SECTION V.

SUGAR, SIRUP, AND MOLASSES.

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SECTION V.

SUGAR, SIRUP, AND MOLASSES.

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These facts explain how Hawaii, with only 65,687 acres of cane in 1899, could report a farm value of cane and its products of \$18,762,996, while Louisiana, with 276,966 acres, reported a corresponding value of only \$14,627,282, or, exclusive of the value of cane kept for seed, of \$11,143,649, which is less than two-thirds that of the Hawaiian output. The normal yield of sugar in Louisiana is greater than that of Hawaii, as is shown by the total product of 556,994,942 pounds in 1898, given in Table 5, but in 1899 Hawaii reported 542,098,500 pounds, and Louisiana 319,166,396 pounds, the reduced production for Louisiana being attributable to the causes above mentioned.

Prior to the Civil War all cane grown in the Southern states was converted into sugar or sirup on the plantations growing it, but since that time, especially in Louisiana, the owners of a few large plantations purchase cane from their tenants and from others, which they use in the manufacture of sugar and sirup, in addition to the cane grown by themselves. There have also come into existence a small number of central factories whose proprietors do not raise the raw material, but purchase cane from growers, and sirup from makers, and convert them into sugar.

Table 1 shows the extent of this change in Louisiana where there were 1,038,496 tons of cane sold by growers for sugar making, as against 1,084,858 tons converted into sugar on the plantations. In Texas a considerable proportion of cane was sold, but in other states and in Hawaii only a small portion was sold, as compared with the quantity converted into sugar and sirup on the plantations of the growers.

Of the 181,566 farms in the United States reporting sugar cane in 1899, 160,847, or 88.6 per cent, reported sirup made by them; 18,085, or 10.0 per cent, sold cane, and only 2,819 made sugar. Of those reporting sugar, only a limited number in Louisiana, Hawaii, and Texas made it in any considerable quantities, hence only those states report molasses. The product obtained, other than sugar, is essentially a sirup and not a by-product of sugar making as is the molasses of Hawaii and Louisiana.

The grades of sugar made in the large factories of Hawaii, Louisiana, and Texas are given in Table 5 for both 1898 and 1899. An examination of that table shows that either the planters of Hawaii make no molasses, or that the molasses made has at the present time no commercial value, being quite generally returned to the land as a fertilizer, while in Louisiana there is a market for the greater portion of the molasses at a small price per gallon.

In Hawaii and Texas no sugar is made by the old open-kettle process, but in Louisiana a limited amount is still so made. Of the new process sugar, about the same relative proportion of firsts and seconds is made in Louisiana as in Hawaii.

STATISTICS OF SUGAR FARMS.

Tables 6, 7, and 8 present a comparative summary, 1850 to 1900, of the area and production of sugar, sirup, and molasses, for the states and territories, the leading parishes in Louisiana, and the islands of Hawaii.

For 1900 the figures used are those for the total product from the cane, as these are the only figures which are comparable with those of earlier census years.

In 1880 and 1890 the quantities made on plantations purchasing, as well as growing, cane for sugar making were included in the total for farm production of sugar. A statement of the production of sugar and molasses for 1899, on farms for which no cane was purchased, is given, separately, in Table 3.

Tables 7 and 8, in the figures for the various years, show the temporary results of efforts made to establish the industry of making sugar from cane in a number of states other than Louisiana. The large figures for Tennessee and Missouri in 1860 and 1870, South Carolina in 1870, and Alabama in 1850, all show considerable development of the industry in places where it is now almost abandoned. The Louisiana planters have had as many failures as those of other states, but they have continued sugar making with greater persistence. The special difficulties in the way of establishing the industry in Louisiana are described at length later, and doubtless suggest reasons for the practical abandonment of what was a promising industry in other Southern states in 1850, 1860, and 1870.

SUGAR FARMS.

Of the 5,739,657 farms in the United States, 7,344 derived their principal income from growing sugar cane, sugar beets, sorghum cane, or the making of sugar and molasses therefrom, or from the sap of maple trees.

Of this number, 123 farms were reported in the North Atlantic division. Some of them derived their income from maple sirup, others from the growth and sale of beets for sugar making.

In the South Atlantic states there were 305 sugar farms, more than one-half of which were in Georgia. The greater portion of these derived their income from sugar cane, and the remainder from sorghum cane and its products. In the North Central division there were reports from 1,258 sugar farms, of which 694 were in Michigan, 118 in Missouri, and 99 in Kansas. The greater portion of these farms, as well as a few in the other states of the division, derived their income from the sale of sugar beets, and the remainder from sorghum cane and its products, or from maple sirup and sugar.

In the South Central division there were 4,588 sugar farms, of which 3,870 were in Louisiana, and 264 in Texas. Nearly all the sugar farms in these two states derived their income from sugar cane and its products, the few remaining derived their income from sorghum cane and its products.

There were 900 sugar farms in the Western division, of which 440 were in Utah and 386 in California. All of these, and the greater number of those in Colorado and Oregon, derived the principal part of their income from the sale of sugar beets, while those in Arizona derived their income largely from sugar cane.

The 170 sugar farms in Hawaii derived their principal income from sugar cane and its products.

The total area included in sugar farms was 2,668,880 acres. The total value of the farm property of these farms was \$150,426,234; the value of land, exclusive of buildings, was \$94,218,164; the value of buildings, \$15,530,795; of implements and machinery, \$33,651,170; and of live stock, \$7,026,105. The total value of the products of 1899 was \$40,804,284. The value of that portion of these products not fed to live stock was

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\$39,049,954. This gross income represented 26.0 per cent of the fixed capital of the farms, which includes the value of land, buildings, implements, and live stock. The amounts expended for labor on these farms aggregated \$14,574,356, or 35.7 per cent of their gross income, while the expenditure for fertilizers, \$2,059,202, was much larger than for any equal number of farms of any other character.

The average value of these farms was \$20,483, varying from \$374,757 in Hawaii to \$444 in Virginia. The value of their products varied from \$113,306 per farm in Hawaii to \$96 per farm in Virginia. Their average expenditure for labor was \$1,985 per farm, varying from \$41,011 in Hawaii and \$1,791 in Louisiana to \$4 in Tennessee and \$1 in Arkansas.

A more detailed statement concerning the sugar farms of Louisiana and Hawaii is given in connection with the discussion of the industry in that state and territory.

TABLE I .- NUMBER AND ACREAGE OF SUGAR FARMS AND VALUE OF SPECIFIED FORMS OF FARM PROPERTY,

		NUMBI FARI		ACREA	ge, june 1, 3	1900.		VALUE OF FARM	4 PROPERTY, J	UNE 1, 1900.	
	STATES AND TERRITORIES.	Total.	With build- ings.	Total.	Improved.	Per cent im- proved.	Total.	Land and improve- ments (except buildings).	Buildings.	Implements and machinery.	Live stock.
1	The United States	7, 844	6, 859	2, 668, 880	1,032,117	88.7	\$150, 426, 234	\$94, 218, 164	\$ 15, 580, 795	\$33, 651, 170	\$7,026,105
2	North Atlantic division	123	117	23, 802	6,541	27.5	659, 819	478, 490	116,740	24, 100	45, 489
8 4 5	Maine New Hampshire Vermont	8 45	8 44	297 8, 691	40 1,360	13.5 36.8	8, 700 75, 780	1, 800 88, 260	1, 850 24, 120	200 7, 190	850 11, 160
6 7 8	Massachusetts Rhode Island			· · · · · · · · · · · · · · · · · · ·	•••••	· • • • • • • • • • • • • • • • • • • •	·····	••••••		•••••	•••••
9 10	Connecticut New York New Jersey	51	46	6, 907	3,018	43.7	279, 240	188, 580	60, 020	9, 990	20,650
11	Pennsylvania	24	24	12, 907	2,128	16, 4	801, 149	250, 850	80, 750	6, 720	18, 829
12 13	South Atlantic division Delaware		296	47,282	14,806	81.3 90.0	387, 571	214,760	78,280	25, 480	69, 101 859
14 15	Maryland District of Columbia	15	15	2,421	1,578	65.2	59,648	84, 890	12,600	4, 910	7,748
16 17	Virginia West Virginia	6 10	6 10	195 777	180 876	66.7 48.4	2,666 9,152	1,090 5,830	480 1,260	100 820	996 1,742
18 19	North Carolina South Carolina	28 19	21 18	$1,368 \\ 1,850$	545 608	39, 8 32, 9	12,578 16,176	6, 640 8, 420	8, 570 8, 620	810 1,230	1,558 2,906
20 21	Georgia Florida	165 66	161 64	34, 705 5, 906	9, 108 2, 407	26.2 40.8	185, 306 100, 766	89, 290 68, 400	43, 190 18, 810	18, 500 4, 590	89, 826 14, 466
22	North Central division	1,258	1,088	95, 127	67,247	70.7	4,617,783	8, 177, 000	771,870	189, 560	479, 858
28 24	Ohio Indiana	60 33	55 30	3, 871 1, 907	2,216 1,506	57.2 79.0	215, 184 80, 711	156, 940 54, 480	80, 220 12, 140	8, 840 4, 720	19,684 9,871
25 26	Illinois Michigan	60 694	56 577	5, 096 87, 792	4,172 28,102	81,9 74,4	428, 829 2, 189, 470	841, 240 1, 475, 000	51, 190 433, 810	11,390 93,270	24,509 187,390
27 28	Wisconsin Minnesota	14 44	14 89	1,568 8,562	670 2,248	42,7 63.1	54, 876 218, 647	84,050 145,880	12,050 33,110	8, 940 14, 400	4,836 20,807
29 30	Iowa Missouri	85 118	30 115	4,049 8,405	8,819 5,263	82.0 62.6	825, 848 197, 575	242, 360 181, 590	49,690 29,120	8, 280 9, 090	25, 518 27, 775
31 32	North Dakota South Dakota										
88 84	Nebraska	101	78	12, 839	9, 191	74.5	514, 300	870, 770	64, 670	15, 320	63, 540
34 35	Kansas	99 4,588	94 4, 369	16,538 1,360,795	10, 560 623, 943	-63, 9 45, 9	397, 843 72, 827, 559	225, 240 84, 693, 560	55, 870 11, 295, 560	20, 810 21, 882, 980	95, 928 4, 955, 509
86	Kentucky	72	4, 000 67	4,679	3,078	65.7	100,626	65, 860	19,820	4,000	11, 446
87 88	Tennessee	85 187	73 131	4,546 10,829	2,181 3,918	48.0 87.9	80, 875 89, 073	54, 830 42, 790	11, 950 19, 880	3,100 4,800	10,995 22,103
89	Mississippi	49	44	7,185	2,080	28.3	55, 126	29,250	9,630	5,780	10,466
40 41	Louisiana	8,870	8,711	1, 209, 837	578,630	47.4	70, 480, 069	88,068,960	11,027,060	21,591,940	4,747,109
42	Texas Oklahoma	264 58	236 58	103, 599 14, 478	82, 121 8, 895	81.0 26.9	1,854,087 153,798	1, 822, 750 80, 840	152, 890 46, 650	265, 950 4, 730	112,497 21,578
43 44	Indian Territory Arkansas	32	32 17	4,054	2,289	56, 5 38, 5	44,698	21,690 12,090	4,680	2,190 940	16,183 3,182
45	Western division	900	828	98, 757	78,451	79.4	8, 224, 873	7, 115, 963	580, 710	210,080	368,120
$\frac{46}{47}$	Montana Wyoming					•••••					
48	Colorado		42	4,821	2,044	42.4	166,079	180,680	19,070	5,810	10,569
49 50	New Mexico	4	4	527	85	16.1	9,452	5,920	880	420	2,232
51	Arizona Utah	5 440	5 405	880 16,771	200	22.7 68.4	12,954 1,221,282	10,263 811,920	1,230 225,180	550 54,480	911 129,752
52	Nevada	140	400	10,771	11,474	08.4	1, 221, 282	011, 020		01,400	
58	Idaho										
54 55	Washington Oregon		. 3	3,590		90.3	146, 946	117,800	14,000	5,550	
56	California	886	10 354	8, 070 69, 098		68.0 85,8	125,507 6,542,653	106,070 5,983,860	6,230 264,120	4,870 188,450	
57 58	Alaska Hawaii	170	166	1, 048, 117	241,129	28.1	63, 708, 629	48, 543, 891	• 2,737,685	11,819,020	1, 108, 588

¹ Less than \$1.

SUGAR, SIRUP, AND MOLASSES.

VALUE OF PRODUCTS, AND EXPENDITURES FOR LABOR AND FERTILIZERS, BY STATES AND TERRITORIES.

. v .	ALUE OF PRO	DDUCTS, 1809. AVERAGE VALUES PER FARM.					EP		AVERAGE EXPENDITURES PER FARM, 1899.							
			Percent				Farm pro	perty, Jı	ane 1, 1900	•	Produc	ots, 1899.	Average value per acre of			-
Total,	Fed to live stock.	Not fed to live stock.	not fed, to value of property.	Labor,	Ferti- lizers.	Total.	Land and improve- ments (except build- ings).	Build- ings,	Imple- ments and machin- ery.	Live stock.	Total.	Not fed to live stock.	products of 1899 not fed.	Labor.	Ferti- lizers.	
\$40, 804, 284	\$ 1, 754, 830	\$ 39, 049, 954	26, 0	\$14,574,356	\$2, 0 59, 202	\$ 20, 483	\$12, 829	\$2,115	\$ 4, 582	\$957	\$5,556	\$5, 317	\$14.68	\$1,985	\$280	
82,080	23, 980	58,100	8.8	9, 380	1,050	5, 864	3, 849	949	196	370	667	472	2.44	76	9	:
700	160	540	14.6		20	1,238	433	617	66		233		1,82		7	•
17,210	6, 590	10,620	14.0	1,570	170	1,688	739	536	• 160	248	382	236	2, 88	85	4	
••••																
87,720	9, 550	28, 170	10.1	6, 120	560	5,475	3, 697	1,177	196	405	740	558	4,08	120	11	1
26, 450	7,680	18,770	6,2	-1,690	800	12,548	10, 431	1, 281	280	556	1,102	782	1, 45	70	12	11
165,785	28, 230	142,505	36.8	17,700	8,940	1,271	704	256	84	227	548	467	3.01	58	29	1
520 15,800	100 8,950	420 11,850	82, 8 19, 0	20 1,380	660	1,279 8,977	700 2,298	200 840	20 827	859 517	520 1,020	420 757	7.00 4.69	20 92	44	1
680	100	580	21, 8	180		444	182	 80	16	166			2, 97	22	2	11
1,540 4,350	210 620	1,830 8,780	14, 5 29, 7	140 110	200	915 547	583 289	126 155	82 85	174 68	154 189	133 162	$1.71 \\ 2.73$	14 5	 9	12 18
6,700	580	6,120	87.8	, 500	170	851	443	190	65	153	853	322	3.31	26	9	1
109,850 26,795	18, 910 8, 760	95, 940 23, 035	51, 8 22, 9	10,050 5,870	6,660 1,240	1,128 1,527	541 1,036	262 202	82 70	288 219	666 406	582 849	2, 76 3, 90	61 81 -	40 19	20 21
978, 580	157,790	820, 790	17.8	159, 460	5,700	8,671	2, 525	614	151	381	778	658	8.63	127.	б	2
33,680	5,850	27, 830	12, 9	1,660	810	8, 586	2, 616	503	139	828	561	464	7,19	28	Б	2
26,730 70,200	4,220 12,840	22,510 57,360	27.9 18.4	710 7, 910	150	2,446 7,139	1,651 5,687	868 853	143 190	284 409	810 1,170	682 956	11, 80 11, 26	22 132	5	2
460,640	71, 420	389, 220	17.8	107,950	8,890	8,155	2,125	625	135	270	664	561	10, 30	156	6	2
15,810 45,520	2,120 6,290	18,690 89,230	24.9 18.4	1,100 6,470	*50	8,920 4,856	2, 432 3, 303	861 753	281 327	346 473	1,129 1,035	978 892	8.73 11.01	79 147	1	2
45,770	9,900	85,870	11.0	2,640	760	9, 810	6,925	1,420	236	729	1,308	1,025	8,86	75	22	2
¹ 57,060	11,790	45,270	- 22.9	1,690	110	1,674	1,115	247	77	285	484	384	5, 39	14	1	8
.117,690	15 000															3
105,480	15, 880 17, 480	101,810 88,000	10, 8 22, 1	21,870 7,960	400 80	5,092 4,019	$ \begin{array}{c} 3,671 \\ 2,275 \end{array} $	640 565	152 210	629 969	1,165 1,065	1,008 889	8, 25 5, 82	212 80	(1) (1)	8 8
18, 453, 898	1, 419, 420	17,034,478	23.4	6, 960, 970	713, 270	15, 878	7, 562	2, 462	4, 769	1,080	4,022	8, 713	12.52	1, 517	155	8
22,900 28,180	8,680	19,270	19.2	950	70	1,398	· 908	275	56	159	318	268	4,12	13	1	3
38,944	3,440	19,740 84,174	24.4 38.4	880 1, 310	10 1,880	· 951 650	645 812	141 145	36 32	129 161	273	232 249	4.34 3.31	· 4 10	(¹) 14	8
24,980 18,019,470	3, 870	21,110	38.3	680	780	1,125	597	196	118	214	510	481	2,94	14	15	
267, 950	1,368,170 31,080	16,656,300 286,870	28, 6 12, 8	6,981,470 23,480	709, 970	18, 199 7, 023	8,544 5,011	2,849 579	5,579 1,007	1,227 426	4,656 1,015	4, 304 897	13, 77 2, 29	1,791 89	183 2	4
24,450	5,490	18,960	12.3	1,480	•••••	2,652	1,394	804	82	372	422	327	1.31	26	• • • • • • • •	4 4
17,960 14,064	2,220 1,750	15,740 12,314	35, 2 64, 1	1,190	90	1, 897 915	678 576	146 143	69 45	504 151	561 670	492 587	3.88 5.88	87 1	4	4
1, 861, 960	129, 910	1, 782, 050	21. 1	454, 950	8,885	9, 139	7,907	590	283	409	2, 069	1,925	17.54	506	4	4
****		•••••										•••••				4 4
24,360	8,840	20, 520	12, 4	3, 120		8,322	2, 613	382	116	211	487	410	4.26	62		4
2,190 1,990	1,380 250	810 1,740	8.6	340 560		2, 863 2, 591	1,480 2,058	220 246	105 110	558 182	548 898	208 848	1.54 1.98	85 112		45
303,600	89,120	264,480	18.4 21.7	28, 370	875	2,551	1,845	512	124	295	690	601	15.77	64	2	$\frac{1}{2}$ 5
••••	·····						·····			•••••		•••••			•••••	- E E
41,340	8,560	32,780	22, 3	7,150		86,736	29,450	8,500	1, 387	2, 399	10, 335	8,195	9.13	1,788] :
34,080 1,454,400	2,260 74,500	81,820	25,4	8, 850	20 2 940	11, 410 16, 950	9,643 15,371	566 684	443 359	758 536	3, 098 3, 768	2,893 3,575	10.36 19.97	805 1,053	28	
-,,	13,000	1,879,900	21.1	406, 560	2 940	10,000	10,011							.,		
19, 262, 081		19, 262, 031	80, 2	6, 971, 896	1,826,407	374, 757	285, 549	16,104	66, 583	6, 521	113, 306	118,306	18.47	41,011	7,802	- E I

NATURE OF THE PLANT.

The cane from which the sugar of Louisiana and Hawaii is made is a member of the large family of grasses, and is known botanically as saccharum officinarum. The stalk consists of nodes and internodes generally of 1 to $1\frac{1}{4}$ inches in diameter. The nodes in well-developed cane are from 4 to 6 inches apart, and from the upper side of each springs a clasping leaf, from 3 to 5 feet long, which, as it approaches maturity, recedes from the stalk, and when ripe falls off. The roots of the cane spring from the lower side of the node and are lateral and fibrous, affording but little stability to the stalk in soils wetted by rain. The bud or eye of the cane is found at the base of each internode, and before maturity is protected by the leaf; when fully developed it is about three-eighths of an inch long and one-fourth of an inch wide, and is the source or parent of the new cane. Toward the top, or immature portion of the stalk, the eye is flat, and, although apparently of imperfect powers of germination, produces a perfect and healthy scion. While stalks of cane are used for planting, being the vehicle by which the eye or bud is preserved, it has been demonstrated that true seed is to be found in the pinnacle of flowers which crown the cane stalk. The flower or arrow of the cane resembles the blossom of the sedge, but is sometimes 30 inches high, dust colored, and charged with innumerable winged seeds, nearly all of which are infertile, owing, in all probability, to the long-continued propagation of the plant by means of eyes or cuttings.

HISTORY.

There seems to be sufficient evidence to justify the assertion that the sugar cane is a native of southern Asia. The Chinese claim to have been sugar makers for three thousand years, and while their claim can not be refuted there is no proof that the plant was cultivated in that country as early as in Cochin China and Bengal.

It was at one time supposed that the true seed of the sugar cane was found only in the Eastern Hemisphere, and that the plant must, therefore, have been of Old World origin, but the reasoning was based upon a wrong premise, as cane now produces fertile seed in both hemispheres. After the Crusades the cultivation of cane extended from Asia into Africa and to the islands of the Mediterranean. The Portuguese carried sugar cane to Madeira and the Canaries, and Europe received its supply of sugar for many years from these islands.

Columbus on his second voyage carried this plant to new fields of usefulness, when he introduced it into the islands of the Caribbean Sea and Gulf of Mexico. From these islands its course to the Spanish Main and Mexico was speedy, and before the close of the century sugar cane was cultivated in all tropical America. Although there is no evidence of the passage of the sugar cane from either shore of the Pacific to the islands of that ocean, we have the testimony of the earliest European visitors that the plant was found growing luxuriantly on the islands of the mid-Pacific.

INTRODUCTION IN LOUISIANA.

As early as 1751 the Jesuit fathers brought to Louisiana samples of sugar cane for the purpose of adding to the resources of the colony. The canes introduced were of the Bourbon or Malabar variety, now known in Louisiana as "Creole" cane. The original consignments were of small quantities, and were sent as a present by the priests in Hispanola to those of their order in New Orleans, but the small beginning of the Jesuits soon furnished seed cane for a number of fathers living in the neighborhood. At first the prices obtained for the cane stalks precluded the idea of the establishment of works for the extraction of the juice" on a sufficiently large scale to justify the expense of machinery for crushing and boiling.

The first sugarhouse equipped with machinery to crush the cane and evaporate the juice was erected by Dutreuil in 1759. The experiment resulted in failure. By degrees, however, mechanics were brought from Santo Domingo and Cuba, sugarhouses were built, and for years the pioneers in the industry struggled with apparently insurmountable difficulties. The sirup would not grain, and instead of the bright yellow crystals, such as were produced in the islands, only a sirupy mass remained as a reward for their labor and expense. Some of the more enterprising planters set up dunder tubs and stills, and converted the sweet juice into what they called tafia, a species of fiery rum, which soon spread its baneful influence among the negroes and Indians of the colony.

After a few years the Spanish governors issued edicts restraining the production of tatia, and, by the time the first legislature of the territory was convened, the manufacture of the distillate had almost ceased. The years passed, and still the manufacture of sugar seemed unattainable, although every effort was made by the farmers and their employees to bring about the desired results. Early in the last decade of the Eighteenth century, although the newly imported Otahaiti cane was brought from Cuba, where it had been introduced as one of the results of the heroic Bligh's efforts, the sugar cane of Louisiana growth was not sufficiently matured to produce crystallizable juice, and the planting

¹That portion of this section dealing with the history and the development of the sugar-cane industry in Louisiana was prepared by Mr. Robert Freret of New Orleans, La., who was also instrumental in gathering much of the data of this branch of agriculture.

world was casting about for some staple to take the place of the cane, from which so much had been expected.

FIRST SUCCESSFUL SUGAR MAKING IN LOUISIANA.

In 1795, Etienne De Boré announced that he had discovered the process necessary to obtain grained sugar. When the spring of 1796 opened, the area and condition of the cane crop on Sieur De Boré's plantation was the wonder of the neighborhood. When the crop was ready for the mill, the juice was extracted by means of simple crushing machinery, operated by horsepower. The juice obtained was conducted into storage boxes, and thence to a series of kettles for evaporation. The process of sugar boiling was kept up continuously, the sirup being bailed forward from one kettle to another until it was reduced by evaporation to liquid sugar and was ready to be passed from the last kettle to the coolers, after which it was spread out on the floor of the sugarhouse.

The essential change introduced by Sieur De Boré was probably the use of lime or alkali in some form for the purpose of neutralizing the free acids found in cane juice, thus materially assisting the process of granulation. The sugar makers of the West Indies used alkali for this purpose, but endeavored to carefully guard the process. After its introduction into Louisiana the early sugar makers were eager to keep secret the results of their individual experiments in the determination of the proper amount of alkali to be used. This quantity varies with the character of the season in which the cane is grown. In very dry seasons but little alkali is required, while in wet seasons larger quantities are necessary to induce complete granulation. De Boré's success in making sugar on a commercial scale gave new life to the cane-producing industry, and many plantations were soon established.

INTRODUCTION OF IMPROVED MACHINERY.

The first steam-driven mill for crushing cane was erected in 1821. The mill turned by this engine was possibly not more than 36 inches long and 24 inches in diameter, and consisted of three rollers so arranged that two rollers were hung in the side supports or housings at a distance of about 8 inches apart, while the third or top roller, the position of which was regulated by bolts passing down through the housings, was so placed that there might be about three-sixteenths of an inch between the front and top rollers, and with the back and top rollers touching each other. The stalks of cane were introduced between the first and second rolls, and then by a simple device the half-crushed stalks were curved back to the opening between the middle and third rollers and subjected to a second pressure, which extracted a large part of the juice.

ARRANGEMENT OF THE KETTLES FOR SUGAR MAKING.

The juice after leaving the receptacle below the rollers was run through troughs to boxes, where it was stored until needed to replenish the juice in the first kettle.

In the early manufacture of sugar in Louisiana, four evaporation kettles were commonly used, but the advantages of a new system of five kettles, called the "Jamaica train," were so apparent that this arrangement was adopted and in general use until 1840. The kettles were approximately hemispherical in shape, generally of wrought iron, with a wide lip or edge by which they were suspended to the "canal." The canal was the horizontal flue which ran from the furnace to the chimney, so fashioned as to allow the heat from the wood fires to present itself successively to the kettles hung along its course.

The first kettle, which hung directly over the fire, was known as the batterie, the other four, in their order, being the sirop, propre, flambeau, and grande.

In the later years of the open kettle train there were generally two grandes placed across the line of the four other kettles and so arranged that the draft to the chimney passed beneath each of them. In these kettles the entire process of clarification, evaporation, and, in the early years of the industry, the concentration of juice into sugar, was carried on.

Between 1830 and 1840 an improvement upon this method was adopted in some of the larger sugarhouses whereby the kettles were used to transform the juice into sirup, while a separate steam-heated pan or kettle was used to concentrate the sirup into sugar. In France, as late as 1827, the chaudière à bascule, or upsetting kettle, was used over an open fire in the manufacture of beet-root sugar. This apparatus was tried in Louisiana, but never came into general use.

INTRODUCTION OF THE VACUUM PAN.

In 1830, Mr. Thomas Morgan, who is entitled to the honor of being the pioneer in the use of the vacuum pan, erected one of these appliances in his sugarhouse. In 1834 Mr. Valcour Aimé, one of Louisiana's progressive planters, established a Howard vacuum pan in his sugarhouse in St. James parish. He also introduced the use of boneblack as a means of clarifying the sirup, and succeeded in producing a nearly chemically pure white sugar, which he shaped into loaves by the use of molds.

The most important improvement, however, in the methods for converting the juice of the cane into sirup[•] was the invention of Mr. Norbert Rillieux, a native of Louisiana, who conceived the idea that the hot vapor arising from a vessel of boiling cane juice could be used to evaporate the water contained in a second vessel of cane juice. He soon realized that this method could only be made practicable by securing a diminished atmospheric pressure on the surface of the vessel whose contents it was sought to evaporate by the heat arising from the vapor of a previously and more intensely heated fluid.

After considerable expenditure of money, and much labor in working out the details of this conception, an apparatus embodying Rillieux's ideas was erected, in December, 1845, on a plantation in Plaquemines parish, La., and given a trial. Although it did not at first prove to be the success which had been anticipated, the results were sufficiently promising to bring about a determination to realize, during the next season, all the merits which the inventor and manufacturers claimed for it. The tests made in 1846 proved successful, and laid the foundation for the elaborate system of evaporation now in use wherever capital and intelligence have combined for the making of sugar.

CHANGES IN THE SUGAR INDUSTRY.

The value of the machinery and appliances used in an early sugarhouse employing steam power in Louisiana was possibly \$7,000 or \$8,000, while the output in such an establishment was about 200 tons of coarse brown muscovado sugar for a season's run of four months.

The modern sugarhouse, equipped with Corliss engines, double mills, crusher, and all the latest improved clarifying, evaporating, and concentrating apparatus, is erected at an expense, exclusive of the cost of buildings, of about \$250 for each ton of cane which can be passed through the mills in a day; in other words, the cost of the machinery of a Louisiana sugarhouse competent to crush 1,000 tons in twenty-four hours is about \$250,000.

The early steam sugarhouses produced a quantity of sugar equal in weight to about $2\frac{1}{2}$ per cent of the weight of the cane milled, a ton of cane yielding about 50 pounds of moist sugar. The sugarhouse of the present day averages about 8 per cent, or 160 pounds of sugar to the ton of cane.

In the early days of the industry the only fuel used was wood, of which from three to five cords were consumed in producing 1,000 pounds of moist sugar; to-day 800 pounds of coal are required for an output of 1,000 pounds of fine yellow or white crystallized sugar fit for immediate consumption.

SLOW PROGRESS OF THE INDUSTRY IN LOUISIANA.

An examination of the following table of yearly production shows that until 1860 the growth of the sugar industry in Louisiana was slow compared with the rapid strides made by other agricultural operations in the country.

In the five years immediately preceding the Civil War the entire consumption of sugar in the United States averaged about twice the product of Louisiana. To-day, while the output of Louisiana sugar is about 310,000 tons per annum, the consumption of the country aggregates more than 2,300,000 tons. Table II shows the annual production of sugar in Louisiana from 1823 to 1860.

TABLE IISUGAR	PRODUCED IN	LOUISIANA	FROM 1823
	TO 1860.		

YEAR,	Long tons.	YEAR.	Long tons.
1823 1824 1825 1826 1827 1828 1829 1838 1838 1836 1837 1838 1837 1838 1837 1838 1844 1841 1842	$\begin{array}{c} 11,807\\ 15,287\\ 28,101\\ 86,450\\ 45,178\\ 24,642\\ 85,931\\ 87,482\\ 51,389\\ 15,401\\ 85,937\\ 28,925\\ 85,927\\ 59,049\\ \end{array}$	$\begin{array}{c} 1843 \\ 1844 \\ 1845 \\ 1846 \\ 1846 \\ 1847 \\ 1848 \\ 1850 \\ 1850 \\ 1851 \\ 1852 \\ 1853 \\ 1854 \\ 1856 \\ 1856 \\ 1856 \\ 1856 \\ 1858 \\ 1858 \\ 1859 \\ 1869 \\ 1860 \\ 18$	$\begin{array}{c} 102,678\\ 142,723\\ 70,995\\ 123,214\\ 112,964\\ 120,465\\ 103,111\\ 115,197\\ 164,312\\ 224,188\\ 177,349\\ 118,664\\ 86,813\\ 137,516\\ 185,206 \end{array}$

It will be observed that 224,188 tons, the crop of 1853, was by far the largest up to 1861, while that of 1856 was only 36,813 tons. The light product of the latter year resulted from the inclement winter of 1855-1856, during which period the rains rotted the cane saved for seed, and the alternate freezing and thawing ruined the stubble.

