of March 17, 1910 (ch. 312), provided for the establishment of drainage districts by the county circuit courts. It was amended and reenacted March 12, 1912 (ch. 159), and again March 27, 1914 (ch. 332). The three statutes are alike in their main provisions. A petition for the district must be signed by a majority of the resident landowners in the proposed district, or by the owners of three-fifths of the land. The district will not be established except upon favorable report from the viewers appointed by the court. After establishment, the viewers prepare the plan of drainage, divide the land into five classes according to benefits, and assess damages. When the plans, classification, and assessments have been approved, the court appoints a board of commissioners to have charge of the district. The cost is apportioned according to the classification of the land, the rates per acre being in the ratio 5:4:3:2:1. Bonds may be issued if the cost exceeds 25 cents per acre. An act of March 31, 1848 (ch. 110), authorized the courts of common pleas to condemn right of way for a private drain across the land of an owner who refused permission, the applicant first paying damages as assessed by jury or, since 1871 (ch. 205), by commissioners appointed by the court.

West Virginia has no organized drainage enterprises, though a general drainage law was enacted February 24, 1917 (ch. 26). The act provides that drainage, levee, and reclamation districts for the drainage of farm, wet, and overflowed land may be established by the circuit courts upon petition from three or more owners of real property in the proposed district, after preliminary investigation and public hearing. Three supervisors to manage the enterprise are elected by the landowners, who vote in proportion to their acreage assessed. Benefits and damages are assessed by appraisers appointed by the court, subject to confirmation at public hearing and to appeal for jury trial. The cost is apportioned according to the benefits, and the district may issue bonds to mature within 15 years. The legal code of West Virginia, in 1868, provided that right-of-way for a private drain across the land of an objecting owner might be se-

cured by application to the circuit court and payment of damages.

Drainage works.—The total works completed by drainage enterprises to December 31, 1919, comprised 191.8 miles of open ditches, 300.2 miles of tile drains, and 31.0 miles of levees; the additional lengths under construction were 1.6 miles of open ditches and 65.1 miles of tile drains. These figures do not include drains or levees installed by individual farm owners supplemental to the works of the enterprises, nor the works of flood-protection or levee districts that had not undertaken the construction of ditches or tile drains. There is one pumping district, in Arizona, in which all the drainage from 25,000 acres is removed by 2 screw pumps of 33,660 gallons per minute total capacity, which are operated by internal combustion engines capable of developing 175 horsepower.

TABLE 7.—LAND AND CAPITAL INVESTED IN OPERATING ENTERPRISES, CLASSIFIED BY KIND OF DRAINAGE WORKS: 1920.

KIND OF WORKS.	LAND.		CAPITAL.		
	Acreage.	Per cent of total.	To Dec. 31, 1919.		Additional required to complete.
			Amount.	Per cent of total.	
All kinds.....	211,949	100.0	\$2,519,487	100.0	\$1,808,500
Open ditches only.....	95,150	44.9	701,340	27.8	1,001,000
Open ditches and levees.....	30,000	14.2	357,500	14.2	612,000
The drains only.....	38,778	18.3	797,692	31.7	53,000
Open ditches and tile drains.....	48,021	22.7	662,955	26.3	142,500

The average depth of the main or outlet ditch was reported for each enterprise. The maximum reported for any enterprise in each state and the maximum in each county are shown in line 15 of County Table II. The maximum length, width, and depth of outlet shown in that table for any county may not refer to the same enterprise.

In County Table II, line 16 shows the mean depth of branch ditches (open ditches only), which is a very crude indication of the depth of soil drainage that may be obtained in the enterprises as determined by the depth of outlet provided for farm drains. The mean depth was computed by giving each separate depth a weight in proportion to the acreage it serves. As most enterprises reported depths in whole numbers only, the occasional decimals were omitted in making these computations. Depths of 10 feet and more were omitted, as they seemed not to represent so well the average depths of outlet provided for all the farms in the districts. To include all the enterprises reporting branch ditches would show the mean depth for the five states 10.0 instead of 8.0 feet.

TABLE 8.—LAND IN OPERATING ENTERPRISES, CLASSIFIED BY AVERAGE DEPTH OF BRANCH DITCHES: 1920.

DEPTH OF BRANCH DITCHES.	Acreage.	Per cent of total.
All operating enterprises.....	211,949	100.0
9.0 to 9.9 feet.....	30,000	14.2
10 feet and more.....	85,081	40.1
Not reporting branches.....	96,918	45.7

Maintenance of works.—The drainage law of Arizona requires the directors of each drainage district to keep the works of the district in repair, and to include in their annual estimate of drainage taxes the probable cost of the repairs apportioned in the same manner as the cost of construction. The commissioners or directors of the districts in New Mexico are required to make annual estimates of funds needed for maintenance and repairs, which are to be apportioned like the cost of construction or last assessment of benefits but are reviewed by the court at public hearing before confirmation. The Oklahoma statute provides for a drainage commissioner to be appointed, who shall inspect the drains from time to time. Each landowner must keep the drains through his land free from vegetation, and the cost of other repair work not due to wilfulness or to negligence of some owner is assessed against all the district in proportion to the benefits assessed for original construction. The supervisors of drainage districts in Oregon are authorized to levy taxes for maintenance apportioned like the cost of original construction of the works. The drainage laws of Alabama (1915), Nevada, Virginia, and West Virginia provide for the maintenance and repair of the drainage works by the administrative boards of the districts, the cost of this work to be apportioned like the cost of original construction.

The drainage works installed by the United States Reclamation Service on its irrigation projects are maintained as a part of the irrigation works.

TABLE 9.—LAND AND CAPITAL INVESTED IN OPERATING ENTERPRISES, CLASSIFIED BY METHOD OF MAINTENANCE: 1920.

METHOD OF MAINTENANCE.	LAND.		CAPITAL.		
	Acreage.	Per cent of total.	To Dec. 31, 1919.		Additional required to complete.
			Amount.	Per cent of total.	
All operating enterprises.....	211,949	100.0	\$2,519,487	100.0	\$1,808,500
By district forces.....	176,221	83.1	2,225,221	88.3	1,807,500
By method not specified.....	7,638	3.6	100,000	4.0	.....
By landowners.....	2,500	1.2	7,824	0.3	.....
No maintenance provided.....	2,500	1.2	4,000	0.2	.....
Not reporting.....	23,090	10.9	182,442	7.2	1,000

Date of organization.—The progress in drainage development is shown only roughly by the dates of the organization of the enterprises, which are the dates when the districts were established by the county boards or the designated courts, since there may be a period of a year or more between the decree of establishment and the beginning of actual construction, and since the work of construction may occupy several years in a large district. It was not practicable, however, for the census to secure data as to the time of the beginning or the completion of the drainage works. Under the date of organization are tabulated the entire area, works, and capital of each enterprise, even including extensions made after the original plan of reclamation was completed.

TABLE 10.—LAND IN OPERATING ENTERPRISES, CLASSIFIED BY DATE ENTERPRISE WAS ORGANIZED: 1920.

DATE OF ORGANIZATION.	LAND.		AREA ASSESSED.	
	Acreage.	Per cent of total.	Acreage.	Per cent of total.
All operating enterprises.....	211,949	100.0	211,949	100.0
1905 to 1909.....	21,940	10.3	21,940	10.3
1910 to 1914.....	64,059	30.2	64,059	30.2
1915 to 1919.....	111,540	52.6	111,540	52.6
Not reported.....	14,410	6.8	14,410	6.8

TABLE 11.—CAPITAL INVESTED IN OPERATING ENTERPRISES, CLASSIFIED BY DATE ENTERPRISE WAS ORGANIZED: 1920.

DATE OF ORGANIZATION.	CAPITAL.		
	To Dec. 31, 1919.		Additional required to complete.
	Amount.	Per cent of total.	
All operating enterprises.....	\$2,519,487	100.0	\$1,808,500
1905 to 1909.....	162,351	6.4	.....
1910 to 1914.....	1,096,582	43.5	143,000
1915 to 1919.....	1,103,074	43.8	1,613,000
Not reported.....	157,500	6.3	52,500

TABLE 12.—DRAINS AND LEVEES (COMPLETED AND UNDER CONSTRUCTION) IN OPERATING ENTERPRISES, CLASSIFIED BY DATE ENTERPRISE WAS ORGANIZED: 1920.

DATE OF ORGANIZATION.	DITCHES.		TILE.		LEVEES.	
	Miles.	Per cent of total.	Miles.	Per cent of total.	Miles.	Per cent of total.
All drains and levees.....	193.4	100.0	365.3	100.0	31.0	100.0
1905 to 1909.....	119.7	61.9	3.6	1.0	5.0	16.1
1910 to 1914.....	16.2	8.4	300.7	82.3	.....	.....
1915 to 1919.....	46.7	24.1	18.0	4.9	26.0	83.9
Not reported.....	10.8	5.6	43.0	11.8	.....	.....

Crops.—The principal crops grown upon the drained land in drainage enterprises were reported as cotton in Arizona, cotton and corn in Oklahoma, and alfalfa in Nevada, New Mexico, and Oregon. Statistics were not secured to show the part of each enterprise planted to any crop, so the enterprises have been classified according to the principal crop, and the total area of improved land is shown thus classified in County Table II. No data were secured at the general census of agriculture to separate the crops grown upon land drained artificially from those produced upon land drained naturally.

DRAINAGE.

COUNTY TABLE I.—DRAINAGE ON FARMS: 1920.

ALABAMA.

		The State.	Autauga.	Baldwin.	Barbour.	Bibb.	Blount.	Bullock.	Butler.
1	Number of all farms in the state or county.....								
2	Farms reporting land having drainage.....	256,099	2,481	2,122	4,268	1,844	4,019	3,700	3,627
3	Farms reporting land needing drainage.....	19,967	218	50	187	225	419	90	89
4	Farms in drainage and levee districts.....	36,511	119	557	233	363	937	445	362
		352	2	3	1	1	6	7	1
LAND AND FARM AREA.									
5	Approximate land area of the state or county.....								
6	All land in farms..... acres..	32,818,560	373,760	1,020,800	583,680	405,760	415,360	390,400	488,320
7	Improved land in farms..... acres..	19,576,856	249,502	216,499	371,086	159,463	289,156	236,533	332,653
8	Woodland in farms..... acres..	9,893,407	121,359	54,541	218,258	61,566	125,652	177,044	154,957
9	Other unimproved land in farms..... acres..	8,301,177	118,659	147,675	106,270	90,224	153,601	33,751	152,406
		1,382,272	9,484	14,283	46,558	7,673	9,903	25,738	25,290
10	Farm land reported as provided with drainage..... acres..	415,293	9,651	3,497	8,158	2,325	3,938	1,541	803
11	Farm land reported as needing drainage..... acres..	1,610,656	12,634	40,139	12,768	23,121	26,702	13,466	19,512
12	Drainage only..... acres..	150,028	1,971	4,711	1,482	5,130	915	2,866	577
13	Drainage and clearing..... acres..	1,460,628	10,663	35,428	11,286	17,991	25,787	10,610	18,935

		Calhoun.	Chambers.	Cherokee.	Chilton.	Choctaw.	Clay.	Cleburne.	Colbert.
1	Number of all farms in the county.....								
2	Farms reporting land having drainage.....	3,521	4,918	3,717	3,443	3,039	3,576	2,235	3,018
3	Farms reporting land needing drainage.....	190	966	404	166	69	1,048	149	69
4	Farms in drainage and levee districts.....	710	1,860	999	1,010	281	1,423	567	460
		2	33	30	15	1	7	1	2
LAND AND FARM AREA.									
5	Approximate land area of the county.....								
6	All land in farms..... acres..	394,240	391,680	369,280	456,320	596,480	392,960	364,160	395,520
7	Improved land in farms..... acres..	240,591	313,049	269,982	236,654	310,993	243,023	189,520	225,218
8	Woodland in farms..... acres..	120,041	195,525	131,011	107,422	115,483	117,422	67,916	122,630
9	Other unimproved land in farms..... acres..	106,111	85,326	126,586	123,264	173,087	104,274	113,187	92,495
		14,439	32,198	12,385	5,968	22,423	21,327	8,417	10,093
10	Farm land reported as provided with drainage..... acres..	2,779	30,359	4,750	2,244	737	8,677	1,728	778
11	Farm land reported as needing drainage..... acres..	24,709	48,108	38,933	31,653	19,113	37,189	22,919	22,543
12	Drainage only..... acres..	883	6,811	1,644	829	1,214	2,477	621	1,208
13	Drainage and clearing..... acres..	23,826	41,297	37,289	30,824	17,899	34,712	22,298	21,335

		Coosa.	Covington.	Dale.	Dallas.	Dekalb.	Elmore.	Escambia.	Etowah.	Fayette.
1	Number of all farms in the county.....									
2	Farms reporting land having drainage.....	1,980	4,264	3,438	7,124	5,636	3,726	2,069	3,832	2,825
3	Farms reporting land needing drainage.....	475	69	42	507	310	351	88	304	634
4	Farms in drainage and levee districts.....	985	596	234	691	1,229	514	369	267	810
		2	1	1	11					2
LAND AND FARM AREA.										
5	Approximate land area of the county.....									
6	All land in farms..... acres..	419,200	666,880	360,320	612,480	503,040	408,320	612,480	344,960	411,520
7	Improved land in farms..... acres..	210,885	387,940	314,998	401,273	380,979	310,126	168,021	252,954	303,944
8	Woodland in farms..... acres..	81,222	172,570	171,185	263,528	184,715	144,806	67,359	120,923	100,117
9	Other unimproved land in farms..... acres..	108,833	205,800	126,498	111,513	185,473	136,620	85,336	122,173	182,377
		20,831	9,570	17,315	26,232	10,791	28,700	15,326	9,858	21,450
10	Farm land reported as provided with drainage..... acres..	4,259	935	757	21,103	6,886	6,013	956	3,477	10,216
11	Farm land reported as needing drainage..... acres..	31,671	67,122	7,986	25,136	39,376	20,679	20,859	13,469	37,837
12	Drainage only..... acres..	2,662	819	421	5,169	3,194	1,040	135	837	3,645
13	Drainage and clearing..... acres..	29,009	66,303	7,565	19,967	36,182	19,639	20,724	12,632	34,192

		Geneva.	Greene.	Hale.	Houston.	Jackson.	Lamar.	Lawrence.	Lowndes.
1	Number of all farms in the county.....								
2	Farms reporting land having drainage.....	4,085	3,139	3,816	4,612	5,584	2,762	4,535	5,118
3	Farms reporting land needing drainage.....	172	89	642	263	284	1,259	227	1,048
4	Farms in drainage and levee districts.....	647	109	717	484	323	1,050	429	255
			2	1	4	6	99		2
LAND AND FARM AREA.									
5	Approximate land area of the county.....								
6	All land in farms..... acres..	369,920	406,400	413,440	370,560	729,600	384,640	448,000	472,960
7	Improved land in farms..... acres..	292,784	289,654	267,920	320,801	428,391	286,126	312,656	292,495
8	Woodland in farms..... acres..	174,717	136,749	158,639	211,208	197,911	96,517	181,064	183,386
9	Other unimproved land in farms..... acres..	111,447	80,975	78,019	97,964	194,715	150,064	112,708	56,261
		6,620	21,930	31,262	11,629	35,765	39,545	18,884	52,848
10	Farm land reported as provided with drainage..... acres..	1,212	6,628	17,926	3,061	6,041	28,268	4,144	31,695
11	Farm land reported as needing drainage..... acres..	33,015	17,010	37,068	19,161	12,891	35,097	14,242	23,723
12	Drainage only..... acres..	2,838	2,182	4,452	1,626	5,357	6,052	1,774	8,421
13	Drainage and clearing..... acres..	30,177	14,828	32,616	17,535	7,534	29,045	12,468	15,302

AGRICULTURE.