PREPARATION OF LAND FOR GROWING SUGAR CANE.

The cane-growing portion of Louisiana is a very flat country, the slope of the land averaging less than 4 feet, and in many thousands of acres not more than 2 feet, to the mile. In the preparation of land for the cultivation of sugar cane, the ground is usually broken in the fall into lands or beds, from $5\frac{1}{2}$ to $6\frac{1}{2}$ feet wide, a deep water furrow being left between to serve as a drain for the outflow of water after the winter rains. The necessity of great care being observed in the matter of drainage is apparent when it is known that the average annual rainfall is about 50 inches.

Most of the soils of the sugar belt of Louisiana are mixed clay and silt, as the greater part of the land is pure alluvium deposited by the waters of the various streams. The land, which, as a rule, is higher on the bank of the river or bayou, falls away for some distance from the water course, and in consequence, during the period of an overflow, the heavier and coarser sand is first deposited and the lighter particles of sand and silt find their resting places in spots where the current grows sluggish; hence the sandy land is located near the river or bayou and the stiff, clayey lands farther away.

With a heavy rainfall and a retentive soil the necessity for drainage becomes paramount, and the importance of the subject may be appreciated when it is understood that from 15 to 20 per cent of the cost of field labor expended on a well-managed crop is for drainage. Occasionally, after severe storms, large portions of the best plantations will be covered with water for days, owing to the inadequacy of the drainage equipment. One such rain storm happening at a critical time in the growth period may diminish the size and yield of the cane as much as 25 per cent.

Tile drainage has been tried in the cane fields of Louisiana with but poor results, owing to the fact that the success of this method depends upon a constantly free exit of the water which the tiles have collected. In almost every instance of tile drainage in lower Louisiana the tiles have accumulated silt, owing to the sluggishness of the current brought about by the slow discharge of the recipient canals.

PLANTING.

Planting consists in laying stalks of sugar cane in prepared furrows which run across the field at intervals of from 5 to 7 feet, and in covering the seed cuttings to a depth of from 3 to 6 inches with well pulverized earth. After the earth on top of the seed has been well packed by heavy field rollers, there is nothing further to be done except in the way of cultivation and drainage. Planting is usually done in the spring, although in southern Louisiana it can be done satisfactorily in September, and even through the fall and winter until the end of March.

PREPARATION OF SEED CANE.

Putting up seed is generally commenced about the middle of October. The cane is cut at the ground level and two rows of stalks are thrown into a furrow, the leaves being so distributed as to cover the stalks. The cane furrow is then covered with earth, which is rolled until it is smooth and compact, after which the safety of the seed depends upon thorough drainage.

PLANT AND RATTOON CANE.

Planting, as has been stated, may begin as early as September and is usually completed by the early days of March. The crop which springs from this planting is called "plant cane," and is cut for the mill in November and December. The stumps or rations left in the ground will produce the following year about 75 per cent as much cane as the initial crop of plant cane.

INTRODUCTION OF NEW VARIETIES IN LOUISIANA.

Sugar cane is a tropical plant, and must be harvested before cold weather has ruined its essential properties, and the seed cane must be protected from injury during the cold and rainy season. The varieties of cane first planted in Louisiana—the Creole, or Bourbon, and the Otahaiti—were so sensitive to climatic conditions that their cultivation in that state was found to be impracticable.

Mr. John J. Coiron, while on a visit to St. Simon Island, off the coast of Georgia, observed the luxuriant growth of a purple and yellow striped variety of cane, which in 1814 was brought into Georgia from the island of St. Eustatius, to which it had been imported from Java. This fortunate visit of Mr. Coiron resulted in a determination to procure specimens of the striped cane for his plantation at St. Sophie, a few miles from New Orleans. In 1821 Mr. Coiron secured these samples and the results of his experiments were so satisfactory that in 1825 he imported a quantity of seed plants. From that date the cultivation of sugar cane was placed upon an assured footing.

After Mr. Coiron had shown the value of the newly imported cane, the search for new varieties became constant, several being introduced from Monterey, Mexico, soon after the war. These canes, of a purple variety, supposed to be the Black Java, have developed a degree of hardiness which fits them admirably for cultivation in latitudes several degrees colder than the tropies, and several parishes in the more northern portion of the cane belt of Louisiana have become large producers of sugar through their cultivation.

THE SUGAR INDUSTRY SINCE THE CIVIL WAR.

As a result of the disastrous effects of the Civil War, Louisiana's sugar crop fell from more than 100,000 tons to 5,331 tons in 1864. Owing, however, to the very high prices which prevailed during the latter part of the war, and immediately thereafter, the prospects of great profits induced the Louisiana landowner to make great efforts to restock his plantation with animals and implements, and as a result of this impetus the industry soon revived and the search for better varieties of cane was again instituted.

In 1872 Mr. P. M. La Price went to the Eastern Hemisphere, seeking a variety of cane which might be acclimated to Louisiana. After a long and difficult search he returned, bringing a valuable greenish-yellow cane, which not only stands the rigors of Louisiana winters, but also produces a large per cent of high grade sugar and sirup. In 1877 Mr. Le Due, then the commissioner of agriculture, introduced the "Zevinga," a Japanese variety, and in 1886 the Experiment Station introduced over 75 varieties.

At the present time the only canes of approved and reliable qualities for cultivation in Louisiana are the "purple" and the "ribbon" (Black Java and Striped Java), and the green cane introduced by Mr. La Price, but great hopes are being built upon the success of the Demarara seedlings, Nos. 74 and 95. The tests in the parish of St. James, made by Mr. H. Tremoulet, of No. 95, a red cane, and No. 74, a green cane, have met with most encouraging results, but a succession of crops and a variety of winter weather will be necessary before a definite opinion as to their availability can be formed. If these canes prove of permanent value, it will be due to the intelligent and persistent exertions of the English

botanists and agricultural chemists of Demarara and the adjacent islands. Animated by the same spirit which prompted the French and German beet-root chemists and field workers, and believing that their methods were correct and that nothing in the way of improvement was to be expected from the continued propagation of cane from the eyes of a parent cane, they determined to discover the unknown germinative powers of the socalled seed. With restricted means, and aided solely by the climate and soil of the tropics, they commenced their labors which were to result in a demonstration of the fertility of the cane seed and the propagation of the new varieties.

Experiments have been carried on at the agricultural station at Audubon Park, New Orleans, and it has been shown that for every 2,000 pounds of stalks of purple cane, the roots, leaves, and tops furnish 1,511 pounds of matter which is very much in the way of the next season's cultivation; the striped cane, however, furnishes only about 1,154 pounds of such waste to every 2,000 pounds of stalks.

Table III gives the analysis of the two varieties of cane generally cultivated in Louisiana.

TABLE III.—ANALYSIS OF SUGAR CANE IN LOUISIANA. A.—PURPLE CANE.

	Water.	Organ- ic mat- ter,	Ash.	Nitro- gen.	Phos- phoric acid.	Pot- ash.	Lime,	Per cent of whole plant,	Pounds per ton of stalk,
Roots Stalks Leaves Tops	74, 34 79, 03, 81, 57 82, 05	$23.321 \\ 20.357 \\ 15.955 \\ 15.826$	2, 212 0, 559 2, 890 1, 934	0. 127 0. 054 0. 085 0. 190	0.072 0.052 0.035 0.086	0.070 0.061 0.088 0.098	0,103 0,026 0,156 0,106	$\begin{array}{r} 3.84 \\ 56.97 \\ 24.04 \\ 15.15 \end{array}$	135 2,000 844 532

D CONDITION	CLANT
BSTRIPED	OVIATE.

Roots 70.90 26.378 Stalks 79.91 19.626 Leaves 81.57 15.609 Tops 81.11 16.497	0.620 0.044 2.787 0.084	0.088 0.065 0.017 0.039 0.172 0.106 0.184	0.029 63.40 0.159 20.80	118 2,000 656 385
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INTRODUCTION OF THE DIFFUSION PROCESS.

While mention has been made of the roller mill as the most common form of machinery used for the extraction of the cane juice, it must not be concluded that this is the only form of apparatus which has been used for the purpose.

In 1876 an attempt was made to introduce the diffusion process for the manufacture of cane sugar. The machinery was brought from Germany and was not adapted to the work demanded of it, but the experiment served to illustrate the mechanical differences in the manufacture of sugar from sugar cane and from beet roots. Within a few years, however, the diffusion idea gained such popularity in the planting community that 11 complete diffusion houses were established. At present there are not more than three or four in working condition; the process having become unpopular owing to the fact that the chips were difficult

to remove because of their great weight; moreover, the loss of the bagasse as a fuel element was hardly counterbalanced by the increased yield of sugar.

At this time there is discussion as to the value of the chips or bagasse as a raw material for the production of paper stock. If the use of oil deprives bagasse of its relative value as fuel, and the new machinery converts bagasse into paper stock at no greater cost than is now contemplated, it is possible that diffusion batteries may be the prominent feature of the future.

While the improvements in the culture of sugar cane since 1860 have been most important, the machinery now in use, although still based on the same general line as that of forty years ago, is so much more efficient in its general characteristics as to strength and size as to render comparisons almost ridiculous.

An important improvement in the Louisiana sugarhouse was the installment of wagon scales at the cane sheds, upon which every load of cane could be weighed. This innovation afforded the means whereby the suspicious or ignorant cultivator could be convinced that he was receiving his due.

MODERN CHANGES IN THE MANAGEMENT OF SUGAR PLANTATIONS.

One of the most noticeable changes in the management of sugar estates is the growing tendency to buy everything used on the plantation. In the earlier days of this industry but few articles were purchased. Aside from iron for kettles and sundry forge purposes, almost everything was homemade.

The manufacture of sugar to-day is unattended by many of the accessories which formerly made the rolling season the merriest part of the year. The work was hard and incessant, each able-bodied man on the plantation, free or bond, being expected to bear his part for eighteen hours out of the twenty-four; the fires under the steam boilers and kettles were continuous from midnight on Sunday until midnight on Saturday; every muscle was urged to its utmost, and yet every one on the plantation was glad when the sugarhouse was opened and the tall chimney smoked.

The preliminary step toward sugar making was the cutting and hauling of the cane for a couple of days before the fires were lighted. The teams were allotted to the most skillful teamsters, and the strongest men were appointed as loaders. The able-bodied men and women were supplied with cane knives, and when the cutting began each took a row and began to shear away the leaves which still adhered to the stalks of cane, and with one deft blow cut off the top "at the last red joint." The cutter then severed the cane at the earth level and threw the stalk on the "heap row" at his side. This work was the easiest of any done on the plantation, the use of the keen knives being more a matter of skill than of onerous labor. At the summons of the overseer the loaders and teamsters lifted the cane from the heap row into the wagon or cart. In the olden days all the cane was taken to the sugarhouse in wagons or carts, but later the Cuban plan of transvay transportation was adopted on all the larger plantations, and the cane is now transferred from the wagon to the tram car and quickly taken to the sugarhouse.

This forced activity was chiefly due to the searcity of labor. During the rolling season the average wage of 75 cents per diem during the planting and cultivating season rose to a dollar with rations, or a dollar and a quarter without. The primitive machinery which formerly struggled for three or four months with a crop has been supplanted by a complicated and powerful apparatus which in sixty days reduces twice as much cane as formerly came to the sugarhouse. In 1850, 1,490 sugarhouses were required to handle a crop of less than 154,000 tons; in 1900, 281 sugarhouses made over 325,000 tons of sugar.

MACHINERY AND METHODS OF MODERN PLANTATIONS.

In the well-appointed sugarhouse of to-day, the most important and expensive machinery consists of the double or triple mill and engine. A crusher to prepare the cane for the mill, driven by a separate engine, completes the milling apparatus. From the mill the juice flows to the sulphur machine, where sulphurous gas is injected into the sticky stream for the purpose of bleaching and rendering it antiseptic.

In the tropics cane juice begins to turn acid in less than thirty minutes after it leaves the mill. The antiseptic properties of sulphurous gas are of value even in Louisiana, where decomposition is less rapid.

From the sulphur machine the juice passes to the clarifiers or defecators, where, under a gentle heat and lime, the grosser and insoluble impurities are separated. Thence it goes to the double or triple effects, where the clear juice is boiled at a reduced temperature, consequent upon a reduced atmospheric pressure, until it becomes sirup. As soon as settled and cooled, it is transferred to the vacuum strike pan, where the process of sugar boiling continues until the operator determines that he has extracted from the sirup the largest quantity of crystals of first jet that it is capable of rendering.

To the mixer, a semicylindrical vessel large enough to hold the contents of the vacuum pan, in which moving arms or paddles mix the contents constantly, is the next step in the process; thence to the centrifugal machines, from which the sugar is delivered ready for immediate consumption. The centrifugal machine consists of a vertical shaft making about 1,200 revolutions per minute, provided at its lower extremity with a metallic basket, in which the sugar and molasses, or masse cuite, coming from the mixer is washed with water during its rapid revolutions until, by centrifugal force, the sugar is freed from the molasses, which escapes through the fine woven wire that forms part of the basket.

The molasses flies from the periphery of the basket in the outer casing and goes to tanks, where a sufficient quantity is collected to enable the sugar maker to boil a strike of second sugar. Second sugar, the result of the boiling of the molasses which escapes from the first sugar, requires several days for granulation, but after passing through the mixer and centrifugals a fair article of sugar results, somewhat similar to the muscovado made in the West Indies and in Louisiana fifty years ago.

Up to 1860 almost every sugarhouse equipped with a vacuum pan was fitted to use boneblack as a clarifying or refining agent, an article no longer used in the state. The use of sulphurous gas has enabled a reasonably white or choice yellow sugar to be made directly from the cane, a thing the pioneers in the industry thought impossible.

PURCHASE OF CANE AND BASIS OF PAYMENT THEREFOR.

In the antebellum days the universal custom was for each planter to make the sugar from his own cane. The business was profitable, and the purchasing of cane by one planter from another was unknown.

During the war many sugarhouses were more or less damaged, and at its close the average planter was without means to grow cane or to reduce it to sugar. The plan was devised of making a partial separation of the industry, by which a few planters or central factories should reduce to sugar the cane grown by a much larger number of planters. The introduction of such a system involved many difficulties, owing to the varying percentages of sugar content in cane grown on different plantations or in different years. The first arrangement between cane growers and mill operators was to allow the cane grower one-half the sugar made from his crop. Later a system of purchasing cane was arranged which supplanted this share system of reduction, the cane grower being paid, for cane delivered, a sliding scale of prices per ton, which varied with the price of prime vellow clarified sugar in New Orleans. The usual price for a ton of cane is 80 pounds of such sugarone-half the probable yield of that quantity of cane.

CLIMATIC CONDITIONS AND CHANGES.

It is considered essential that there should be a full average rainfall, properly distributed throughout the year, to produce liberal crops of cane; but as the records show a range from 36.5 inches to 83 inches, the climatic variations are, in reality, very great, and without facilities for irrigation, during abnormally hot and dry springs and summers, there must be, necessarily, a wide range in the quantities of cane produced per acre.

At one time it was supposed that the hygrometric condition of the atmosphere was an important factor in the growth and richness of the cane; and although its importance has deteriorated in the eyes of the skilled agricultural chemist, there is doubtless more in the theory of the virtues of saturated atmosphere than is at present believed.

In this connection it is well to note the great changes which have taken place in the winte: climate of southern Louisiana. There is no reason to doubt that in the earliest years of the Nineteenth century the seedling sweet orange matured its crop year after year. In 1812 there were sweet-orange trees in the garden of the convent of the Ursuline Nuns, at New Orleans, which produced fruit in large quantities. In 1885 there were many hundreds of sweet-orange trees which produced from 4,000 to 5,000 oranges annually, and so sure was the orange crop considered that it was the custom of the fruit merchants to buy the produce of certain groves when in the flower in March or April. Prior to the destructive frosts of January, 1886, the orange groves extended along the Mississippi to a point 35 miles above New Orleans, and in the southwestern part of the state as far as Lake Charles and the Sabine. Now there are no groves and only a few scattering trees have been planted since 1899.

CAUSES FOR THE SHORT CROP OF 1899.

On February 7, 1895, in the orange-growing district in Louisiana, the mercury fell to a lower degree than had ever been recorded before, but on February 12, 1899, a still lower point was touched. The ruin that fell upon the young orange groves was practically complete, yet the sugar cane, while severely injured, was far from being destroyed. The sweet-orange tree, a seedling that was considered a very hardy plant, succumbed to the cold spells mentioned above, but the sugar cane survived.

The harvest season of 1877 was marked by peculiar climatic conditions. The months of September and October had been rainy, and November opened with high temperature and soaking rains; but on the 10th of that month all the ungathered cane was killed by frost. The plant was so immature that it could not be put in windrows to advantage, and the planters found it to their interest to rush the cutting and grinding as fast as possible, but the roads were so bad and the fields so drenched with rain that hardly more than a fourth of the usual load of cane could be hauled to the sugarhouse. In ten days after the first frost the cane would not make sugar and more than half of the crop was lost. In the spring the remains of the standing canes were cut, piled, and burned to clear the way for the next crop.

The accidents that befell the crop of 1898 were very similar to the disasters of 1877. The month of September found the crop small and apparently stunted by a long drought, but rains and great heat started a renewed growth, and by the middle of October the cane had attained a normal size, and was apparently in fair condition, but very immature and watery. The rains had not yet ceased when, on the 23d of October, the state was visited by the earliest killing frost on record, and a very large proportion of the crop was absolutely ruined. The average yield of sugar was less than 105 pounds to the ton of cane, instead of 160 as is usual, and some planters obtained only 98 pounds per ton.

Owing to the unusually early frost in October, 1898, there was not as much seed cane put up that fall as usual, and the proportion of spoiled seed was very large when spring planting began in 1899, especially as much of the seed cane was further injured by the great cold of February 12 of that year. The area in plant cane in 1899 was small, and the stubble had suffered more from the very wet and cold winter than usual. The returns from the year's work were about one-half of that which a normal crop would have yielded.

SUGAR PRODUCTION IN LOUISIANA AND IN THE TROPICS.

One of the most noticeable differences between the cultivation of cane in Louisiana and in the tropics is in the cost of the seed cane as used in the island of Cuba, for example, and in Louisiana. If we take for granted that the thinnest planting or seeding likely to be successful in Louisiana is "two canes and a lap," which means that two canes are laid side by side in the furrow with a slight doubling at the ends, then not less than from four to six tons of cane (all of which is fit for the sugarhouse) are necessary to plant an acre; and this means an average value, at present prices, of about \$16. In the tropics, however, conditions are entirely different. Intelligent observers from Cuba describe the process of planting in almost the same terms as did Mr. Bryan Edwards, who wrote at the end of the Eighteenth century. In his history of the West Indies we have a neat picture of how the tops of the canes that have been cut off as unfit for sugar making are dropped into holes about 18 inches square dug out with a hoe, at intervals of from 4 to 6 feet.

The only expense in planting in the tropics is for labor, the material used for seed being of no value. In fact, methods employed in some parts of Cuba are very primitive. Rather than give one plowing to land that has been in cultivation for ten years the planter selects a new area, cuts away the underbrush, and girdles the trees, and by the help of fire gets a clean surface and plants it in cane, not cultivating the land on which the stubble is beginning to fall to 12 tons to the acre, alleging that the taking in of new lands is less expensive than plowing the land that has been ten years in cane.

Some of the plantations in Louisiana have been in cane about one hundred years, and the soil is still considered, worthy an expenditure of from \$6 to \$8 per acre for commercial fertilizer when called upon for a plant cane crop, and \$4 to \$6 per acre for rattoons.

In Cuba there are many planters who have no plows, their only implements being hoes for digging "cane holes" and machetes for cutting cane for the mill. In Louisiana a pair of mules, costing from \$300 to \$400, is necessary to cultivate something less than 25 acres in cane. In Cuba, where little plowing is done and draft animals are used only to haul cane to the sugarhouse, two yokes of oxen, worth \$40 a yoke, answer the purpose to the entire satisfaction of the planter.

In Louisiana the sucrose content of cane is rarely higher than 14 per cent, usually not more than 12 per cent, which allows about 8 per cent of commercial sugar to the ton of cane. In Cuba the sucrose content is often as high as 18 per cent, and 12 per cent of commercial sugar is the general output. The yield of cane in Louisiana is about 18 tons per acre for plant cane and 14 tons for stubble. In Cuba new land is expected to produce from 35 to 50 tons. In Louisiana the seed cane often rots either before or after planting, but in Cuba this never occurs, and while the seed cane in Louisiana can not be replaced in the same season, seed for planting is always available in the tropics, and land lying idle for want of sound seed is unknown.

As shown by abundant evidence, sugar can be produced in Cuba for one and a half cents per pound; but in Louisiana, even on a particularly fine plantation and under the best management, the cost of sugar is not less than three cents per pound.

GENERAL STATISTICS OF THE SUGAR INDUSTRY IN LOUISIANA.

The following figures present a summary of the present position of the sugar industry in its relation to the other branches of agriculture in Louisiana. The statement of acres of farm land, number of farms, and value of farms is for June 1, 1900, while that for crops and products is for the preceding year. A few figures are also given for the crop year 1898.

Farms in 1900.—The total number of farms, June 1, 1900, was 115,969, of which the number raising cane for sugar and sirup making was 13,881, or 12 per cent; of the latter the number raising sugar cane was 11,774, or 84.8 per cent, and the number raising sorghum cane 2,107, or 15.2 per cent. In addition, there were 11 large plantations and a number of smaller ones growing cane for seed, but making no sugar nor sirup, and selling no cane. Land Under Cultivation in 1899 and Its Uses.—The area of land in all crops in 1899 was 3,421,751 acres, of which 277,903 acres, or 8.1 per cent, were used for growing sugar cane and sorghum cane; of this area 276,966 acres, or 99.7 per cent, were devoted to growing sugar cane, and the remaining 937 acres, or 0.3 per cent, to growing sorghum cane. Of land devoted to crops other than cane for making sugar, there were used for cotton, 1,376,254 acres, or 40.2 per cent; for corn, 1,343,756 acres, or 39.3 per cent, and for all other crops, 423,838 acres, or 12.4 per cent.

Cane Produced in 1899.—The total quantity of cane made into sugar, molasses, and sirup, was 2,123,354 tons. The number of tons of cane converted into sugar which were grown by manufacturers on their own lands by labor hired by themselves was 1,072,468; the number of tons grown by tenants and purchased by the manufacturers was 314,461; and the number purchased from others by manufacturers and the eight central factories was 736,425. The cane of 1899 was reduced to sugar by 274 sugar factories.

Cane Produced in 1898.—In 1898, the 351 central factories and large plantations handled 4,677,174 tons; 2,844,821 tons, or 60.8 per cent, were grown by owners of sugarhouses; 350,699 tons, or 7.5 per cent, were grown by tenants; 1,482,154 tons, or 31.7 per cent, were purchased from others. No tabulation was made of the relative amount of cane converted into sirup in 1899, or 1898.

In 1899, cane was grown for sugar or for seed by 320 plantations. The area devoted to cane for making sugar comprised the following: 59,246 acres of plant cane, with a product of 873,315 tons; 61,997 acres of first year rattoons, yielding 189,211 tons; and 5,922 acres of second year rattoons, yielding 9,942 tons. The cane for seed, aggregated 468,504 tons, or 30.4 per cent of the total sugar cane crop, and comprised the following: Plant reserved for seed, 96,025 tons; first year rattoon, 339,410 tons; and second year rattoon, 33,069 tons.

Sugar and Molasses Made in 1899.—Total quantity of sugar, 319,166,396 pounds (\$13,099,559); total quantity of sirup, 2,480,856 gallons (\$564,842); in addition sirup subsequently made into sugar, 923,466 gallons (\$157,391); total quantity of molasses, 11,703,877 gallons (\$1,277,384). Of the total amount of sugar produced 8,874,929 pounds were made by old processes, and 310,291,467 pounds by modern processes; of new process sugar, 251,789,270 pounds were firsts, 47,984,887 pounds, seconds, and 10,517,310 pounds, thirds.

In the crop year 1898, there was produced on the large plantations and in the central refineries from cane grown and purchased: Sugar, 556,994,942 pounds (\$22,197,168); molasses, 24,164,689 gallons (\$1,661,897); sirup, 2,774,961 gallons (\$432,481).

Sugar made by modern processes comprised: Firsts, 437,370,968 pounds; seconds, 87,523,291 pounds; thirds,

14,196,078 pounds; by the old open kettle process, 17,904,605 pounds.

The 3,870 plantations and farms making the sugar industry their principal source of revenue in Louisiana constituted only 3.3 per cent of the total number, and had an area of 1,209,837 acres, or 10.9 per cent of all farm area.

The value of land and improvements, exclusive of buildings, was \$33,063,960; value of buildings, \$11,-027,060; value of implements and machinery, including apparatus for making sugar, and railroads for handling cane, \$21,591,940; value of live stock, \$4,747,109; making a total fixed capital of \$70,430,069, or 35.5 per cent of all the fixed capital in Louisiana agriculture.

In the 79,468 cotton farms the investment was \$67,505,143, and in the 32,631 other farms it was \$60,-601,694. The sugar farms constituted 3.3 per cent, with a fixed capital of 35.5 per cent, while the cotton farms constituted 68.5 per cent, with a fixed capital of 34.0 per cent. The other farms constituted 28.2 per cent, with a fixed capital of 30.5 per cent.

Including what was fed to stock, sugar farms produced \$18,019,470, cotton farms \$36,823,212, and all other farms \$17,824,620. The value of products not fed, or gross farm income, was as follows: For sugar farms, \$16,656,300; for cotton farms, \$33,523,192; and for all other farms, \$15,959,840. The ratio of income to total fixed capital for sugar farms was 23.6 per cent, for cotton 49.7, and for all others 26.8.

The value of cane kept for seed was \$3,483,633.

The expenditures for labor and fertilizers on the 3,870 farms making sugar their chief source of income were \$6,931,470 and \$709,970, respectively, the total constituting 45.9 per cent of the gross income of the farms.

The 320 plantations in Louisiana that grew cane extensively in the year 1899 reported the following expenses: For labor and salaries, \$4,194,862; fertilizers, \$468,589; feed purchased, \$481,502; labor on plantation railroads and maintenance thereof, \$116,276; making a total of \$5,261,229, or an average of \$4.37 per ton. The average contract price at which cane was bought was \$3.56, showing a loss of 81 cents per ton in the field operations.

The large sugarhouses located on plantations, and the central factories purchasing all cane converted by them, numbered 351 in 1898, and 310 in 1899. The expenses of the 351 sugarhouses for 1898 (exclusive of the cost of cane) were as follows: For labor and salaries, \$3,548,982; fuel, \$1,688,295; mill supplies, \$106,162; freight expenses, \$291,309; taxes, \$437,398; insurance, interest, and miscellaneous, \$1,842,197; total, \$7,914,343. The average cost per ton of handling 4,677,174 tons converted into sugar was \$1.69.

For the crop of 1899 the expenses of the sugarhouses were as follows: For labor and salaries, \$1,316,814; fuel, \$644,665; mill supplies, \$50,627; freight, \$134,172; taxes, \$305,355; insurance, interest, repairs, etc., \$949,-935; total, \$3,401,568. The average cost per ton of handling 2,123,354 tons converted into sugar was \$1.60. The value per ton of cane converted in 1898 was \$5.19 and in 1899, \$7.11, showing a small margin of profit for the sugarhouse operations of 1898, and a large profit in 1899.

SUGAR IN HAWAII.

History.—The sugar industry in Hawaii has not been attended by failures such as discouraged the early attempts at cane growing in Louisiana. There is historical evidence that sugar cane is one of the few indigenous products of the islands, which seems borne out by the fact that, as in Asia, its organs of fructification possess the power of fecundity, while in America cane can be propagated only from cuttings.

Captain Cook, on his first visit to the group in 1778, mentioned, among the articles brought by the natives to his ship, the product which has since become the commercial backbone of the islands. He found cane growing wild and luxuriantly on the lowlands, and on arable levels between the mountain ranges, but the natives made no use of it except in its raw state for food. L. L. Torbert, one of Hawaii's pioneer planters, is authority for the statement that sugar was first manufactured on the islands by a Chinaman, who arrived at Honolulu in 1802 upon one of the vessels engaged in the sandal-wood trade. He brought boilers and a stone grinding mill, but, after reducing one small crop, returned to his native land with the entire outfit. The next sugar-manufacturing venture recorded was that of Don Paulo Marin, who engaged natives to crush the cane on large wooden poi boards with their crude stone pounders; the juice thus extracted was collected and boiled down in a small copper kettle, but the process being necessarily wasteful and only slightly remunerative, was soon abandoned. Although numerous attempts were made to manufacture sugar and molasses on a small scale during the next twenty years, the first mill of any consequence was erected in 1835 by Ladd & Company at Koloa, on the island of Kauai. They established the first sugar plantation in the same year, under a concession secured from the king, granting them an extended lease of lands on Kauai for the purpose of agricultural development. Although labor was cheap, little progress was made, and from ignorance of economical methods of cane culture the venture proved unsuccessful. Despite the crude and wasteful process of manufacture employed by the Koloa mill, others of the same kind were established, and in 1837 the first exportation was made; the amount increasing from \$300 that year to \$6,200 in 1838 and \$18,000 in 1840. Sugarhouses then generally consisted of a native grass hut, equipped with wooden rollers for crushing the cane, and whaler's try-pots for the reduction of the juice. The motive power was commonly furnished by horses or oxen, though in some cases waterpower was utilized. The sugar made with such an equipment was, of course, of an inferior grade, being the residue after the juice had been reduced to sirup and drained off through the bottoms of perforated barrels.

Although D. M. Weston, of Hawaii, is said to have invented and put in use on a Maui plantation, in 1851, the first centrifugal machine ever used for drying sugar, the primitive processes of manufacture heretofore mentioned continued in vogue for some years, and it is, therefore, not surprising that the industry gradually waned until the introduction of steam as motive power, and the adoption of modern vacuum pans for evaporation, in 1858. As a result of these innovations, the number of plantations, which in 1857 had fallen to 5, was more than quadrupled and Hawaii's history as a sugar-producing country virtually dates from that period, although later influences served to largely increase the business.

The industry received its first decided impetus from the inflation of sugar values incident to the Civil War; the second was furnished by the commercial reciprocity treaty with the United States, which went into effect in 1876, while the more recent introduction of irrigation has proved the most potent factor in its upbuilding. The extent to which these influences affected the industry may be seen by a comparison of the exports in 1863, which hardly exceeded 5,000,000 pounds in all, with those of representative years of the other two periods, which were approximately 26,000,000 pounds in 1876 and 542,098,500 in 1899.