COUNTY TABLE I.—DRAINAGE ON FARMS: 1920—Continued.

ALABAMA—Continued.

	Macon.	Madison.	Marengo.	Marion.	Marshall.	Mobile.	Monroe.	Montgomery.
1	3,956	6,158	6,004	3,531	5,399	1,240	4,437	4,550
2	848	368	743	687	69	51	58	121
3	899	459	351	1,323	628	120	309	519
4	2	5	1	1	24	1	1	5
LAND AND FARM AREA.								
5	392,960	519,040	618,240	475,520	385,280	784,640	647,680	512,640
6	218,836	372,906	479,616	324,046	322,323	106,572	411,548	293,728
7	145,692	249,495	271,903	119,407	170,621	38,004	169,088	210,999
8	57,099	100,460	159,940	196,735	140,675	55,329	221,502	59,395
9	16,045	22,951	47,773	7,904	11,027	13,239	20,958	30,334
10	25,814	7,546	20,355	8,336	935	2,298	2,318	7,302
11	32,141	9,678	20,916	70,002	13,035	7,714	41,392	26,394
12	6,971	1,793	5,766	904	245	827	2,447	9,398
13	25,170	7,885	15,150	69,098	12,790	6,887	38,945	16,996
	Morgan.	Perry.	Pickens.	Pike.	Randolph.	Russell.	St. Clair.	Shelby.
1	4,344	4,302	3,321	4,472	4,181	3,306	2,706	2,469
2	414	146	730	138	829	403	57	221
3	815	156	742	753	476	897	379	639
4	6		1	2		1		2
LAND AND FARM AREA.								
5	375,680	471,680	560,000	429,440	377,600	419,200	414,720	524,160
6	270,571	343,963	320,250	342,427	285,978	271,962	235,231	204,738
7	154,111	179,357	130,085	217,308	137,557	169,961	99,462	98,475
8	109,592	115,207	156,644	87,610	118,533	79,704	127,282	100,955
9	6,868	49,399	33,521	37,509	29,888	22,237	8,487	5,308
10	7,799	5,501	10,283	2,556	12,982	7,656	610	3,330
11	22,660	12,731	45,349	27,628	9,493	43,778	18,215	19,732
12	3,836	1,956	1,652	1,564	1,540	2,935	112	1,057
13	18,824	10,775	43,697	26,004	7,953	40,843	18,103	18,675
	Sumter.	Talladega.	Talla- poosa.	Tusca- loosa.	Walker.	Wilcox.	Winston.	All other counties. ¹
1	3,747	4,115	3,940	4,335	2,949	5,461	2,172	46,931
2	410	85	1,219	426	192	157	258	236
3	490	308	1,277	798	480	271	267	3,120
4	2	3	7	3	16			26
LAND AND FARM AREA.								
5	581,120	483,200	488,320	861,440	506,880	573,440	403,200	6,039,040
6	361,428	273,586	359,475	399,572	293,547	324,630	219,933	3,539,121
7	213,875	167,490	172,170	148,036	86,191	203,318	71,204	1,732,095
8	112,783	97,798	141,632	226,868	142,827	91,780	144,073	1,590,003
9	34,770	13,298	45,673	24,608	4,529	29,532	4,656	217,023
10	14,281	1,982	15,346	5,520	2,289	4,580	6,485	3,647
11	60,836	9,257	48,355	41,690	12,542	17,767	11,376	138,124
12	6,858	742	2,591	2,694	746	3,995	305	5,141
13	53,978	8,515	45,764	38,996	11,796	13,772	11,071	132,983

¹ Drainage on farms was reported in all counties in Alabama.

ARIZONA.

	THE STATE.	Cochise.	Graham.	Maricopa.	Pima.	All other counties. ¹
1	9,975	1,251	870	3,930	434	3,490
2	241	52	54	29	73	33
3	455	110	26	34	71	194
4	28		2	20		6
LAND AND FARM AREA.						
5	72,838,400	3,948,800	2,963,200	5,690,240	6,083,200	54,152,960
6	5,802,126	998,242	165,691	802,396	413,278	3,422,519
7	712,803	120,229	38,632	279,334	35,785	288,823
8	823,648	51,700	1,324	5,639	296	464,689
9	4,565,675	826,313	125,735	517,423	377,197	2,719,007
10	9,651	1,596	2,320	3,328	849	1,558
11	41,951	27,434	789	2,280	2,084	9,364
12	9,596	4,380	459	1,365	1,457	1,935
13	32,355	23,054	330	915	627	7,429

¹ No drainage on farms reported in Apache and Greenlee Counties.

DRAINAGE.

715

COUNTY TABLE I.—DRAINAGE ON FARMS: 1920—Continued.

CONNECTICUT.

	THE STATE.	Fairfield.	Hartford.	Litchfield.	New Haven.	New London.	Windham.	All other counties. ¹
1 Number of all farms in the state or county.....	22,655	3,874	4,700	3,041	2,687	2,747	2,217	3,389
2 Farms reporting land having drainage.....	1,203	212	408	146	151	83	83	60
3 Farms reporting land needing drainage.....	2,839	497	660	408	440	264	342	228
4 Farms in drainage and levee districts.....	36	6	10	4	4	2	2	8
LAND AND FARM AREA.								
5 Approximate land area of the state or county.....acres..	3,084,800	403,840	466,560	592,000	385,920	421,760	320,000	494,720
6 All land in farms.....acres..	1,898,980	225,689	293,907	376,650	188,167	287,576	220,204	306,807
7 Improved land in farms.....acres..	701,086	108,393	142,506	135,616	75,880	79,839	70,471	88,381
8 Woodland in farms.....acres..	683,719	65,271	88,596	127,477	62,059	107,629	95,570	137,117
9 Other unimproved land in farms.....acres..	514,175	52,005	62,805	113,557	50,228	100,108	54,163	81,309
10 Farm land reported as provided with drainage.....acres..	14,646	2,749	5,553	1,657	1,469	1,922	795	501
11 Farm land reported as needing drainage.....acres..	56,462	8,302	10,654	9,105	7,541	8,405	8,624	3,831
12 Drainage only.....acres..	14,430	2,858	3,380	2,107	1,916	1,314	1,573	1,282
13 Drainage and clearing.....acres..	42,032	5,444	7,274	6,998	5,625	7,091	7,051	2,549

¹ Drainage on farms was reported in all counties in Connecticut.

DELAWARE.

	THE STATE.	Kent.	New Castle.	Sussex.
1 Number of all farms in the state or county.....	10,140	2,911	1,825	5,404
2 Farms reporting land having drainage.....	4,246	1,540	573	2,133
3 Farms reporting land needing drainage.....	2,488	620	534	1,334
4 Farms in drainage and levee districts.....	1,321	766	10	545
LAND AND FARM AREA.				
5 Approximate land area of the state or county.....acres..	1,257,600	394,880	278,400	584,320
6 All land in farms.....acres..	944,511	315,141	215,857	413,513
7 Improved land in farms.....acres..	653,052	224,486	162,302	266,264
8 Woodland in farms.....acres..	222,658	65,839	27,140	129,679
9 Other unimproved land in farms.....acres..	68,801	24,816	26,415	17,570
10 Farm land reported as provided with drainage.....acres..	185,831	71,086	18,008	96,742
11 Farm land reported as needing drainage.....acres..	68,969	13,383	12,811	42,775
12 Drainage only.....acres..	7,967	1,467	2,948	3,552
13 Drainage and clearing.....acres..	61,002	11,916	9,863	39,223

DISTRICT OF COLUMBIA.

[All the statistics for drainage on farms for the District of Columbia appear in State Table I, page 372.]

MAINE.

	THE STATE.	Andros-coggin.	Aroos-took.	Cumber-land.	Franklin.	Hancock.	Kennebec.	Knox.
1 Number of all farms in the state or county.....	48,227	2,235	6,741	3,740	1,849	2,442	4,442	1,427
2 Farms reporting land having drainage.....	2,068	144	87	312	34	73	145	72
3 Farms reporting land needing drainage.....	5,425	277	560	489	97	249	696	159
4 Farms in drainage and levee districts.....	25	1	4	4	3	3	1	1
LAND AND FARM AREA.								
5 Approximate land area of the state or county.....acres..	19,132,800	293,760	4,129,920	545,920	1,144,960	974,080	562,560	224,640
6 All land in farms.....acres..	5,425,968	211,954	850,208	319,776	274,808	229,184	430,020	124,010
7 Improved land in farms.....acres..	1,977,329	90,483	450,763	129,454	96,294	44,896	173,835	34,048
8 Woodland in farms.....acres..	2,447,597	74,571	299,409	135,358	138,852	138,824	155,043	56,057
9 Other unimproved land in farms.....acres..	1,001,042	49,900	100,036	54,964	39,662	45,464	101,142	33,905
10 Farm land reported as provided with drainage.....acres..	26,302	2,189	667	4,291	263	761	1,884	703
11 Farm land reported as needing drainage.....acres..	142,053	5,604	21,126	10,373	2,173	5,914	14,681	3,207
12 Drainage only.....acres..	19,930	1,300	1,946	1,312	516	721	1,930	461
13 Drainage and clearing.....acres..	122,123	4,304	19,180	9,061	1,657	5,193	12,751	2,746

	Lincoln.	Oxford.	Penobscot.	Piscataquis.	Sagadahoc.	Somerset.	Waldo.	Washington.	York.
1 Number of all farms in the county.....	2,024	3,078	5,188	1,424	852	3,646	3,234	2,561	3,344
2 Farms reporting land having drainage.....	97	202	182	42	119	102	243	62	152
3 Farms reporting land needing drainage.....	301	322	481	179	103	354	471	438	249
4 Farms in drainage and levee districts.....		7	1	4				3	1
LAND AND FARM AREA.									
5 Approximate land area of the county.....acres..	292,480	1,267,200	2,085,120	2,412,800	160,000	2,325,120	463,360	1,617,920	632,960
6 All land in farms.....acres..	184,998	434,939	591,275	218,668	95,866	500,383	359,933	272,153	327,693
7 Improved land in farms.....acres..	51,524	134,722	219,485	67,880	33,868	180,315	117,424	56,347	95,991
8 Woodland in farms.....acres..	90,150	238,612	253,910	117,001	35,166	229,243	154,443	163,720	167,238
9 Other unimproved land in farms.....acres..	43,324	61,655	117,880	33,787	26,832	90,825	88,116	52,086	64,464
10 Farm land reported as provided with drainage.....acres..	975	2,000	2,364	526	1,570	1,793	3,629	686	2,001
11 Farm land reported as needing drainage.....acres..	6,414	5,769	15,102	4,756	2,232	9,846	10,000	17,061	7,795
12 Drainage only.....acres..	1,207	2,025	1,884	559	586	1,180	2,026	1,069	1,208
13 Drainage and clearing.....acres..	5,207	3,744	13,218	4,197	1,646	8,666	7,974	15,992	6,587

AGRICULTURE.

COUNTY TABLE I.—DRAINAGE ON FARMS: 1920—Continued.

MARYLAND.

	THE STATE.	Allegany.	Anne Arundel.	Balti- more.	Caroline.	Carroll.	Cecil.	Charles.
1	Number of all farms in the state or county.....	47,908	999	1,965	3,587	2,071	3,518	1,740
2	Farms reporting land having drainage.....	6,911	82	92	198	812	395	153
3	Farms reporting land needing drainage.....	6,658	206	381	281	563	421	165
4	Farms in drainage and levee districts.....	272	1	4	1	9		3
LAND AND FARM AREA.								
5	Approximate land area of the state or county.....acres..	6,362,240	283,520	272,640	386,560	204,160	286,080	241,280
6	All land in farms.....acres..	4,757,999	152,974	179,133	280,618	174,225	273,777	187,561
7	Improved land in farms.....acres..	3,136,728	64,074	115,569	196,212	120,613	207,633	132,694
8	Woodland in farms.....acres..	1,327,221	77,998	51,934	66,334	47,711	39,815	37,994
9	Other unimproved land in farms.....acres..	294,050	10,902	11,630	18,072	5,901	26,329	16,873
10	Farm land reported as provided with drainage.....acres..	249,799	1,139	2,497	1,748	32,687	2,249	4,092
11	Farm land reported as needing drainage.....acres..	184,820	10,560	13,781	3,176	15,134	4,890	3,882
12	Drainage only.....acres..	33,267	1,156	2,170	879	2,816	1,552	1,706
13	Drainage and clearing.....acres..	151,553	9,404	11,611	2,297	12,318	3,338	2,176

	Dorchester.	Frederick.	Garrett.	Harford.	Howard.	Kent.	Mont- gomery.	Prince Georges.
1	Number of all farms in the county.....	2,019	3,817	1,810	2,399	1,297	1,032	2,145
2	Farms reporting land having drainage.....	889	483	198	133	105	32	182
3	Farms reporting land needing drainage.....	564	622	359	389	83	42	224
4	Farms in drainage and levee districts.....	6	2	1		1	5	17
LAND AND FARM AREA.								
5	Approximate land area of the county.....acres..	368,640	424,320	438,400	282,880	160,000	180,480	333,440
6	All land in farms.....acres..	201,808	364,525	244,754	219,089	142,400	165,800	260,405
7	Improved land in farms.....acres..	117,094	293,509	112,811	154,905	104,682	132,726	199,728
8	Woodland in farms.....acres..	64,528	55,417	109,401	54,414	30,050	21,608	52,920
9	Other unimproved land in farms.....acres..	20,186	15,899	22,542	9,770	7,668	11,466	7,757
10	Farm land reported as provided with drainage.....acres..	48,450	5,868	2,990	1,097	1,650	869	3,889
11	Farm land reported as needing drainage.....acres..	14,476	7,286	10,464	8,449	1,419	766	6,871
12	Drainage only.....acres..	1,009	2,578	2,782	2,009	353	430	1,127
13	Drainage and clearing.....acres..	13,467	4,708	7,682	6,440	1,066	336	5,744

	Queen Annes.	St. Marys.	Somerset.	Talbot.	Washing- ton.	Wicomico.	Worcester.	All other counties. ¹
1	Number of all farms in the county.....	1,409	1,790	1,820	1,205	2,544	2,504	2,334
2	Farms reporting land having drainage.....	438	211	652	106	95	809	551
3	Farms reporting land needing drainage.....	210	353	347	81	129	178	185
4	Farms in drainage and levee districts.....	13		191	1	1	2	10
LAND AND FARM AREA.								
5	Approximate land area of the county.....acres..	233,600	237,440	211,840	171,520	293,760	237,440	316,800
6	All land in farms.....acres..	214,378	190,387	131,253	160,450	239,298	167,840	206,826
7	Improved land in farms.....acres..	163,915	93,438	70,756	115,753	189,847	98,390	114,567
8	Woodland in farms.....acres..	39,551	84,849	45,376	37,239	37,691	57,669	81,785
9	Other unimproved land in farms.....acres..	10,912	12,100	15,121	7,458	11,760	10,474	54,173
10	Farm land reported as provided with drainage.....acres..	30,475	7,080	30,461	5,613	1,047	31,124	26,987
11	Farm land reported as needing drainage.....acres..	5,474	12,505	13,641	2,187	1,367	5,864	7,641
12	Drainage only.....acres..	622	1,431	1,363	57	735	738	1,127
13	Drainage and clearing.....acres..	4,852	11,074	12,278	2,130	632	5,126	5,911

¹ Drainage on farms was reported in all counties in Maryland.

MASSACHUSETTS.

	THE STATE.	Barnstable.	Berkshire.	Bristol.	Essex.	Franklin.
1	Number of all farms in the state or county.....	32,001	675	2,359	3,770	2,966
2	Farms reporting land having drainage.....	2,955	174	86	163	309
3	Farms reporting land needing drainage.....	4,112	51	178	625	402
4	Farms in drainage and levee districts.....	138	7		13	7
LAND AND FARM AREA.						
5	Approximate land area of the state or county.....acres..	5,144,960	261,760	618,240	362,880	318,080
6	All land in farms.....acres..	2,494,477	47,679	356,264	177,761	148,541
7	Improved land in farms.....acres..	908,834	13,619	139,744	68,061	64,429
8	Woodland in farms.....acres..	1,030,386	26,863	138,891	71,661	45,227
9	Other unimproved land in farms.....acres..	555,257	7,197	77,629	38,039	38,885
10	Farm land reported as provided with drainage.....acres..	39,022	1,430	1,746	2,828	3,346
11	Farm land reported as needing drainage.....acres..	80,883	423	5,968	12,716	7,178
12	Drainage only.....acres..	21,212	120	2,093	1,437	2,289
13	Drainage and clearing.....acres..	59,671	303	3,875	11,279	4,889

	Hampden.	Hampshire.	Middlesex.	Norfolk.	Plymouth.	Worcester.	All other counties. ¹
1	Number of all farms in the county.....	2,068	2,979	4,446	1,404	2,178	247
2	Farms reporting land having drainage.....	110	87	718	92	349	29
3	Farms reporting land needing drainage.....	246	111	777	236	356	800
4	Farms in drainage and levee districts.....	7	2	14	13	46	19
LAND AND FARM AREA.							
5	Approximate land area of the county.....acres..	407,040	374,400	532,480	259,840	432,000	995,840
6	All land in farms.....acres..	211,143	267,008	257,165	75,786	122,707	517,610
7	Improved land in farms.....acres..	73,825	90,083	117,290	30,183	44,101	181,167
8	Woodland in farms.....acres..	100,695	122,225	91,897	31,973	63,990	204,404
9	Other unimproved land in farms.....acres..	36,623	54,700	47,978	13,630	14,616	132,039
10	Farm land reported as provided with drainage.....acres..	1,202	1,519	8,280	1,121	6,674	8,054
11	Farm land reported as needing drainage.....acres..	5,370	3,425	13,734	4,849	7,504	14,597
12	Drainage only.....acres..	1,467	1,867	4,175	1,026	1,414	3,800
13	Drainage and clearing.....acres..	3,903	1,558	9,559	3,820	6,090	10,797

¹ Drainage on farms was reported in all counties in Massachusetts.

DRAINAGE.

717

COUNTY TABLE I.—DRAINAGE ON FARMS: 1920—Continued.

NEVADA.

		THE STATE.	Churchill.	Douglas.	Elko.	Eureka.
1	Number of all farms in the state or county.....					
2	Farms reporting land having drainage.....	3,163	498	129	543	60
3	Farms reporting land needing drainage.....	385	223	18	10	5
4	Farms in drainage and levee districts.....	321	187	10	15	2
		232	182	-----	4	1
LAND AND FARM AREA.						
5	Approximate land area of the state or county..... acres..	70,285,440	3,232,000	469,120	10,917,780	2,660,480
6	All land in farms..... acres..	2,357,163	108,307	119,211	718,102	86,197
7	Improved land in farms..... acres..	594,741	36,870	27,277	183,721	25,121
8	Woodland in farms..... acres..	28,637	1,651	11,703	6,530	230
9	Other unimproved land in farms..... acres..	1,733,785	70,786	80,231	527,851	60,846
10	Farm land reported as provided with drainage..... acres..	46,252	21,847	787	1,113	1,929
11	Farm land reported as needing drainage..... acres..	59,739	10,845	691	2,305	400
12	Drainage only..... acres..	38,095	2,643	391	155	100
13	Drainage and clearing..... acres..	21,644	8,202	300	2,650	300

		Humboldt.	Lincoln.	Nye.	Pershing.	Washoe.	All other counties. ¹
1	Number of all farms in the county.....	132	145	152	115	481	908
2	Farms reporting land having drainage.....	1	14	9	54	38	13
3	Farms reporting land needing drainage.....	1	19	12	10	20	45
4	Farms in drainage and levee districts.....				41		4
LAND AND FARM AREA.							
5	Approximate land area of the county..... acres..	6,274,560	6,727,040	11,708,160	3,873,920	4,000,640	20,421,760
6	All land in farms..... acres..	393,865	31,105	95,002	130,968	230,052	444,354
7	Improved land in farms..... acres..	76,788	9,284	19,759	50,141	45,036	121,764
8	Woodland in farms..... acres..	494		1,097	200	2,449	4,283
9	Other unimproved land in farms..... acres..	316,583	21,841	74,146	80,627	182,567	318,307
10	Farm land reported as provided with drainage..... acres..	1,000	677	1,397	15,275	1,428	794
11	Farm land reported as needing drainage..... acres..	28,000	1,735	1,713	462	5,285	7,853
12	Drainage only..... acres..	24,000	995	946	25	3,816	5,024
13	Drainage and clearing..... acres..	4,000	740	767	437	1,419	2,829

¹ No drainage on farms reported in Clark and Storey Counties.

NEW HAMPSHIRE.

		THE STATE.	Belknap.	Carroll.	Cheshire.	Grafton.
1	Number of all farms in the state or county.....	20,523	1,348	1,520	1,625	2,884
2	Farms reporting land having drainage.....	1,013	36	58	83	87
3	Farms reporting land needing drainage.....	1,794	75	100	146	190
4	Farms in drainage and levee districts.....	16			8	
LAND AND FARM AREA.						
5	Approximate land area of the state or county..... acres..	5,779,840	254,080	611,200	465,920	1,106,560
6	All land in farms..... acres..	2,603,806	169,327	207,253	221,298	462,416
7	Improved land in farms..... acres..	702,902	39,377	45,431	53,678	131,827
8	Woodland in farms..... acres..	1,299,838	76,013	137,062	121,570	240,285
9	Other unimproved land in farms..... acres..	601,066	53,937	24,760	46,050	90,354
10	Farm land reported as provided with drainage..... acres..	11,777	522	569	844	879
11	Farm land reported as needing drainage..... acres..	40,783	1,244	2,720	3,306	3,992
12	Drainage only..... acres..	9,914	591	491	1,037	1,076
13	Drainage and clearing..... acres..	30,869	653	2,229	7,269	2,916

		Hillsborough.	Merrimack.	Rockingham.	Strafford.	All other counties. ¹
1	Number of all farms in the county.....	2,563	2,837	3,438	1,421	2,887
2	Farms reporting land having drainage.....	205	161	236	89	58
3	Farms reporting land needing drainage.....	131	266	386	293	157
4	Farms in drainage and levee districts.....	1	2	3	1	1
LAND AND FARM AREA.						
5	Approximate land area of the county..... acres..	572,800	596,480	442,240	242,560	1,488,000
6	All land in farms..... acres..	306,991	387,600	273,361	151,989	443,571
7	Improved land in farms..... acres..	77,286	84,078	86,336	41,436	143,453
8	Woodland in farms..... acres..	140,473	175,725	138,737	69,586	200,437
9	Other unimproved land in farms..... acres..	89,232	107,797	48,288	40,967	99,681
10	Farm land reported as provided with drainage..... acres..	2,186	1,556	3,335	1,375	511
11	Farm land reported as needing drainage..... acres..	2,587	4,518	9,455	4,141	3,820
12	Drainage only..... acres..	1,137	1,630	2,468	590	894
13	Drainage and clearing..... acres..	1,450	2,888	6,987	3,551	2,926

¹ Drainage on farms was reported in all counties in New Hampshire.

AGRICULTURE.

COUNTY TABLE I.—DRAINAGE ON FARMS: 1920—Continued.

NEW JERSEY.

	THE STATE.	Bergen.	Burlington.	Camden.	Cape May.	Cumberland.	Gloucester.	Mercer.	
1	Number of all farms in the state or county.....	29,702	1,012	2,172	1,035	629	3,094	2,319	1,330
2	Farms reporting land having drainage.....	4,903	94	1,081	138	31	152	404	190
3	Farms reporting land needing drainage.....	3,428	152	334	79	27	132	338	99
4	Farms in drainage and levee districts.....	136	7	3	1	1	47	16	1
LAND AND FARM AREA.									
5	Approximate land area of the state or county.....acres..	4,808,960	151,680	521,600	142,080	169,600	320,000	212,480	144,640
6	All land in farms.....acres..	2,282,585	37,108	271,235	50,889	46,493	141,714	132,186	107,768
7	Improved land in farms.....acres..	1,555,607	21,789	153,678	39,442	18,582	90,676	97,990	88,416
8	Woodland in farms.....acres..	454,788	8,258	90,099	7,677	15,626	25,334	20,623	12,174
9	Other unimproved land in farms.....acres..	272,210	7,061	27,458	3,770	12,285	25,704	13,573	7,178
10	Farm land reported as provided with drainage.....acres..	174,280	1,920	54,963	4,527	775	7,410	8,394	7,817
11	Farm land reported as needing drainage.....acres..	77,881	1,861	8,951	1,515	1,217	5,853	5,700	1,832
12	Drainage only.....acres..	29,193	741	5,549	779	107	1,266	669	1,167
13	Drainage and clearing.....acres..	48,688	1,120	3,402	736	1,110	4,587	5,031	665

	Middlesex.	Monmouth.	Morris.	Ocean.	Salem.	Somerset.	Sussex.	Warren.	All other counties. ¹	
1	Number of all farms in the county.....	1,383	2,445	1,333	666	1,802	1,454	1,503	1,666	5,859
2	Farms reporting land having drainage.....	386	933	176	64	710	208	96	103	102
3	Farms reporting land needing drainage.....	206	334	287	34	377	113	167	222	477
4	Farms in drainage and levee districts.....	1	7	3	3	31	1	5	1	8
LAND AND FARM AREA.										
5	Approximate land area of the county.....acres..	199,680	306,560	304,000	407,680	219,520	195,200	338,560	231,680	944,000
6	All land in farms.....acres..	94,996	175,140	123,590	49,172	155,172	137,036	214,409	176,895	368,782
7	Improved land in farms.....acres..	70,318	132,037	71,814	23,768	113,013	113,021	136,945	127,782	256,336
8	Woodland in farms.....acres..	18,701	27,485	34,369	16,196	18,435	15,456	42,609	29,557	72,169
9	Other unimproved land in farms.....acres..	5,977	15,618	17,407	9,208	23,724	8,559	34,855	19,556	40,277
10	Farm land reported as provided with drainage.....acres..	12,615	30,796	3,951	3,502	24,010	7,465	1,570	3,640	905
11	Farm land reported as needing drainage.....acres..	4,679	6,420	6,252	1,322	8,218	1,829	4,990	6,140	11,032
12	Drainage only.....acres..	1,662	2,889	2,243	213	2,994	804	2,308	3,794	1,908
13	Drainage and clearing.....acres..	3,017	3,531	4,009	1,179	5,224	925	2,682	2,346	9,124

¹ Drainage on farms was reported in all counties in New Jersey.