It was only after years of persistent effort to establish reciprocal commercial relations with the United States that success was achieved. The treaty, which was formally announced in 1875, practically created free trade between the islands and the United States, and under its provisions an era of unexpected prosperity began, the production of sugar, and of rice as well, increasing enormously. From a sugar production of 26,072,429 pounds in 1876 the output has increased to 542,098,500 pounds in 1899, a gain of 1,979 per cent. This phenomenal growth brought with it a development of lands formerly unused, a reclamation of wild and barren areas, the erection of costly mills, the establishment of an interisland commerce, a ready employment of native labor, a large accession of immigrants, and a great increase in island revenues, as a result of which manifold improvements were made.

The progress of this giant industry also brought with it serious disadvantages. It has resulted in a centralization of capital which has stunted other branches of agriculture and discouraged the opening up of new industries. It has directed attention toward industrial development to the exclusion of more important considerations, and the islands are now burdened with a class of laborers undesirable as permanent residents. The labor problem has for years taxed to the utmost the resources and the ingenuity of Hawaiian planters. Dating from the time when the sugar industry began to expand, the struggle to secure suitable plantation labor has continued to the present time, and the difficulty is now further than ever from settlement. Great sums of money have been spent to provide for the growing needs of this industry, and thousands of Japanese, Chinese, and Portuguese have been imported. While the importation of Asiatic, or "coolie," labor has heretofore satisfied immediate requirements, the planters have been beset with new difficulties since annexation in 1898, for the Chinese-exclusion law became effective in the new territory, and there has been practically no immigration of unskilled labor since. Despite this obstacle, new plantations continue to be planned and existing ones enlarged, but the scarcity of labor has unquestionably retarded the expansion of the industry, and will continue to do so until some remedy is devised.

Practically the whole crop is exported, and almost all to the United States. The following table of sugar production since 1875 shows how the industry has thrived:

Year,	Quantity, pounds.	Yoar.	Quantity, pounds.
1875 1876 1877 1878 1879 1879 1878 1879 1880 1880 1881 1883 1884 1883 1884 1883 1884 1885 1886 1886	$\begin{array}{c} 25,575,965\\ 88,481,458\\ 49,020,972\\ 68,584,871\\ 98,789,483\\ 114,177,988\\ 114,107,155\\ 142,654,923\\ 171,350,314 \end{array}$	1888 1880 1890 1801 1802 1803 1804 1805 1805 1806 1807 1807 1808 1809	235, 888, 346 242, 165, 83 250, 780, 46 274, 983, 588 266, 636, 711 830, 822, 87 300, 684, 908 294, 784, 811 443, 569, 285 520, 537, 011 444, 963, 036 542, 098, 500

Among the questions which arose when it was proposed in 1875 to admit Hawaiian sugar free of duty was that of the probable future production of sugar by the islands, the annual output at that time being some 25,000,000 pounds, with but seant prospects of much increase. The stupendous impetus which was to result from the reciprocity treaty was not foreseen; nor were the possibilities of a vast irrigation system then realized. In the fiscal year 1900-1901, the exports were 690,-882,132 pounds. Four of the islands, Hawaii, Kauai, Maui, and Oahu, are now producing sugar. It is probable not only that the area now planted in sugar cane in these islands will be greatly increased, but that others of the group, will be utilized, a crop having already been produced on Lanai, and extensive experiments being in progress on Molokai.

The islands are of volcanic origin, and the land most generally used for cane cultivation consists of shelves or ledges surrounding the bases of the mountains or central elevations. These fertile levels have been formed by the washings of the volcanic detritus brought down by rain from higher altitudes, the alluvium having been retained by the coral reefs which form a barrier just outside the shore line. The best soil is of a reddish color, and resembles pounded brick mixed with vegetable humus. The lighter-colored soils, while not so productive, are sufficiently fertile to yield abundant crops of cane.

The rainfall varies in the cultivated regions of the islands from 30 to 300 inches. On the windward or rainy side the production of sugar is neither so great nor so certain as on the leeward or dry side, but the difference in expense is such that the profit in cane is about equal. In addition to the usually regular rainfall, upon which most of the plantations on the windward side rely, two forms of irrigation are used. By one method surface water is taken from the streams and delivered to the soil through canals and ditches, as in the arid sections of the United States, and by the other, an artificial supply of water is pumped from artesian wells to altitudes varying from 75 to 600 feet. When the rainfall is inadequate some of the plantations on the windward side employ surface irrigation, while those on the leeward side depend entirely upon irrigation from subterranean supply. The temperature being considerably higher and the water supply regular on the leeward side, the yield of sugar is greater. Owing to the nature of the soil and the slope of the land, the question of drainage, which is so important in Louisiana, does not have to be considered on the islands, the difficulty being to procure sufficient water.

In Hawaii the expense of planting is reduced to a minimum, the tops of the cane being used for the purpose. This gives the islands a great advantage over the cane-producing areas in Louisiana, where in 1899 cane to the value of \$3,483,623, or 23.8 per cent of the value of the entire sugar crop, was kept for seeding purposes. The following method is employed in planting on the islands: As soon as the cane tops are dropped in the furrow made by heavy plows, the hoes pass along and cover them with the banked-up earth which has been left in high ridges by the plows. The water is then turned on, a tiny rivulet running down each cane row, and in a few days the young sprouts are above the surface and ready for fresh earth and more water. This process is continued until the stalks are large enough to lose their lower leaves, when the process of threshing (i. e., pulling the lower leaves from the growing stalks and throwing them on the ground to prevent the growth of weeds and grass) is begun. But little other cultivation is necessary if the cane be sufficiently watered.

The three well-marked varieties of cane grown generally on the islands are those with yellow stalks, growing near the seacoast line, the dark purple variety, grown higher up the mountain side, and a striped purple and yellow cane, which is found at the highest altitudes. The Lahaina, so-called from the place on the island of Maui where it was first planted, was brought from the Marquesas Islands, and is generally regarded as the best variety cultivated.

As a result of the progress made in the sugar industry during the last quarter of a century, Hawaii now ranks third among the cane-sugar producing sections of the world. Java and Cuba each produce more sugar, but on neither of these islands does the average yield per acre equal that in Hawaii, where it is from 60 to 70 tons of plant cane per acre, and from 30 to 50 tons of rattoon cane. The per cent of saccharine content in Hawaiian cane is also very high, an average of but 8.2 tons of cane having been required in 1899 for the production of 1 ton of sugar. The average production of sugar from an acre of cane was 4.1 tons, but in many localities yields of 8, 10, and 12 tons per acre are reported, while in certain sections of Oahu there are authenticated cases on record of 16 tons having been produced per acre.

The methods employed in cane cultivation are more advanced in Hawaii than in any other sugar-producing center of the world. Steam and gang plows are in general use, and on plantations where the rainfall is insufficient, costly pumping plants have been erected. One of these pumping stations on the island of Oahu represents an outlay of \$1,750,000. Modern appliances for the reduction of cane have also been introduced, and very recently some of the miMs have installed crushing apparatus and other machinery of an improved type in order to secure a slightly increased degree of extraction over that possible with the equipment formerly used. Cane is generally taken from the fields to the mills by means of private railroads or by a system of flumes.

The difference between the profit to be derived from the cultivation of sugar cane in Hawaii and in Louisiana is apparent in a most cursory examination. In Louisiana, including plant and stubble cane, the average production of an acre of cane is about 17 tons, which yields about 2,700 pounds of two qualities of sugar. In the Hawaiian Islands the average yield of cane is over 34 tons, giving about 8,300 pounds of sugar. The crop is worth on the average about \$290, and its cost \$185, per acre, but for a crop worth as much as \$800 per acre the cost is only about \$300, and while only about half of the acreage sends cane to the mill each year, the profits are still more than proportionate to the capital invested. The cost of production in Louisiana is not less than 3 cents a pound for an average crop, leaving but a small margin for general wear and tear, or offset for contingencies. Estimating the average production at 2,700 pounds to the acre, the profit at one-half cent a pound is less than \$15 per acre. As previously stated, Hawaiian planters possess a most decided advantage over those of Louisiana in the matter of the saving on seed for replanting, and in the additional fact that in Hawaii the refuse cane, or bagasse, furnishes sufficient fuel to operate the sugar mills. The importance of this item as a factor in the success of the industry becomes evident when it is known that in Louisiana, where considerably less sugar was produced than in Hawaii, fuel to the value of \$644,655 was burned in 1899, in addition to the bagasse used. These advantages, combined with the superior conditions of climate and soil, make the sugar-raising areas of Hawaii the most remunerative in the world.

General Statistics of the Sugar Industry in Hawaii.— The following figures give a summary of the sugar industry in its relation to other branches of agriculture in Hawaii. The statement of acres of farm land, number of farms, and value of farm property is for June 1, 1900, while that for crops, or products, is for the year 1899. A few figures are given also for the crop year 1898.

Farms, 1900.—The total number of farms reported, June 1, 1900, was 2,273; the number raising cane for sugar and sirup making was 184 or 8.1 per cent; the number of sugar farms was 170, or 7.5 per cent; the number of farms making sugar was 42, or 1.8 per cent; the number of farms reporting cane sold was 138, or 6.1 per cent; the number of farms growing cane which had not then reached maturity was 4, or 0.2 per cent.

Land Under Cultivation in 1899 and Its Uses.—The total area of land under cultivation in 1899 was 86,854 acres; that used for growing sugar cane was 65,687 acres, or 75.6 per cent; and that used for all other crops and products was 21,167 acres, or 24.4 per cent.

Cane Produced by Growers in 1899.—The total number of tons made into sugar (handled by 44 plantations and central factories) was 2,239,376; that grown by manufacturers on their own land with labor hired by themselves, was 2,066,832 tons; that purchased by manufacturers from others was 172,544 tons; the plant cane used for making sugar, 35,282 acres (1,389,152 tons); first year rattoons, 24,746 acres (675,595 tons); second year rattoons (exclusive of the tops preserved for seed), 140 acres (2,085 tons).

Sugar and Molasses Made in 1899.—The total quantity of sugar was 542,098,500 pounds (\$19,254,773). Of this sugar there were of firsts, 466,254,500 pounds; seconds, 75,310,000 pounds; thirds, 534,000, pounds: Molasses (the greater portion had no market value), 4,702,292 gallons (\$8,000). No sirup was made.

The 170 plantations in Hawaii making the sugar industry their principal source of income constituted only 7.5 per cent of the total number, and had an acreage of 1,043,117, or 40.0 per cent of all lands. The value of land and improvements, exclusive of buildings, was \$48,543,391; of buildings, \$2,737,685; of implements and machinery, including apparatus for making sugar, and railroads for handling cane, \$11,319,020; and of live stock, \$1,108,533; making a total fixed capital of \$63,708,629, or 86.0 per cent of all the fixed capital in Hawaiian agriculture.

The investment in all other farms was \$10,376,359, or 14.0 per cent. Including what was fed to live stock, the products of sugar farms were valued at \$19,262,031; and those of all other farms, at \$2,778,700. The income derived from sugar farms was equal to 30.2 per cent, and that from other farms to 26.8 per cent, of fixed capital.

The expenditures of these 170 farms, making sugar their chief source of income, were as follows: Labor, \$6,971,896; fertilizers, \$1,326,407; total, \$8,298,303, or 43.1 per cent of the gross income of these farms.

Expenditures of 46 farms with facilities for manufacturing sugar and for which more detailed reports were obtained were as follows: Labor, \$4,743,256; fertilizers, \$1,209,130; fuel used in operating irrigation pumps, steam plows, and locomotives, and in conducting kindred field operations, \$681,186; feed purchased, \$486,808; maintenance and repair of irrigation works, \$827,932; total, \$7,948,312. These comprise all of the reported expenditures outside of the sugarhouses. The unreported expenses were the rentals paid for the 457,492 acres of land leased from the Government and for the 142,449 acres leased from private persons or corporations, the expenditures for maintaining and repairing machinery, appliances, and buildings in use, outside of the sugarhouses, and the taxes on land owned. These expenses, together with the \$7,948,312 detailed above, are probably nearly, if not quite, equal to the amount, \$9,580,495, which the sugarhouses returned on the manufacturers' schedules as the cost of the 2,226,307 tons of care which they converted into sugar. The average cost of raising a ton of cane and delivering it to the factory may, therefore, be given as \$4.30.

The expenditures connected with the operations of the sugarhouses on these 46 plantations, as distinct from their other agricultural operations, are tabulated with those of the two establishments making sugar but not growing cane. These two establishments are so small comparatively that their inclusion does not materially affect the totals. In 1899 the expenditures of the 48 sugarhouses were as follows: Labor, including salaries, \$1,111,776; fuel, \$57,524; mill supplies, \$181,620; freight charges, \$58,283; taxes and insurance on sugarhouses and contents, \$79,455; interest. repairs, and miscellaneous expenses connected with operation, \$541,278; can purchased from outside plantations, \$671,445; and all other expenses, \$551,854. The total cost of operating the sugarhouses, exclusive of the amount paid for cane purchased, was \$2,581,790, or an average of \$1.16 for each ton of cane converted into sugar. This makes the total cost of raising a ton of cane and converting it into sugar \$5.46, of which amount the cost of the sugarhouse operations represents a little less than one-fourth. On the other hand, the fixed capital connected with the sugarhouses was \$8,654,476, which represents a little less than one-seventh of the total amount invested in the industry. The average value of the sugar produced from a ton of cane was \$8.60, leaving a margin of \$3.14 per ton of cane to cover interest on investment, and renewals of buildings, implements, machinery, etc. After making liberal allowances for these items the figures show a net profit such as is realized in few industries.

The value of the 46 sugarhouses which were located

on plantations, and that of their products, is included in the statistics of the agricultural wealth of Hawaii as reported by the Census Office. Their operations are incidental to the growing of cane on the plantations, and their output is included with the total farm products. Since these houses are engaged in the manufacture of raw sugar, their capital and output are included also in the report of the division of manufactures. To this extent the statistics collected by the two divisions involve a duplication, which will be taken into account in the special report on Wealth, Debt, and Taxation.

SORGHUM CANE.

INTRODUCTION AND USE.

Nearly fifty years ago the agricultural interests of this country became greatly interested in the prospect of a new sugar-producing plant, and since then much time and money have been spent in efforts to obtain sugar from sorghum cane on a profitable commercial scale. Containing a large per cent of sucrose and a small per cent of glucose, it would seem to be a more valuable sugar producer than either sugar cane or beets. But this theory has failed of demonstration, owing to the fact that the juice of the sorghum cane, as extracted by the mill, contains, in addition to sugar and water, a large proportion of starch, dextrin, and kindred elements which operate against its being successfully worked for sugar. From the results obtained by the process of diffusion it was discovered that a foreign substance is extracted from the leaves and sheaths of unstripped cane which renders the product almost unsalable. Machines have, in consequence, been devised by which the stalks are stripped, cleaned, and shredded, and these have been operated with such success as to make possible the extraction of sugar on a paying basis.

Experiments conducted at the sugar experiment station near New Orleans some years ago demonstrated that the climate and soil of Louisiana are favorable to the growth of sorghum, and throughout the northern part of the state, where the tropical cane can not be grown successfully, the cultivation of sorghum cane is very general, not only for the manufacture of sirup but also as a forage crop. In view of the fact that the tropical cane introduced into the state in 1751 was not a commercial success for nearly fifty years, it is possible that sorghum cane likewise will be improved by cultivation and acclimation. When Margraff, the German chemist, began his investigations in 1756, he found that the sugar beet contained only 1.5 per cent of sugar, but now the available output of commercial sugar as delivered from the centrifugal machines is nearly 13 per cent of the gross weight of the beet. It is believed that under the quickening hand of agricultural chemistry not only will the per cent of sugar in the sorghum plant be increased, but that substances will be eliminated which now impede the crystallization of the sugar contained in the sorghum juice.

During the Civil War period almost every farmer in the South grew sorghum cane, and although mills were small and scattered, large quantities of sirup were made. At that time it was thought that sugar making from this cane was impracticable, and as the manufacture of sirup was profitable and the cost of factories so much less than that of sugar factories, few persons cared to incur the expense incident to the latter. The attempts which have been made in the Northern states to obtain sugar from sorghum, have been costly, but have been prosecuted with much energy and perseverance.

Under chemical analysis, sorghum cane has been found to contain as much as 12.2 per cent of sucrose and only 0.6 per cent of glucose.

Fifteen years ago the Rio Grande works, in New Jersey, succeeded in manufacturing an average of 1,400 pounds of sugar per acre of sorghum cane. At the experiment station near New Orleans, five varieties were tried, with the following results:

VARIETIES OF CANE,	Tonnage.	Mill ex- traction, per cent,	Masse- culte, per cent.
Link's Hybrid White Mammoth India Early Orange Honduras.	11.25	61,00 60,50 59,00 60,00 65,00	55.00 47.20 57.00

By a systematic cultivation looking to the development of the sugar-bearing qualities of the sorghum cane, it is probable that this plant, like the beet, will improve in its sugar yield. On account of the impurities in the juice, it has been found not practicable to reduce sorghum cane in factories constructed for handling of the tropical cane. Experiments at the station near New Orleans have demonstrated the necessity of the diffusion process, the mill not being adapted to the manufacture of sugar from sorghum. While the industry is not yet fully developed, it is probable that eventually the growing of sorghum cane for sugar will prove as profitable in northern Louisiana as the growing of beets in California or Michigan, the smaller per cent of sugar in the sorghum cane being counterbalanced by the small cost of cultivation and the value of the seed as food for stock and poultry.

GENERAL STATISTICS.

Table 9 gives, by states and territories, the acreage, production, and value of sorghum cane grown and of sorghum sirup made on farms in 1899, with averages and percentages. Table 10 presents a summary of the acreage of sorghum cane in the United States in 1889 and 1899, and Table 11 gives a summary of the production of sorghum sirup in the census years from 1859 to 1899, inclusive. In 1899 there were 446,621 farms reporting sorghum cane, of which 197,164, or 44.1 per cent, were in the South Central division; 125,022, or 28.0 per cent, in the North Central division; 123,626, or 27.7 per cent, in the South Atlantic division; 553, or 0.1 per cent, in the Western division; and 256, or 0.1 per cent, in the North Atlantic division. A total of 293,152 acres of cane was reported for these farms, an average of 0.7 acres per farm. The small average area reported for the ordinary farm shows that sorghum in the United States is almost exclusively grown as incidental to other farming operations and not as a principal source of income.

From the 293,152 acres devoted to cane, 1,910,046 tons were grown, of which 1,618,343 tons were crushed by the growers for sirup, and 291,703 tons were sold to mills for making sirup. These figures do not include a considerable acreage and quantity of sorghum cane grown for forage, and reported under the head of "hay and forage."

The 1,618,343 tons of sorghum cane crushed for sirup, produced 16,972,783 gallons, valued at \$5,288,083, and for the 291,703 tons of cane sold to the mills \$815,019 were received, making the total receipts from the cane and its products \$6,103,102. The average quantity of sirup made from an acre of cane in 1899 was 58 gallons, exactly the same as ten years before. The average varied from 8 gallons in Oklahoma to 79 in Alabama.

Of the total acreage of sorghum cane grown in the United States in 1899, Tennessee, Missouri, Texas, Kentucky, Kansas, and North Carolina reported 51.9 per cent, and in 1889, 53.5 per cent. During the last decade each of the above states suffered a loss in acreage, but there was a corresponding decrease in nearly all the states of the nation, so that these states, as a whole, show no material decrease in their per cent of the total acreage. The six previously mentioned states, together with Arkansas, Mississippi, Alabama, Georgia, and Oklahoma, reported 75.6 per cent of the total acreage in 1900. Of these states, Oklahoma greatly increased its acreage, while the others showed decreases somewhat less than that for the nation as a whole, and hence the eleven states reported a larger proportion of the total acreage than ten years before.

Table 11 gives the product of sorghum sirup in the census years beginning with 1859, showing an increase from 6,749,123 gallons in 1859 to 28,444,202 in 1879, and a decrease to 16,972,783 in 1899. The decrease since 1879 has been most marked in the North Atlantic and North Central divisions.

SUGAR BEETS.

The Twelfth Census is the first to collect statistics of sugar beets, or of the sugar made therefrom. Statistics of the former were gathered and compiled by the division of agriculture, and of the latter by the division of manufactures.

Reports of beets grown for sugar were received by the division of agriculture from 14,035 farms, of which 9,085, or 64.7 per cent were in Michigan, and 1,753, or 12.5 per cent in Utah, and the others were in California, Colorado, Illinois, Minnesota, Nebraska, Nevada, New Mexico, New York, Oregon, Texas, Washington, and Wisconsin. The statistics of the acreage of these farms, the tons of beets sold, and the farmers' receipts therefrom, together with averages and percentages, are given in Table 12, section A. Section B of the same table furnishes a report of the acreage of beets and tons purchased by the factories, as reported to the division of manufactures. The same section of the table gives also the total amount paid by the factories to farmers for the beets. Section C presents a summary of the materials used in the manufacture of beet sugar, and section D, of the quantity and value of the products made. The farmers reported the production of 110,170 acres of beets, while the factories reported 135,305 acres as the area on which the beets purchased by them were grown. The 135,305 acres, reported to the division of manufactures included all the land for the cultivation of which the factories had made contracts in 1899. Many of the fields, however, failed to produce any crop, and as a result the actual number of acres harvested, according to the bulletin

of manufactures, was 105,175 acres. This is somewhat less than the acreage reported by the farmers, who probably included the acreage of some of the partially destroyed crops, which the manufacturers exeluded. The different methods adopted for reporting the acreage of beets explain the difference in the two tables.

The farmers reported 793,353 tons of beets sold, while the factories reported 794,658 tons purchased. This excess of about 1,300 tons, or nearly 0.2 per cent of the total consumption, probably represents the production of a number of small farms whose beet acreage was overlooked by the enumerators, and accordingly not reported.

The agricultural division of the census shows that the farmers reported, as the receipts from their sales of beets, a total of \$3,323,240, while the manufactures division reported \$3,485,320 as paid by the factories for this purpose. The difference here represents in part the value of the beets that were missed by enumerators, and in part the expenses which some of the farmers had deducted from their gross receipts on account of railroad freight, etc., for shipping their beets to the factories. From the beets reported by the farmers there were produced 163,458,075 pounds of sugar, having a factory value of \$7,222,581. The sugar made from beets represents in its finished form an average value of \$65.56 per acre, of which \$30.46, or 46.5 per cent, represents the cost of converting the same into sugar, including the cost of the beets and all other material used in the operation, together with the cost of all labor involved.

MAPLE SUGAR AND SIRUP.

Table 13 gives the quantity and value of maple sugar made on farms in 1899 and the quantity reported in the census years 1850 to 1890, by states and territories. Table 14 gives the quantity and value of maple sirup made on farms in 1899 and the quantity reported in the census years 1860 to 1890, by states and territories.

Of the 5,739,657 farms in the United States, June 1, 1900, 62,714 reported maple sugar, and 62,718 reported sirup. The quantity of sugar made on farms in 1899 was 11,928,770 pounds. This was but little more than one-third of the product reported in every preceding census year from 1850 to 1890. The largest product reported by any census, was 40,120,205 pounds, in 1860, and the smallest prior to 1900, was 28,443,645 pounds, in 1870.

Of the 11,928,770 pounds reported in 1900, 10,478,240, or 87.8 per cent, were produced in the North Atlantic states; 1,020,830, or 8.6 per cent, in the North Central division; 426,200, in the South Atlantic division; and 3,500, in the South Central. None was produced in the Western division.

For the whole United States the average number of pounds per farm reporting was 190, while it was 263 pounds in the North Atlantic, 219 in the South Atlantic, 49 in the North Central, and 22 in the South Central divisions. The small quantities per farm reported in the North Central and South Central states indicate that sugar making there was purely incidental to the manufacture of sirup, which was produced in larger relative quantities than in the first two divisions mentioned.

In the North Atlantic division the product reported in 1900 was only about one-third that of ten years before. The decrease in the North Central division was even more marked, while the production reported in the South Atlantic division by the census of 1900 was slightly greater than ten years before, although less than at any census prior to that of 1890.

The largest quantities of sugar were reported by Vermont, 4,779,870 pounds; New York, 3,623,500; and Pennsylvania, 1,429,540. These three states produced over 80 per cent of the total for the nation. Of these states, Pennsylvania, producing the smaller quantity, showed the smallest actual and relative decrease.

Of the 2,056,611 gallons of sirup reported by the census of 1900, 1,211,334 gallons were produced in the North Central division and 820,108 gallons in the North Atlantic. The North Central division thus reported about 50 per cent more than the North Atlantic, although the latter reported more than ten times the quantity of sugar made in the former. The maple sugar industry is conducted on a smaller scale in the North Central than in the North Atlantic division, and the farmers convert the larger quantity of their product into sirup, while in the North Atlantic division the main product is sugar.

The quantity of sirup does not show the decrease that is indicated by the figures of sugar production. The production of sirup in the North Central division was greater than ever before reported, the figures showing a continuous increase from 1860 to 1900, except in 1870. The production of sirup in the North Atlantic division increased from 1860 to 1890, except in 1870, and decreased a little less than 20 per cent in the last decade.

Of the states reporting maple sirup, Ohio leads with a production of 923,519 gallons, which is much greater than ever before. The product of New York was 413,159, Indiana 179,576, and Vermont 160,918 gallons. Twenty-three states and territories reported maple sirup or sugar.

GENERAL TABLES.

TABLE 1.—FARMS REPORTING SUGAR CANE AND PRODUCTS, AND THE ACREAGE AND PRODUCTION OF CANE IN 1899, WITH AVERAGES, BY STATES AND TERRITORIES, BY PARISHES IN LOUISIANA, AND BY ISLANDS IN HAWAII, IN DESCENDING ORDER OF ACREAGE.

				FAI	MS REPO	RTING, 18	9.		ACREAGE	AND PRODUC	TION OF CA	NE, 1809.	
STATES AND TERRITORIES.	Rank.	Total number	Num- ber of							Tons of can	e harvested.		Aver-
		of farms,	sugar farms,1	Sugar cane.	Sugar.	Sirup made,	Cane sold.	Acres.	Total.	Sold,	Reserved for seed.	Converted into sugar, molasses, and sirup, ²	nge tons per acre,
The United States	•••••	5, 739, 657	4, 825	181,566	2, 819	160, 847	18,085	452, 673	6, 441, 578	1, 298, 620	1, 453, 447	8,689,511	14
Louisiana Hawaii Alabama Georgla Texas	1 2 3 4 5	115, 969 2, 273 223, 220 224, 691 352, 190	$egin{array}{c} 3,870\ 170\ 137\ 165\ 264 \end{array}$	11,774 184 44,689 46,885 15,694	$281 \\ 42 \\ 97 \\ 969 \\ 39$	5, 332 48, 982 41, 093 11, 612	6,150 138 760 4,273 4,048	276,96665,68732,87126,05617,824	$\begin{array}{r} 3,137,338\\ 2,239,376\\ 267,857\\ 284,410\\ 170,485 \end{array}$	$1,038,496 \\ 172,544 \\ 2,751 \\ 18,868 \\ 54,758$	1,013,984 181,484 104,224 71,296	1,084,8582,066,832133,622161,31844,431	11 34 8 11 10
Florida Mississippi South Carolina Arkansas Arizona	8 7 8 9 10	$\begin{array}{r} 40,814\\ 220,803\\ 155,355\\ 178,694\\ 5,809\end{array}$	66 49 19 21 5	17, 314 26, 500 18, 776 458 7	1,075 50 205 1	$16,038 \\ 24,918 \\ 17,360 \\ 455 \\ 2$	$201 \\ 1,832 \\ 1,151 \\ 2 \\ 5$	$18,800 \\ 11,552 \\ 7,342 \\ 460 \\ 50$	$140,729 \\ 122,384 \\ 73,702 \\ 4,097 \\ 240$	1,1575,9143,58516100	55,20045,80929,3681,84040	$\begin{array}{r} 84,372\\70,661\\40,749\\2,241\\100\end{array}$	10 11 10 9 5
Indian Territory North Carolina New Mexico Other states and territories	11 12 18	$\begin{array}{r} 45,505\\ 224,637\\ 12,311\\ 3,937,386\end{array}$	32 23 4	25 57 3		55	$\begin{array}{c} 25\\ 2\\ 8\\ \ldots\end{array}$	35 25 5	550 199 211	229 11 191	92 90 20	229 98	16 8 42

LOUISIANA.

			nition d'under	FAR	MS REPO	RTING, 186	ю,		ACREAGE .	AND PRODUC	TION OF CA	NIC, 1809.	
PARISHES,	Rank.	Total number	Num- ber of				oldstadd Winner - Consent			Tons of cano	harvested,		Aver-
		of farms,	sugar farms, ¹	Sugar cauo.	Sugar.	Sirup made,	Cane sold.	Aeres.	Ťotal.	Sold.	Reserved for seed.	Converted into sugar, molasses, and sirup, ²	age tons per acre,
The State	•••••	115, 969	3, 870	11,77.1	281	5,332	6, 150	276,966	8, 187, 888	1, 038, 496	1,013,984	1,084,858	11
St. Mary Lafourche Assumption Terrebonne St. James	1 2 3 4 5	609 1,035 456 748 361	430 225 240 341 188	486 277 282 486 215	84 20 83 25 41	2 26 5 26 2 2	449 251 242 385 172	$\begin{array}{r} 44,137\\28,674\\28,028\\27,177\\22,280\end{array}$	491, 459 356, 805 309, 510 333, 493 248, 976	121,978 121,342 107,599 94,286 74,149	$\begin{array}{c} 162,424\\ 105,789\\ 96,655\\ 100,011\\ 81,641 \end{array}$	$\begin{array}{c} 207,057\\ 129,074\\ 105,256\\ 139,106\\ 88,186\end{array}$	11 12 11 12 11 12 11
Iberia Iberville St. John the Baptist Ascension St. Charles	7 8 9	${ \begin{smallmatrix} 1,828\\746\\811\\1,200\\883 \end{smallmatrix} }$	$\begin{array}{c} 802 \\ 152 \\ 114 \\ 95 \\ 130 \end{array}$	$1,247 \\ 200 \\ 135 \\ 52 \\ 179$	$ \begin{array}{c} 10 \\ 26 \\ 10 \\ 11 \\ 12 \end{array} $	$15 \\ 10 \\ 1 \\ 12 \\ 12$	$\substack{\substack{1,222\\170\\124\\27\\167}$	$19,449 \\ 17,453 \\ 14,763 \\ 11,454 \\ 9,711$	$\begin{array}{c} 202,984\\ 180,037\\ 172,127\\ 125,200\\ 124,515\end{array}$	90, 654 47, 189 62, 597 44, 321 22, 324	$\begin{array}{c} 71,572\\ 64,227\\ 54,828\\ 42,151\\ 85,736 \end{array}$	$\begin{array}{r} 40,758\\ 68,621\\ 55,202\\ 88,734\\ 66,455\end{array}$	10 10 12 11 13
Plaquemines	18 14	728 760 3,088 2,082 2,477	89 35 818 255 20	119 85 872 601 56	4 9 1 6 1	6 167 80 9	115 70 704 515 46	$egin{array}{c} 8,605\ 8,500\ 8,104\ 5,546\ 4,421 \end{array}$	119, 750 75, 699 88, 917 57, 981 49, 069	01, 880 14, 078 52, 445 29, 525 27, 065	$\begin{array}{c} 81,606\\ 81,280\\ 28,546\\ 20,409\\ 16,270\end{array}$	$\begin{array}{c} 26,204\\ 30,341\\ 2,926\\ 7,997\\ 5,734 \end{array}$	14 9 10 10 11
Jefferson Vermilion St. Bernard Pointe Coupee Rapides	1 19	461 2,656 210 8,772 4,249	22 238 33 8 39	86 496 39 86 290	3 5 1 3 2	$\begin{array}{c}1\\16\\\\\\\\\\\\209\end{array}$	82 475 38 24 79	3,618 3,230 1,908 1,786 1,729	45, 965 83, 911 28, 802 16, 189 23, 061	11,92720,42810,2462,02013,431	13, 296 11, 226 7, 356 9, 219 6, 363	$\begin{array}{c} 20,742\\ 2,257\\ 6,200\\ 4,950\\ 8,267\end{array}$	18 10 12 9 13
Orleans	22 28	886 7,549 4,674 74,841	7 29 8 52	11 875 189 5, 104	5 8 8 7	1 293 56 4, 892	5 79 80 679	$1,610 \\ 1,531 \\ 688 \\ 2,484$	$21,379 \\ 14,523 \\ 7,746 \\ 24,284$	754 8,361 2,727 2,170	5, 925 5, 684 2, 586 9, 724	$14,700 \\ 5,528 \\ 2,483 \\ 12,390$	18 9 11 10

HAWAII.

and a second and the second				FAT	MS REPO	RTING, 189	19.		ACREAGE	AND PRODUC	TION OF CAL	NE, 1899.	
ISLANDS.	Rank.	Total number	Num- ber of							Tons of cane	e harvested.		Aver-
	Rank. number of farms.	sugar farms.1	Sugar cane,	Sugar,	Sirup made.	Cane sold.	A cres,	Total.	Sold,	Reserved for seed.	Converted into sugar, molasses, and sirup, ²	age tons per acre,	
The Territory	a children of the same stresses	2,273	170	184	42		138	65,687	2, 239, 376	172, 544		2,066,832	84
Hawaii Kauni Maui Oalu Lanai Other islands		954 399 388 507 2 28	138 13 10 8 1	152 13 10 8 1	19 8 9 6		129 5 1 2 1	35,096 12,947 10,534 6,910 200	983, 053 487, 198 398, 388 866, 742 4, 000	97,750 46,662 1,200 22,932 4,000		440,686	28 38 38 59 20

¹ Farms deriving 40 per cent of their income from sugar cane.