NEW MEXICO.

	THE STATE.	Chaves.	Colfax.	Curry.	Dona Ana.	Eddy.	Guadalupe.	Mora.	
1	Number of all farms in the state or county.....	29,844	744	1,052	1,174	1,054	785	982	1,911
2	Farms reporting land having drainage.....	1,294	108	11	1	27	21	50	50
3	Farms reporting land needing drainage.....	998	13	34	1	319	36	7	32
4	Farms in drainage and levee districts.....	484	62	5	.....	248	16	.....	2
LAND AND FARM AREA.									
5	Approximate land area of the state or county.....acres..	78,401,920	3,866,880	2,430,720	899,840	2,445,440	2,716,800	1,939,840	1,584,000
6	All land in farms.....acres..	24,409,633	1,924,179	1,952,760	740,969	195,316	794,543	986,406	1,013,981
7	Improved land in farms.....acres..	1,717,224	50,450	111,293	176,871	42,164	52,311	31,441	106,995
8	Woodland in farms.....acres..	1,817,460	16,123	205,190	8,773	7,653	1,608	53,507	105,449
9	Other unimproved land in farms.....acres..	20,874,949	1,857,606	1,636,277	555,325	145,499	740,624	901,458	801,537
10	Farm land reported as provided with drainage.....acres..	47,311	13,198	883	1,029	14,128	2,738	650	634
11	Farm land reported as needing drainage.....acres..	49,102	1,185	4,836	101	12,614	1,713	2,448	5,707
12	Drainage only.....acres..	29,016	740	4,719	101	5,109	1,478	2,428	4,789
13	Drainage and clearing.....acres..	20,086	445	117	.....	7,505	235	20	919

	Rio Arriba.	San Juan.	San Miguel.	Sandoval.	Sierra.	Socorro.	Taos.	All other counties. ¹	
1	Number of all farms in the county.....	2,063	874	1,643	1,110	395	1,191	1,116	13,750
2	Farms reporting land having drainage.....	380	38	151	43	28	46	121	19
3	Farms reporting land needing drainage.....	145	63	39	42	26	140	13	88
4	Farms in drainage and levee districts.....	1	7	95	1	.....	10	.....	37
LAND AND FARM AREA.									
5	Approximate land area of the county.....acres..	3,757,440	3,504,640	3,132,160	2,477,440	1,995,520	9,044,800	1,441,280	36,565,120
6	All land in farms.....acres..	304,881	78,377	1,452,379	135,595	330,872	1,180,546	84,873	13,173,456
7	Improved land in farms.....acres..	41,625	30,231	58,534	24,258	7,712	32,770	23,497	927,072
8	Woodland in farms.....acres..	65,074	6,226	426,596	20,080	11,048	313,955	19,243	555,335
9	Other unimproved land in farms.....acres..	257,182	42,420	967,249	91,257	311,512	833,821	42,133	11,691,049
10	Farm land reported as provided with drainage.....acres..	6,387	721	1,209	811	541	673	2,978	731
11	Farm land reported as needing drainage.....acres..	5,002	1,445	2,032	973	810	2,612	2,406	5,097
12	Drainage only.....acres..	1,902	1,094	1,087	194	244	1,310	10	3,811
13	Drainage and clearing.....acres..	3,100	351	1,006	779	566	1,302	2,456	1,286

¹ No drainage on farms reported in Hidalgo, Lea, Lincoln, Luna, Roosevelt, Santa Fe, Torrance, and Valencia Counties.

DRAINAGE.

COUNTY TABLE I.—DRAINAGE ON FARMS: 1920—Continued.

NEW YORK.

		THE STATE.	Albany.	Allegany.	Broome.	Catta-raugus.	Cayuga.	Chautau-qua.	Che-mung.
1	Number of all farms in the state or county.....	193,195	2,946	4,405	3,594	5,305	4,297	7,100	1,945
2	Farms reporting land having drainage.....	33,896	375	216	134	585	2,939	980	117
3	Farms reporting land needing drainage.....	38,523	385	508	533	827	2,293	1,348	278
4	Farms in drainage and levee districts.....	1,447	4	13	14	86	38	39	14
LAND AND FARM AREA.									
5	Approximate land area of the state or county..... acres..	30,498,560	337,280	670,080	451,200	859,520	449,920	684,160	260,480
6	All land in farms..... acres..	20,632,803	278,231	566,280	384,832	645,038	396,284	593,606	208,813
7	Improved land in farms..... acres..	13,158,781	207,472	331,572	251,995	342,882	311,729	361,344	150,256
8	Woodland in farms..... acres..	4,160,567	43,177	116,205	90,741	161,760	45,499	118,623	45,586
9	Other unimproved land in farms..... acres..	3,313,455	27,582	118,503	42,096	140,446	39,036	113,639	12,971
10	Farm land reported as provided with drainage..... acres..	1,180,423	8,246	2,790	3,234	19,115	143,423	15,262	1,489
11	Farm land reported as needing drainage..... acres..	5,779,467	5,162	11,442	10,721	21,901	46,225	29,188	3,977
12	Drainage only..... acres..	318,865	2,447	2,410	3,645	7,250	24,814	7,688	2,433
13	Drainage and clearing..... acres..	460,602	2,715	9,032	7,076	14,651	21,411	21,502	1,544

		Che-nango.	Clinton.	Colum-bia.	Cort-land.	Dela-ware.	Dutchess.	Erie.	Essex.	Frank-lin.
1	Number of all farms in the county.....	3,838	3,402	2,580	2,315	4,613	3,114	7,486	1,978	3,299
2	Farms reporting land having drainage.....	185	241	225	127	195	327	1,291	72	226
3	Farms reporting land needing drainage.....	671	296	317	319	370	607	1,275	352	490
4	Farms in drainage and levee districts.....	5	4	2	2	9	6	24	1	.....
LAND AND FARM AREA.										
5	Approximate land area of the county..... acres..	572,160	671,360	412,160	321,920	927,360	515,840	661,760	1,175,040	1,073,920
6	All land in farms..... acres..	512,586	445,629	340,387	282,382	745,026	436,730	538,052	310,596	408,135
7	Improved land in farms..... acres..	314,730	187,581	250,457	185,925	422,014	299,859	395,364	114,265	178,956
8	Woodland in farms..... acres..	100,832	116,175	56,699	57,096	220,683	80,544	76,325	135,412	85,713
9	Other unimproved land in farms..... acres..	97,024	141,873	33,231	39,361	102,329	56,327	66,363	60,919	143,466
10	Farm land reported as provided with drainage..... acres..	2,244	9,715	3,387	1,430	2,824	7,856	36,015	1,331	8,617
11	Farm land reported as needing drainage..... acres..	12,437	8,848	4,914	5,669	6,624	13,387	20,637	10,178	13,446
12	Drainage only..... acres..	5,188	1,016	2,294	3,049	2,836	6,653	8,322	1,330	2,295
13	Drainage and clearing..... acres..	7,249	7,832	2,620	2,620	3,788	6,734	12,315	8,848	11,151

		Fulton.	Genesee.	Greene.	Herk-mer.	Jeffer-son.	Lewis.	Living-ston.	Madis-son.	Monroe.
1	Number of all farms in the county.....	1,773	2,885	2,248	2,849	5,151	2,952	2,899	3,597	5,174
2	Farms reporting land having drainage.....	112	511	164	267	368	287	1,199	550	1,594
3	Farms reporting land needing drainage.....	243	501	187	475	798	617	753	697	1,166
4	Farms in drainage and levee districts.....	1	14	3	7	3	3	77	123	62
LAND AND FARM AREA.										
5	Approximate land area of the county..... acres..	330,240	317,440	411,520	933,760	815,360	812,800	403,840	416,000	424,320
6	All land in farms..... acres..	196,260	276,617	282,749	334,277	696,145	437,203	353,170	362,459	350,877
7	Improved land in farms..... acres..	88,858	219,248	164,162	220,825	453,252	233,637	278,622	249,562	315,083
8	Woodland in farms..... acres..	67,032	30,847	88,128	51,012	81,244	100,680	51,978	53,413	31,247
9	Other unimproved land in farms..... acres..	40,370	26,522	30,459	62,440	161,649	112,891	12,870	59,484	13,547
10	Farm land reported as provided with drainage..... acres..	2,145	16,695	2,615	6,514	23,964	7,976	48,784	13,446	45,279
11	Farm land reported as needing drainage..... acres..	4,732	10,619	2,633	8,542	18,260	15,992	17,118	13,578	16,394
12	Drainage only..... acres..	2,494	5,812	1,400	4,863	7,107	4,413	8,818	5,644	7,929
13	Drainage and clearing..... acres..	2,238	4,807	1,233	3,679	11,153	11,579	8,300	7,934	8,465

		Mont-gomery.	Niagara.	Oneida.	Onon-daga.	Ontario.	Orange.	Orleans.	Oswego.	Otsego.
1	Number of all farms in the county.....	2,015	4,068	6,233	5,652	4,062	3,591	2,579	5,539	4,770
2	Farms reporting land having drainage.....	886	1,150	1,174	1,627	2,412	855	622	1,015	278
3	Farms reporting land needing drainage.....	475	470	1,469	1,368	1,684	934	687	1,798	858
4	Farms in drainage and levee districts.....	55	339	25	36	38	9	145	35	18
LAND AND FARM AREA.										
5	Approximate land area of the county..... acres..	254,720	334,080	800,000	499,840	415,360	533,760	253,440	618,240	645,760
6	All land in farms..... acres..	227,035	289,691	611,634	429,881	368,940	350,268	230,877	462,522	573,287
7	Improved land in farms..... acres..	183,348	265,431	379,557	334,712	296,566	230,405	196,664	271,502	388,679
8	Woodland in farms..... acres..	24,120	16,459	97,524	47,135	48,568	59,830	16,772	100,325	117,134
9	Other unimproved land in farms..... acres..	19,569	7,801	134,553	48,034	23,806	59,983	17,441	90,695	67,474
10	Farm land reported as provided with drainage..... acres..	25,721	73,337	24,904	52,239	104,332	18,491	19,937	18,211	3,378
11	Farm land reported as needing drainage..... acres..	6,537	4,685	33,147	21,742	34,609	25,139	12,923	37,145	11,634
12	Drainage only..... acres..	3,910	1,084	15,589	10,747	19,034	8,616	2,265	13,691	6,194
13	Drainage and clearing..... acres..	2,627	3,601	17,558	10,995	15,575	16,523	10,658	23,454	5,440

AGRICULTURE.

COUNTY TABLE I.—DRAINAGE ON FARMS: 1920—Continued.

NEW YORK—Continued.

		Putnam.	Rensselaer.	St. Lawrence.	Saratoga.	Schenectady.	Schoharie.	Schuyler.	Seneca.	Steuben.
1	Number of all farms in the county.....	767	3,078	7,652	3,178	983	2,791	1,639	1,857	6,132
2	Farms reporting land having drainage.....	56	408	838	555	149	150	524	1,473	330
3	Farms reporting land needing drainage.....	213	668	1,876	571	102	314	507	922	992
4	Farms in drainage and levee districts.....	4	6	11	10	1	21	2	14	11
LAND AND FARM AREA.										
5	Approximate land area of the county..... acres..	149,120	424,320	1,728,640	526,720	131,840	410,880	215,040	215,040	894,720
6	All land in farms..... acres..	113,010	307,630	1,047,151	336,846	102,542	344,841	176,002	188,210	759,364
7	Improved land in farms..... acres..	45,675	199,536	486,105	200,961	75,769	234,750	132,932	160,286	527,134
8	Woodland in farms..... acres..	40,864	65,800	188,493	76,013	14,210	66,176	28,163	18,807	158,717
9	Other unimproved land in farms..... acres..	26,471	42,294	372,553	59,872	12,563	43,915	14,907	9,117	73,513
10	Farm land reported as provided with drainage..... acres..	1,319	7,174	44,252	16,970	4,230	2,004	21,557	104,395	6,241
11	Farm land reported as needing drainage..... acres..	4,402	8,461	66,074	10,263	1,427	3,297	9,903	17,360	18,940
12	Drainage only..... acres..	1,583	5,052	19,868	4,294	623	2,013	3,476	7,051	6,751
13	Drainage and clearing..... acres..	2,819	3,409	46,206	5,969	804	1,284	6,427	10,309	12,189

		Tioga.	Tompkins.	Ulster.	Washington.	Wayne.	Westchester.	Wyoming.	Yates.	All other counties. ¹
1	Number of all farms in the county.....	2,541	2,550	4,311	3,334	4,980	1,538	3,165	2,041	10,404
2	Farms reporting land having drainage.....	119	989	400	342	1,824	200	835	1,308	159
3	Farms reporting land needing drainage.....	371	848	693	611	1,196	218	1,185	660	527
4	Farms in drainage and levee districts.....	9	4	7	11	16	2	4	2	8
LAND AND FARM AREA.										
5	Approximate land area of the county..... acres..	332,800	304,640	727,630	535,680	383,360	288,720	384,640	219,520	3,362,560
6	All land in farms..... acres..	281,272	253,781	408,798	434,167	346,205	104,022	349,728	198,613	945,087
7	Improved land in farms..... acres..	194,101	186,967	200,250	298,408	283,888	58,521	231,948	156,956	418,082
8	Woodland in farms..... acres..	53,819	35,592	149,604	92,366	32,471	22,627	58,262	30,081	385,934
9	Other unimproved land in farms..... acres..	23,352	28,222	58,944	43,393	29,846	22,874	59,518	11,576	141,071
10	Farm land reported as provided with drainage..... acres..	1,247	40,170	6,576	7,946	48,570	4,631	29,067	57,538	2,190
11	Farm land reported as needing drainage..... acres..	7,101	13,350	10,929	9,929	19,189	3,950	22,948	14,730	12,029
12	Drainage only..... acres..	3,276	10,589	4,525	5,644	8,356	2,159	9,065	7,286	3,996
13	Drainage and clearing..... acres..	3,825	7,781	6,404	4,285	10,833	1,791	13,883	7,444	8,033

¹ No drainage on farms reported in New York County.