²On the farms of those growing the cane,

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TABLE 2.—FARM VALUE OF SUGAR CANE AND PRODUCTS IN 1899, WITH AVERAGES AND PERCENTAGES, BY STATES AND TERRITORIES, BY ISLANDS IN HAWAII, AND BY PARISHES IN LOUISIANA, IN DESCENDING ORDER OF VALUE.

	.		FARM VALUE	OF SUGAR CAN	E AND PRODU	ст s , 1899. ¹			
STATES AND TERRITORIES,	Rank,	Total.	Cane sold,	Cane re- served for seed.	Sugar, mo- lasses, and sirup.	Average per acre.	Average per farm,		Cumula- tive per cent.
The United States		\$39, 304, 632	\$4,611,289	\$5, 018, 469	\$29, 674, 924	\$87	\$ 216	100, 0	
Hawaii Louisiann Georgia Alabama	0	$18,702,996 \\14,627,282 \\1,480,704 \\1,469,000$	729, 481 8, 533, 507 72, 822 10, 513	3, 483, 693 364, 784 454, 664	$18,033,515 \\7,610,142 \\1,048,098 \\1,003,823$	286 58 57 45	$101,973 \\ 1,242 \\ 32 \\ 33$	37.2 3.8	47. 7 84. 9 88. 7 92. 4
Texas Mississippi Florida South Carolina	5 6 7 8	977, 058 804, 870 723, 176 429, 425	$219,905 \\ 23,918 \\ 5,104 \\ 18,582$	250,586 161,084 198,200 102,788	$\begin{array}{c} 506,612\\ 619,808\\ 524,782\\ 813,055\end{array}$	55 70 52 58	$ \begin{array}{c} 62 \\ 81 \\ 42 \\ 28 \end{array} $	2.1	94, 9 97, 0 98, 8 99, 9
Arkansas. North Carolina Indian Territory Arizona. New Mexico.	11	25,285 1,412 1,876 1,348 705	52 54 886 620 705	6, 440 850 490 500	18, 793 1, 008 228	55 56 89 27 141	55 25 55 193 235	0.1	100. 0

HAWAII.

					and a star and the star and the star	The bull which debugs as a second on an	and for the first state and a second state		
			FARM VALUE	OF SUGAR CAN	E AND PRODU	CTS, 1899, ¹		Per cent	Cumula-
ISLANDS.	Rank.	Total.	Cane sold.	Cane re- served for seed,	Sugar, mo- lasses, and sirup,	Average per aere,	Average per farm,	of total value.	tive per cent.
The Territory	1	\$18, 762, 996	\$729, 481		\$18,083,515	\$286	\$101,973	100.0	
Hawaii Kanai Maui Oahu Lanai	234	$7,534,732 \\ 4,162,890 \\ 3,860,858 \\ 8,188,516 \\ 16,000$	392,727 210,854 4,800		3, 856, 058 3, 083, 416	215 322 867 461 80	$\begin{array}{r} 49,571\\ 320,222\\ 386,086\\ 398,565\\ 16,000\end{array}$	$\begin{array}{r} 40.1\\ 22.2\\ 20.6\\ 17.0\\ 0.1\end{array}$	40, 1 62, 3 82, 9 99, 9 100, 0

\mathbf{TO}	UISIAN	ίA.

•			FARM VALUE	OF SUGAR CAN	UE AND PRODU	ств, 1899.1	e Mittelli deteach ann i deanaige an an dha ag an Ar		
PARISHES,	Rank.	Total.	Cane sold.	Cane re- served for seed,	Sugar, mo- lasses, and sirup.	Average per acre.	Average per farm.	Per cent of total value.	Cumula- tive per cent.
The State	. 2	\$14,627,282	\$ 3, 533, 507	\$3, 488, 633	\$7, 610, 142	\$59	\$1,242	100.0	
St. Mary. Terrebonne. Lafourche. Assumption St. James.	$2 \\ 3 \\ 4 \\ 5$	2,547,271 1,685,954 1,621,892 1,803,881 1,078,117	448, 602 318, 078 389, 508 349, 697 254, 337	594, 753 850, 040 889, 583 814, 129 278, 825	$\begin{array}{c} 1,508,916\\ 1,017,886\\ 892,801\\ 640,005\\ 540,455 \end{array}$	58 62 57 47 48	5, 241 3, 867 5, 855 4, 024 4, 991	17.4 11.5 11.1 8.9 7.8	17.4 28.9 40.0 48.9 56,2
Iberville. Iberia St. John the Baptist St. Churles Ascension	i ii	858, 007 881, 878 709, 624 656, 282 562, 764	160, 443 308, 713 219, 090 72, 999 150, 691	218, 372 248, 602 190, 148 116, 857 147, 529	479, 192 279, 058 390, 386 466, 876 264, 544	49 43 54 68 49	$\begin{array}{r} 4,165\\ 667\\ 5,928\\ 3,666\\ 10,822 \end{array}$	5.9 5.7 5.5 4.5 8.8	62, 1 67, 8 73, 8 77, 8 81, 6
Plaquemines . West Baton Rouge . Lafayotte. Jefferson . St. Martin.	12 18 14	528, 765 875, 840 818, 127 228, 072 228, 836	214, 105 49, 273 188, 557 88, 763 95, 956	$109,564 \\109,480 \\99,911 \\46,536 \\66,829$	205, 096 216, 587 29, 659 142, 778 61, 051	61 44 89 68 40	4, 443 4, 416 859 6, 335 372	$ \begin{array}{r} 3, 6 \\ 2, 6 \\ 2, 1 \\ 1, 6 \\ 1, 5 \end{array} $	85.2 87.8 89.9 91.5 93.0
East Baton Rouge Orleans Vermilion St. Bernard Rapides	17 18 19	192, 132 187, 626 124, 409 114, 502 100, 681	93, 221 2, 425 69, 455 86, 578 46, 740	54, 949 19, 315 88, 168 26, 261 22, 143	43, 962 115, 886 16, 786 51, 663 31, 798	48 85 30 57 58	$egin{array}{c} 3,431\ 12,511\ 251\ 2,936\ 847 \end{array}$	1.3 0.9 0.9 0.8 0.7	94. 8 95. 2 96. 1 96. 0 97, 6
St. Landry Pointe Coupee. Avoyelles Other parishes	22 23	75, 767 75, 764 39, 004 158, 692	11, 265 7, 459 9, 626 7, 926	19,606 35,374 8,876 33,783	44, 896 82, 981 20, 502 116, 988	40 42 57 64	202 2,105 281 31	0.5 0.5 0.8 1.1	98, 1 98, 6 98, 9 100, 0

¹By "farm value" is meant the value of the sugar cane, and of the sugar, sirup, and molasses made therefrom by the grower of such cane. It does not include the value of sugar or sirup made from purchased cane.

GENERAL TABLES.

TABLE 3.—QUANTITY AND FARM VALUE OF SUGAR, MOLASSES, AND SIRUP MADE FROM CANE HARVESTED IN 1899 ON THE FARMS OF THE MAKERS, WITH PERCENTAGES, BY STATES AND TERRITORIES, BY ISLANDS IN HAWAII, AND BY PARISHES IN LOUISIANA, IN DESCENDING ORDER OF POUNDS OF SUGAR MADE.

	······································		SUGAR.				MOLASSE	8.			SIRUP.		
STATES AND TERRITORIES.	Rank,	Pounds.	Value.	Per cent of pounds,	Cumu- lative per cent.	(fallons,	Value,	Per cent of gallons.	Cumu- lative per cent,	Gallons,	Value.	Per cent of gallons,	Cumu- lative per cent,
The United States		664, 020, 814	\$24, 584, 459	100.0		1 10, 379, 210	\$796, 990	100.0		12, 293, 032	\$4, 293, 475	100.0	
Hawaii Louislana Texns Florida Georgia South Carolina Mississippi Alabama		$504, 566, 000 \\156, 072, 199 \\2, 789, 250 \\284, 300 \\226, 730 \\49, 590 \\18, 930 \\13, 765 \\$	18,025,5156,309,187134,07412,7449,1762,256898612	(1) (28.5) 0.4 0.1 (2) $($	76.0 90,5 90,9 100,0	14,066,401 6,213,859 98,950	8,000 782,271 6,719	39.2 59.9 0.9	39.2 99.1 100.0	$1,552,641 \\ 888,637 \\ 1,687,452 \\ 9,226,367 \\ 805,064 \\ 1,413,219 \\ 2,672,438 \\ 44,819 \\ 1,419,419 \\ 2,672,438 \\ 44,819 \\ 1,419,419,419 \\ 1,419,419,419 \\ 1,419,419,419,419 \\ 1,419,419,419,419,419$ \\ 1,419,419,419,419,419	$\begin{array}{c} & 428, 684 \\ & 865, 819 \\ & 512, 038 \\ 1, 038, 922 \\ & 310, 709 \\ & 618, 975 \\ 1, 008, 211 \\ & 18, 701 \end{array}$	$ \begin{array}{c} 12.6\\ 7.2\\ 18.7\\ 26.8\\ 6.6\\ 11.5\\ 21.7\\ 0.4 \end{array} $	12, 6 19, 8 33, 5 59, 8 66, 4 77, 9 99, 6 100, 0
Arkansas North Carolina. Arlzona	10 10	50	2	(*) 					•••••	1,957 488	1,008 228		

HAWAII.

		*	SUGAR.				MOLASSE	٩.			SIRUP,		
ISLANDS.	Rank.	Pounds.	Yalue,	Per cent of pounds.	Cumu- lative per cent.	Gallons.	Value,	Per cent of gallons.	Cumu- lativo per cent.	Gallons,	Value.	Per cent of gallons,	Cumu- lative per cent.
The Territory			1			14,066,401	\$8,000	100.0					
Hawaii Kanai Mani Oahu	1 2 3 4	199, 226, 000 110, 380, 000 108, 712, 000 86, 248, 000	7, 137, 697 3, 952, 036 3, 855, 818 3, 079, 964	39.521.921.517.1	$ \begin{array}{r} 39.5 \\ 61.4 \\ 82.9 \\ 100.0 \end{array} $	1,461,825927,770829,000848,300	4, 308 (*) 240 . 3, 452	35.9 22.8 20.4 20.9	85.9 58.7 70.1 100.0				

LOUISIANA.

		×	SUGAR.				MOLASSE	÷.			sirup,		
PARISHES.	Rank,	Pounds.	Value,	Per cent of pounds,	Cumu- lative per cent.	(tallons,	Value.	Per cent of gallons.	Cumu- lative per cent.	Gallons,	Value.	Per cent of gallons.	Cumu- lative per cent.
The State		156,072,199	\$ 6, 399, 187	100.0		6, 218, 859	\$ 782, 271	100,0		1, 552, 641	\$428, 684	100. 0	
St. Mary Terrebonne	$\frac{1}{2}$	33, 257, 000 24, 669, 500	$1,392,710 \\932,259$	$21.3 \\ 15.8$	21.3 37.1	876, 473 777, 865	43,644 81,028	14.1 12.5	14.1 20.6	$\substack{469,168\\15,582}$	72, 562 4, 549	$30.2 \\ 1.0$	30. 31.
Lafourche Assumption St. James	8 4 5	19,069,200 11,819,499 10,951,100	787,679-486,154-485,856	12.2 7.6 7.0	49, 8 56, 9 63, 9	$718,180 \\ 616,003 \\ 520,149$	105, 122 117, 322 96, 864	11.5 9.9 8,4	88, 1 48, 0 56, 4	$177,665\\24,795$	86,529 7,735	11.5 1.6	412. 41.
St. Charles Iberville St. John the Baptist Iberia Ascension	6 7 8 9 10	9, 803, 100 8, 806, 200 6, 596, 500 6, 214, 800 5, 356, 300	$\begin{array}{r} 405, 407\\ 375, 508\\ 298, 787\\ 256, 142\\ 228, 054\end{array}$	6.8 5.7 4.2 4.0 8.4	70, 2 75, 9 80, 1 84, 1 87, 5	558, 605 506, 892 896, 288 234, 025 227, 568	60, 969 86, 474 81, 710 9, 028 84, 759	8,9 8,1 6,4 3,8 3,7	65, 8 78, 4 79, 8 83, 6 87, 8	40, 478 42, 540 57, 982 5, 675	$17,210 \\ 14,889 \\ 18,888 \\ 1,781$		47. 50. 58. 54.
Plaquemines West Baton Rouge Jefferson . Orleans . St. Martin	14	4,863,800 8,777,000 3,257,600 2,288,200 1,266,000	198, 201 151, 264 132, 021 97, 795 55, 978	$ \begin{array}{c} 3.1 \\ 2.4 \\ 2.1 \\ 1.5 \\ 0.8 \end{array} $	90.6 93.0 95.1 96.6 97.4	119, 341 291, 764 138, 755 66, 800 38, 600		$ \begin{array}{c} 1.9\\ 4.7\\ 2.2\\ 1.1\\ 0.6 \end{array} $	80.2 93.9 90.1 97.2 97.8	186, 758 150 85, 000 11, 415	$\begin{array}{r} 44,803\\75\\10,500\\8,548\end{array}$	8,8 (²) 2.3 0.7	
St. Bernard East Baton Rouge Lafayette Rapides St. Landry	17 18 19	$1,242,000 \\800,000 \\522,000 \\508,800 \\862,800$	50,916 85,000 21,417 21,637 15,000	0.8 0.5 0.4 0,3 0,2	98.2 98.7 99.1 99.4 99.6	$\begin{array}{c} 23,000\\ 32,000\\ 2,414\\ 22,307\\ 38,850\end{array}$	747 2,560 566 669 9,336	0,4 0.5 (²) 0,4 0,5	98.2 98.7 99.1 99.6	15,75526,14025,83058,294	6, 402 7, 676 9, 492 20, 560	1.0 1.7 1.6 3.8	68, 70,
Avoyelles. Vermilion Pointe Coupee. Other parishes.	21 22 23	$\begin{array}{r} & 821, 300 \\ \bullet & 296, 200 \\ & 24, 400 \\ & 4, 000 \end{array}$	18, 617 11, 544 1, 050 191	0, 2 0, 2 (²) (²)	99.8 100.0	11,100 8,985 8,900	620 2,240 1,465	0, 2 0, 1 0, 1	99, 8 99, 9 100, 0	$\begin{array}{r} 20,564\\ 8,598\\ 87,225\\ 284,582\end{array}$	6, 265 8, 002 80, 416 116, 792	1, 8 0, 6 5, 6 18, 3	70

¹Including 8,780,740 gallons which had no selling value,

² Less than one-tenth of 1 per cent.

³ Of no value.

TABLE 4 .--- QUANTITY AND VALUE OF ALL SUGAR, MOLASSES, AND SIRUP MADE ON PLANTATIONS AND IN FACTORIES FROM SUGAR CANE HARVESTED IN 1899, WITH PERCENTAGES, BY STATES AND TERRITORIES, BY ISLANDS IN HAWAII, AND BY PARISHES IN LOUISIANA, IN DESCENDING ORDER OF POUNDS OF SUGAR MADE.

			SUGAR.				MOLASSE	8,			SIRUP.	- Ana 1997 - Yang da mangana ang kang da mangana ang kang da mangana ang kang da mangana ang kang da mang da ma	
STATES AND TERRITORIES.	Rank.	Pounds,	Value.	Per cent of pounds.	DOP	Gallons.	Value.	Per cent of gallons.		Gallons,	Value.	Per cent of gallons,	Cumn- lative per cent.
The United States	·····	864, 647, 511	\$32, 514, 089	100.0		116, 505, 119	\$1,292,103	100.0		² 13, 221, 247	\$ 4, 429, 633	100, 0	•••••
Hawaii Louislana. Texas. Florida . Georgia. South Carolina . Mississippi. Alabama Arkansas . North Carolina	1 2 3 4 5 6 7 8 9 10	$542,098,500\\319,166,896\\2,789,250\\284,300\\226,730\\49,590\\18,930\\18,930\\13,765\\50$	$\begin{array}{c} 19,254,773\\ 18,099,559\\ 134,074\\ 12,744\\ 9,176\\ 2,256\\ 893\\ 612\\ 2\end{array}$	62.7 36.9 0.3 } 0.1	62. 7 99. 6 99. 9 100. 0	¹ 4,702,292 11,703,877 98,950	8,000 1,277,384 6,719	28.5 70.9 0.6	28.5 99.4 100.0	$1, 687, 452 \\3, 226, 867 \\805, 064 \\1, 418, 219 \\2, 672, 438 \\44, 819$	564, 842 365, 819 512, 038 1, 038, 922 310, 799 618, 975 1, 003, 211 18, 701	$18.8 \\ 6.7 \\ 12.8 \\ 24.4 \\ 6.1 \\ 10.7 \\ 20.2 \\ 0.8 \\$	18.8 25.5 38.3 62.7 68.8 79.5 90.7 100.0
Arizona	11	•••••		•••••		•••••				1,957 	1,008 228	•••••	•••••

HAWAII,

SUGAR. MOLASSES. SIRUP, ISLANDS. Cumu-lative per cent. Cumu-lative Per cent of pounds. Per cent of gallons, Rank. Pounds. Value, Gallons. Value. Gallons. Value. per cent. 542,098,500 \$19,254,773 The Territory..... 100.0 $^{14},702,292$ \$8,000 100,0 Hawaii Kauai Maui Oahu 221, 174, 000121, 022, 500 108, 712, 000 7,890,969 4,278,677 3,855,818 40, 8 63, 1 83, 2 100, 0 $\begin{array}{r} 40.8\\ 22.8\\ 20.1\\ 16.8\end{array}$ 4, 308 (³) 240 3, 452 $\frac{1}{2}$ $\frac{2}{3}$ $\frac{4}{1}$ $\substack{1,957,028\\1,019,584\\829,000\\896,730}$ $\begin{array}{c} 41.6\\ 21.7\\ 17.6\\ 19.1 \end{array}$ $\begin{array}{r} 41.6\\63.3\\80.9\\100.0\end{array}$

		- The second	1911-11-11-11-11-11-11-11-11-11-11-11-11		LOUIS	IANA.							
			SUGAR,				MOLASSE	8.			SIRUP,		
PARISHES.	Rank,	Pounds,	Value,	Per cent of pounds.	Cumu- lative per cent.	Gallons,	Value.	Per cent of gallons,	Cumu- lative per cent.	Gallons.	Value,	Per cent of gallons,	Cumu- lative per cent.
The State		319, 166, 896	\$13,099,559	100, 0		11, 703, 877	\$1, 277, 384	100.0		² 2, 480, 856	\$564,842	100.0	••••
St. Mary Terrebonne Lafourche	। ५।	53, 318, 558 39, 961, 528 38, 781, 836	2,210,888 1,535,932 1,604,406	$16.7 \\ 12.5 \\ 12.1$	$ \begin{array}{r} 16.7 \\ 29.2 \\ 41.8 \end{array} $	$1, 854, 281 \\1, 183, 839 \\1, 316, 913$	$\begin{array}{r} 69,102 \\ 107,998 \\ 173,904 \end{array}$	$11.6 \\ 9.7 \\ 11.2$	$ \begin{array}{r} 11.6 \\ 21.3 \\ 32.5 \end{array} $	673, 095 15, 582	$106,727 \\ 4,549$	$\begin{array}{c} 27.1\\0.6\end{array}$	27.1 27.7
Assumption Iberia	4 5	27,045,904 22,249,603	1, 120, 618 930, 624	8.5 7.0	$49.8 \\ 56.8$	1, 402, 527 808, 250	257, 568 33, 960	$\begin{array}{c} 12.0\\ 6.9\end{array}$	44.5 51.4	$\begin{array}{c} 679,435\\ 128,790 \end{array}$	92,423 26,164	27,4 5.0	$55.1 \\ 60.1$
St. James. Plaquemines St. John the Baptist	6 7 8	21,878,251 16,609,871 16,619,871	907, 881 679, 214	6.9 5.2	68,7 68,9	915, 264 406, 536	128,946 21,264	7.8 3.5	$59.2 \\ 62.7$	35, 600	11, 116	1.4	61,5
Iberville	9 10	$\begin{array}{c} 16, 461, 272 \\ 14, 609, 858 \\ 13, 810, 571 \end{array}$	640, 891 622, 009 550, 557	5.2 4.6 4.2	74.1 78.7 82.9	725,188 809,342 761,450	118, 440 180, 371 - 80, 362	6, 2 6, 9 6, 5	08.9 75.8 82.3	42, 540 49, 473	14, 899 17, 210	$\begin{array}{c} 1.7\\ 2.0\end{array}$	$\begin{array}{c} 68.2\\ 65.2\end{array}$
Ascension Lafayette West Baton Rouge St. Martin Jefferson	$11 \\ 12 \\ 13 \\ 14 \\ 15$	12,007,755 9,221,524 7,765,249 6,154,989 4,790,261	$505, 427 \\887, 703 \\309, 036 \\264, 549 \\197, 746$	$ \begin{array}{r} 8.8 \\ 2.9 \\ 2.4 \\ 1.9 \\ 1.5 \end{array} $	86.7 89.6 92.0 98.9 95.4	523, 387 849, 029 352, 250 174, 250 196, 086	$\begin{array}{c} 40, 121 \\ 17, 821 \\ 35, 177 \\ 6, 465 \\ 14, 065 \end{array}$	4,5 8,0 3,0 1,5 1,7	86. 8 89. 8 92. 8 94. 3 96. 0	5,675 26,140 151,856 17,880 150	1,731 7,676 49,767 6,402 75	$0.2 \\ 1.1 \\ 6.1 \\ 0.7$	65.4 66.5 72.6 78.3
East Baton Rouge Rapides Orleans St. Bernard Vermilion	16 17 18 19 20	$ \begin{array}{r} 3,037,500 \\ 2,984,825 \\ 2,868,000 \\ 2,700,000 \\ 2,567,971 \end{array} $	131,435127,450123,935110,687105,097	1.0 0.9 0.9 0.8 0.8	96.4 97.3 98.2 99.0 99.8	100,000 183,900 85,000 50,000 40,985	5,300 4,017 10,145 1,625 3,990	0,9 1,1 0,7 0,4 0,3	96.9 98.0 98.7 99.1 99.4	15, 755 25, 330 35, 000	6, 402 9, 492 10, 500	0.7 1.0 1.4	74.0 75.0 76.4
St. Landry Avoyelles Pointe Coupee Other parishes	$21 \\ 22 \\ 23$	862, 280 819, 800 155, 000 4, 000	15,000 18,542 5,751 191	$\begin{array}{c} 0, 1 \\ 0, 1 \\ 0, 1 \\ \binom{4}{4} \\ \binom{4}{4} \end{array}$	99.9 100.0	10,000 33,850 11,100 21,000	9, 336 - 620 6, 787	0.8	99.4 99.7 99.8 100.0	8, 598 170, 811 20, 564 99, 000 284, 582	3,002 39,800 6,265 34,350 116,792	$ \begin{array}{r} 0,4\\ 6.9\\ 0.8\\ 4.0\\ 11.5 \end{array} $	70.8 83.7 84.5 88.5 100.0

¹ Including 4,416,631 gallons with no selling value. ² Not including 1,923,446 gallons, valued at \$327,391, later converted into sugar in other mills.

91, 190, 000

3, 229, 309

³ With no commercial value. ⁴ Less than one-tenth of 1 per cent.

Cumu-lative per cent.

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TABLE 5.—VALUE OF SUGAR AND MOLASSES, AND QUANTITY OF MOLASSES AND OF SPECIFIED KINDS OF SUGAR MADE BY THE LEADING PLANTERS AND FACTORIES FROM CANE HARVESTED IN 1898 AND 1899.

		Value of all		POUNDS	OF SUGAR MAI	DE.		Gallons of
COUNTIES.	Value of all sugar made.	molasses made.	Total,	Firsts.	Seconds.	Thirds,	Open kettle sugar,	molasses made.
Louisiana	\$ 22, 197, 168	\$1,661,897	556, 994, 942	437, 370, 968	87, 523, 291	14, 196, 078	17, 904, 605	24, 164, 689
St. Mary. Lafourche Assumption Terrebonne St, James	4, 085, 638 2, 234, 488 2, 100, 972 1, 961, 560 1, 784, 948	76, 080 184, 301 313, 833 93, 799 188, 763	$\begin{array}{r} 104,769,079\\ 56,690,430\\ 52,324,722\\ 50,288,838\\ 43,287,268\end{array}$	$\begin{array}{c} 84,177,606\\ 43,962,005\\ 36,062,794\\ 41,265,549\\ 33,545,017\end{array}$	$\begin{array}{c} 15,113,787\\ 10,074,028\\ 7,720,019\\ 6,845,833\\ 8,387,021 \end{array}$	5, 441, 736 698, 497 320, 266 1, 162, 056 676, 119	$\begin{array}{r} 86,000\\ 1,955,000\\ 8,221,643\\ 1,015,400\\ 679,120\end{array}$	$\begin{array}{c} 3, 103, 012\\ 2, 545, 380\\ 2, 517, 049\\ 1, 787, 486\\ 2, 289, 550\end{array}$
Iberville. Iberia Ascension St. John the Baptist West Baton Rouge.	$\begin{array}{c} 1,448,634\\ 1,855,198\\ 1,824,425\\ 1,042,807\\ 1,021,768\end{array}$	$\begin{array}{c} 222,831\\ 31,531\\ 128,729\\ 120,224\\ 81,394 \end{array}$	35, 385, 355 34, 807, 406 32, 771, 583 26, 945, 088 25, 786, 467	29, 268, 766 27, 202, 914 26, 437, 535 21, 009, 984 19, 100, 324	5, 395, 383 5, 582, 517 5, 791, 082 4, 935, 104 5, 182, 205	59, 453 2, 021, 975 184, 580 1, 043, 938	661, 753 408, 386 460, 000	2, 142, 172 1, 461, 400 1, 655, 643 1, 358, 797 1, 350, 500
Plaquemines St. Charles. St. Martin Rapides. Pointe Coupee	676,301 446,904	29, 634 51, 486 19, 500 17, 250 31, 762	$\begin{array}{c} 20,524,089\\ 16,021,105\\ 11,147,467\\ 8,400,506\\ 7,971,420 \end{array}$	$\begin{array}{c} 19, 121, 119\\ 13, 144, 427\\ 8, 403, 849\\ 5, 847, 465\\ 5, 742, 017 \end{array}$	$\begin{array}{c} 1,402,950\\ 2,083,958\\ 2,064,044\\ 1,445,506\\ 1,029,403 \end{array}$	260, 397 602, 574 818, 585	1,482,82377,000294,0001,200,000	753, 520 738, 900 408, 600 420, 000 400, 700
Lafayette Jefferson Orienns. East Batom Rouge	264,935	9, 199 14, 953 8, 829 6, 875	7, 689, 130 6, 487, 076 4, 554, 353 3, 928, 000	6, 449, 538 4, 846, 026 8, 899, 033 2, 820, 000	1,097,592802,600598,803990,000	$\begin{array}{r} 142,000\\ 588,444\\ 56,517\\ 118,000 \end{array}$	255,000	889,975 265,418 176,350 187,500
Avoyelles St. Bernard Vermilion St. Landry	98,400	8,535 2,250 8,828 21,145	2, 539, 600 2, 112, 000 1, 637, 780 1, 026, 200	$\begin{array}{c} 1,928,000\\ 2,112,000\\ 950,000\\ 75,000\end{array}$	580, 600 450, 000	\$1,000 80,000	051 000	
Texas	527, 960	22, 760	11, 794, 853	10, 085, 439	1, 455, 869	258, 545		768,250
Fort Bend Brazoria	64,857	18, 375 4, 885	9,906,625 1,583,532 804,696	8, 629, 519 1, 249, 920 206, 000	1,092,218 264,960 98,696	68,652		735,000 38,250

A.-Made from Cane Harvested in 1898.

B.-Made from Cane Harvested in 1899.

	محمولات والمراجع والمراجع والمراجع			And an	AND A REAL PROPERTY OF AN ADDRESS OF ADDRESS			
		Value of all		POUNDS	OF SUGAR MA	DE.		Gallonsof
STATES AND TERRITORIES,	Value of all sugar made.	molasses made,	Total.	Firsts.	Seconds,	Thirds,	Open kettle sugar,	molassés nuade.
Hawaii Louisiana ² Toxas	\$19, 254, 773 18, 099, 559 188, 043	\$8,000 1,277,884 6,719	542, 098, 500 819, 166, 898 2, 766, 600	466, 254, 500 251, 789, 270 2, 418, 600	75, 810, 000 47, 984, 887 301, 000	534,000 10,517,310 47,000	8, 874, 020	${}^{14,702,292}_{11,703,877}_{128,950}$

Including 4,416,631 gallons with no selling value.