OKLAHOMA.

		THE STATE.	Beaver.	Canadian.	Cherokee.	Cleveland.	Delaware.	Garvin.	Grady.
1	Number of all farms in the state or county.....	191,988	2,518	2,269	2,753	2,216	2,176	3,823	3,484
2	Farms reporting land having drainage.....	2,032	1	33	345	20	43	35	16
3	Farms reporting land needing drainage.....	8,065	3	31	341	19	127	93	9
4	Farms in drainage and levee districts.....	834	1	23	1	13	.....	7	8
LAND AND FARM AREA.									
5	Approximate land area of the state or county..... acres..	44,424,960	1,160,320	570,240	506,240	354,560	508,160	525,440	711,680
6	All land in farms..... acres..	31,951,934	1,099,058	481,675	221,658	200,397	251,671	437,827	573,272
7	Improved land in farms..... acres..	18,125,321	508,103	349,052	121,463	171,483	138,207	283,454	388,763
8	Woodland in farms..... acres..	4,206,171	6,653	27,503	78,848	78,698	104,662	81,976	75,765
9	Other unimproved land in farms..... acres..	9,620,442	584,302	105,120	21,347	55,216	8,802	72,397	108,744
10	Farm land reported as provided with drainage..... acres..	107,014	900	2,391	608	766	4,757	1,650	1,292
11	Farm land reported as needing drainage..... acres..	265,786	320	1,320	7,928	432	2,553	2,900	578
12	Drainage only..... acres..	39,788	.....	763	1,023	70	385	287	408
13	Drainage and clearing..... acres..	225,998	320	557	6,905	362	2,168	2,613	170

		Grant.	Johnston.	Kay.	Kingfisher.	Kiowa.	Le Flore.	Lincoln.	McCurtain.
1	Number of all farms in the county.....	2,713	2,385	2,595	2,463	2,880	4,631	4,545	4,511
2	Farms reporting land having drainage.....	19	25	22	8	19	78	191	25
3	Farms reporting land needing drainage.....	5	192	31	140	29	725	167	734
4	Farms in drainage and levee districts.....	18	22	15	12	6	3	170	6
LAND AND FARM AREA.									
5	Approximate land area of the county..... acres..	636,160	421,120	597,760	569,600	679,680	1,032,960	613,760	1,214,060
6	All land in farms..... acres..	618,972	313,083	554,326	501,691	578,366	843,661	561,515	313,018
7	Improved land in farms..... acres..	460,851	180,231	403,131	352,854	348,026	203,877	308,742	160,877
8	Woodland in farms..... acres..	6,522	81,588	16,593	48,053	6,896	115,356	167,282	142,632
9	Other unimproved land in farms..... acres..	151,599	81,264	134,602	100,784	223,444	24,428	85,491	9,509
10	Farm land reported as provided with drainage..... acres..	1,123	1,102	989	1,121	590	1,728	12,316	537
11	Farm land reported as needing drainage..... acres..	172	9,688	2,020	6,316	2,129	22,271	5,317	21,139
12	Drainage only..... acres..	172	175	1,010	916	1,774	896	985	903
13	Drainage and clearing..... acres..	.....	9,513	1,010	5,400	355	21,375	4,332	20,236

DRAINAGE.

COUNTY TABLE I.—DRAINAGE ON FARMS: 1920—Continued.

OKLAHOMA—Continued.

		McIntosh.	Mayes.	Murray.	Muskogee.	Oklfuskee.	Oklahoma.	Oklmulgee.	Osage.	Pittsburg.
1	Number of all farms in the county.....	3,449	2,223	1,189	3,531	3,416	2,960	1,865	1,380	3,817
2	Farms reporting land having drainage.....	87	9	16	26	143	63	10	41	65
3	Farms reporting land needing drainage.....	60	245	7	111	178	160	26	13	212
4	Farms in drainage and levee districts.....			1	8		45	1	1	
LAND AND FARM AREA.										
5	Approximate land area of the county.....acres..	453,120	432,640	271,360	520,960	398,720	458,880	446,080	1,457,280	876,800
6	All land in farms.....acres..	303,754	282,725	198,956	347,884	328,951	402,543	209,062	542,923	446,555
7	Improved land in farms.....acres..	223,944	196,018	82,993	260,461	207,651	234,639	126,854	177,031	214,208
8	Woodland in farms.....acres..	53,439	46,484	23,884	42,078	79,702	121,730	39,723	128,407	155,838
9	Other unimproved land in farms.....acres..	26,371	40,223	92,079	45,345	41,598	46,174	42,485	237,485	76,509
10	Farm land reported as provided with drainage.....acres..	1,785	544	1,056	882	1,607	2,963	785	26,685	8,685
11	Farm land reported as needing drainage.....acres..	1,554	7,450	355	3,297	4,954	5,154	779	385	12,222
12	Drainage only.....acres..	105	2,311	200	1,735	619	1,659	71	60	1,743
13	Drainage and clearing.....acres..	1,449	5,139	155	1,562	4,335	3,495	708	325	10,479

		Pontotoc.	Pottawatomie.	Seminole.	Sequoyah.	Tillman.	Tulsa.	Wagoner.	All other counties. ¹
1	Number of all farms in the county.....	3,057	4,531	3,507	3,540	2,269	1,625	2,453	100,914
2	Farms reporting land having drainage.....	14	350	55	21	8	8	38	198
3	Farms reporting land needing drainage.....	180	380	247	176	4	54	82	3,284
4	Farms in drainage and levee districts.....		318	27	42	4	3	44	35
LAND AND FARM AREA.									
5	Approximate land area of the county.....acres..	465,920	507,520	405,120	443,520	544,000	374,400	348,800	25,918,080
6	All land in farms.....acres..	318,162	453,270	300,470	237,144	450,084	223,367	281,506	19,474,328
7	Improved land in farms.....acres..	193,780	275,329	182,027	108,847	326,196	162,706	205,565	10,537,958
8	Woodland in farms.....acres..	74,010	125,096	110,603	59,532	8,187	30,796	35,268	2,037,317
9	Other unimproved land in farms.....acres..	50,372	52,845	7,840	8,715	116,701	29,865	40,733	6,899,053
10	Farm land reported as provided with drainage.....acres..	600	15,023	1,498	1,122	672	533	4,903	5,801
11	Farm land reported as needing drainage.....acres..	5,184	10,888	5,328	5,313	235	1,583	2,484	113,538
12	Drainage only.....acres..	122	1,865	715	1,793	185	518	206	16,054
13	Drainage and clearing.....acres..	5,062	9,023	4,613	3,520	50	1,065	2,218	97,484

¹ No drainage on farms reported in Blaine, Cimarron, Jefferson, Love, and Pawnee Counties.

OREGON.

		THE STATE.	Baker.	Benton.	Clackamas.	Clatsop.	Columbia.	Coos.	Curry.	Douglas.	Grant.
1	Number of all farms in the state or county.....	50,206	1,509	1,320	3,836	448	991	1,178	339	2,275	728
2	Farms reporting land having drainage.....	6,618	42	192	806	59	129	411	15	193	24
3	Farms reporting land needing drainage.....	9,862	202	182	1,217	160	366	570	26	358	162
4	Farms in drainage and levee districts.....	573	3	4	6	37	23	68	1	12	6
LAND AND FARM AREA.											
5	Approximate land area of the state or county.....acres..	61,188,480	1,975,040	440,320	1,195,520	525,440	423,680	1,041,920	1,031,680	3,194,240	2,892,800
6	All land in farms.....acres..	13,542,318	493,145	233,427	285,970	52,017	89,889	208,665	103,057	566,305	750,160
7	Improved land in farms.....acres..	4,913,851	163,317	103,175	118,658	14,179	22,182	36,530	16,655	136,553	74,729
8	Woodland in farms.....acres..	2,309,596	47,464	75,235	86,035	22,839	39,312	89,649	36,853	271,414	82,480
9	Other unimproved land in farms.....acres..	6,318,871	282,364	55,017	81,217	14,999	28,395	80,386	49,749	158,338	592,951
10	Farm land reported as provided with drainage.....acres..	229,582	1,027	8,033	14,133	1,880	1,941	10,679	544	5,176	824
11	Farm land reported as needing drainage.....acres..	471,396	6,535	13,316	43,683	9,903	18,958	31,745	1,928	17,302	6,791
12	Drainage only.....acres..	75,063	1,355	2,416	1,748	1,201	2,945	3,457	156	1,686	411
13	Drainage and clearing.....acres..	396,333	5,180	10,900	41,935	8,702	16,013	28,288	1,772	15,616	6,380

		Harney.	Hood River.	Jackson.	Josephine.	Klamath.	Lake.	Lane.	Lincoln.	Linn.	Malheur.
1	Number of all farms in the county.....	599	878	1,720	727	992	549	3,279	767	3,041	1,322
2	Farms reporting land having drainage.....	10	177	125	85	123	2	417	43	331	79
3	Farms reporting land needing drainage.....	41	96	273	194	141	39	1,137	95	946	14
4	Farms in drainage and levee districts.....	11	1	12	5	96	6	9	5	16	55
LAND AND FARM AREA.											
5	Approximate land area of the county.....acres..	6,357,120	345,600	1,788,160	1,047,680	3,839,360	5,068,800	2,935,680	645,120	1,445,120	6,325,120
6	All land in farms.....acres..	524,678	38,075	312,936	97,299	357,833	526,218	496,917	118,758	472,469	465,851
7	Improved land in farms.....acres..	178,934	19,664	92,310	29,537	152,742	183,396	172,952	19,946	253,591	129,365
8	Woodland in farms.....acres..	20,689	9,541	113,445	55,804	58,792	65,849	157,323	60,175	115,064	6,232
9	Other unimproved land in farms.....acres..	327,055	8,870	107,181	11,958	147,799	276,973	166,642	38,637	98,814	330,254
10	Farm land reported as provided with drainage.....acres..	10,397	1,431	2,643	1,528	13,764	28,100	11,834	933	13,403	7,327
11	Farm land reported as needing drainage.....acres..	11,680	2,021	12,269	10,889	11,888	18,489	57,190	3,815	47,245	288
12	Drainage only.....acres..	1,523	146	188	1,408	8,661	10,167	10,967	281	9,472	77
13	Drainage and clearing.....acres..	10,157	1,875	12,081	9,461	3,227	8,322	46,223	3,534	37,773	211

AGRICULTURE.

COUNTY TABLE I.—DRAINAGE ON FARMS: 1920—Continued.

OREGON—Continued.

	Marion.	Multnomah.	Polk.	Tillamook.	Umatilla.	Union.	Wallowa.	Washington.	Yamhill.	All other counties. ¹
1 Number of all farms in the county.....	3,681	1,828	1,761	797	2,353	1,279	1,149	3,090	2,592	5,188
2 Farms reporting land having drainage.....	882	163	401	111	77	54	29	1,153	462	23
3 Farms reporting land needing drainage.....	776	201	580	303	89	71	83	926	542	72
4 Farms in drainage and levee districts.....	62	8	11	32	30	21	3	24	2	4
LAND AND FARM AREA.										
5 Approximate land area of the county..... acres.....	763,520	277,760	453,760	720,000	2,049,920	1,284,480	2,028,160	467,840	456,960	10,167,680
6 All land in farms..... acres.....	367,788	100,495	239,621	91,827	1,075,400	441,735	524,029	223,406	256,184	4,030,824
7 Improved land in farms..... acres.....	214,653	46,148	137,949	26,663	621,660	178,021	141,404	121,325	139,025	1,365,588
8 Woodland in farms..... acres.....	95,130	23,653	75,002	40,491	90,490	83,975	78,765	65,439	73,025	271,631
9 Other unimproved land in farms..... acres.....	58,005	30,694	26,670	24,673	363,250	179,739	303,860	36,642	44,134	2,393,605
10 Farm land reported as provided with drainage..... acres.....	27,030	5,127	13,134	2,012	1,267	4,179	919	26,419	13,330	568
11 Farm land reported as needing drainage..... acres.....	28,223	10,300	33,494	11,996	2,836	2,572	2,223	26,258	24,113	3,466
12 Drainage only..... acres.....	4,429	2,529	3,139	1,497	393	712	740	2,178	941	240
13 Drainage and clearing..... acres.....	23,794	7,771	30,355	10,499	2,443	1,860	1,483	24,080	23,172	3,226

¹ No drainage on farms reported in Sherman County.

PENNSYLVANIA.

	THE STATE.	Adams.	Allegheny.	Armstrong.	Beaver.	Bedford.	Berks.	Bradford.
1 Number of all farms in the state or county.....	202,250	3,451	3,972	3,771	2,514	3,462	6,089	5,290
2 Farms reporting land having drainage.....	22,750	711	224	105	54	430	196	565
3 Farms reporting land needing drainage.....	27,265	455	207	40	35	980	296	194
4 Farms in drainage and levee districts.....	238	1	7	-----	-----	1	1	3
LAND AND FARM AREA.								
5 Approximate land area of the state or county..... acres.....	28,692,480	337,920	464,000	417,920	274,560	656,640	553,600	732,800
6 All land in farms..... acres.....	17,657,513	270,163	252,553	323,873	219,813	459,841	427,053	610,361
7 Improved land in farms..... acres.....	11,847,719	218,288	192,113	241,601	158,318	283,128	354,810	440,164
8 Woodland in farms..... acres.....	4,043,902	43,599	37,166	59,363	38,487	178,904	47,686	122,212
9 Other unimproved land in farms..... acres.....	1,765,892	17,276	23,274	22,914	23,008	27,809	24,557	47,985
10 Farm land reported as provided with drainage..... acres.....	318,955	8,048	4,257	1,157	700	4,729	1,471	6,940
11 Farm land reported as needing drainage..... acres.....	554,690	5,104	3,176	673	630	29,810	2,263	2,553
12 Drainage only..... acres.....	157,852	2,036	1,108	653	383	5,199	1,390	2,422
13 Drainage and clearing..... acres.....	396,838	3,068	2,068	20	247	24,611	873	131

	Bucks.	Butler.	Cambria.	Centre.	Chester.	Clarion.	Clearfield.	Clinton.
1 Number of all farms in the county.....	5,714	5,274	2,398	2,295	5,508	2,931	3,158	1,065
2 Farms reporting land having drainage.....	373	1,000	304	281	483	737	61	115
3 Farms reporting land needing drainage.....	353	1,290	450	446	627	626	31	151
4 Farms in drainage and levee districts.....	6	2	10	6	24	3	-----	4
LAND AND FARM AREA.								
5 Approximate land area of the county..... acres.....	389,120	505,600	458,880	733,440	497,280	384,640	730,880	561,920
6 All land in farms..... acres.....	332,530	410,555	198,544	268,250	424,016	272,426	238,778	115,370
7 Improved land in farms..... acres.....	274,302	295,634	114,841	175,301	343,785	179,881	137,224	60,472
8 Woodland in farms..... acres.....	38,501	78,710	58,676	75,573	52,471	68,052	80,754	48,636
9 Other unimproved land in farms..... acres.....	19,727	36,211	25,027	17,376	27,760	24,493	20,800	6,262
10 Farm land reported as provided with drainage..... acres.....	4,313	12,844	3,134	3,375	3,976	12,225	544	1,288
11 Farm land reported as needing drainage..... acres.....	3,222	22,504	11,401	7,349	6,506	12,191	294	2,349
12 Drainage only..... acres.....	1,466	7,910	2,302	3,353	3,024	4,031	289	695
13 Drainage and clearing..... acres.....	1,756	14,594	9,099	3,996	3,482	8,160	5	1,654

	Columbia.	Crawford.	Cumberland.	Dauphin.	Delaware.	Elk.	Erie.	Fayette.
1 Number of all farms in the county.....	2,603	6,521	3,115	2,517	1,287	856	5,485	3,267
2 Farms reporting land having drainage.....	507	1,263	181	269	88	59	1,253	378
3 Farms reporting land needing drainage.....	592	1,739	132	310	183	139	1,287	332
4 Farms in drainage and levee districts.....	4	-----	11	2	6	2	50	-----
LAND AND FARM AREA.								
5 Approximate land area of the county..... acres.....	306,560	664,320	337,920	334,080	118,400	515,840	499,840	509,440
6 All land in farms..... acres.....	216,060	569,444	264,097	217,785	75,835	65,470	438,524	281,984
7 Improved land in farms..... acres.....	156,636	341,133	222,060	170,213	59,580	28,773	255,597	179,393
8 Woodland in farms..... acres.....	51,342	118,658	28,147	37,827	9,908	20,603	75,265	76,008
9 Other unimproved land in farms..... acres.....	8,082	109,653	13,800	9,745	6,347	16,094	107,662	26,588
10 Farm land reported as provided with drainage..... acres.....	6,080	18,042	1,991	2,066	780	586	26,741	5,845
11 Farm land reported as needing drainage..... acres.....	11,405	42,728	1,341	2,935	2,457	4,971	29,983	5,929
12 Drainage only..... acres.....	1,903	10,245	1,061	964	1,259	1,190	8,214	2,029
13 Drainage and clearing..... acres.....	9,502	32,483	280	1,971	1,198	3,781	21,769	3,900

DRAINAGE.

723

COUNTY TABLE I.—DRAINAGE ON FARMS: 1920—Continued.

PENNSYLVANIA—Continued.

		Franklin.	Fulton.	Greene.	Huntingdon.	Indiana.	Jefferson.	Juniata.	Lackawanna.
1	Number of all farms in the county.....	3,884	1,350	3,168	2,111	3,935	2,947	1,572	1,698
2	Farms reporting land having drainage.....	314	45	99	251	806	499	181	152
3	Farms reporting land needing drainage.....	231	339	226	519	1,069	663	270	502
4	Farms in drainage and levee districts.....	2	1		14	6	1		5
LAND AND FARM AREA.									
5	Approximate land area of the county..... acres..	480,640	257,920	367,360	587,520	530,560	426,240	250,880	288,640
6	All land in farms..... acres..	404,506	185,169	348,940	325,840	392,939	243,716	172,102	134,486
7	Improved land in farms..... acres..	288,460	100,566	300,840	172,682	277,956	154,062	99,739	63,460
8	Woodland in farms..... acres..	78,495	76,457	37,993	127,424	90,112	66,203	64,257	30,266
9	Other unimproved land in farms..... acres..	39,551	8,146	10,107	25,734	24,871	23,451	8,106	40,760
10	Farm land reported as provided with drainage..... acres..	2,942	611	1,444	2,825	12,855	5,937	1,736	1,544
11	Farm land reported as needing drainage..... acres..	3,559	10,019	4,695	11,255	21,108	15,890	4,119	9,648
12	Drainage only..... acres..	2,165	872	1,147	3,187	5,064	3,482	946	1,578
13	Drainage and clearing..... acres..	1,394	9,147	3,548	8,068	16,044	12,408	3,173	8,070

		Lancaster.	Lawrence.	Lebanon.	Lehigh.	Luzerne.	Lycoming.	McKean.	Mercer.	Mifflin.
1	Number of all farms in the county.....	11,307	2,464	2,372	2,959	2,965	3,273	1,580	4,499	1,108
2	Farms reporting land having drainage.....	175	863	211	126	304	552	94	2,277	176
3	Farms reporting land needing drainage.....	276	479	165	221	552	830	315	1,835	186
4	Farms in drainage and levee districts.....	3		1		1	6	1	4	
LAND AND FARM AREA.										
5	Approximate land area of the county..... acres..	602,240	230,400	230,400	220,160	570,680	780,800	631,680	448,000	254,720
6	All land in farms..... acres..	554,776	186,097	166,087	180,397	222,448	329,825	152,340	378,460	130,971
7	Improved land in farms..... acres..	469,662	131,685	142,532	154,456	127,471	198,081	67,409	245,636	87,695
8	Woodland in farms..... acres..	48,417	23,047	13,295	16,868	70,949	112,094	43,035	62,048	34,261
9	Other unimproved land in farms..... acres..	36,697	31,365	10,260	9,073	24,028	19,650	41,896	70,776	9,015
10	Farm land reported as provided with drainage..... acres..	1,072	19,496	1,980	577	3,089	5,146	936	45,719	1,713
11	Farm land reported as needing drainage..... acres..	2,009	8,853	1,424	1,467	10,231	13,364	11,905	40,226	2,021
12	Drainage only..... acres..	743	6,509	644	643	2,749	2,944	990	20,028	791
13	Drainage and clearing..... acres..	1,266	2,344	780	824	7,482	10,420	10,915	20,198	1,230

		Montgomery.	Montour.	Northumberland.	Perry.	Schuylkill.	Snyder.	Somerset.	Sullivan.	Susquehanna.
1	Number of all farms in the county.....	4,840	774	2,589	2,105	2,813	1,753	3,630	836	3,526
2	Farms reporting land having drainage.....	216	288	621	308	229	450	1,056	71	40
3	Farms reporting land needing drainage.....	287	189	472	343	109	194	1,140	225	192
4	Farms in drainage and levee districts.....	4	1	1	1		4	4	2	
LAND AND FARM AREA.										
5	Approximate land area of the county..... acres..	309,760	83,200	290,560	360,960	497,280	199,040	661,760	293,120	527,360
6	All land in farms..... acres..	244,933	76,036	211,533	231,315	209,949	147,397	444,148	87,151	446,229
7	Improved land in farms..... acres..	212,124	59,539	163,368	139,864	138,592	108,741	234,798	35,609	270,661
8	Woodland in farms..... acres..	19,563	13,093	41,198	79,978	59,044	34,398	166,798	28,011	113,857
9	Other unimproved land in farms..... acres..	13,246	3,404	6,967	11,473	12,313	4,258	42,552	23,441	52,411
10	Farm land reported as provided with drainage..... acres..	2,407	7,901	7,027	2,815	1,700	5,023	16,783	666	968
11	Farm land reported as needing drainage..... acres..	2,889	3,108	6,130	3,639	980	1,589	29,098	8,404	2,599
12	Drainage only..... acres..	1,513	993	1,705	959	496	659	8,083	630	1,289
13	Drainage and clearing..... acres..	1,376	2,115	4,425	2,680	484	980	21,015	7,774	1,310

		Tioga.	Union.	Venango.	Warren.	Washington.	Westmoreland.	Wyoming.	York.	All other counties. ¹
1	Number of all farms in the county.....	3,702	1,411	2,369	2,353	4,482	5,593	1,543	7,818	14,378
2	Farms reporting land having drainage.....	193	334	455	154	276	483	58	467	288
3	Farms reporting land needing drainage.....	732	185	417	440	410	467	232	519	1,139
4	Farms in drainage and levee districts.....	3	1	2	3	7	3		2	12
LAND AND FARM AREA.										
5	Approximate land area of the county..... acres..	730,880	195,200	423,040	577,280	551,680	664,060	254,080	577,920	3,349,760
6	All land in farms..... acres..	449,428	109,370	218,872	226,485	472,460	486,160	160,859	513,789	1,449,970
7	Improved land in farms..... acres..	282,419	86,243	127,723	102,675	399,630	351,862	94,977	414,595	679,270
8	Woodland in farms..... acres..	105,129	18,586	67,323	87,371	45,346	91,945	42,831	77,355	512,312
9	Other unimproved land in farms..... acres..	61,880	4,541	23,826	36,439	27,484	42,353	23,051	21,839	258,388
10	Farm land reported as provided with drainage..... acres..	2,321	4,427	7,050	2,131	2,968	8,400	583	2,743	2,288
11	Farm land reported as needing drainage..... acres..	17,693	2,687	12,685	14,771	6,896	7,927	3,464	4,133	42,431
12	Drainage only..... acres..	4,894	981	5,626	1,423	1,281	2,799	1,050	1,473	4,390
13	Drainage and clearing..... acres..	12,799	1,706	7,059	13,348	5,615	5,128	2,414	2,660	38,041

¹ Drainage on farms was reported in all counties in Pennsylvania.

AGRICULTURE.

COUNTY TABLE I.—DRAINAGE ON FARMS: 1920—Continued.

RHODE ISLAND.

	THE STATE.	Newport.	Providence.	All other counties. ¹
1 Number of all farms in the state or county.....	4,083	823	1,639	1,621
2 Farms reporting land having drainage.....	116	28	52	86
3 Farms reporting land needing drainage.....	359	69	131	159
4 Farms in drainage and levee districts.....	2	1	.....	1
LAND AND FARM AREA.				
5 Approximate land area of the state or county.....acres..	682,880	72,960	275,200	334,720
6 All land in farms.....acres..	331,600	42,639	122,825	166,136
7 Improved land in farms.....acres..	132,855	29,794	41,646	61,415
8 Woodland in farms.....acres..	130,462	7,412	50,489	72,561
9 Other unimproved land in farms.....acres..	68,283	5,433	30,690	32,160
10 Farm land reported as provided with drainage.....acres..	2,403	607	1,233	563
11 Farm land reported as needing drainage.....acres..	8,174	1,430	2,810	3,934
12 Drainage only.....acres..	2,240	504	889	757
13 Drainage and clearing.....acres..	5,934	836	1,921	3,177

¹ Drainage on farms was reported in all counties in Rhode Island.

VERMONT.

	THE STATE.	Addison.	Bennington.	Caledonia.	Chittenden.	Franklin.	Grand Isle.
1 Number of all farms in the state or county.....	29,075	2,375	1,366	2,313	1,992	2,444	501
2 Farms reporting land having drainage.....	1,728	124	63	89	104	261	160
3 Farms reporting land needing drainage.....	3,042	137	112	191	120	392	138
4 Farms in drainage and levee districts.....	35	6	1	1	7	1	5
LAND AND FARM AREA.							
5 Approximate land area of the state or county.....acres..	5,839,360	483,840	423,040	395,520	347,520	417,280	53,120
6 All land in farms.....acres..	4,235,811	373,122	207,234	339,548	280,868	359,249	48,013
7 Improved land in farms.....acres..	1,691,595	217,796	81,691	129,997	140,453	150,287	33,141
8 Woodland in farms.....acres..	1,428,309	93,250	77,291	118,514	71,075	97,788	7,598
9 Other unimproved land in farms.....acres..	1,115,907	62,076	48,252	91,037	69,340	111,174	7,274
10 Farm land reported as provided with drainage.....acres..	35,649	5,377	2,309	1,122	1,943	6,221	6,696
11 Farm land reported as needing drainage.....acres..	68,912	4,342	1,808	3,377	3,482	13,286	3,328
12 Drainage only.....acres..	19,265	1,297	949	1,218	1,625	2,295	1,950
13 Drainage and clearing.....acres..	49,647	3,045	949	2,159	1,857	10,991	1,378

	Orange.	Orleans.	Rutland.	Washington.	Windham.	Windsor.	All other counties. ¹
1 Number of all farms in the county.....	2,687	2,543	2,649	2,564	2,103	3,268	2,270
2 Farms reporting land having drainage.....	103	166	212	79	121	182	64
3 Farms reporting land needing drainage.....	414	272	263	260	211	288	244
4 Farms in drainage and levee districts.....	.....	1	4	2	.....	1	6
LAND AND FARM AREA.							
5 Approximate land area of the county.....acres..	432,640	440,320	583,040	460,160	508,800	606,720	687,360
6 All land in farms.....acres..	376,431	368,105	436,558	316,799	331,638	467,601	328,645
7 Improved land in farms.....acres..	123,999	173,646	165,368	106,639	96,904	159,310	112,364
8 Woodland in farms.....acres..	126,413	120,399	148,339	115,989	137,629	106,750	147,274
9 Other unimproved land in farms.....acres..	128,019	74,060	122,851	94,171	97,105	141,541	69,007
10 Farm land reported as provided with drainage.....acres..	1,858	2,080	3,661	765	1,179	1,936	502
11 Farm land reported as needing drainage.....acres..	8,790	6,784	4,682	5,801	3,991	2,953	6,198
12 Drainage only.....acres..	2,582	1,172	1,489	781	956	1,684	1,267
13 Drainage and clearing.....acres..	6,208	5,612	3,193	5,020	3,035	1,269	4,931

¹ Drainage on farms was reported in all counties in Vermont.