²Including quantity produced on 7 small plantations.

TABLE 6.—FARMS REPORTING SUGAR CANE, AND ACREAGE OF CANE, WITH PERCENTAGES, BY STATES AND TER-RITORIES, BY PARISHES IN LOUISIANA, AND BY ISLANDS IN HAWAII, IN DESCENDING ORDER OF ACREAGE IN 1899, SUMMARY 1880 TO 1900.

			CENSUS	1900.				CENSUS	1890.			CENSUS	1880.	
STATES AND TERRITORIES,	Rank.	Total number of farms.	Farms report- ing sugar cane.	Acres of cane.	Per cent of total acres,	Cumu- lativo per cent,	Rank.	Acres of cane.	Per cent of total acres,	Cumu- lative per cent.	Rank.	Aeres of cane.	Per cent of total aeres,	Cumu- lative per cent.
The United States		5, 789, 657	181, 566	452, 673	100.0			274, 975	100,0			227,776	100.0	
Louisiana Hawaii ¹	9	$115,969 \\ 2,278$	$11,774 \\ 184$	276, 966 65, 687	$ \begin{array}{c} 61, 2 \\ 14, 5 \end{array} $	$ 61.2 \\ 75.7 $	1	193, 694	70.4	70.4	1	181,592	79.7	79,7
Alabama. Georgia Texas	3 4 5	228, 220 224, 691 852, 190	44,689 - 46,885 - 15,694	$\begin{array}{c} 32,871\ 26,056\ 17,824 \end{array}$	7.8 5.8 3.9	83.0 88.8 92.7	8 2 4	$19,415 \\ 20,238 \\ 16,284$	$7.1 \\ 7.4 \\ 5.9$	77.5 84,9 90.8		6; 627 15, 053 10, 224	$2.9 \\ 6.6 \\ 4.5$	82, 6 89, 2 93, 7
Florida Mississippi South Carolina. Arkansas. Arizona	6 7 8 9 10	$\begin{array}{r} 40,814\\ 220,803\\ 155,355\\ 178,694\\ -5,809\end{array}$	17,314 26,300 18,776 458 7	$13,800 \\ 11,552 \\ 7,842 \\ 460 \\ 50$	3.0 2.6 1.6 0.1 $(^2)$	95, 7 98, 8 99, 9 100, 0	6 5 7	9, 345 12, 694 3, 305	3,4 4,6 1,2	94.2 98.8 100.0	4 6 7	7, 938 4, 555 1, 787	8.5 2.0 0.8	97, 2 99, 2 100, 0
Indian Territory North Carolina New Mexico Other states and territories	$\overset{11}{\overset{12}{\overset{13}{\overset{13}{}}}}}}$	$\begin{array}{r} 45,505\ 224,687\ 12,311\ 3,937,386 \end{array}$	25 57 3	35 25 5	$\begin{pmatrix} 2\\2\\2\\2 \end{pmatrix}$									

				LO	UISIA	NA.								
			CENSUS	1900.				CENSUS	1890.			CENSUS	1880.	
PARISHES.	Rank,	Total number of farms,	Farms report- ing sugar cane.	Aeres of cane.	Per cent of total acres,	Cumu- lative per cent,	Rank.	Acres of cane.	Per cent of total acres.	Cumu- lative per cent.	Rank,	Acres of came.	Per cent of total aeres,	Cumu- lativo per cent.
The State	•••••	115, 969	11,774	276, 966	100.0			198, 694	100.0			181,492	100.0	
St. Mary. Lafourche Assumption Terrebonne St. James.	1 2 8 4 5	609 1,085 456 748 861	480 277 282 480 215	44, 137 28, 674 28, 023 27, 177 22, 280	15, 9 10, 4 10, 1 9, 8 8, 0	$ \begin{array}{r} 15.9 \\ 26.3 \\ 36.4 \\ 46.2 \\ 54.2 \\ \end{array} $	1 7 2 4 6	24,519 13,457 20,203 14,558 14,263	$ \begin{array}{r} 12.7\\ 7.0\\ 10.4\\ 7.5\\ 7.4 \end{array} $	$ \begin{array}{r} 12.7 \\ 19.7 \\ 80.1 \\ 37.6 \\ 45.0 \\ \end{array} $	1 8 6 4 5	$17,396 \\ 12,249 \\ 12,945 \\ 15,390 \\ 15,227$	9.6 6.8 7.1 8.5 8.4	9, 6 16, 4 23, 5 32, 0 40, 4
Iberia. Ibervillo St. John the Baptist. Ascension St. Charles	6 7 8 9 10	1,828 746 311 1,200 388	1,247 206 135 52 179	19, 449 17, 453 14, 763 11, 454 9, 711	7.0 6,8 5,8 4.1 8,5	61, 2 67, 5 72, 8 76, 9 80, 4	8 3 10 5 12	$12,016 \\ 18,562 \\ 8,170 \\ 14,479 \\ 5,679$	$6.2 \\ 9.6 \\ 4.2 \\ 7.5 \\ 2.9$	$51.2 \\ 60.8 \\ 65.0 \\ 72.5 \\ 75.4$	11 2 9 8 10	6,501 16,687 9,458 15,545 7,787	$3.6 \\ 9.2 \\ 5.2 \\ 8.6 \\ 4.3 $	44.0 58.2 58.4 67.0 71.8
Plaquemines West Baton Rouge Lafayette St. Martin East Baton Rouge	$11 \\ 12 \\ 13 \\ 14 \\ 15$	728 769 3,088 2,082 2,477	119 85 872 601 56	8, 605 8, 500 8, 104 5, 546 4, 421	3.1 3.1 2.9 2.0 1.6	$\begin{array}{r} 83.5 \\ 86.6 \\ 89.5 \\ 91.5 \\ 93.1 \end{array}$	11 9 14 18	6, 795 10, 848 8, 087 2, 318	$ \begin{array}{r} $	78.9 84.5 86.1 87.3	7 12 23 16 15	$12,084 \\ 6,400 \\ 783 \\ 8,525 \\ 8,584$	7.0 3.5 0.4 1.9 2.0	78, 381, 882, 284, 186, 1
Jefferson Vermilion St. Bernard Pointe Coupee. Rapides	16 17 18 19 20	461 2, 656 210 8, 772 4, 249	36 496 39 36 290	8, 618 8, 230 1, 998 1, 786 1, 729	$1.3 \\ 1.2 \\ 0.7 \\ 0.7 \\ 0.6$	94, 4 95, 6 96, 3 97, 0 97, 6	15 19 21 18 20	2, 786 2, 318 1, 615 3, 931 2, 286	$1.4 \\ 1.2 \\ 0.8 \\ 2.0 \\ 1.2$	88.7 89.9 90.7 92.7 93.9	18 20 17 14 19	$egin{array}{c} 6, 186 \ 1, 574 \ 2, 879 \ 6, 027 \ 1, 875 \end{array}$	3.4 0.9 1.6 3.3 1.0	89, 5 90, 4 92, 0 95, 3 96, 3
Orleans St. Landry Avoyelles Other parishes	21 22 28	$\begin{array}{r} 836 \\ 7,549 \\ 4,674 \\ 74,841 \end{array}$	11 375 189 5,104	1, 610 1, 531 688 2, 484	0.6 0.6 0.8 0.9	98.2 98.8 99.1 100.0	$\overset{22}{\overset{17}{_{16}}}$	1, 013 2, 854 2, 441 5, 996	$0.5 \\ 1.2 \\ 1.3 \\ 8.1$	94, 4 95, 6 96, 9 100, 0	$\overset{21}{\overset{18}{}}_{\overset{22}{}}$	$1,162 \\ 2,711 \\ 890 \\ 2,082$	$0.6 \\ 1.5 \\ 0.5 \\ 1.1$	96, 9 98, 4 98, 9 100, 0

1				H	[AWA]	rr.								
			CENSUS	1900.				CENSUS	1890.			CENSUS	1880.	and and a set of the s
IŞLANDS,	Rank.	Total number of farms.	Farms report- ing sugar cane.	Acres of cane.	Per cent of total acres.	Cumu- lative per cent.	Rank.	Acres of cane.	Per cent of total acres,	Cumu- lative per cent.	Rank.	Acres of cane,	Per cent of total acres,	Cumu- lative per cent.
The Territory 1		2, 273	184	65, 687	100.0								• • • • • • • • • •	
Hawaii Kauai Maui Oahu Lanai Other islands	345	954 899 888 507 2 28	152 13 10 8 1	35,096 12,947 10,534 6,910 200	53.4 19.7 16.1 10.5 0.3	53.4 73.1 89.2 99.7 100.0								

¹ Acquired in 1898.

²Less than one-tenth of 1 per cent.

GENERAL TABLES.

TABLE 7.—PRODUCTION OF ALL SUGAR, MOLASSES, AND SIRUP, MADE FROM SUGAR CANE, BY STATES AND TERRI-TORIES, BY ISLANDS IN HAWAII, AND BY PARISHES IN LOUISIANA, IN DESCENDING ORDER OF POUNDS OF SUGAR MADE IN 1899, SUMMARY 1880 TO 1900.

		CEI	ssus 1900.				CEI	NSUS 1890.				CE	NSUS 1880.		an a
STATES AND TERRITORIES.	Rank.	Sugar in pounds,	Molasses and sirup in gallons,	Per cent of total sugar,	Per cent of total molas- ses and sirup.	Rank,	Sugar in pounds,	Molasses and sirup in gallons.	Per cent of total sugar,	Per cent of total molas- ses and sirup,		Sugar in pounds.	Molasses and sirup in gallons,	Per cent of total sugar.	Per cent of total molas- ses and sirup.
The United States		804, 647, 511	29, 726, 866	100.0	100.0		301, 284, 395	25, 409, 228	100.0	100.0		178, 872, 000	16, 573, 273	100. 0	100.0
Hawaii ¹ Louisiana Texas Florida Georgia	$\begin{array}{c}1\\2\\8\\4\\5\end{array}$	542, 098, 500 319, 166, 396 2, 789, 250 284, 300 226, 730	$\begin{array}{r} 4,702,292\\ 14,184,733\\ 987,587\\ 1,687,452\\ 3,226,367 \end{array}$	62.7 36.9 0.3	15.8 47.7 8.8 5.7 10.9	1 2 3 4	$202, 124, 050 \\ 5, 482, 030 \\ 1, 692, 015 \\ 1, 307, 625$	2,159,339 1,441,744	97.0 1.8 0.6 0.4	56.4 8.5 5.7 12.7	1 2 3 4	$171,706,000 \\ 4,951,000 \\ 1,273,000 \\ 601,000$	${ \begin{array}{c} 11,696,248\\ 810,605\\ 1,029,868\\ 1,565,784 \end{array} } \\$	96.0 2.8 0.7 0.3	70.6 4.9 6.2 9.5
South Carolina Mississippi Alabama Arkansas North Carolina Arizona.	78	49,590 18,930 13,765 50	805, 064 1, 413, 219 2, 672, 438 44, 819 1, 957 438	} 0,1	$\begin{array}{c} 2.7 \\ 4.8 \\ 9.0 \\ 0.1 \\ \binom{2}{2} \\ \binom{2}{2} \end{array}$	6 7 5	219, 980 67, 860 390, 835	386, 615 1, 524, 024 2, 883, 281	0.1 (*) 0.1	$1.5 \\ 6.0 \\ 9.2 \\ \cdots \\ $	5 7 6	2:29,000 18,000 94,000	138, 044 586, 625 705, 199	0.1 (2) 0.1 	0.8 8.2 4.8

·		CEI	NSUS 1900.				CR	NSUS 1890.				CE	nsus 1880.		
ISI,ANDS,	Rank,	Sugar in pounds.	Molasses and strup in gallons,	Por cent of total sugar,	Per cent of total molas- ses and strup,	Rank.	Sugar in pounds,	Molasses and sirup in gullons,	Per cont of total sugar.	Per cent of total molas- ses and sirup.	Rank.	Sugar in pounds.	Molasses and strup in gallons.	Per eent of total sugar.	Fer cent of total molas- ses and sirup,
The Territory		542, 098, 500	4, 702, 292	100.0	100.0										
Hawaii Kanai Maui Qahu	$\frac{1}{2}$	221, 174, 000 121, 022, 500 108, 712, 000 91, 190, 000	$1,957,028 \\1,019,534 \\829,000 \\896,730$	40.8 22.8 20.1 16.8	41.6 21.7 17.6 19.1				1	1	lł –				

	Mariana e e e a	13()	สมห 1900.				(:E)	NSUS 1890.				CE2	vsus 1880.		
PARISHES,	Rank.	Sugar In pounds.	Molasses and strup in gallons,	Per cent of total sugar.	Per cent of total molas- ses and sirup.	Rank.	Sugar In pounds,	Molasses and sirup in gallons.	Per cent of total sugar,	Por cent of total molas- ses and sirup,	Rank.	Sugar in pounds,	Molasses and sirup in gallons,	Per cent of total sugar.	Per cen of total molas- ses and sirup.
The State		319, 166, 396	14, 184, 733	100.0	100.0		292, 124, 050	14, 341, 081	100.0	100.0		171, 706, 000	11,696,248	100.0	100.0
St. Mary Terreboune Lafourche Assumption Iberia.	- 3	$\begin{array}{c} 53,318,558\\ 39,961,523\\ 38,781,836\\ 27,045,904\\ 22,249,603 \end{array}$	$\begin{array}{c} 2,027,376\\ 1,148,921\\ 1,316,913\\ 2,081,962\\ 982,040 \end{array}$	$ \begin{array}{c} 16.7 \\ 12.5 \\ 12.1 \\ 8.5 \\ 7.0 \end{array} $	$ \begin{array}{r} 14.8 \\ 8.1 \\ 9.8 \\ 14.7 \\ 6.6 \\ \end{array} $	1 5 6 2 10	84, 035, 000 22, 981, 000 21, 651, 950 83, 718, 200 11, 982, 350	$\begin{array}{r} 919,381\\ 802,159\\ 1,484,506\\ 1,597,982\\ 445,756\end{array}$	$ \begin{array}{r} 11.7\\ 7.9\\ 7.4\\ 11.5\\ 4.1 \end{array} $	6,4 5,6 10,4 11,1 8,1	1 5 8 7 11	16,536,000 18,751,000 11,185,000 11,931,000 6,399,000	918, 843 897, 355 832, 943 780, 898 297, 654	9.6 8.0 6.5 6.9 3.7	7.8 7.7 7.1 6.8 - 2.5
St. James Plaquemines St. John the Baptist Iberville St. Charles	7	$\begin{smallmatrix} 21,878,251\\ 16,609,871\\ 16,461,272\\ 14,609,853\\ 13,810,571 \end{smallmatrix}$	950, 864 406, 536 767, 728 858, 815 761, 450	$ \begin{array}{c c} 6.9 \\ 5.2 \\ 6.2 \\ 4.6 \\ 4.2 \\ \end{array} $	$ \begin{array}{r} 6.7 \\ 2.9 \\ 5.4 \\ 6.1 \\ 5.4 \\ \end{array} $	7 11 9 8 12	21,077,000 11,788,800 12,569,250 31,066,800 9,037,200	1,096,104450,280675,0701,647,795879,729	7,2 4,0 4.8 10.6 3.1	$7.6 \\ 8.1 \\ 4.7 \\ 11.5 \\ 2.6$	8 4 9 2 10	$\begin{array}{c} 14,251,000\\ 14,017,000\\ 9,614,000\\ 15,278,000\\ 8,892,000 \end{array}$	$\begin{smallmatrix} 1,017,852\\970,324\\586,563\\1,220,518\\659,755\end{smallmatrix}$	8.3 8.2 5.6 8.9 5.2	$ \begin{array}{r} 8.7 \\ 8.3 \\ 5.0 \\ 10.4 \\ 4.8 \\ \end{array} $
Ascension Lafayette West Baton Rouge St. Martin Jefferson	12 18 14	$\begin{array}{c} 12,007,755\\ 9,221,524\\ 7,765,249\\ 6,154,989\\ 4,790,261 \end{array}$	529,062 875,169 504,106 192,180 196,236	$ \begin{array}{r} 3,8\\ 2.9\\ 2.4\\ 1.9\\ 1.5 \end{array} $	$ \begin{array}{r} 3.7 \\ 2.6 \\ 8.6 \\ 1.4 \\ 1.4 \end{array} $	4 23 8 16 14	$\begin{array}{r} 27,137,100\\ 431,100\\ 20,272,500\\ 4,282,500\\ 5,108,400 \end{array}$	$\begin{array}{c} 1,390,931\\ 36,760\\ 964,099\\ 195,951\\ 178,825 \end{array}$	$9.3 \\ 0.1 \\ 6.9 \\ 1.5 \\ 1.8$	$9.7 \\ 0.8 \\ 6.7 \\ 1.4 \\ 1.2$	6 28 12 17 18	$\begin{array}{c} 18, 427, 000\\ 681, 000\\ 6, 825, 000\\ 3, 258, 000\\ 6, 041, 000 \end{array}$	848, 381 30, 889 471, 365 181, 617 529, 630	7.8 0.4 8.7 1.9 8.5	7.8 0.3 4.0 1.6 4.5
East Baton Rouge Rapides Orleans . St. Bernard Vermilion	18	8, 037, 500 2, 984, 825 2, 868, 000 2, 700, 000 2, 567, 971	115, 755 159, 230 120, 000 50, 000 49, 533	1.0 0.9 0.9 0.8 0.8	0.8 1.1 0.8 0.4 0.3	$ \begin{array}{r} 17 \\ 18 \\ 22 \\ 21 \\ 19 \\ \end{array} $	3,301,700 2,978,400 1,543,200 1,981,800 2,851,500	182, 524 81, 202 82, 560	$1.1 \\ 1.0 \\ 0.5 \\ 0.7 \\ 1.0$	$1.1 \\ 1.8 \\ 0.6 \\ 0.6 \\ 1.0$	$ \begin{array}{c} 16 \\ 19 \\ 22 \\ 15 \\ 21 \end{array} $	$\begin{array}{c} 3, 366,000\\ 1, 832,000\\ 864,000\\ 3, 373,000\\ 1, 295,000 \end{array}$	$292,650 \\184,531 \\72,890 \\149,580 \\66,672$	2,0 1,1 0,5 2,0 0,7	1.8
8t. Landry. Avoyelles. Pointe Coupce. Other parishes.	28	155,000	120,000	$ \begin{array}{c} 0.1 \\ 0.1 \\ (^2) \\ (^2) \\ (^2) \end{array} $	$ \begin{array}{c} 1,4\\ 0,2\\ 0.8\\ 2,0 \end{array} $	15 18	2,185,350 4,499,800 5,503,200 139,950	227,815 846,810	$ \begin{array}{c} 0.8 \\ 1.5 \\ 1.9 \\ 0.1 \end{array} $	$ \begin{array}{c c} 1.2 \\ 1.6 \\ 2.4 \\ 4.8 \end{array} $	18 20 14	2, 877, 000 1, 374, 000 4, 988, 000 266, 000	\$34,985	2.9	0,8

¹ Acquired in 1898

²Less than one-tenth of 1 per cent.

LOUISIANA.

HAWAII.

TABLE S.—PRODUCTION OF SUGAR, MOLASSES, AND SIRUP, MADE FROM SUGAR CANE, WITH PERCENTAGES, BY STATES, AND BY PARISHES IN LOUISIANA, IN DESCENDING ORDER OF POUNDS OF SUGAR MADE IN 1899, SUMMARY 1850 TO 1870.

			CENSUS	3 1870.				GEN	zsus 1860.				CEN	sus 1850.		and the office of the other states of the othe
STATES.	Rank in 1899.1	Rank.	Sugar in pounds,	Molasses and sirup in gallons.	Per cent of total sugar,	Per cent of total molas- ses and sirup.	Rank.	Sugar in pounds,	Molasses and sirup in gallons,	Per cent of total sugar.	Per cent of total molas- ses and sirup.	Rank.	Sugar in pounds,	Molasses and sirup in gallons.	Per cent of total sugar,	Per cent of total molas- ses and sirup.
The United States.			87, 043, 000	6, 589, 694	100.0	100.0		230, 982, 000	14, 954, 005	100.0	100.0		247, 577, 000	12,060,280	100.0	100.0
Hawali territory Louisiana Texas Florida Georgia	2 3 4	1 2 5 6	80, 706, 000 2, 020, 000 952, 000 644, 000	4, 585, 150 246, 062 844, 339 553, 192	92.7 2.8 1.1 0.7	69, 6 3.8 5.2 8, 4	1 2 3 4	$\begin{array}{c} 221,726,000\\ 5,099,000\\ 1,669,000\\ 1,167,000 \end{array}$	408,358	96.0 2.2 0.7 0.5	89.9 2.7 2.9 8.6		$\begin{array}{c} 226,001,000\\ 7,351,000\\ 2,750,000\\ 1,642,000 \end{array}$	$\begin{array}{r} 10,931,177\\ 441,638\\ 852,893\\ 216,150 \end{array}$	91.3 8.0 1.1 0.7	90.6 8.7 2.9 1.8
South Carolina Mississippi Alabama Arkansas North Carolina	6 7 8 9 10	4 8 11 7 10	$\begin{array}{c} 1,055,000\\ 49,000\\ 81,000\\ 92,000\\ 35,000 \end{array}$	436, 882 152, 164 166, 009 72, 008 33, 888	$ \begin{array}{c c} 1.2 \\ 0.1 \\ (^2) \\ 0.1 \\ 0.1 \\ 0.1 \end{array} $	$\begin{array}{c} 6.6 \\ 2.3 \\ 2.5 \\ 1.1 \\ 0.5 \end{array}$	5 8	198,000 506,000 175,000 88,000	$ \begin{array}{r} 15,144\\ 10,010\\ 85,115\\ 12,494 \end{array} $	$\begin{array}{c c} 0, 1 \\ 0, 2 \\ 0, 1 \\ \dots \\ (^2) \end{array}$	0,1 0,1 0,6 	6 7 2	671,000 388,000 8,242,000	15, 904 18, 918 83, 428 18 704	0.8 0.1 3.8	0.1 0.2 0.7 (2) (3)
Tennessee Missouri Kentucky		3 9	1, 410, 000 49, 000		1,6 0,1	 	10 6	2,000 402,000		1		9 8				

LOUISIANA.

			CENSUS	1870.				CEN	sus 1860.				CEN	istis 1850.		
PARISHES.	Rank in 1899.1	Rank.	Sugar in pounds,	Molasses and sirup in gallons,	Per cent of total sugar.	Per cent of total molas- ses and sirup.	Rank,	Sugar in pounds,	Molasses and sirup in gallons,	Per cent of total sugar.	Per cent of total molas- ses and sirup.	Rank,	Sugar in pounds,	Molasses and sirup in gallons.	Per cent of total sugar.	Per cent of total molas- ses and sirup,
The State			80, 706, 000	4, 585, 150	100.0	100.0		221, 726, 000	18,439,772	100.0	100, 0		226,001,000	10,931,177	100.0	100.0
St. Mary Terrcbonne Lafourche Assumption Iberia		4 5 8 1 14	6,591,000 6,537,000 7,128,000 9,558,000 1,854,000	841, 445 866, 282 366, 685 499, 185 102, 495	8,2 8,1 8,8 11,8 2,8	7.4 8.0 8.0 10.9 2.2	1 8 5 2	80, 781, 000 17, 022, 000 14, 786, 000 17, 707, 000	$\begin{array}{r} 43,336\\1,210,603\\1,001,210\\1,230,584\end{array}$	$ \begin{array}{r} 13.9 \\ 7.7 \\ 6.0 \\ 8.0 \\ \dots \end{array} $	0.3 9.0 7.5 9.2	1 10 9 4	24,765,000 9,171,000 10,055,000 17,160,000	897, 660 435, 290 845, 126 930, 185	$ \begin{array}{r} 11.0 \\ 4.1 \\ 4.4 \\ 7.6 \\ \end{array} $	$ \begin{array}{r} 8.2 \\ 4.0 \\ 3.1 \\ 8.5 \\ \end{array} $
St. James Plaquemines St. John the Baptist. Iberville St. Charles	789	7 2 8 9 19	$\begin{array}{c} 6,265,000\\ 7,728,000\\ 4,962,000\\ 4,907,000\\ 8,914,000 \end{array}$	847,722 421,562 846,100 323,600 247,120	7.8 9.6 6.1 6.1 4.8	7.6 9.2 7.5 7.1 5.4	6 7 16 10 14	$\begin{array}{c} 13,736,000\\ 12,607,000\\ 4,981,000\\ 10,828,000\\ 7,067,000 \end{array}$	$\begin{array}{c} 1,193,160\\ 819,600\\ 462,250\\ 214,982\\ 543,500 \end{array}$	$ \begin{array}{r} 6.2 \\ 5.7 \\ 2.2 \\ 4.9 \\ 8.2 \\ \end{array} $	$ \begin{array}{r} 8.9 \\ 6.1 \\ 3.4 \\ 1.6 \\ 4.0 \\ \end{array} $	8 5 7 2 8	$\begin{array}{c} 21,670,000\\ 16,835,000\\ 11,935,000\\ 23,208,000\\ 10,206,000 \end{array}$	926, 438 589, 130 638, 230 1, 310, 750 531, 300	9.6 7.4 5.8 10.3 4.5	$ \begin{array}{r} 8.5 \\ 5.4 \\ 5.8 \\ 12.0 \\ 4.9 \\ \end{array} $
Ascension Lafayette West Baton Rouge St. Martin Jefferson	12 18	$egin{array}{c} & & & 6 \\ & & 23 \\ & & 18 \\ & & 16 \\ & & 12 \end{array}$	$\begin{array}{c} 6,423,000\\ 128,000\\ 806,000\\ 1,494,000\\ 2,196,000 \end{array}$	$\begin{smallmatrix} 308,587\\6,715\\50,740\\75,740\\136,200 \end{smallmatrix}$	$ \begin{array}{c c} 8.0 \\ 0.2 \\ 1.0 \\ 1.9 \\ 2.7 \\ \end{array} $	$\begin{array}{c} 6.7\\ 0.1\\ 1.1\\ 1.7\\ 8.0 \end{array}$	$ \begin{array}{c} 4 \\ 21 \\ 11 \\ 18 \\ 12 \end{array} $	$\begin{array}{c} 16,087,000\\ 1,003,000\\ 10,176,000\\ 7,499,000\\ 9,467,000 \end{array}$	$\begin{array}{c} 881,297\\ 58,470\\ 724,570\\ 524,329\\ 702,300 \end{array}$	7.3 0.4 4.6 8.4 4.3	$ \begin{array}{r} 6.6 \\ 0.4 \\ 5.4 \\ 3.9 \\ 5.2 \\ \end{array} $	6 20 13 19 11	$ \begin{array}{c} 13, 438, 000 \\ 2, 629, 000 \\ 7, 920, 000 \\ 4, 188, 000 \\ 8, 897, 000 \end{array} $	554,97595,164518,870237,160430,580	$5.9 \\ 1.2 \\ 3.5 \\ 1.9 \\ 8.9$	$5.1 \\ 0.9 \\ 4.7 \\ 2.2 \\ 3.9$
East Baton Rouge Rapides	17 18 19	17 11 19 20 22	833,000 3,324,000 751,000 686,000 259,000	$\begin{array}{c} 50,497\\212,860\\17,910\\42,580\\10,165\end{array}$	$ \begin{array}{c} 1.0\\ 4.1\\ 0.9\\ 0.8\\ 0.3 \end{array} $	$1.3 \\ 4.6 \\ 0.4 \\ 0.9 \\ 0.2$	15 9 19 20	5, 477, 000 12, 087, 000 2, 050, 000 1, 550, 000	412,680 854,585 134,000 3,100	2.5 5.4 0.9	$ \begin{array}{c} 3.1 \\ 6.4 \\ 1.0 \\ \end{array} $ $(^2)$	$ \begin{array}{r} 14 \\ 16 \\ 21 \\ 18 \\ 22 \\ \end{array} $	7,074,000 4,613,000 1,495,000 4,367,000 871,000	407, 358 498, 170 52, 505 173, 000 31, 720	$ \begin{array}{c c} 3.1 \\ 2.0 \\ 0.7 \\ 1.9 \\ 0.4 \end{array} $	8.7 4.0 0.5 1.6 0.3
St. Landry Avoyelles Pointe Coupee Other parishes	21 22 23	18 21 15	325,000	118, 110 25, 600 118, 210 45, 090	2.5 0.4 1.9 0.6	2, 6 0, 6 2, 5 1, 0		3,437,000 4,445,000 12,187,000 6,846,000	889, 610 284, 424 1, 842, 195 458, 987	1.5 2.0 5.5 8.1	$ \begin{array}{c c} 2,5 \\ 2,1 \\ 10.0 \\ 8.4 \end{array} $	15 17 12	$\begin{array}{c} 5,951,000\\ 4,481,000\\ 8,560,000\\ 6,512,000 \end{array}$	317, 970 248, 720 821, 546 499, 830	2.6 2.0 3.8 2.9	2.9 2.8 2.9 4.6

¹ Ranked according to the number of pounds of sugar made in 1899.

² Less than one-tenth of 1 per cent.

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GENERAL TABLES.

TABLE 9.—ACREAGE, PRODUCTION, VALUE, AND PER CENT OF TOTAL VALUE OF SORGHUM CANE GROWN, AND OF SORGHUM SIRUP MADE ON FARMS IN 1899, WITH AVERAGES FOR 1899 AND 1889, BY STATES AND TERRITORIES.

					то	SS OF CAN	c.		FARM VA	LUES OF PR	oducts,	Per	AVER. NUMBE	
STATES AND TERRITORIES.	Rank, ¹	Total number of farms.	Farms report- ing sor- ghum.	Acres of cane.	Total grown.	Crushed for sirup. ²	Sold.	Gallons of sirup made.	Total.	Value of sirup.	Re- ceived from sales of cane.	eent of total farm value.	GALLO OF SH PER A	ons · tur
The United States ³		5, 789, 657	146, 621	203, 152	1, 910, 046	1, 618, 343	291, 703	16, 972, 783	\$6, 108, 102	\$5,288,083	\$815,019	100.0	. 58	68
North Atlantic division	5	677, 506	256	126	950	928	22	7,937	3, 695	3,621	74	(4)	63	69
South Atlantic division	8	962, 225	123, 626	54, 152	371, 396	350, 435	20, 961	3, 683, 892	1,267,710	1,208,115	59, 595	20, 8	68	56
North Central division	2	2, 196, 567	125,022	92,166	586, 791	498, 176	88,615	5, 238, 973	1, 916, 270	1,676,081	240, 189	81,4	57	56
South Central division	1		197,164	145, 812	944, 370	762, 656	181, 723	7, 984, 920	2,887,262	2, 373, 383	513, 879	47.3	55	61
Western division	4	242, 908	553	896	6, 530	6,148	382	57, 061	28, 165	26,883	1, 282	0.5	64	43
Alabama	9	228, 220	27,150	14,831	93, 299	90, 154	8,145	1, 168, 868	371, 356	362, 897	8,959	6,1	79	59
Alaska		1 2												
Arizona		5,809	52	133	958	912	- 41	9,031	4,882	4,700	182	0,1	68	70
Arkansas	7	178, 694	26,927	17,684	122,779	122,406	378	1,228,691	368, 816	367,741	1,075	6.0	69	68
California	29	72,542	54	140	1,085	1,079	6	8,671	8,788	3,778	10	0,1	62	67
Colorado	83	24,700	20	51	349	329	20	2,661	1,107	1,086	71	(4)	52	24
Connecticut		26, 948												48
Delaware	28	9,687	198	150	1,001	1,001		8, 952	3, 175	8,175		0,1	60	34
District of Columbia		269												
Florida		40, 814												51
Georgia	10	224, 691	22,600	11,553	78, 768	78, 192	5, 576	767,024	250, 592	284, 486	16, 106	4,1	66	61
Hawaii		2,273												
Idaho	37	17,471	11	21	191	183	8	1, 393	650	626	. 24	(4)	66	57
Illinois	12	264, 151	16,203	9,158	84; 326	79, 161	5, 165	625, 939	228, 844	209, 087	14,257	8,7	68	72
Indiana	15	221, 897	19,282	7,955	65, 685	68,116	2, 569	579,061	198, 058	186, 306	6,750	8.2	73	61
Indian Territory	18	45,505	2,329	6, 689	22, 811	7,879	14, 932	97, 381	70, 279	29, 211	41,068	1,1	15	
Iowa	13	228, 622	10,529	8,287	58, 347	48, 314	10,033	521, 212	218, 999	190,695	28, 304	8.6	63	84
Kansas	5	173,098	5,727	20,689	88,846	57,639	81, 207	785, 787	279,029	206,010	78,019	4.6	36	27
Kentucky	4	234,667	33, 692	21,982	152, 321	129, 720	22, 601	1,277,206	449, 276	384, 292	64, 984	7.4	58	56
Louisiana	24	115, 969	2,107	937	6, 091	4, 981	1,160	48, 727	18, 367	14,944	8, 423	0.3	52	· 61
Maine		59, 299												51
Maryland	1	46,012	144	63	485	831	104	4,058	1,873	1,559	314	(4)	64	58
Massachusetts		37,715												
Miehigan	. 25	203, 261	1,276	877	2,787	2,589	198	24,059	10,486	9,882	604	0.2	64	51
Minnesota	28	154,659	3, 887	2,283	14, 369	18,187	1,232	157,605	59,714	56, 896	2,818	1.0	69	88
Mississippi	. 8	220, 803	25,183	15,734	119,164	115,798	3, 366	1, 162, 269	828,417	318, 365	10,052	5, 3	74	61
Missouri		284, 886	48, 951	30, 997	201, 165	178,909	22,166	1,990,987	660, 624	597,657	62,967	10.8	64	75
Montana	41	18, 370	1	2	14	14		100	70	70		(4)	50	
Nebraska	20	121, 525	1,791	4,778	14, 119	1,317	12,802	92,413	74,817	32, 993	41,824	1.2	19	51
Nevada	. 35	, 2, 184	21	- 30	162	162		1,465	733	783		(4)	49	58
New Hampshire		29, 824												25
New Jersey	40	84,650	3	7	52	51	1	▲ 450	163	160	8	(9)	64	47
New Mexico	. 31	12, 311	70	81	814	201	113	2,812	1,968	1,599	364	(4)	35	89
New York	. 38	226, 720	20	14	105	105		973	371	871		(4)	70	73
North Carolina	. 6	224, 637	48, 214	20,227	112,056	106,076	5,980	1,419,570	446, 897	429, 814	17,083	7.8	70	53
North Dakota	. 39	45, 332	7	10	41] 41	114	181	47	134	(4)	11	
Ohio	1	276, 719	12,418	5,037	88,759	36, 904	1,855	841,528	126, 781	121,130	5,651	2.1	68	73
Oklahoma	. 11	62, 495	2, 867	9,788	26, 426	1,099	25, 827	81,891	83,832	24,825	59,007	1,4	8	87
Oregon	. 34	35, 837		- 89	800	289	11	2,473	1,193	1,150	-43	(4)	68	. 60
Pennsylvania	. 30	224,248	233	105	793	772	21	6,514	3, 161	3,090	71	(1)	62	69
Rhode Island	.	5,498												
South Carolina		155, 355	18, 332	7,250	49, 530	45,941	3,589	478, 190	178, 323	168,038	10, 285	2,9	66	49
South Dakota		52, 622	112	196	1,384	989	895	9,859	4,795	3, 650	1, 145	0,1	50	40
Tennessee	. 1	224, 628	45, 461	81, 864	226, 523	204,637	21,886	2, 047, 655	647, 129	585, 886	61,793	10.6	65	63
Texas.	. 3	352, 190	81, 948	26,803	174, 965	86,032	88, 933	877,232	554,790	291, 272	263, 518	9,1	- 83	61
Utah		1	283	871	11 '	2,979	101	28,017	H .	1 .		0.2	76	86
Vermont		. 38, 104							.			[]		45
Virginia		1 .	19, 304	8,089	73, 137	70, 817	2,320	555, 321	196, 915	190, 903	6, 012	3.2	69	57
Washington	. 36	33, 202	8	28	82		82	438	844	198	146	(4)	16	56
		1 .	1	6,870		58,077	3, 892	450,777	189, 935			3.1	66	66
West Virginia	. 17	92.874	1 14 004		() ()0.409	1 100.077								
West Virginia		92, 874 169, 795		2, 399	56,469 16,968	16,011	952	160,414	11	11		1.1	67	63
West Virginia	22	1	4, 889		11 .	II '		II '	11	11 .		1	1	63 10

¹ The first column shows the rank of the state or territory when arranged according to acces. ² Estimated. ⁸ Data for Alaska and Hawaii included in totals for United States, but not in those for the five geographic divisions.
 ⁴ Less than one-tenth of 1 per cent.

TABLE 10.—ACREAGE OF SORGHUM CANE GROWN FOR SIRUP MAKING, WITH PERCENTAGES, BY STATES AND TERRITORIES IN DESCENDING ORDER OF ACREAGE IN 1899, SUMMARY 1890 AND 1900.

		CENSUS	3 1900.			CENSUS	1890.	- V V
STATES AND TERRITORIES.	Rank.	Acres.	Per cent of total,	Cumula- tiye per cent.	Rank.	Acres.	Per cent of total,	Cumula- tive per cent.
The United States		203, 152	100.0			415,691	100,0	
						410,001	100.0	
South Central division	1	145, 812	49.7	49,7	1	173, 094	41.6	· 41.
North Central division	2	92,166	31.4	81.1	2	165, 290	39, 8	81.
South Atlantic division	3	54,152	18,5	99, 6	3	75, 256	18,1	99.
Western division	4	896	0.3	99, 9	4	1,482	0, 3	. 99,
North Atlantic division	5	126	0.1	100.0	5	619	0,2	100.
Fennessee	1	31, 364	10.7	10.7	2	40, 330	9.7	9.
Missouri	. 2	30,997	10.6	21.3	4	36,280	8.7	18.
Texas	3	26,803	9.1	30.4	- 5	28,547	6.9	25,
Kentucky	-1	21,982	7.5	37.9	3	37, 236	9.0	34.
Kansas	5	20, 689	7.1	45.0	1	55, 765	13,4	47.
North Carolina	8	20, 227	6.9	51.9	7	24,093	5,8	58.
Arkansas	7	17,684	6,0	57.9	6	27, 371	6,6	1
Mississippi	. 8	15,784	5.4	63, 3	11	27, 871	3.8	6 0.
Alabama	9	14,831	5.1	68.4	. 9	21, 189	5,1	6 3 , 6 9 ,
Jeorgia	10	11,558	3.9	72, 3	ม 18	21, 189 22, 089	5.8	69. 74.
Oklahoma	11	6 700		75 0				
Illinois	11	9,788	8.3	75.6	28	844	0.2	74.
owa		9,158	3.1	78.7	12	15, 884	8.7	78.
Virginia	13	8,287	2.8	81,5	10	16,540	4,0	82.
Indiana	14	8,039	2.7	84.2	16	9, 578	2, 3	84.
	15	7,955	, 2.7	86, 9	14	12, 344	3, 0	87.
South Carolina	16	7,250	2.5	89, 4	15	11, 391	2.8	90.
West Virginia	17	6,870	-2.4	91.8	17	7,718	1,9	92,
Indian Territory ¹	18	6, 689	2, 3	94.1				
Ohio	19	5,037	1.7	95.8	18	7,505	1.8	94.
Nebraska	20	4,778	1.6	97.4	. 13	12,505	3.0	97.
Wisconsin	21	2,899	0,8	98, 2	20	3,450	0.8	97.1
Minnesota	22	2,283	0.8	99.0	19	8,890	0.9	98.
Louisiana	23	987	0, 3	99, 3	21	1,755	0.4	99.1
Michigan	24	877	0,1	99,4	22	897	0,2	99.
Utah	25	371	0,1	99,5	27	283	0.1	99,
South Dakota	26	196	0.1	99,6	25	780	0.2	99.
Delaware	27	150	0.1	99.7	20	100		99.4
California	28	140	. 0,1	90.7	20 35	25	(⁹)	• • • • • • • • • •
Arizona	20	140					(¹)	•••••
Pennsylvania	30	105			32 26	69 488	(²) 0,1	99.4
New Mexico		61					,	
Maryland	31	81			30	00	(²)	•••••
Colorado	32	68			31	82	(2)	• • • • • • • • • • •
Oregon	38	51			24	818	0.2	99.
Nevada	34 35	89 80	0.8	100.0	84 37	- 45 16	(²) (2)	
Washington							(2)	•••••
daho	86	28			36	20	(2)	•••••
New York	37	21			· 33	54	(2)	· · · · · · · · · · · ·
	38	14			28	114	(<u>°</u>)	
North Dakota	39	10			•••••	••••		• • • • • • • • • •
North Dakota					89	6	(2)	
North Dakotu New Jersey	40	7						
North Dakotu New Jersey Montana	40 41	7 2				••••••		· · · · · · · · · · ·
North Dakota New Jersey Aontana Florida	40 41	2]		28	205	0, 1	100.
North Dakota New Jersey Montana Florida Nyoming	40 41	2)		28 38	205 12	0.1 (²)	100.
North Dakotu New Jersey Montana Florida Wyoming Connecticut	40 41	2			28 38 40			100.
North Dakota New Jersey Montana Florida Nyoming	40 41	2			28 38 40	12	(2)	100.
North Dakota	40 41	2	••••••	•••••	28 38 40	12 5	(²) (²)	100.
North Dakota	40 41	2	•••••		28 38 40 41	12 5 8	(2) (2) (2)	100.
North Dakota	40 41	2		· · · · · · · · · · · · · · · · · · ·	28 38 40 41 42 43	12 5 8 2	(2) (2) (2) (2) (2) (2)	100.
North Dakota	40 41	2		· · · · · · · · · · · · · · · · · · ·	28 38 40 41 42 43	12 5 3 2 1	(2) (2) (2) (2) (2) (2)	100.4
North Dakota	40 41	2	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	28 38 40 41 42 43	12 5 3 2 1	(2) (2) (2) (2) (2) (2)	100.
North Dakota	40	2		· · · · · · · · · · · · · · · · · · ·	28 38 40 41 42 43	12 5 3 2 1	(2) (2) (2) (2) (2) (2)	100.

¹ No report prior to 1900.

² Less than one-tenth of 1 per cent.

TABLE 11.—PRODUCTION OF SORGHUM SIRUP IN GALLONS, WITH PERCENTAGES, BY STATES AND TERRITORIES, SUMMARY 1860 TO 1900.

		CENSUS 1900.		census 1	890.	CENSUS 1	880.	census 1	870.	CENSUS 1	860.
STATES AND TERRITORIES,	Rank,1	Gallons,	Per cent of total,	Gallons.	Per cent of total.	Gallons.	Per cent of total,	Gallons.	Per cont of total,	(tallous,	Per cent of total,
The United States		16, 972, 788	100.0	24, 285, 219	100, 0	28, 444, 202	100, 0	16, 050, 089	100.0	6, 749, 123	100,0
North Atlantic division	5	7,937	0.1	42,755	0.2	78, 343	0.2	245, 481	1,5	24,076	0.4
South Atlantic division	3	3, 688, 892	21.7	4, 248, 604	17, 5	8, 663, 954	12.9	2, 883, 922	14.9	041,796	9,5
North Central division	2	5,238,978	30.9	9,271,817	38.2	14,088,867	49,5	9, 695, 055	60,4	4, 706, 495	69.7
South Central division	1 4	7, 984, 920 57, 061	47.0 0.3	10, 610, 824 62, 219	43, 8 0, 3	10, 548, 968 74, 070	$\begin{array}{c} 87.1\\0.3\end{array}$	3, 651, 824 73, 807	22,7 0.5	1, 348, 464 28, 292	20.0 0.4
			1 1					-	l-		
Alabama Alaska	6	1,168,868	6, 9	1, 242, 689	5,1	1, 163, 451	4,1	267, 269	1.7	55, 653	0,8
Arizona	27	9,031	0,1	4,808	(2)	5,771	(2)				
Arkensas	5	1,223,691	7.2	1,868,952	7.7	1, 118, 364	8, 9	147, 203	0, 9	115, 604	1.7
California	29	8,671	0,1	1,670	(²)	2, 459	(2)	383	(2)	552	(º)
Colorado	38	2,661	(2)	19,964	0.1	8, 227	(2)				
Connecticut				214	(%)	. 1,163	(2)	6, 832	(2)	895	(º)
Delaware	. 28	8,952	0.1	8,871	(°)	25, 186	0.1	65, 908	0.4	1, 613	(2)
District of Columbia Florida				10,461	0.1	10, 199	(ŝ)	· · · · · · · · · · · · · · · · · · ·	•••••	• • • • • • • • • • • • • • • • • •	
								054 007		109 00	
Georgia Hawaii	. 9	767, 024	4.5	1, 342, 803	5.6	981, 152	8,5	. 374,027	2,8	108,490	1.6
Idaho,	36	1,398	(2)	8,098	(9)	86	(\$)			•••••	
Illinois	. 11	625, 989	3.7	1, 110, 183	4.6	2, 265, 993	8.0	1, 960, 473	12.2	806, 589	12.0
Indiana	12	579, 061	8,4	751,808	3.1	1,741,853	6.1	2, 026, 212	12.6	881,049	. 13.1
Indian Territory ³	. 20	97, 381	0.6								
Iowa	. 14	521, 212	8,1	1, 886, 605	5.7	2, 064, 020	7.8	1,218,636	7.6	1,211,512	18,0
Kansas	. 10	785, 787	4.8	1,484,937	6.1	1, 429, 476	5.0	449, 409	2.8	87,656	1.
Kentucky		1,277,206	7.5	2,094,962	8.7	2, 962, 965	10.4	1,740,453	10.9	356,705	• 5.1
Louisiana	. 23	48,727	0.3	107,768	0,5	38, 777	0.1	180	(°)	• • • • • • • • • • • • • • • •	•••••
Maine				152	(*)	10 007			0.2	907	(9)
Maryland Massachusetts	1	4,058	(2)	4,732	(2)	19, 837 18	(²)	28,563	0.4	, 007	(2)
Miehlgan	1	24,059	0,1	45,524	0.2	102,500	0.4	94,686	0.8	86, 958	1,
Minnesota	-	157,605		840, 792	1	548, 369	1.9	38, 735	0,2	14,178	0.1
Mississippi	. 7	1, 162, 269	6.8	972,216	4.0	1,062,140	3,7	67,509	0.4	1,427	(2)
Missouri	1	1,990,987	1	2, 721, 240	11.2	4,129 595	14.5	1, 780, 171	10, 8	796, 111	11.
Montana	. 41	1.00	1			•••••			• • • • • • • • •		
Nebraska	. 21	92, 419	1	684, 146	1	246,047		77,598	0.5	23, 497	0,
Nevada	. 35	1,465	(2)	930		350	(\$)	8,651	(2)		
New Hampshire	1		• • • • • • • • • • • • • • • • • • •	50 001	(²)	1 001	• • • • • • • • • • • • • • • • • • • •	17 404		396	(2)
New Jersey New Mexico	1	450 2,812	1 1	281 281 3,510	(2) (2)	1,261	1	17,424		1,950	
New York		973		8,305	1	1,134		7,832		516	
North Carolina		1,419,570	1	1, 268, 946		\$164,662		621, 855	1 1	263, 475	3.
North Dakota ⁴		114		10	(¹)	17,012	0.1	1,280	(2)	20	(2)
Ohio		841, 528		547,680	1	1, 229, 852		2, 023, 427	12.6	779, 076	
Oklahoma ⁵	. 22	81,891	0.5	31, 299	0,1				• • • • • • • • • • • • • • • • • • • •		•
Oregon		2, 473		2,700		2,283				315	1
Pennsylvania	. 30	8, 514	(2)	88,708	0.2	69,767	0.2	213, 373		22,749	1
Rhode Island								20		20 51 041	
South Carolina	1	478, 190	1	559,210		281, 242	1.0	188,585	1,1	51,041	0,
South Dakota ⁶		9,859		29, 372 2, 542, 533		8,776,212	18, 8	1, 254, 701	7.8	706,663	10,
Tennessee		2,047,655				432,059		174,500		112, 412	
Texas Utah	4	877,282		24,298		432,059	1	67,440	1	25,475	
Vermont	. 24	20,017		4							
Virginia ⁷	13	555, 821	3.3	546,82		564, 558	2,0	329,155	2,1	221,270	3.
Washington		438		1,12		1,472		612	e (4)		
West Virginia		450, 777		512,74		817, 168	1	11			
Wisconsin		160, 414	1	219,07		814, 150		74,478	3 0,5	19,85	ι <u> </u> 0.
Wyoming				. 12	(^e) (

¹ The first column shows the rank of the state or territory when arranged according to the production of sorghum sirup.
 ² Less than one-tenth of 1 per cent.
 ³ No report prior to 1900.

⁴Dakota territory prior to 1800. ⁶Included in Indian Territory prior to 1890. ⁶Oncluded in Dakota territory prior to 1890. ⁷In 1860 and 1850 Virginia included West Virginia.

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TABLE 12.—ACREAGE, QUANTITY SOLD, AND RECEIPTS FROM SALES OF BEETS GROWN FOR SUGAR MAKING, AND SPECIFIED DATA AS TO THE MANUFACTURE OF BEET SUGAR, BY STATES AND TERRITORIES.

		Total	SUG.	AR BEETS	GROWN IN	r 1899.		AVERAGE.	Per cent	Per cent	
STATES AND TERRITORIES.	Rank,1	number of farms. ²	Farms re- porting.	Acres.	Tons ⁸ sold,	Received from sales.	Acres per farm.	Tons per acre.	Receipts from sales,	of total acreage,	of total tons grown.
The United States		1, 692, 464	14, 035	110, 170	798, 858	\$3, 323, 240	7.8	7.2	\$30.16	100.0	100.0
California	1	72,542	863	41,242	356, 535	1,550,346	47,8	- 8.6	37, 59	37.4	44.9
Colorado	9	24,700	169	1,094	6,656	26,711	6,5	6,1	24.42	1.0	0.8
Illinois,	8	264, 151	78	1,370	9,109	86, 223	17.6	6.6	26,44	1.2	1.2
Miehigan	2	203, 261	9, 085	40, 247	215,373	877, 481	4.4	5,4	21.80	36, 5	27.2
Minnesota	7	154,659	624	2, 114	15, 959	59, 820	3.4	7.5	28,30	1.9	2.0
Nebraska	4.	121, 525	535	8,662	62,470	222, 258	16, 2	7.2	25.66	7.9	7.9
Nevada	14	2,184	1	2	2	10	2.0	1.0	5,00	(4)	(4)
New Mexico	11	12, 311	33	1,298	3, 965	16, 849	39, 3	3.1	12,98	1,2	0.5
New York	5	226,720	774	2,058	16,008	75, 487	2.7	7.8	86, 77	1.9	2.0
Oregon,	6	35, 837	-63	2,510	14,462	63, 322	39.8	5.8	25, 23	2.8	1.8
Texas	12	352, 190	20	185	523	2,451	6.8	3.9	18, 16	0.1	0.1
Utah	8	19, 387	1,753	7,546	85, 914	365, 163	4.3	11.4	48, 39	6.9	10.8
Washington	10	33, 202	29	1,863	6,149	26,176	64,2	3.3	14.05	1.7	0.8
Wisconsin	18	169,795	8	84	233	987	4,2	6.9	27.56	(1,7	(4)

A.—Sugar Beets as Reported by Farmers.

B.—Acreage, Quantity, and Cost of Sugar Beets as Reported by Factories.

TOTAL.						AVERAUE QUAL ITY OF BEETS.								
STATES AND TERRITORIES.	Acres.	Tons. ³	IS. ³ Cost. Factory proprietors. Tenants of factory pro- prietors. Contract by oth		thers.	Per cent	Coeffi-							
				Acres,	Tons. ³	Cost.	Acres.	Tons, ³	Cost.	Acres.	Tons. ³	Cost.	cent of su- erose, coefficient o purity,	purity.
The United States	185, 805	794,658	\$3, 485, 320	10, 289	28, 241	\$93, 898	13,074	95,071	\$430, 479	111,992	676, 846	\$2, 960, 943	14.5	81.2
California. Michigan Other states and territories.		354, 942 205, 925 288, 791	1, 585, 953 902, 592 996, 775	7, 526 28 2, 685	10, 645 218 12, 378	42, 718 511 50, 669	12, 762 312	93, 294 1, 777	422, 704 7, 775	43, 590 87, 006 81, 896	251, 003 205, 707 219, 636	1, 120, 531 902, 081 938, 331	15, 9 18, 3 13, 6	81, 2 82, 9 79, 7

C.—Materials Used in the Manufacture of Beet Sugar.

	Tons ³ of	SUBSTANCES USED IN REFINING, PACKING, AND FOR FUEL.											
STATES AND TERRITORIES.	sugar beets.	Tons ³ of limestone.	Tons ³ of , coke.	Tons ³ of sulphur,	Number of barrels.	Number of sacks,	Tons of coal.	Gallons of oil.	Cords of wood,				
The United States		64, 805	7, 519	149	90, 985	1, 842, 649	109, 235	7,017,079	3,459				
California Michigan Other states and territories	205,925	82, 403 15, 403 16, 999	8, 274 2, 079 2, 166	51 40 58	1, 301 79, 468 10, 216	891, 924 76, 796 373, 929	8,558 47,979 52,698	7, 004, 415 12, 664	3,459				

D.-Quantity and Value of Products Made from Sugar Beets.

	Total			SUG.	AR.			MOLAS	SES.	VALUI	OF OTH	IER PRO	DUCTS,
STATES AND TERRITORIES.	value of all products,	Tot	al.	Granu	lated,	Ra	w.			Beet			Fertil-
teres - and a second to the second		Pounds,	Value.	Pounds,	Value.	Pounds.	Value.	Gallons,5	Value,	pulp.	Juice,	Lime.	izer,
The United States,	\$ 7, 828, 857	163, 458, 075	\$7, 222, 581	115, 686, 856	\$5, 580, 527	47, 771, 719	\$1,642,054	3, 551, 856	\$25, 102	\$21,822	\$51,000	\$ 642	\$2,710
California. Michigan . Other states and territories.	1,602,266	86, 741, 718 38, 708, 288 48, 008, 079	1,600,284	82,737,098	2,049,726 1,561,100 1,969,701	42, 901, 802 971, 185 3, 898, 732	39, 184	1,708,501 321,100 1,522,255		6, 968 241 14, 613	51,000	516 126	2,710

¹This column shows 'h ; rank of the state or territory when arranged according to the receipts from sales in 1899. ² For states reporting sugar beets.

⁸ Two thousand pounds, ⁴ Less than one-tenth of 1 per cent. ⁵ Includes quantities for which no value could be given, also wastage.

GENERAL TABLES.

TABLE 13.—QUANTITY AND VALUE OF MAPLE SUGAR MADE ON FARMS IN 1899, AND QUANTITY REPORTED IN CENSUS YEARS 1850 TO 1890, BY STATES AND TERRITORIES.

	an anna an		CENSUS	1900.			Pou	NDS OF SUG.	AR REPORTE	D, CENSUSES	s of—					
STATES AND TERRITORIES.	Total number of farms,	Farms report- ing.	Pounds,	Value.	Average pounds per farm report- ing.	Average value per farm,	1800	1880	1870	1860	1850					
The United States ¹	5, 739, 657	62, 714	11, 928, 770	\$1,074,260	190	\$17.18	32, 952, 927	36, 576, 061	28, 443, 645	40, 120, 205	84, 258, 430					
North Atlantic division	677,506	39, 863	10, 478, 240	954, 055	263	23, 93	29, 037, 260	28, 631, 366	19, 508, 258	27,097,081	21, 274, 317					
South Atlantic division North Central division	962, 225	1,950	426, 200	34,767	219	17.83	368,712	576, 788	827, 422	1,088,425	1, 303, 587					
South Central division	2, 196, 567 1, 658, 166	20, 744 157	1,020,830 8,500	84, 980 458	49	4.10 2.92	3, 526, 194 20, 761	7, 270, 126 97, 831	7, 702, 265 405, 694	11, 489, 784	11,069,342					
Western division	242,908								400,094	499, 965	600, 190					
Alabama	223, 220									228	643					
Alaska Arizona	12	•••••				•••••	••••••	·····								
Arkansas	5,809 178,694				•••••	• • • • • • • • • • •		•••••	1,185	3,077	9, 830					
California	72, 542								1,100	0, V//	9,880					
Colorado	24,700															
Connecticut	26, 948	59	4, 980	750	- 84	12.71	8,617	44,092	14,266	44, 259	50, 796					
Delaware	9,687	• • • • • • • • • • • • • • • • • • • •	•••••				•••••	•••••	•••••		• • • • • • • • • • • • • • • • • • • •					
District of Columbia Florida	269 40, 814	•••••	•••••		•••••	·····	•••••	•••••	•••••	•••••						
							****	•••••		•••••	• • • • • • • • • • • • • •					
Georgia Hawaii	224,691 2,273	• • • • • • • • • • • •	• • • • • • • • • • • • •	•••••	•••••		•••••	•••••	•••••	991	50					
Idaho	17,471	•••••					•••••		••••	•••••	•••••					
Illinois	264, 151	248	1,090	478	16	1, 93	18, 260	80, 193	136, 873	184, 195	248,904					
Indiana	221,897	4,467	51,900	4,872	12	0, 98	67, 929	235, 117	1, 882, 882	1, 541, 761	2, 921, 192					
Indian Territory	45, 505															
Iowa	228,622	83	2, 320	280	28	8, 37	45, 120	50, 710	146, 490	315, 436	78, 407					
Kansas Kentucky	178, 098 234, 667		2, 340	291	25	 3, 18	11,259	66, 535	938 269, 416	8, 742 280, 041	105 405					
Louisiana	115,969								200,410	380,941	487, 405 255					
Maine	59,299	641	5, 500	648	9	1,00	84, 537	158, 334	160, 805	306, 742	98, 542					
Maryland	46,012	209	264, 160	20, 561	1,264	98, 38	156, 284	176,076	70, 464	63, 281	47,740					
Massachusetts	37,715	1,000	192, 990	21, 124	193	21,12	558, 674	878, 798	399, 800	1,000,078	795, 525					
Michigan Minnesota	203, 261 154, 659	3,168 147	302, 715 29, 580	26, 698 2, 788	96 201	8,48 18,59	1,641,402	3, 423, 149 76, 972	1,781,855 210,467	4,051,822 370,669	2, 489, 794 2, 950					
		4.41	wol (10)		201	114,110	01,011	10,014		640,000	2, 900					
Mississippi Missouri	220,803 284,886	296	12,055	1,288	41	4, 35	20, 182	58, 964	125 116, 980	99 130 009	170 010					
Montana	18,370			1,400		4,00	40, 104	00, 304	110, 960	142, 028	178, 910					
Nebraska	121,525	•••••	•••••				12	402	10	122	.,					
Nevada	2,184		•••••	•••••	• • • • • • • • • • • •	• • • • • • • • • • • •	•••••	• • • • • • • • • • • • • • • •		• • • • • • • • • • • • •	 ••••••					
New Hampshire	29, 824	1,681	441, 870	44, 812	271	27.17	2, 124, 515	2, 731, 945	1,800,704	2,255,012	1, 298, 863					
New Jersey	34,650	• • • • • • • • • • • • • • •	•••••	• • • • • • • • • • • • •	· · · · · · · · · · · ·	• • • • • • • • • • •	210	2,496	419	3,455	2, 197					
New Mexico New York	12, 311 226, 720	20, 567	8, 623, 540	307,184	176	14.94	10, 485, 623	10, 693, 619	6,692,040	10, 816, 419	10, 357, 484					
North Carolina	224,637	21	1,180	117	56	5, 57	7,718	4,103	21, 257	30, 845	27, 932					
North Dakota	45, 832															
Ohio	276, 719	12,067	618, 990	48, 786	51	4.04	1, 575, 562	2, 895, 782	3, 469, 128	3, 345, 508	4, 558, 209					
Oklahoma Oregon	62,495	• • • • • • • • • • • • •		•••••	• • • • • • • • • • • • •	· · · · · · · · · · · · · · ·		• • • • • • • • • • • • • • •	••••••	•••••						
Oregon Pennsylvania	35, 887 224, 248	6, 1 54	1,429,540	115, 910	232	18,83	1,651,163	2, 866, 010	11 1, 545, 917	2, 767, 885	2, 326, 525					
			.,,					.,,.		_,,						
Rhode Island South Carolina	5, 498 155, 355								·····2	205	28 200					
South Dakota	52,622	•••••							-							
Tennessee	224,628	64	1,160	167	18	2, 61	9, 167	81,296	134,968	-115, 620	158, 557					
Texas	852, 190	• • • • • • • • • • • • • • • • • • • •							•••••							
Utah	19,387															
Vermont Virginia. ²	38,104 167,886	9,811 213	4,779,870 19,310	464,182	487 91	.47.31 8,53	14, 128, 921 26, 991	11, 261, 077 85, 693	8, 894, 802 245, 093	9, 897, 781 938, 103	6, 849, 857 1, 227, 665					
		-10	10,010	,,,,,,,,,	474 	C4 100	any out		# x01 W/U	000,100	*1 mm (1 000					
Washington West Virginia	33, 202 92, 874	1,507	141, 550	12,278		8.14	177, 724	310, 866	490, 606		• • • • • • • • • • • •					
Wisconsin	169, 795	268	4,180	400	. 16	1.49	128,410	448,837	507, 192	1,584,451	610, 976					
Wyoming	6,095	• • • • • • • • • • • •														
Dute for Alaska and Howaft incl			<u> </u>	l	t	1	u	1	!	l	1					

¹ Data for Alaska and Hawaii included in totals for United States, but not in those for the five geographic divisions.

² In 1860 and 1850 Virginia included West Virginia.

TABLE 14.—QUANTITY AND VALUE OF MAPLE SIRUP MADE ON FARMS IN 1899, AND QUANTITY REPORTED IN THE UENSUS YEARS 1860 TO 1890, BY STATES AND TERRITORIES.