VIRGINIA.

	THE STATE.	Accomac.	Albemarle.	Alleghany.	Appomattox.	Augusta.	Bedford.	Bland.
1 Number of all farms in the state or county.....	186,242	3,206	3,165	621	1,329	3,769	4,245	778
2 Farms reporting land having drainage.....	9,899	832	197	20	58	102	71	51
3 Farms reporting land needing drainage.....	27,740	97	406	20	107	279	380	348
4 Farms in drainage and levee districts.....	140	1	23	3	.....	.....	.....	8
LAND AND FARM AREA.								
5 Approximate land area of the state or county.....acres..	25,767,680	321,280	478,080	292,480	218,880	641,920	506,240	230,400
6 All land in farms.....acres..	18,561,112	156,788	388,941	95,795	109,239	415,425	420,455	121,726
7 Improved land in farms.....acres..	9,460,492	79,397	215,850	31,643	72,668	290,401	231,813	61,457
8 Woodland in farms.....acres..	7,907,352	70,506	150,333	62,357	84,197	104,164	185,099	57,914
9 Other unimproved land in farms.....acres..	1,193,268	6,885	22,728	1,795	12,374	11,870	32,943	2,365
10 Farm land reported as provided with drainage.....acres..	225,065	16,447	3,636	540	564	2,817	1,404	536
11 Farm land reported as needing drainage.....acres..	1,172,580	1,271	15,135	458	7,763	4,347	6,252	19,380
12 Drainage only.....acres..	77,192	209	483	294	813	811	536	1,062
13 Drainage and clearing.....acres..	1,095,388	1,062	14,652	164	6,950	3,536	8,716	18,268

DRAINAGE.

725

COUNTY TABLE I.—DRAINAGE ON FARMS: 1920—Continued.

VIRGINIA—Continued.

		Botetourt.	Brunswick.	Buckingham.	Campbell.	Caroline.	Carroll.	Charles City.	Charlotte.
1	Number of all farms in the county.....	1,666	2,842	2,273	2,686	2,595	3,569	614	2,762
2	Farms reporting land having drainage.....	53	107	67	142	17	193	14	22
3	Farms reporting land needing drainage.....	14	471	323	482	726	992	105	162
4	Farms in drainage and levee districts.....	1				6	1		
LAND AND FARM AREA.									
5	Approximate land area of the county..... acres..	350,720	356,480	373,760	353,280	338,560	293,120	120,320	317,440
6	All land in farms..... acres..	187,137	266,010	263,225	275,677	267,444	278,624	73,811	265,114
7	Improved land in farms..... acres..	107,356	103,629	98,669	117,023	101,509	173,407	28,615	100,038
8	Woodland in farms..... acres..	75,180	151,150	151,108	131,978	119,338	96,463	40,559	140,617
9	Other unimproved land in farms..... acres..	4,601	11,231	13,448	26,676	46,597	8,754	4,637	24,459
10	Farm land reported as provided with drainage..... acres..	1,063	2,046	1,275	1,273	503	1,594	1,821	716
11	Farm land reported as needing drainage..... acres..	175	27,662	20,404	13,764	30,504	23,369	5,871	4,176
12	Drainage only..... acres..	131	1,528	490	1,335	2,440	1,041	420	1,159
13	Drainage and clearing..... acres..	45	26,134	19,914	12,429	28,364	22,328	5,451	3,017

		Chesterfield.	Culpeper.	Cumberland.	Dinwiddie.	Elizabeth City.	Fairfax.	Fauquier.	Fluvanna.
1	Number of all farms in the county.....	1,827	1,719	1,314	2,165	297	2,253	2,640	1,419
2	Farms reporting land having drainage.....	48	69	30	28	243	65	123	40
3	Farms reporting land needing drainage.....	396	111	496	85	99	128	161	233
4	Farms in drainage and levee districts.....						1		5
LAND AND FARM AREA.									
5	Approximate land area of the county..... acres..	299,520	245,760	187,520	331,520	34,500	266,880	426,240	182,400
6	All land in farms..... acres..	172,064	209,549	160,399	226,436	15,665	174,183	379,779	151,807
7	Improved land in farms..... acres..	59,279	147,839	66,822	71,860	9,616	102,238	279,563	58,087
8	Woodland in farms..... acres..	101,888	59,298	77,330	132,765	4,461	65,887	92,397	79,436
9	Other unimproved land in farms..... acres..	10,897	2,412	16,247	21,811	1,588	6,498	7,819	14,284
10	Farm land reported as provided with drainage..... acres..	2,168	1,804	604	533	7,337	799	6,859	1,067
11	Farm land reported as needing drainage..... acres..	28,782	4,064	32,890	3,841	2,051	2,730	8,695	14,852
12	Drainage only..... acres..	930	945	910	246	448	209	3,967	3,747
13	Drainage and clearing..... acres..	27,832	3,119	31,980	3,595	1,603	2,401	4,728	14,105

		Franklin.	Gloucester.	Goosland.	Grayson.	Greene.	Halifax.	Hanover.	Henrico.
1	Number of all farms in the county.....	4,205	1,811	1,349	2,625	834	5,745	2,647	1,666
2	Farms reporting land having drainage.....	190	22	61	301	125	30	101	69
3	Farms reporting land needing drainage.....	1,553	39	482	1,109	143	1,022	903	168
4	Farms in drainage and levee districts.....	6	1	9	6			4	4
LAND AND FARM AREA.									
5	Approximate land area of the county..... acres..	446,080	142,720	183,680	272,000	99,200	520,960	327,680	163,840
6	All land in farms..... acres..	398,845	92,395	141,039	249,896	82,153	485,726	243,999	114,009
7	Improved land in farms..... acres..	171,445	45,008	60,035	163,973	47,165	226,807	108,034	55,917
8	Woodland in farms..... acres..	180,445	43,749	66,355	80,742	28,528	223,251	117,324	51,510
9	Other unimproved land in farms..... acres..	46,955	3,638	14,649	5,181	6,460	35,658	18,641	6,582
10	Farm land reported as provided with drainage..... acres..	1,325	813	2,233	2,844	2,116	1,328	1,975	2,332
11	Farm land reported as needing drainage..... acres..	48,889	484	23,001	32,458	3,277	37,980	32,912	5,254
12	Drainage only..... acres..	1,514	131	326	449	209	3,840	1,751	1,845
13	Drainage and clearing..... acres..	47,375	353	22,675	32,009	3,068	34,140	31,161	3,409

		Highland.	Isle of Wight.	Lancaster.	Loudoun.	Madison.	Mathews.	Mecklenburg.	Nansemond.
1	Number of all farms in the county.....	744	1,779	1,256	1,962	1,354	1,385	4,376	2,133
2	Farms reporting land having drainage.....	58	293	13	94	107	599	341	145
3	Farms reporting land needing drainage.....	152	411	24	293	193	406	380	291
4	Farms in drainage and levee districts.....				7		1		4
LAND AND FARM AREA.									
5	Approximate land area of the county..... acres..	270,080	200,960	83,200	332,160	207,360	60,160	428,160	269,440
6	All land in farms..... acres..	197,484	152,307	57,923	305,906	170,235	40,091	368,262	165,936
7	Improved land in farms..... acres..	82,439	68,968	27,880	247,673	107,525	23,352	162,251	70,558
8	Woodland in farms..... acres..	87,366	67,732	26,651	54,095	57,368	14,581	189,224	89,737
9	Other unimproved land in farms..... acres..	27,679	20,607	3,392	4,138	5,342	2,158	16,787	5,641
10	Farm land reported as provided with drainage..... acres..	1,128	4,585	682	1,990	2,481	11,430	5,787	3,683
11	Farm land reported as needing drainage..... acres..	5,693	11,896	2,369	12,138	5,829	7,704	12,523	14,930
12	Drainage only..... acres..	402	638	215	1,049	343	3,045	1,044	442
13	Drainage and clearing..... acres..	5,291	11,258	2,154	11,089	5,486	4,659	11,479	14,488

AGRICULTURE.

COUNTY TABLE I.—DRAINAGE ON FARMS: 1920—Continued.

VIRGINIA—Continued.

	Nelson.	Norfolk.	Northampton.	Northumberland.	Nottoway.	Orange.	Page.	Patriok.
1 Number of all farms in the county.....	2,065	1,316	1,250	1,534	1,058	1,394	1,280	2,844
2 Farms reporting land having drainage.....	85	890	140	60	73	142	61	60
3 Farms reporting land needing drainage.....	78	463	201	96	255	81	49	86
4 Farms in drainage and levee districts.....	1	4	.....	1	1	2	.....	.....
LAND AND FARM AREA.								
5 Approximate land area of the county.....acres..	302,720	257,280	152,960	131,200	198,400	229,760	206,080	310,400
6 All land in farms.....acres..	240,442	103,211	82,892	92,532	126,407	177,155	133,103	252,812
7 Improved land in farms.....acres..	99,543	62,547	47,998	46,164	37,834	106,273	73,017	97,782
8 Woodland in farms.....acres..	117,730	32,465	28,901	39,836	70,585	63,039	50,461	126,767
9 Other unimproved land in farms.....acres..	23,169	8,199	5,993	6,532	17,988	7,843	9,625	28,263
10 Farm land reported as provided with drainage.....acres..	831	44,492	3,516	1,389	1,811	2,643	616	592
11 Farm land reported as needing drainage.....acres..	448	20,329	5,103	1,555	12,553	3,305	478	414
12 Drainage only.....acres..	241	1,626	1,489	224	1,578	862	369	187
13 Drainage and clearing.....acres..	207	18,703	3,614	1,331	10,975	2,443	109	227

	Pittsylvania.	Powhatan.	Prince Edward.	Prince George.	Prince William.	Princess Anne.	Roanoke.	Russell.	Scott.
1 Number of all farms in the county.....	7,025	1,048	1,843	1,014	1,271	1,317	1,631	2,557	3,696
2 Farms reporting land having drainage.....	97	39	60	162	67	540	62	41	70
3 Farms reporting land needing drainage.....	959	539	126	198	498	194	43	59	387
4 Farms in drainage and levee districts.....	1	4	1	.....	.....	.....	.....	2	.....
LAND AND FARM AREA.									
5 Approximate land area of the county.....acres..	647,680	174,720	227,840	188,032	220,800	178,560	189,440	317,440	347,520
6 All land in farms.....acres..	532,496	125,641	177,522	119,895	162,245	94,544	130,089	292,535	279,536
7 Improved land in farms.....acres..	269,741	47,117	71,373	53,315	97,592	60,325	75,338	196,709	164,058
8 Woodland in farms.....acres..	267,717	67,178	92,288	60,983	59,167	28,734	52,621	81,615	107,525
9 Other unimproved land in farms.....acres..	45,038	11,346	13,861	5,597	5,486	5,485	2,130	14,211	7,953
10 Farm land reported as provided with drainage.....acres..	1,775	1,330	1,151	2,677	1,465	20,192	550	554	638
11 Farm land reported as needing drainage.....acres..	14,993	40,172	3,055	8,460	25,508	6,398	432	1,559	12,137
12 Drainage only.....acres..	2,557	1,703	938	1,530	1,334	204	108	458	989
13 Drainage and clearing.....acres..	12,436	38,469	2,117	6,930	24,174	6,194	324	1,101	11,148

	Shenandoah.	Southampton.	Spotsylvania.	Sussex.	Tazewell.	Warren.	Westmoreland.	York.	All other counties. ¹
1 Number of all farms in the county.....	2,388	3,550	1,668	1,433	1,602	772	1,455	894	52,712
2 Farms reporting land having drainage.....	58	841	121	168	94	78	56	135	498
3 Farms reporting land needing drainage.....	140	714	748	645	274	119	441	215	5,942
4 Farms in drainage and levee districts.....	7	4	4	2	1	1	.....	.....	13
LAND AND FARM AREA.									
5 Approximate land area of the county.....acres..	326,400	386,560	263,680	329,600	339,840	138,240	161,280	87,040	8,279,168
6 All land in farms.....acres..	220,984	295,787	176,705	197,553	252,247	122,752	122,112	38,616	5,559,740
7 Improved land in farms.....acres..	139,603	119,519	71,076	69,321	119,590	78,441	60,384	16,913	2,897,020
8 Woodland in farms.....acres..	68,631	171,393	96,592	124,447	88,046	30,956	56,810	19,477	2,311,155
9 Other unimproved land in farms.....acres..	12,750	4,875	9,037	3,785	44,611	4,355	4,918	2,226	351,565
10 Farm land reported as provided with drainage.....acres..	724	13,580	1,605	3,092	1,731	959	4,058	2,027	6,953
11 Farm land reported as needing drainage.....acres..	4,500	46,307	33,003	34,802	8,201	2,784	17,851	4,919	324,290
12 Drainage only.....acres..	790	805	3,229	2,225	1,097	736	80	117	13,239
13 Drainage and clearing.....acres..	3,710	45,502	29,774	32,577	7,104	2,048	17,771	4,802	311,051

¹ No drainage on farms reported in Pulaski County nor in Alexandria, Buena Vista, Clifton Forge, Danville, Fredericksburg, Hopewell, Lynchburg, Radford, and Suffolk cities.

WEST VIRGINIA.

	THE STATE.	Barbour.	Greenbrier.	Hampshire.	Hardy.	Harrison.	Jackson.
1 Number of all farms in the state or county.....	87,289	1,837	2,439	1,663	1,228	2,271	2,798
2 Farms reporting land having drainage.....	1,949	78	87	63	84	55	70
3 Farms reporting land needing drainage.....	10,304	373	419	344	183	174	245
4 Farms in drainage and levee districts.....	33	.....	1	5	2	1	1
LAND AND FARM AREA.							
5 Approximate land area of the state or county.....acres..	15,374,080	222,720	638,720	414,720	367,360	266,240	295,040
6 All land in farms.....acres..	9,569,790	175,966	314,830	322,380	269,689	232,981	283,710
7 Improved land in farms.....acres..	5,520,308	130,879	149,038	134,645	104,257	200,992	204,108
8 Woodland in farms.....acres..	3,469,444	35,533	136,129	163,694	153,171	23,174	61,475
9 Other unimproved land in farms.....acres..	580,038	9,554	29,663	24,041	12,261	8,815	18,127
10 Farm land reported as provided with drainage.....acres..	38,464	1,304	1,885	1,090	2,225	1,048	809
11 Farm land reported as needing drainage.....acres..	310,968	7,813	14,351	15,551	10,139	4,335	4,032
12 Drainage only.....acres..	32,253	1,915	3,214	859	1,311	524	613
13 Drainage and clearing.....acres..	278,615	5,898	11,137	14,692	8,828	3,811	3,419

DRAINAGE.

727

COUNTY TABLE I.—DRAINAGE ON FARMS: 1920—Continued.

WEST VIRGINIA—Continued.

		Lewis.	Marshall.	Mason.	Mercer.	Mineral.	Monroe.	Nicholas.
1	Number of all farms in the county.....	1,844	1,712	2,415	1,927	769	1,834	1,670
2	Farms reporting land having drainage.....	121	14	121	58	78	63	35
3	Farms reporting land needing drainage.....	223	11	282	202	239	126	304
4	Farms in drainage and levee districts.....				1	1	3	
LAND AND FARM AREA.								
5	Approximate land area of the county.....acres..	251,520	198,400	304,000	268,160	223,360	292,480	435,200
6	All land in farms.....acres..	233,198	178,961	258,044	187,845	170,645	236,776	153,726
7	Improved land in farms.....acres..	179,966	128,243	181,016	100,166	70,755	140,747	83,873
8	Woodland in farms.....acres..	49,123	38,623	62,276	81,050	83,451	80,773	82,136
9	Other unimproved land in farms.....acres..	4,109	12,095	14,752	6,629	16,439	15,256	7,717
10	Farm land reported as provided with drainage.....acres..	1,214	606	9,147	904	2,481	873	1,299
11	Farm land reported as needing drainage.....acres..	5,244	211	8,794	7,562	13,123	2,147	8,237
12	Drainage only.....acres..	982	33	3,007	536	1,584	1,419	1,282
13	Drainage and clearing.....acres..	4,262	178	5,787	7,026	11,539	728	6,975

		Ohio.	Pocahon- tas.	Preston.	Putnam.	Ran- dolph.	Upshur.	Wood.	All other counties. ¹
1	Number of all farms in the county.....	516	1,283	2,406	1,956	1,774	2,148	2,472	50,527
2	Farms reporting land having drainage.....	26	65	99	34	132	190	54	422
3	Farms reporting land needing drainage.....	16	57	236	380	305	787	417	4,981
4	Farms in drainage and levee districts.....						1	5	12
LAND AND FARM AREA.									
5	Approximate land area of the county.....acres..	68,480	578,560	416,000	215,040	663,040	224,640	232,960	8,797,440
6	All land in farms.....acres..	46,085	266,346	274,984	182,341	302,327	183,636	196,516	5,098,804
7	Improved land in farms.....acres..	37,762	92,174	151,721	117,807	134,865	126,583	142,948	2,907,783
8	Woodland in farms.....acres..	5,616	140,689	95,850	61,967	152,154	44,429	47,247	1,890,884
9	Other unimproved land in farms.....acres..	2,707	33,483	27,413	2,567	15,308	12,644	6,321	300,137
10	Farm land reported as provided with drainage.....acres..	676	817	926	989	2,487	1,964	593	5,127
11	Farm land reported as needing drainage.....acres..	205	1,048	5,470	13,137	11,112	15,044	7,441	153,872
12	Drainage only.....acres..	123	626	1,876	1,145	2,420	1,787	552	6,485
13	Drainage and clearing.....acres..	82	422	3,594	11,992	8,692	13,277	6,889	149,387

¹ No drainage on farms reported in Logan, McDowell, and Wyoming Counties.

AGRICULTURE.

COUNTY TABLE II.—OPERATING DRAINAGE ENTERPRISES: 1920.¹

	ARIZONA.				NEW MEXICO.				OKLAHOMA.			
	THE STATE.	Gra-ham.	Maricopa.	Yuma.	THE STATE.	Chaves.	Dona Ana.	Eddy.	THE STATE.	John-ston.	Other coun-ties. ²	
LAND AREA.												
1	Approximate land area of the state or county.....acres.	72,838,400	2,083,200	5,690,240	6,301,680	78,401,920	3,866,880	2,445,440	2,716,800	44,424,960	421,120	1,688,960
2	All land in operating drainage enterprises.....acres.	39,640	640	9,000	30,000	140,219	53,983	74,000	12,236	12,150	6,000	6,150
3	Improved land.....acres.	36,880	640	7,740	28,500	92,477	46,843	37,000	8,634	8,845	3,600	5,245
4	Per cent of all improved land in farms.....	5.2	1.7	2.8	69.6	5.4	92.9	87.8	16.5	(³)	2.4	0.5
5	Timber and cut-over land.....acres.	2,760		1,260	1,500	47,742	7,140	37,000	3,602	3,305	2,400	905
6	Other unimproved land.....acres.	2,160		1,200	900	20,572	1,352	18,500	720	2,250 ⁴	1,800	450
7	Swampy or subject to overflow, in enterprises.....acres.	2,160		1,200	900	24,420				1,838	900	938
8	Suffering a loss of crops from defective drainage.....acres.	39,640	640	9,000	30,000	140,219	53,983	74,000	12,236	12,150	6,000	6,150
9	Assessed acreage.....acres.											
10	Excess over all land in operating enterprises.....acres.											
DRAINAGE WORKS.												
11	Open ditches:											
12	Completed.....miles.	32.6		8.5	24.1	124.0	7.4	100.0	16.6	18.6	8.5	10.1
13	Additional under construction.....miles.									1.6		1.6
14	Maximum completed in any enterprise.....miles.	24.1		8.5	24.1	100.0	5.4	100.0	6.0	8.5	8.5	4.0
15	Maximum width at bottom of ditch.....feet.	24		8	24	12	8	12	10	100	15	100
16	Maximum of average depths of outlet ditches.....feet.	8.0		8.0	8.0	10.0	8.0	10.0	10.0	30.0	30.0	8.0
17	Mean depth of branch ditches.....feet.	8.0										
18	Tile drains:											
19	Completed.....miles.	1.0	1.0			282.2	263.8		18.4			
20	Additional under construction.....miles.					65.1	58.4		6.7			
21	Maximum completed in any enterprise.....miles.	1.0	1.0			120.1	120.1		14.8			
22	Maximum size of tile.....inches.	12	12			30	30		24			
23	Accessory levees and dikes:											
24	Completed.....miles.	26.0			26.0					5.0	5.0	
25	Additional under construction.....miles.											
26	Pumping plants:											
27	Engine capacity.....horsepower.	175			175							
28	Pump capacity.....gallons per minute.	33,660			33,660							
29	Area served by pumps.....acres.	25,000			25,000							
30	Area drained by open ditches only.....acres.	9,000		9,000		74,000		74,000		6,150		6,150
31	Length of these ditches.....miles.	8.5		8.5		100.0		100.0		11.7		11.7
32	Average length per acre.....feet.	5.0		5.0		7.1		7.1		10.0		10.0
33	Area having open ditches and levees.....acres.	30,000			30,000					6,000	6,000	
34	Length of these ditches.....miles.	24.1			24.1					8.5	8.5	
35	Average length per acre.....feet.	4.2			4.2					7.5	7.5	
36	Length of the accessory levees.....miles.	26.0			26.0					5.0	5.0	
37	Area drained by tile only.....acres.	640	640			34,138	34,138					
38	Length of these tile.....miles.	1.0	1.0			199.7	199.7					
39	Average length per acre.....feet.	8.3	8.3			30.9	30.9					
40	Area drained by open ditches and tile.....acres.	32,081				19,845		12,236				
41	Length of these drains.....miles.	171.6				129.9		41.7				
42	Average length per acre.....feet.	28.2				34.6		18.0				
DEVELOPMENT OF LAND.												
43	Improved land in operating enterprises, 1920.....acres.	36,880	640	7,740	28,500	92,477	46,843	37,000	8,634	8,845	3,600	5,245
44	Improved land prior to drainage.....acres.	19,112	512	3,600	15,000	77,265	35,404	37,000	4,861	3,595	600	2,995
45	Increase since drainage.....acres.	17,768	128	4,140	13,500	15,212	11,439		3,773	5,250	3,000	2,250
46	Per cent of increase.....	93.0	25.0	115.0	90.0	19.7	32.3		77.6	146.0	500.0	75.1
47	Per cent increase is of all improved land in farms, 1920.....	2.5	0.3	1.5	33.0	0.9	22.7		7.2	(³)	2.0	0.2
48	Timber and cut-over land, 1920.....acres.									3,305	2,400	905
49	Timber and cut-over land prior to drainage.....acres.									6,930	5,400	1,530
50	Decrease since drainage.....acres.									3,625	3,000	625
51	Per cent of decrease.....									52.3	55.6	40.8
52	Other unimproved land, 1920.....acres.	2,760		1,260	1,500	47,742	7,140	37,000	3,602			
53	Other unimproved land prior to drainage.....acres.	20,528	128	5,400	15,000	62,954	18,579	37,000	7,375	1,625		1,625
54	Decrease since drainage.....acres.	17,768	128	4,140	13,500	15,212	11,439		3,773	1,625		1,625
55	Per cent of decrease.....	80.6	100.0	76.7	90.0	24.2	61.6		51.2	100.0		100.0
56	Swampy or subject to overflow, 1920.....acres.	2,160		1,200	900	20,572	1,352	18,500	720	2,250	1,800	450
57	Swampy or subject to overflow prior to drainage.....acres.	6,428	128	5,400	900	44,919	2,705	37,000	5,214	7,050	3,600	3,450
58	Decrease since drainage.....acres.	4,268	128	4,140		24,347	1,353	18,500	4,494	4,800	1,800	3,000
59	Per cent of decrease.....	66.4	100.0	76.7		54.2	50.0	50.0	86.2	68.1	50.0	87.0
CAPITAL INVESTED AND COST PER ACRE.												
60	Total capital invested in and required for completion of operating enterprises.....dollars.	1,028,425	7,000	94,425	925,000	2,806,296	1,093,692	1,575,000	237,604	77,415	44,500	32,915
61	Capital invested in these enterprises to Dec. 31, 1919.....dollars.	414,425	7,000	94,425	313,000	1,710,798	924,442	575,000	211,354	76,415	44,500	31,915
62	Additional capital required to complete these enterprises.....dollars.	612,000			612,000	1,195,500	169,250	1,000,000	26,250	1,000		1,000
63	Average cost per acre when completed.....dollars.	25.89	10.94	10.49	30.83	20.73	20.26	21.28	19.42	6.37	7.42	5.35
64	Enterprises constructing open ditches only.....dollars.	94,425		94,425		1,675,000		1,575,000		32,915		32,915
65	Average cost per acre when completed.....dollars.	10.49		10.49		21.28		21.28		5.35		5.35
66	Enterprises constructing open ditches and levees.....dollars.	925,000			925,000					44,500	44,500	
67	Average cost per acre when completed.....dollars.	30.83			30.83					7.42	7.42	
68	Enterprises constructing tile drains only.....dollars.	7,000	7,000			643,992	643,692					
69	Average cost per acre when completed.....dollars.	10.94	10.94			18.86	18.86					
70	Enterprises constructing open ditches and tile drains.....dollars.					687,604	450,000		237,604			
71	Average cost per acre when completed.....dollars.					21.43	22.68		19.42			
CROPS.												
72	Improved land in enterprises reporting—											
73	Alfalfa as principal crop on drained land.....acres.	640	640			85,603	39,969	37,000	8,634			
74	Cotton as principal crop on drained land.....acres.	36,240		7,740	28,500					3,600	3,600	
75	Grain as principal crop on drained land.....acres.					6,874	6,874			750		750
76	Corn as principal crop on drained land.....acres.									2,500		2,500
77	Hay as principal crop on drained land.....acres.									1,995		1,995

¹ Churchill County, Nev., and Malheur County, Oreg., comprise all the enterprises in those states, and the statistics are given in State Table V, p. 379.

² Includes only Canadian, Kay, and Muskogee Counties.

³ Less than one-tenth of 1 per cent.

⁴ When works under construction have been completed.