			CENSUS	1900.			GALLONS OF STRUP REPORTED, CENSUSES OF-					
STATES AND TERRITORIES,	Total number of farms,	Farms report- ing,	Gallons,	Value,	Average gallons per farm report- ing.	Average value per farm,	1890	1880	1870	1860		
The United States ¹	. 5, 739, 657	62,718	2,056,611	\$1 , 562, 451	32,8	\$24.91	2, 258, 376	1, 796, 048	921,057	1,597,589		
North Atlantic division	677,506	39,863	820, 108	664, 369	20,6	16.67	1,019,578	712, 390	145,000	NO.6. 500		
South Atlantic division		1,950	22,505	18,271	11.5	9.37	24,663	38, 839	145, 309 32, 401	364, 590 119, 788		
North Central division	2, 196, 567	20,746	1, 211, 884	877,079	58,4	42,28	1,202,481	1,013,601	684, 291	898, 593		
South Central division		157	2,538	2,619	16.2	16.68	11,654	31,218	59, 026	214, 572		
Western division	. 242,908	2	126	113	63, 0	56,50		• • • • • • • • • • • • • • •	30	46		
Alabama	. 228, 220								3			
Alaska	. 12											
Arizona	.,			,	1		•••••					
Arkansas California	,		•••••	•••••	•••••	•••••		• • • • • • • • • • • • • • • • • • • •	75	124		
Camorina	. 72,542			•••••	•••••		••••••	•••••	· · · · · · · · · · · · · · · · · · ·	6		
Colorado	. 24, 700											
Connecticut	.,,	59	948	986	16, 1	16,71	1,437	2, 173	168	2, 277		
Delaware	., .,	· · · · · · · · · · · ·			••••••		•••••	•••••				
District of Columbia Florida			•••••	•••••	•••••			•••••		•••••		
			• • • • • • • • • • • • • • • •		• • • • • • • • • • •			• • • • • • • • • • • • • • •	•••••	•••••		
Georgia										20		
Hawaii		•••••	• • • • • • • • • • • • • • • • • • • •			¦	•••••	•••••	,			
Idaho Illinois	17,471	•••••	· · · · · · · · · · · · · · · · · · ·			•••••		•••••]	•••••		
Indiana	264, 151	248 4,467	9,857 179,576	9,363 161,935	37.7	37.75	13,978	40,077	10,378	20,048		
	441,007	1,107	119,010	101,900	40, 2	36.25	180,702	242, 084	227,880	292, 908		
Indian Territory	· ·	• • • • • • • • • • • • • • • • • • • •										
Iowa		88	2, 662	2,640	32.1	31.81	14, 418	17,766	9, 315	11,405		
Kansas	1 '	2	45	60	22, 5	80,00		• • • • • • • • • • • • • • • • • • • •	212	2		
Louisiana		98	2, 867	2,450	25, 5	26.34	10,468	27,680	49,073	140,076		
		•••••		•••••	•••••		•••••	•••••	••••	••••		
Maine		641	16,024	15, 277	25, 0	23.83	71, 818	82,006	28, 470	82,679		
Maryland	· · · · ·	209	5,825	3,622	27, 9	17.33	1,021	2,043	374	2,404		
Massachusetts		1,000	27, 174	27,112	27, 2	27.11	33, 632	18,017	2,826	15, 807		
Minnesota	·) / · · ·	3,168 147	82,997 1,079	78, 903 939	26, 2 7, 3	23.33	197,775	131,990	28,637	78,998		
		~~~	1,010	505	7.0	6.39	12,091	11,407	12,722	23,038		
Mississippi		•••••	•••••		••••		•••••					
Missouri		296	5,474	5,271	18,5	17.81	8, 333	16,224	16, 817	18, 289		
Nebraska	. 13, 870 121, 525	• • • • • • • • •		•••••	•••••		•••••		•••••	•••••		
Nevada	2,184	•••••	• • • • • • • • • • • • •	•••••	•••••		39	202	••••	275		
						•••••	•••••	•••••	•••••	•••••		
New Hampshire	1	1,631	41,588	38, 314	25, 5	28, 49	81, 997	79, 712	16,884	43, 833		
New Mexico		•••••	•••••	• • • • • • • • • • • • • •		•••••	184	884	5	8,088		
New York		20, 567	418, 159	828, 996	20, 1	15.75	457 050					
North Carolina	224,637	-0,007	110,100	117	6.1	5,57	457,658 1,142	- 266, 890 582	46, 048 418	131, 843		
Novth Dubata							1,194	002	210	17,759		
North Dakota	,	10 005	000 ***			•••••	•••••	• • • • • • • • • • • • • • • • • • • •	·····	•••••		
Oklahoma	276, 719 62, 495	12,067	923, 519	616, 490	76.5	51.09	727, 142	495, 839	352, 612	370, 512		
Oregon		••••				•••••	••••••	•••••	80	•••••		
Peunsylvania		6,154	160, 297	123,863	26.0	20.13	154,650	140,667	30 39, 385			
Rhode Island				1				****	( Soloria			
South Carolina		•••••	• • • • • • • • • • • • • • •	·····	•••••			•••••	•••••	•••••		
South Dakota	52,622		•••••			•••••			•••••	•••••		
Tennessee	224, 623	64	171	169	2,7	2,64	1, 186	3,688	4,843	74, 872		
Texas		•					-, -, -, -, -, -, -, -, -, -, -, -, -, -	20101		141014		
Utah	. 352, 190 . 19, 387	•••••	• • • • • • • • • • • • • • • • • • • •	•••••	•••••		•••••	•••••	5, 032	•••••		
Vermont	. 19, 887	9,811	160, 918	134,821	16.4	70 71	010 050	100 001	10,000	40		
Virginia ²	167,886	213	1,677	1,534	16.4 7.9	13.74 7.20	218, 252 3, 468	128,091 7,518	12, 023 11, 400	16,253 99,605		
Wachington					ĺ		0,300	(1010	11, 100	891 000		
Washington		2	126	113	63.0	56,50	•••••	•••••	<b></b>	• • • • • • • • • • • • • •		
Wisconsin	92,874	1,507 268	14, 874 6, 625	12,998	9.9	8.63	19,032	28,696	20,209			
Wyoming	6, 095	400	0,028	6,478	24.7	24,17	48,006	58,012	31,218	88, 118		
	1.				1	<u> </u>		•••••	[ <u>-</u>	• • • • • • • • • • • • •		

¹ Data for Alaska and Hawaii included in totals for United States, but not in those for the five geographic divisions.

² In 1860 and 1850 Virginia included West Virginia.

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#### TABLE 15 .- ACREAGE, TONS SOLD, AND PRODUCTS, MADE ON FARMS, OF SUGAR CANE AND SORGHUM CANE, ACREAGE AND TONS SOLD OF BEETS GROWN FOR SUGAR, AND PRODUCTION OF MAPLE SIRUP AND SUGAR, IN 1899, BY COUNTIES.

A.--Sugar Cane

SUGAR CANE AND PRODUCTS. SUGAR CANE AND PRODUCTS. COUNTIES. COUNTIES. Gallons of Pounds of Gallous of Tons sold. Pounds of Acres. Tons sold, sirup. sugar. Acres, sirup. sugar, Alabama..... 32,871 2,7512,672,438 Florida-Continued. 18,765  $1,537 \\ 735 \\ 148$ 2,500 8,900 7,500 1,000 131, 192 30, 31912, 593 133, 386 35, 986 113, 786 125, 421 131, 19292, 237 23, 753 17, 102 13, 536 75, 517 ìi Autauga ..... 207 89 Baldwin Barbour Lafayette ..... Lake .... 78 300 45  $134 \\
 77 \\
 758$ 10 Bibb Bibb Bullock Butler Chambers Chilton Choictaw Chorke Lee ..... 200 150 4 14 820  $2,000 \\ 4,200$  $1,264 \\ 1,181$ Leon Laberty Laberty Mudison Manatee Marion Monroe Nassau Orance  $24, 411 \\ 80, 453$  $\frac{231}{100}$  $5\overline{4}$ . . . . . . . . . . . . . 5202 83,240 . . . . . . . . . . . . 1,60044,25588,41067,15911,400 606  $2\overline{7}$ 686 . . . . . . . . . 101.23780 4,063 92,526 5,595 18,655 529 938 10 Choetaw Clarke Clay Coffee Conceuh Coosa Covington Creashaw Dale Dala Dalas. Elmore 4 12 44 667 44 190 18 -40 18,900 71 3 102 îĩ 6, 900 755 1,680 •••••• 1.180 108,557 Osceola Pasco Polk 146 59 184 279 32  $\begin{array}{r} 66,896\\ 66,896\\ 36,149\\ 68,011\\ 97,236\\ 149,612\\ \end{array}$ 834 563 150 2, 810 4 730 .......... 851 59 107 90 50 859 12,3004,50015,400 $1,187 \\ 1,653$ 86,81318,968 12,856 12,856 25,741 68,073 22,522 12,218  $\frac{141}{175}$ 4,760 Dation Dations Elmore Escambia Fayette Geneva Hale Henry Lamar Lee Lowndes Macon Marengo Mobile Monroe Montgomery Perkens Pickens Pickens .....  $\begin{array}{r} 40,465\\65,909\\40,801\\7,037\end{array}$ 562. . . . . 839 770  $\frac{92}{159}$ Sumter..... 500 589 159 Suwanee Taylor Volusia 521 176 128 18,000 10,100 . . . . . . . . . . 600 998 .......... 15 7 574 469 . . . . . . . . . . . . 200 . . . . . . . . . . . . . . 28 Wakula Walton Washington.....  $\begin{array}{r}
 200 \\
 3,600 \\
 1,300 \\
 800
 \end{array}$ 12, 210 23, 954 83, 267 88, 491 629 909 . . . . . . . . 222 200 620 1,498 83 80 868 5, 186 85, 255 40 1,0381,129 $\begin{array}{r}
 180 \\
 200 \\
 300
 \end{array}$ Georgia ..... 69,82071,237 26,05618,868 3, 226, 367 226,730 1,047 183 71,237 40,424 21,665 83,744 64,075 51,357 24,5009 15 13 Appling Baker Baldwin Berrien Bibb Brooks Bryan Billoch Burloch 684 439  $\begin{array}{r} 47,109\\ 26,264\\ 8,818\\ 60,900 \end{array}$ 336 47 3,990 ••••• 280 61 509 53 65 1,071718 771 549 . . . . . . 8 92 . . . . . . . . . . . . . 39, 120 -49 145 150 88 995 191 947 881 208,100 2,310 27,190 Pickens Pike Randolph Russell Shelby Sunter Talladega Talladega Tallapoosa Tuscaloosa Washington Wilcox 34,796122,983 98 5 -82 643 1.100359 886 126 21,616 58,416 6,43520240 199 Burke. Burke. Burke. Cathlen. Campbell. Carroll. Charlton. Charlton. Charlton. Charlton. Charlton. Charlton. Charlton. Charlton. Charlton. . . . . . . . . . . . . . 33, 644 5, 014 3:30 1,100 .....  $\frac{2}{103}$ 85 254 144 478 153 96 469 ..... 23,924 24,708 310 2,810 8,121 12,6533 49 24 8,002 85,040 . . . . . . . . . . . . . . . . . . . . . . . 27 1,085 950 ..... 150 500 8, 150 10 26 51 560 34.245 ------535 - 8 66  $33, 472 \\ 85, 299$ . . . . 1,084 48 87 147 620 91 162 311 311  $\begin{array}{c}
12,000\\
6,103\\
17,260\\
2,726\\
\end{array}$ 80 41 Arizona 50 100 .............. 438 . . . . . . . . . . . Clay Clayton . . . . . . . . . . . . . . Maricopa Mohave Pima Yavapai 13 . . . . . Calinch Colfaeth Colquitt Columbia Coweta Crawford Decentur 8 50,6911,465 41,252 11.810 . . . . . . . . . . . . . 18 800 190 475 1, 349 708 37 . . . . . . . . . . . . . 4,500 85 57 ........... 138 39 56 119 68 1,917 15 41,202 4,476 11,506 6,334 310,983 76416 51 48 494 . . . . . . . . . . . . . ..... 800 Arkansas ..... .460 16 44,819 50 Deentur..... Dekalb..... Dodge ..... 4,260 1,510 200 300 ..... Ashley ..... Bradley ..... Calhoun ..... Chicot ..... 5 . . . . . . . . . . . . 478 742 . . . . . . . . . . . . 764 23, 542 55, 807 7, 802 5, 414 222 505 136 50 Dodge Dody ... Dougherty ... Doughs. Early . Echols . Efflugham . . . . . . . . . . . . . 304  $\frac{10}{43}$ 982 • • • • • • • • • • • • • • • . . . . . . . . . . . 126 472 . . . . . . 3,867 . . . . . . . . . . . . ..... Check Cleveland Columbia Dallas 62 $\frac{1}{2}$ 44 179 40 140 224 161 522 28,900 17,038 . . . . . . . . . . . . 98 5 26 2,050 7,719 748 . . . . . . . . . . . . . 
 372

 3,088

 748

 186

 6,958
 43, 825 13,050 Funguar Fayette Gluseoek Glynn Greene Gwinnett Hancoek Mareis Darlins. Drew. Hempstead Howard. Lafayette Lincoln Little River. Miller. Nevada Ounchitt. Union . . . . . . . . . . . . 706 147 80 92, 590 222 6, 320 80 ..... 6 35 82 10 4, 360 4, 485 1, 779 918 142 61 19 12 58 2,400 33 500 11 48 21 1,127 . . . . . . . . . . . . .  $\begin{array}{r}
 4,447 \\
 1,964 \\
 548
 \end{array}$ 49 . . . . . . . . . . . . . 6.067  $\begin{array}{r} 76\\ 484\\ 50\\ 26\\ 311\\ 269\\ 839\\ 292\\ 85\\ 371\\ 145\\ \end{array}$ ..... Hanicock Heard Heard Henry Huuston Irwin Jasper Jefterson Johnson . . . . . . . . . . . . . 500 õ 66.307  $17^{7}$ ..... . . . . . . . . . . . . .  $10 \\ 52$ 1,488 9,894 .... . . . . . . . . . . . . . 90 ...... . . . . . . . . . . . . . . . . . . . . . . . . . 1.39820.718  $\begin{array}{r} 47,160\\ -4,846\\ 84,246\end{array}$ 3,380 9 Florida ..... 13,800 1,157 1,687,452 284,300100 368 Alachua Baker Bradford 891 -1 112,945 24,600Johnson Jones Laurens 36.716 64 28 900  $\begin{array}{r} 112, 943\\ 7, 916\\ 63, 583\\ 809\\ 85, 128\\ 18, 805 \end{array}$ 96,716 9,060 15,703 15,001 42,716 411 68,283 9,317 - 59 -160 200 24 23, 100 1,806 1,050 Brevard Calhoun  $\begin{array}{c}144\\164\end{array}$ . . . . . . . . . . . . 229 2,580 . . . . . . . . . . . . 480 Citrus ..... 113 100 Clirus. Chay.... Columbia Dade. De Soto. Duval. Escambia Franklin. Gadsden Hamilton Hernando. Hillsboro. Holmes. 46 193 10 21,26255,425 20, 300 20, 600 389 28, 210 423 . . . . . . . . . . . . 16530 140 . . . . . . . 20,550 34,710 220159 90  $\frac{2}{206}$ 22018,715 34,865 16,628  $15,500 \\ 25,300 \\ 2,200$ 3 266 360 49 a 512 59 54 345 1,300 900 100 44, 109 1 123  $\begin{array}{r} 44,\,109\\ 40,\,835\\ 22,\,347\\ 76,\,571\\ 25,\,866\\ 74,\,133\\ 5,\,070\\ 16,\,604 \end{array}$ 411 i 37 1,176 530 172  $197 \\ 543 \\ 286 \\ 566$ 4,251 900 -5 18 166, 956 35, 079 2,700 2,120 625 14,466 300 69 5,150

Morgan Muscogee

41 205

234

4,2001,800

AGR-PT 2--31

Holmes .....

296

44 968

40,083

500

298

481

60

1,110

## TABLE 15.—ACREAGE, TONS SOLD, AND PRODUCTS, MADE ON FARMS, OF SUGAR CANE AND SORGHUM CANE, ACREAGE AND TONS SOLD OF BEETS GROWN FOR SUGAR, AND PRODUCTION OF MAPLE SIRUF AND SUGAR, IN 1899, BY COUNTIES-Continued.

A .-- Sugar Cane-Continued.

		SUGAR CANE	AND PRODU	JCTS.			SUGAR CAN	E AND PROD	UCTS.
COUNTIES,	Acres.	Tons sold.	Gallons of sirup.	Pounds of sugar.	COUNTLES.	Acres.	Tons sold.	Gallons of sirup.	Pounds of sugar,
Georgia—Continued, Newton Oglethorpe. Paulding Pilerce Pike Pulaski Putnam Quitman Quitman Randolph Richmond Rockdale. Schley Screven Spalding Stewart Sunter Talbet Tattnall Taylor Terfair Terrell Thomas Troup Twiggs Upson Waren Waren Washington Wayne Webster Wilkes	$\begin{array}{c} 33\\ 10\\ 32\\ 86\\ 335\\ 335\\ 237\\ 59\\ 38\\ 38\\ 599\\ 539\\ 393\\ 315\\ 393\\ 315\\ 393\\ 315\\ 393\\ 315\\ 393\\ 347\\ 7539\\ 286\\ 422\\ 416\\ 426\\ 268\\ 422\\ 186\\ 688\\ 422\\ 186\\ 688\\ 220\\ 41\\ 1\\ 70\\ 0\\ 163\\ 43\\ 43\\ 43\\ 43\\ 43\\ 43\\ 43\\ 43\\ 43\\ 4$	$\begin{array}{c} & & & & & & \\ & & & & & & \\ & & & & & $	$\begin{array}{c} \textbf{3, 625} \\ \textbf{1, 260} \\ \textbf{4, 571} \\ \textbf{5, 886} \\ \textbf{22, 056} \\ \textbf{6, 036} \\ \textbf{13, 854} \\ \textbf{22, 056} \\ \textbf{6, 036} \\ \textbf{150} \\ \textbf{3, 780} \\ \textbf{3, 780} \\ \textbf{3, 886} \\ \textbf{3, 780} \\ \textbf{3, 886} \\ \textbf{85, 186} \\ \textbf{6, 631} \\ \textbf{38, 587} \\ \textbf{44, 478} \\ \textbf{34, 994} \\ \textbf{44, 78} \\ \textbf{34, 994} \\ \textbf{58, 900} \\ $	250 170 170  150  5, 160  20, 750 1, 240 20, 750 1, 240 1, 650 80 7, 380  1, 100 250 140 7, 660	Louisiana—Continued. Tangipahoa. Terrobonne Union Vermilion Vermilion Wessington. Wessington. Wessington. Wessington. Wessington. Wessington. Mississippi Adams. Alcorn Amite. Attala. Bolivar Calhoun Carroll Chickasaw. Choetaw. Claiborne Clarke. Clarke. Clarke. Copiah. Covington. Franklin. Greene. Greene. Greene. Greene. Hancook.	$\begin{array}{c} 114\\ 27,177\\ 98\\ 3,230\\ 17\\ 210\\ 150\\ 26\\ 56\\ 11,552\\ 38\\ 1\\ 240\\ 571\\ 7\\ 6\\ 145\\ 27\\ 17\\ 6\\ 146\\ 155\\ 387\\ 78\\ 3434\\ 438\\ 88\\ 88\\ 8\\ 8\\ 21\\ 1\end{array}$	94,286 20,428 	$\begin{array}{c} 17, 348\\ 15, 582\\ 11, 262\\ 8, 508\\ 2, 296\\ 24, 103\\ 16, 763\\ 188, 758\\ 9, 206\\ 7, 079\\ 1, 413, 219\\ \hline 375\\ 60\\ 35, 413\\ 62, 190\\ \hline 17, 976\\ 8, 874\\ 16, 744\\ 3, 769\\ 48, 883\\ 6, 542\\ 29, 652\\ 222, 423\\ 4, 645\\ 1, 195\\ 2, 587\\ 2, 587\\ \end{array}$	24, 669, 500 296, 200 3, 777, 000 300 18, 930 150 860 500 90 2, 100 520 500 240
Wilkinson Worth Hawaii Kanai Janai Janai Maui	295 569 65, 687 35, 096 12, 947 200 10, 534	107 810 172, 544 97, 750 46, 602 4, 000 1, 200	2, 925 30, 425 67, 117	1,800 504,508,000 199,226,000 110,880,000 108,712,000	Harrison Hinds . Holmes . Itawamba Jackson . Jaspor . Jefferson Jones . Kemper . Lafayette	$ \begin{array}{r} 100 \\ 168 \\ 256 \\ 83 \\ 544 \\ 51 \\ 252 \\ 456 \\ 7 \\ \end{array} $	$ \begin{array}{c c} 18\\ 77\\ 12\\ 8\\ 70\\ 9\\ 51\\ 774\\ 246\\ 24\\ \end{array} $	$\begin{array}{c} \overline{9}, 824, \\ 17, 843 \\ 30, 811 \\ 241 \\ 10, 182 \\ 64, 998 \\ 5, 976 \\ 22, 822 \\ 58, 696 \\ 385 \\ 385 \end{array}$	200 1, 010 
Oahu ¹ Indian Territory Cherokee ⁴ Chickasaw ² Choctaw ² Louisiana	6, 910 35 4 11 20 276, 966	22, 982 229 18 41 170 1, 038, 496			Lawderdale Lawrence Leake Lee Leflore Lincoln Lowndes Madison Marion Monroe	$\begin{array}{r} 686 \\ 562 \\ 587 \\ 2 \\ 4 \\ 393 \\ 6 \\ 148 \\ 458 \\ 458 \\ 16 \end{array}$	$ \begin{array}{c c} 126 \\ 6 \\ 7 \\ 3 \\ 4 \\ 705 \\ 26 \\ 14 \\ 75 \\ 6 \\ 6 \\ 7 \\ 6 \\ 7 \\ 7 \\ 6 \\ 7 \\ 7 \\ 7 \\ 7 \\ 7 \\ 7 \\ 7 \\ 7 \\ 7 \\ 7$	80, 359 78, 412 60, 214 	2,000 1,390 200 1,200 50 50
Acadia. Ascension Assumption Avoyelles Bienville Bossier Caddo. Calcasieu Caldwell Cameron Cataboula Chaiborne De Soto.	$\begin{array}{c} 248\\ 11, 454\\ 28, 023\\ 688\\ 711\\ 42\\ 33\\ 207\\ 28\\ 31\\ 207\\ 28\\ 31\\ 25\\ 190\\ 80\\ \end{array}$	1,094 44,821 107,599 2,727 	$\begin{array}{c} 14,094\\ 5,675\\ 177,665\\ 20,564\\ 8,188\\ 4,591\\ 8,225\\ 12,887\\ 3,001\\ 4,371\\ 8,179\\ 26,676\\ 8,790\end{array}$	100 5, 356, 300 11, 819, 499 821, 300 	Montgomery Newhoba Nowton Noxubee Oktibbeha Panola Perry Pike Perry Pike Rankin Scott Sharkey Simpson	$\begin{array}{c} 77 \\ 451 \\ 754 \\ 68 \\ 87 \\ 12 \\ 51 \\ 201 \\ 602 \\ 8 \\ 337 \\ 362 \end{array}$	20 50 120 207 11 80 597 4 14 75	$\begin{array}{c} 7,716\\ 54,597\\ 100,391\\ 5,743\\ 10,991\\ 1,060\\ 4,610\\ 20,385\\ 91,555\\ 951\\ 46,048\\ 50,180\\ 822\end{array}$	470
East Baton Ronge East Feliciana Franklin Grant Iberia. Iberville Jackson Jefferson Lafayette Lafourche Lincoln Livingston Natchitoches	$\begin{array}{c} 4,421\\ 110\\ 5\\ 9\\ 19,449\\ 17,453\\ 63\\ 8,613\\ 8,104\\ 28,674\\ 147\\ 34\\ 30\\ \end{array}$	27,065 219 12 90,654 47,189 11,927 52,445 121,842 64	3,730 15,755 11,010 421 934 57,932 49,473 7,078 150 26,140 	800,000 6,214,800 8,806,200 3,257,600 622,000 19,069,200	Simpson Smith. Sunflower. Tallahatchie. Tate Warren Wayne. Webster. Wilkinson Winston Yazoo. New Mexico	$ \begin{array}{c} 181\\ 268\\ 4\\ 29\\ 9\\ 209\\ 12\\ 76\\ 222\\ 151\\ 5 \end{array} $	63 347 16 2 9 208  35 76 34 191		630 1, 500 200 100 850
Orleans Ounchita. Plaquemines. Pointe Coupee Rapides Red River Richland Sabine St. Bernard St. Charles St. Helena	1,610 86 8,605 1,787 1,729 6 12 100 1,998 9,711 89	754 61, 880 2, 020 18, 481  10, 246 22, 824 02	85,000 11,595 87,225 25,380 890 1,671 14,841	2,288,200 4,863,800 24,400 508,800 1,242,000 9,803,100	Chaves. Socorro North Carolina Columbus. South Carolina	4 1 25 25 7, 842	188 8 11 11 3,585	1,957	49,590
St. Jaines St. John the Baptist St. Landry St. Martin St. Mary St. Tammany. ¹ Island,	$\begin{array}{r} 22,280\\ 14,763\\ 1,531\\ 5,546\\ 44,137\end{array}$	74, 149 62, 597 3, 861 29, 525 121, 978	24, 795 42, 540 58, 294 11, 415 469, 168 30, 335	10, 951, 100 6, 596, 500 862, 800 1, 266, 000 88, 257, 900 1, 200	Abbeville Aiken Anderson Bamberg Barnwell Beaufort	8 183 1 496 912 184	579 25	18, 146 81 45, 485 108, 779 14, 210	540 18,910 2,870 1,000 ian nation.

482

A .- Sugar Cane-Continued.

		SUGAR CANI	AND PROD	UCTS,			SUGAR CANE	AND FRODU	JCTS,
COUNTIES.	Acres.	Tons sold,	Gallons of sirup,	Pounds of sugar.	COUNTLES,	Acres,	Tons sold.	Gallons of sirup,	Pounds o sugar,
South Carolina—					Texas-Continued.		1999 - 1998 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 199	1 - 10 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 -	
Continued. arkeley	010			0.10	Harrison	67	80	8, 252	1,1
arleston	212	111	28, 826 160	6:20	Haskell	88	582	128	
arendon	354	690	38,258	20	Hays Henderson	2	6	100	
lleton	668	440	81,880	18,990	Hill	287	9	30, 100	• • • • • • • • • • • • •
orchester	242	5	38,139	10, 330	Hopkins	294	28 76	$283 \\ 36, 210$	
lgefield	8	12	605		Houston	161	57	18, 302	1,
orence	276	20	24, 220		Hunt	13	18	1,070	4,.
orgetown	9	2	766		Irion	5	28	1,010	
eenwood	2	4	103		Jack				
unpton	828	113	92, 485	9, 240	Jackson	18	51	1,151	
orry	177	188	22, 241	500	Jasper	84	25	8,483	1 8
ershaw	20 167	107	2,008 15,087		Jeff Davis	16	64		
arion	163	101		120 200	Jefferson	193	1,156	870	• • • • • • • • • • • •
angeburg	1,781	247	15,709 189,642	640	Johnson Kaufman	12	62	227	• • • • • • • • • • • •
chland	1, 189	36	8,779	290	Kondall	41	4	108	
luda	48	5	4, 890		Kont	15	52	4,683	
mter	333	887	82,462	180	Kerr	21	02	2,286	
liamsburg	327	181	32, 127	140	Kimble	4		2,260	
					Lamar	55	85	8, 837	
		ł			Lavaca	229	281	17,705	
Texas	17,824	54,758	888,637	2, 789, 250	Lee	85	485	475	
				-,	Leon	83	12	10,603	
lerson	355	9	10 101	10.000	Liberty	84	20	12,854	· · <b>· · · ·</b> · · · ·
relina	155 89	58	18,104	12,000	Limestone	82	92	661	
nsas	2	9	9, 291	• • • • • • • • • • • • • • • • • • • •	Llano MeCulloch	4	24	• • • • • • • • • • • • • •	
scosa	3	20	•••••		McLennan	5	27		
stin	90	43	7,509	100	Madison	70	430	70	-
dera	69	291	1,299		Marion.	28	37	620 2,895	•••••
trop	6	17	310		Mason	<b>9</b> 6	445	1,687	 1,1
	31	158	74		Matagorda	ĞŎ	440		+1 • • • • • • • • • • •
L	24	68	969		Medina	46	67		
ar	871	4, 524	2,660		Menard	2	4		
neo	282	1,749			Midland	4	20		
que	-9	46	181		Milam	24	56	2,865	
de	_ 80	15	2, 768		Mitchell	5	85	• • • • • • • • • • • • • • • • • • •	
zoria	746	1, 922	86,730	621,000	Montgomery	55	122	4,750	
zos wn	23	16 10	2,568 20	• • • • • • • • • • • • • • • • • • • •	Morris	178	1,218	•••••	
leson	28	10	287	•••••	Nacogdoches	138	279	17,046	· · · · · · · · · ·
net	48	839	140		Navarro Newton	20 59	24 11	1,211	8,
1well	226	1,593	655		Nucces.	3	6	$7,911 \\ 250$	••••••
ieron	244	80	2,940	\$08,000	Orange	35	22	3,781	• • • • • • • • • • • • •
1p	200	14	28,467		Palo Pinto	37	162		
3	161	61	19, 830		Panola	105	55		
mbers	15	47	920		Parker	7	24	208	
rokee	865	67	40,899	100	[ Polk	126	121	17,682	
lin lingsworth	79	401	250	• • • • • • • • • • • • • • • • • • • •	Presidio	18	112		
prado	1,684	9,852	180	• • • • • • • • • • • • • • • • •	Rains	20	42	1,100	
al	221	1,154	11,641	• • • • • • • • • • • • • • • • • • • •	Red River Reeves	59 8	117	4,586	· · · · · · · · · · · ·
anche	5	25	******		Robertson	62	65 50		• • • • • • • • • • • • • •
ke	4	12	214		Rusk	335	26		•••••
yell	19	88	161		Sabine	69	101	7,852	
as	56	261,	1,057		San Augustine	71	22	8,815	
a	1	• • • • • • • • • • • • • • • • • • • •	97		San Jaelnto	419	3, 377	2,483	
ton	3	9	30	•••••	San Saba. Shackelford	15	80	809	
land	26	8	2,534	• • • • • • • • • • • • • • • • • •	Snackelford	1		60	
land ards	8,	20	2,625	•••••	Shelby	252	39	29, 155	
3	18 53	848	2, 628		Smith	842 99	756	81,406	
h	00 00	918	100		Somervell Tarrant	99 4	504 7		•••••
8	4	18	4.45		Taylor	6	86		
nin	81	216	154		Titus.	189	50	15 033	
ette	801	877	33,459	100	Travis	148	608	1.612	
ler	1		20		Triuity	49	8	0.0091	
Bend!	4,783	15,679	80,655	1,887,600	Tyler	126	127	12.803	
nklin	205	67	28,855		Upshur	161	13	19.940	
estone	28		3,874	200	Uvalde	6	20	198	
	2	2	125		Van Zandt	305	557	90, 991 1	
veston	6	22	12		Vietoria	44	70	2.865	
espie	47	4	5, 576		Walker.	87	1	4.860 1	
zales	40	163 14	933 20	800 200	Waller	6	28	221	
yson	4	14	20		Washington	46	158	1,864	•••••
mes	44 26	72 17	8, 841 2, 795	800	Wharton	20	210 59	1 060	••••
idalupe	135	958	11,869	800	Williamson Wilson .	04	69 86	1,009	•••••
nilton	9	256 26	621		Wise	20 13 24 24	128	008 949	
						0.10		0000	•••••
din ris	24 71	31	1,940		Wood	240	99	39, 224	

B.-Sorghum Cane.

COUNTIES.	sorg	HUM CA PRODUC			SORG	HUM CA PRODUC				HUM CAR PRODUCI	
COUNTIES.	Acres.	Tons sold,	Gallons of sirup.	COUNTIES,	Acres.	Tons sold.	Gallons of sirup.	COUNTIES.	Acres.	Tons sold.	Gallons of sirup.
Alabama	14, 831	8, 145	1, 168, 868	Arkansas— Continued,		and the fight of the low of the		Georgia	11, 553	5,576	767,02
Autauga Barbour	91 40		6,400 2,454	Crawford Crittenden	353 25	12 	$24,520 \\ 1,802$	Baldwin Banks	$\frac{8}{172}$	9 12	83-
Bibb Blount	86	84	6,079 48,384	Dallas.	144 142	•••••	7,206 10,634	Bartow Burke	221	59	12,211 14,99
Bullock Butler	22	8	1,540	Desha Drew	56 269		3,382 21,090	Butty	8 92	32 56	8,20
Calhoun	443	5	$1,114 \\ 85,247$	Faulkner Franklin	422 204	20	$     \begin{array}{r}             34,291 \\             22,098         \end{array}     $	Campbell Carroll	189 401	197 103	10, 49 86, 45
Shambers		3	17,175 85,443	Fulton	420	10	29,359	Catoosa   Chattooga	126 172		10, 36 10, 57
Shilton	75	8 6	5,091 7,342	Garland Grant	79 166	16	8, 996 8, 663	Cherokee Clarke	175	13	18,06
larke llay	242		13,213	Greene Hempstead	222 225	14 8	22,116 17,614	Clayton	38 114	10 19	2,15 8,23
leburne	331	222	$   \begin{array}{r}     89,541 \\     22,170   \end{array} $	Hot Spring Howard	128 181	6 7	9,592 12,679	Cobb	378 1	$\frac{21}{1}$	28, 99
loffee	184	3 28	3,982 12,699	Independence	578		84,403	Columbia	20 94		$1,21 \\ 6,07$
loosa Irenshaw .	826 12	6	27,825 1,013	Izard. Jackson	438 81	4	89,690 6,012	Dade. Dawson	22	5	1,63
Jullman	354	9	29,802	Jefferson Johnson	$\frac{120}{848}$	15	8,908 24,349	Dekalb	$     \begin{array}{c}       163 \\       223     \end{array} $	$ \begin{array}{c} 5\\ 19 \end{array} $	$12,47 \\ 16,09$
)ekalb	487	2	8,495 40,074	Lawrence Lee	292 55	• • • • • • • • • •	$17,536 \\ 6,158$	Dooly Dougherty	4	11 49	•••••
Elmore Iscambia	7	22	12,253 510	Lincoln	420	11	25,118	Douglas Elbert	191 135		15,71 8,95
towah ayette	433	$     \begin{array}{c}       10 \\       26     \end{array} $	7,835 88,910	Logan Lonoke	$     \begin{array}{c}             863 \\             849 \\             849         \end{array}     $		25,142 29,970	Fannin Fayette	184 60	$166 \\ 217$	7,49
Franklin Jeneva	147	18	12,219	Madison Marion	$\frac{440}{215}$	15	88,709 19,960	Floyd	818	50	27,01
reene	419		82,743	Miller. Mississippi	$150 \\ 2$	•••••	9, 287 275	Forsyth Franklin	251 332	$\frac{2}{47}$	20,16 22,70
Iale Ienry	9	5	9,285 760	Monroe Montgomery	75 168	9 15	4,727	Fulton Gilmer	170 818	$59 \\ 149$	10,86 23,14
ackson efferson	308 885	12 70	25,826 80,846	Nevada	258	15 11	9,286 19,141	Glaseock Gordon	10		70
amar auderdale	499	860	85,903	Newton Ouachita	237 221	•••••	$14,258 \\ 18,878$	Greene	218 52	84 8	$15,61 \\ 2,89$
awrence	891	207 108	27,656 26,847	Perry Phillips	57 50	••••••	2,639 3,376	Gwinnett Habersham	362 138	$16 \\ 13$	27,99 10,19
dmestone	298	7 57	11,207 25,561	Pike	116	ĩ	7,006	Hall Hancoek	$141 \\ 126$	17 42	11,67 8,49
owndes Iacon		43 65	7,602	Poinsett Polk	$\frac{53}{250}$	12 19	2, 797 15, 600	Haralson Harris	284		18, 54
Iadison Iarengo	598	229	43, 896	Pope Prairie	467 115	12	$33,312 \\ 6,240$	Hart	91 225	55 180	5,76 13,72
farion	892	4	10,187 34,951	Pulaski Randolph	$177 \\ 350$	18 1	11,883 80,724	Heard. Henry	387 80	$\frac{4}{283}$	27,02 3,51
farshall	9	7	31,076 620	St. Francis Saline.	256	Ĝ	15, 289	Houston	$24 \\ 251$	$\frac{112}{202}$	12,72
fonroe fontgomery	59 50	7	4,308 2,552	Scott	180     91	6	$10,950 \\ 4,995$	Jasper Jefferson	98 24		7,45
Iorgan Perry	268	40	$24,784 \\ 4,976$	Searcy	298 347	7	17,854 19,684	Jones	24		1, 23
lickens like	898	60 55 7	81,747	Sevier Sharp	$\frac{322}{343}$	$\frac{13}{13}$	19,814 27,805	Laurens Liberty	8 7	$\frac{2}{4}$	9 48
tandolph	502		2,891 40,584	Stone Union	$\frac{119}{264}$	5	6,657 20,735	Lincoln Lumpkin	149 99	 75	8,62 6,04
Russell t. Clair	865	88	4,645 58,201	Van Buren	277	4	22.642	McDuffle Macon	4 <u>2</u> 8	38 2	2, 14 7
helby umter	288 842	46 880	24,688 21,059	Washington	$598 \\ 315$	23 4	47,008 22,082	Madison Marion	24 9	83 13	86 21
'alladega. 'allapoosa	668 279	20 54	54,467 23,657	Woodruff Yell	60 250		2, 987 22, 207	Meriwether	148	••••••••	11,96
uscaloosa Valker	278	28 609	20,825 27,252				,	Milton Mitchell	148 6		11,76 17
Vashington	3		295	California	140	6	8,671	Monroe Montgomery	97 8	40	5,94 70
Vileox. Vinston	. 171 816	72 51	12,977 24,283	Butte	1		45	Morgan Murray	$62 \\ 127$	$\frac{8}{12}$	4, 98 10, 45
Arizona	100		0.001	Colusa Kings			$1,320 \\ 1,580$	Muscogee Newton	27 187	80 50	1,29 11,46
Anzona	133	41	9,031	Merced Modoc	4		290 103	Oconee	88	34	3,73
pache Sochise	$\frac{23}{1}$	18	$1,120 \\ 40$	Orange San Bernardino	29	6	1,954	Oglethorpe Paulding	204 851	382 363	7,24 22,03
ila	6	8	800	San Diego	1		350 40	Piekens. Pike	$     112 \\     95   $	$\frac{152}{245}$	6,49 2,66
raham faricopa	27	5 7		San Joaquin San Luis Obispo	1		15	Polk Pulaski Putnam	186 9	71 16	12, 95
lohavé avajo avapai	$\frac{7}{21}$	•••••	465     1,486	Shasta			$150 \\ 1,964$	Putnam Relyin	58 87	ŝ	4,04
avapai uma	30 7	8	2,100 600	Ventura Yuba	8 ]		480 380	Rabun Randolph	6		6, 54 38
					Ů		000	Richmond Rockdale	24 98	$\frac{2}{2}$	1, 91 7, 67
Arkansas	17,684	878	1, 223, 691	Colorado	51	20	2, 661	Spalding	$\frac{24}{11}$	10 7	1, 42 46
rkansas	243	4	18,470	Arapahoe	25	5	1,428	Sumter Talbot		3 14	15 1, 74
shley axter	275	4 8	13,398 16,350	Boulder Delta	$\frac{2}{1}$	6	98 50	Taliaferro	56 1	$\frac{12}{25}$	8, 80
enton	845	6 1	50,720 23,834	Garfield Logan	Î 11		63 520	Towns	93	209	2,79
radley	176		10,603	Mesa	5	6	292	Troup. Twiggs	184 5	68 8	8,90 9
alhoun arroll	419	8 6	4,887 28,306	Morgan Phillips Prowers	1 4	8	80 100	Union Upson	208 33	6	15, 75
lark lay	224	····· 18	$11,963 \\ 18,301$	Prowers	1	•••••	80	Walker Walton	193	28 54	2, 21 15, 49 15 91
leburne leveland	238 225		$16,647 \\ 18,535$	Delaware	150		8, 952	Warren	266 193	448	15, 21 3, 15
Solumbia	389 i		22.824					Washington Wayne	69 1	20 2	8,114
onway raighead	138	0	27, 973 6, 905	Kent Sussex	$\frac{20}{130}$		1,188 7,764	Webster	$\frac{1}{229}$	1 166	15, 87

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## TABLE 15.—ACREAGE, TONS SOLD, AND PRODUCTS, MADE ON FARMS, OF SUGAR CANE AND SORGHUM CANE, ACREAGE AND TONS SOLD OF BEETS GROWN FOR SUGAR, AND PRODUCTION OF MAPLE SIRUP AND SUGAR, IN 1899, BY COUNTIES—Continued.

B.—Sorghum Cane—Continued.

COUNTLES.	song	HUM CA PRODUC		COUNTIES.	sono	HUM CA PRODUC				HUM CAL PRODUCT	
COUNTIES,	Aeres,	Tons sold,	Gallons of strup.	COUNTIES.	Aeres,	Tons sold,	Gallons of sirup.	COUNTIES.	Acres.	Tons sold,	Gallons of strup.
Georgia—Continued. Whitfield Wilcox Wilkes. Wilkinson Idaho	205 1 224 7 21	95 1 16 7 8	13,836 17,228 290 1,393	Illinois—Continued, Sangannon Schuyler Scott Shelby Stark Stephenson	21 119 12 93 51 88	21 50 8 6 8 43	1, 582 7, 991 801 8, 387 3, 496 2, 855	Indiana—Continued, Shelby	54 153 7 25 95 51	3 87 8 16 1	3,410 13,007 280 1,480 6,511 4,351
Latah Nez Perce Illinois	1 20 9, 158		55 1, 338 625, 939	Tazewell Union Vermilion Wabash Warren Washington	71 141 99 80 11 145	$408 \\ 68 \\ 114 \\ 16 \\ 129$	$1,078 \\ 11,339 \\ 7,340 \\ 6,440 \\ 897 \\ 8,501 $	Tippecanoe Tipton Union Vanderburg Vermilion Vigo	25 64 97 86 25	12 3	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
Adams. Alexander Bond Boone Brown Brown Calhoun Calhoun Carroll	$     \begin{array}{r}       158 \\       90 \\       58 \\       8 \\       50 \\       13 \\       64 \\       29 \\     \end{array} $	143 5 14 70 11	$\begin{array}{r} 8,956\\ 6,943\\ 4,424\\ 169\\ 8,862\\ 350\\ 5,027\\ 1,984\end{array}$	Wayne	$284 \\ 132 \\ 88 \\ 24 \\ 385 \\ 17 \\ 24 \\ 24 \\ 17 \\ 24 \\ 17 \\ 24 \\ 17 \\ 24 \\ 10 \\ 10 \\ 10 \\ 10 \\ 10 \\ 10 \\ 10 \\ 1$	2 8 60 10 28 55	$21,046 \\ 11,938 \\ 1,552 \\ 1,706 \\ 23,555 \\ 1,160 \\ 1,135$	Wabash Warren Warriek Washington Wayne Welk White Whitey	74 246 192 27 57 41 64	2 7 19 3 2	5,009 1,494 21,044 18,100 1,854 4,101 2,008 4,060
Cass Champaign Christian Clark Clark	45 85 24	39 92 8 47	$     \begin{array}{r}       1,009 \\       2,755 \\       5,052 \\       1,679 \\       11,230     \end{array} $	Indiana Adams Allen	7,955 60 110	2,569	579,061 5,314 6,188	Indian Territory Cherokee ¹	6, 689 2, 482	14, 932 4, 842	97, 881 42, 441
Clay Clinton Coles. Cook Crawford	126 91 44 9 122	83 53 44 5 28	6,588 7,189 8,260 705 8,298	Bartholomew Benton Blackford. Boone	36 69 61 60		2,632 4,698 1,883 4,668	Choetaw ¹ Creek ¹ Modoe, Shawnee, and Ot-	2, 424 514 1, 288 10	6,007 787 3,296 8	26, 781 20, 112 6, 037 704
Cumberland Dekalb Dewitt Douglas	$122 \\ 132 \\ 5 \\ 20 \\ 14$	155	6,732 6,732 446 1,499 968	Brown Carroll Cass. Clark Clark Clay	119 67 90 56 26		8,806 5,665 4,521 4,526 2,278	tawa ² Quapuw and Peoria ² Seminole ¹ Sencea and Wyandotte ²	10 8 3	25 17	266 205 235
Dupage Edgar Edwards Effingham Fayette	7 88 104 141 356		$\begin{array}{r} 260 \\ 1,916 \\ 8,542 \\ 11,845 \\ 20,929 \end{array}$	Clinton Grawford Daviess Dearborn	77 338 291 67	 97 48	6, 384 29, 399 19, 809 5, 503	Iowa Adair Adams	8, 287 62 148	10, 033 36 84	521, 212 8, 864 9, 569
Ford Franklin Fulton Greene Grundy	22 219 177 75 59	3 188	$\begin{array}{c} 20,823 \\ 1,576 \\ 17,099 \\ 11,604 \\ 5,597 \\ 4,667 \\ 0.01 \end{array}$	Decatur Dekalb Delawaro Dubois Elkhart Fayette	47 70 52 448 16 8	1 87	$\begin{array}{r} 4,150\\ 5,018\\ 4,890\\ 81,012\\ 1,166\\ 538\end{array}$	Allamakee Appanoose. Andubon Benton Blackhawk Boone	$     \begin{array}{r}       110 \\       102 \\       56 \\       65 \\       514 \\       117 \\     \end{array} $	$48 \\ 26 \\ 252 \\ 15 \\ 3, 246 \\ 22 \\ 22 \\ 3, 246 \\ 22 \\ 3, 246 \\ 22 \\ 3, 246 \\ 22 \\ 3, 246 \\ 22 \\ 3, 246 \\ 22 \\ 3, 246 \\ 22 \\ 3, 246 \\ 22 \\ 3, 246 \\ 22 \\ 3, 246 \\ 22 \\ 3, 246 \\ 22 \\ 3, 246 \\ 22 \\ 3, 246 \\ 22 \\ 3, 246 \\ 22 \\ 3, 246 \\ 22 \\ 3, 246 \\ 22 \\ 3, 246 \\ 22 \\ 3, 246 \\ 22 \\ 3, 246 \\ 22 \\ 3, 246 \\ 22 \\ 3, 246 \\ 22 \\ 3, 246 \\ 22 \\ 3, 246 \\ 22 \\ 3, 246 \\ 22 \\ 3, 246 \\ 22 \\ 3, 246 \\ 22 \\ 3, 246 \\ 22 \\ 3, 246 \\ 22 \\ 3, 246 \\ 22 \\ 3, 246 \\ 22 \\ 3, 246 \\ 22 \\ 3, 246 \\ 22 \\ 3, 246 \\ 22 \\ 3, 246 \\ 22 \\ 3, 246 \\ 22 \\ 3, 246 \\ 22 \\ 3, 246 \\ 22 \\ 3, 246 \\ 22 \\ 3, 246 \\ 22 \\ 3, 246 \\ 22 \\ 3, 246 \\ 22 \\ 3, 246 \\ 22 \\ 3, 246 \\ 3, 246 \\ 3, 246 \\ 3, 246 \\ 3, 246 \\ 3, 246 \\ 3, 246 \\ 3, 246 \\ 3, 246 \\ 3, 246 \\ 3, 246 \\ 3, 246 \\ 3, 246 \\ 3, 246 \\ 3, 246 \\ 3, 246 \\ 3, 246 \\ 3, 246 \\ 3, 246 \\ 3, 246 \\ 3, 246 \\ 3, 246 \\ 3, 246 \\ 3, 246 \\ 3, 246 \\ 3, 246 \\ 3, 246 \\ 3, 246 \\ 3, 246 \\ 3, 246 \\ 3, 246 \\ 3, 246 \\ 3, 246 \\ 3, 246 \\ 3, 246 \\ 3, 246 \\ 3, 246 \\ 3, 246 \\ 3, 246 \\ 3, 246 \\ 3, 246 \\ 3, 246 \\ 3, 246 \\ 3, 246 \\ 3, 246 \\ 3, 246 \\ 3, 246 \\ 3, 246 \\ 3, 246 \\ 3, 246 \\ 3, 246 \\ 3, 246 \\ 3, 246 \\ 3, 3, 3, 3, 3, 4, 3, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4,$	8,268 7,533 1,448 5,578 8,500 9,215
Hamilton. Hancock. Hardin Henderson. Henry	$     \begin{array}{r}             4 \\             302 \\             68 \\             73 \\             84 \\             152 \\             \end{array}     $	88 8 620	$\begin{array}{r} 310 \\ 26,257 \\ 3,872 \\ 6,146 \\ 2,383 \\ 4,428 \end{array}$	Plòyd. Fountain Franklin. Fulton Gibson Grant.	20 26 55 62 477 44	4 70 6 37 20	$1,632 \\ 1,213 \\ 5,588 \\ 4,837 \\ 83,143 \\ 8,432$	Breimer - Buchanan Buena Vista Butler - Calhoun Carroll	120 106 38 98 45	837 3 15 2 6	7,050 7,533 2,474 7,749 8,602
Iroquiois Jaekson Jasper Jefferson Jersey Jo Taytow	58 162 188 189 77	401	$\begin{array}{r} 4,030\\ 10,640\\ 13,094\\ 15,367\\ 6,702 \end{array}$	Greene. Hamilton Hancock Harrison Hendricks	149 74 189 318 63	12 5  74	$10,884 \\ 5,927 \\ 12,938 \\ 21,659 \\ 4,753$	Cass Cedar Cerro Gordo Cherokee Chickasaw	59 16 14 9 75	16 	4, 278 1, 352 884 487 5, 690
Jo Duviesa Johnson Kankakee Kendall Knox Lake	48 159 01 8 58 14	161 	2', 138 12, 982 6, 411 226 1, 538 1, 223	Henry Howard. Huntington Jackson Jasper. Jay	21 89 53 118 70 58	14 4	$1,770 \\7,162 \\4,711 \\9,501 \\4,681 \\4,947$	Clarke Clay Clay ton Clinton Cruwford Dallas	59 21 221 82 13 100	$7\\18\\17\\203$	$\begin{array}{c} 4,807 \\ 1,267 \\ 17,720 \\ 2,450 \\ 900 \\ 6,070 \end{array}$
Lawrence. Lee Livingston Logan McDonough	43 126 6 179 83 157	81 3 4 71 	2,944 11,664 800 12,010 2,345 8 286	Jefferson Jennings Johnson Knox Koseiusko Legrange	$     \begin{array}{r}       62 \\       72 \\       36 \\       146 \\       52 \\       28 \\     \end{array} $	452 18 4	$\begin{array}{c} 4,764\\ 4,638\\ 2,885\\ 6,651\\ 8,785\\ 1,944 \end{array}$	Davis Declaware Des Moines Dubuque Emmet.	$241 \\ 216 \\ 185 \\ 69 \\ 78 \\ 1$	54 42 57 81 112	$\begin{array}{c} 17,928\\18,025\\15,316\\4,820\\5,959\\74\end{array}$
McHenry McLean Macon Macoupin Madison	15 64 82 157 78 124	48 10 324	8,286 1,313 4,759 2,890 7,145 6,251 11,829 1,261 8,615	Lake Laporte Lawrence Madison Marlon Marshall	15 21 94 62 29	2 28 5	$1, 974 \\ 074 \\ 1, 893 \\ 6, 894 \\ 3, 885 \\ 2, 871 \\ 4, 800 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ 0.014 \\ $	Fayette Floyd Franklin Fremont. Greene	98 15 9 86 87	14 219 28	7,786 864 2,802 5,840
Marfon Marshall Mason Massac Menard Mercer	$124 \\ 18 \\ 85 \\ 59 \\ 81 \\ 115$	57 31 7 178 208	11,8291,2618,6155,0212,6325,409	Martin Miami Monroe Montgomery	70 211 89 78 18 139	14 48 10 1,068	4,800 15,969 7,833 5,020 1,376 2,072	Grundy. Guthrie. Hamilton. Haneoek. Hardin. Harrison.	8 66 63 88 135 89	$5 \\ 5 \\ 44 \\ 172 \\ 44 \\ 49 \\ 49$	890 5,275 4,624 440 8,974 7,443
Monroe, Montgomery, Morgan Moultrie Ogle	$     \begin{array}{r}       80 \\       142 \\       86 \\       29 \\       28     \end{array} $	38 175 2	5,087 8,128	Morgån Newton Nohle Ohio Orange Owen	$     \begin{array}{r}       11 \\       45 \\       1 \\       202 \\       43     \end{array} $	10 68 	$     \begin{array}{r}             480 \\             2,224 \\             70 \\             14,119 \\             3,664 \\         \end{array}     $	Henry Howard Humboldt Ida Iowa	104 20 11 8 61	8 · 10 5 1	7,587 1,674 802 356 4,987
Peoria Perry Platt. Plke Pope. Pulaski	$97\\157\\17\\113\\231\\54$	67 5 76 14 39	4,600 2,619 1,627 6,796 9,116 1,109 7,513 16,786 3,840	Parke Perry Pike Porter Posey Palaski	8 401 160 6 89 44	1 7  80 1	696 85, 752 18, 782 384 6, 821	Jackson. Jasper Jefferson Johnson Johnson Jones. Kookuk	$107 \\ 115 \\ 70 \\ 545 \\ 402 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\ 197 \\$	$\begin{array}{c} 66\\ 39\\ 1\\ 2,825\\ 188\\ 188\\ 1\end{array}$	8,108 8,413 5,486 12,543 30,206
Putnam. Randolph Richland Rock Island St. Clair.	$     \begin{array}{r}       30 \\       160 \\       205 \\       62 \\       47     \end{array} $	70 14 39 40 11 3 55 18 12	$ \begin{array}{r}     0,040 \\     988 \\     11,124 \\     14,441 \end{array} $	Putnam Randolph Ripley Rush St. Joseph Scott	80 91 109	1  	2, 884 5, 486 5, 849 7, 778 2, 138 922	Keokuk Kossuth Lee Linn Louisa Lucas	$127 \\ 11 \\ 194 \\ 98 \\ 79 \\ 66$	18 8 65 • 6 • 22	$\begin{array}{r} 11,152\\ 688\\ 10,100\\ 8,804\\ 5,145\\ 5,606\end{array}$
Saline ¹ Indian nation,	358	12	22, 021	Scott	33	20	2, 770	Lucas Lyon	3 1	10 n reserv	

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# TABLE 15.—ACREAGE, TONS SOLD, AND PRODUCTS, MADE ON FARMS, OF SUGAR CANE AND SORGHUM CANE, ACREAGE AND TONS SOLD OF BEETS GROWN FOR SUGAR, AND PRODUCTION OF MAPLE SIRUP AND SUGAR, IN 1899, BY COUNTIES—Continued.

B.-Sorghum Cane-Continued.

	SORG	HUM CA PRODUC			SORG	HUM CA PRODUC				HUM CAL PRODUC	
COUNTIES,	A ores,	Tons sold,	Gallons of sirup.	COUNTIES.	Aeres,	Tons sold,	Gallons of sirup,	COUNTIES.	Acres.	Tons sold,	Gallons of sirup.
Iowa—Continued. Madison . Manion . Marshall . Mills . Mitchell . Monroe . Monroe . Monroe . Monroe . Montgomery . Muscatine . Secola . Page . Palo Alto . Ply mouth . Docahontus . Polk . Cotta wattamie . Poeahontus . Polk . Sae . Sott . Shelby . Stout . Shelby . Stout . Shelby . Stout . Stout . Man Buren . Wapelo . Waren . Wayne . Wa	$\begin{array}{c} 261\\ 151\\ 68\\ 12\\ 91\\ 82\\ 82\\ 82\\ 80\\ 114\\ 11\\ 68\\ 82\\ 80\\ 102\\ 68\\ 59\\ 20\\ 20\\ 20\\ 20\\ 24\\ 44\\ 41\\ 41\\ 80\\ 68\\ 68\\ 68\\ 68\\ 68\\ 68\\ 68\\ 68\\ 68\\ 68$	$\begin{array}{c} 254\\ 24\\ 32\\ 129\\ 2\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\$	$\begin{array}{c} 6,952\\ 5,037\\ 11,022\\ 18,077\\ 2,310\\ 1,049\\ 5,853\\ 5,64\\ 5,786\\ 5,853\\ 5,64\\ 5,712\\ 2,158\\ 8,714\\ 4,214\\ 2,185\\ 8,714\\ 4,242\\ 1,965\\ 1,667\\ 1,785\\ 8,714\\ 4,402\\ 9,862\\ 1,667\\ 1,675\\ 1,667\\ 1,687\\ 1,687\\ 1,687\\ 1,687\\ 1,687\\ 1,687\\ 1,687\\ 1,687\\ 1,687\\ 1,687\\ 1,687\\ 1,687\\ 1,687\\ 1,687\\ 1,687\\ 1,687\\ 1,687\\ 1,687\\ 1,687\\ 1,687\\ 1,687\\ 1,687\\ 1,687\\ 1,886\\ 5,009\\ 5,486\\ 5,009\\ 5,464\\ 5,009\\ 5,464\\ 5,009\\ 5,464\\ 5,000\\ 1,819\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,912\\ 1,$	Kansas—Continued. Morris Morris Nemaha Neosho Ness Norton Osborne Ottava Pawnee Paute Paute Paute Route Pratt Rawlins Reno Pratt Rawlins Reno Ropublic Riley Rooks Riley Rooks Riley Rooks Riley Soot Soot Soot Soot Soot Soot Soot Soo	$\begin{array}{c} 380\\ 1\\ 250\\ 180\\ 37\\ 166\\ 208\\ 208\\ 208\\ 208\\ 208\\ 208\\ 208\\ 208$	105 240 133 80 682 850 40 166 357 488 631 100 158 388 60 2,653 100 10 5 1,835 516 88 2,263 534	$\begin{array}{c} 24,985\\ 70\\ 14,811\\ 6,842\\ 405\\ 29,160\\ 105\\ 29,160\\ 105\\ 6,651\\ 11,502\\ 105\\ 6,651\\ 11,502\\ 1,508\\ 1,588\\ 1,848\\ 3,717\\ 3585\\ 3,946\\ 717\\ 855\\ 3,906\\ 72,20\\ 728\\ 20,728\\ 700\\ 2,400\\ 6,484\\ 700\\ 220\\ 2400\\ 6,285\\ 12,615\\ 800\\ 6,285\\ 12,615\\ 800\\ 6,285\\ 12,615\\ 800\\ 6,285\\ 12,615\\ 800\\ 6,832\\ \end{array}$	Kentucky— Continued, Jessamine Johnson Kenton Knott. Knott. 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Co	$\begin{array}{c} 21\\ 20, 689\\ \hline \\ 201\\ 132\\ 227\\ 352\\ 228\\ 490\\ 682\\ 202\\ 16\\ 892\\ 202\\ 16\\ 892\\ 202\\ 16\\ 892\\ 167\\ 892\\ 10\\ 1, 840\\ 10\\ 1, 840\\ 10\\ 1, 840\\ 10\\ 1, 840\\ 1, 840\\ 1, 840\\ 1, 840\\ 1, 840\\ 1, 840\\ 1, 840\\ 1, 840\\ 1, 840\\ 1, 840\\ 1, 840\\ 1, 840\\ 1, 840\\ 1, 840\\ 1, 840\\ 1, 840\\ 1, 840\\ 1, 840\\ 1, 840\\ 1, 840\\ 1, 840\\ 1, 840\\ 1, 840\\ 1, 840\\ 1, 840\\ 1, 840\\ 1, 840\\ 1, 840\\ 1, 840\\ 1, 840\\ 1, 840\\ 1, 840\\ 1, 840\\ 1, 840\\ 1, 840\\ 1, 840\\ 1, 840\\ 1, 840\\ 1, 840\\ 1, 840\\ 1, 840\\ 1, 840\\ 1, 840\\ 1, 840\\ 1, 840\\ 1, 840\\ 1, 840\\ 1, 840\\ 1, 840\\ 1, 840\\ 1, 840\\ 1, 840\\ 1, 840\\ 1, 840\\ 1, 840\\ 1, 840\\ 1, 840\\ 1, 840\\ 1, 840\\ 1, 840\\ 1, 840\\ 1, 840\\ 1, 840\\ 1, 840\\ 1, 840\\ 1, 840\\ 1, 840\\ 1, 840\\ 1, 840\\ 1, 840\\ 1, 840\\ 1, 840\\ 1, 840\\ 1, 840\\ 1, 840\\ 1, 840\\ 1, 840\\ 1, 840\\ 1, 840\\ 1, 840\\ 1, 840\\ 1, 840\\ 1, 840\\ 1, 840\\ 1, 840\\ 1, 840\\ 1, 840\\ 1, 840\\ 1, 840\\ 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Hancock Harlan Hopkins Jackson	$\begin{array}{c} 324\\ 39\\ 21, 982\\ 461\\ 188\\ 87\\ 483\\ 114\\ 79\\ 188\\ 48\\ 566\\ 201\\ 820\\ 182\\ 100\\ 414\\ 69\\ 480\\ 480\\ 480\\ 136\\ 480\\ 136\\ 885\\ 162\\ 218\\ 100\\ 201\\ 385\\ 162\\ 201\\ 100\\ 201\\ 385\\ 162\\ 216\\ 216\\ 216\\ 216\\ 216\\ 216\\ 216$	$\begin{array}{c} 572\\ 222, 601\\ \hline \\ 327\\ 308\\ 582\\ 81\\ 1, 085\\ 582\\ 81\\ 1, 085\\ 552\\ 6\\ 528\\ 116\\ 6\\ 6\\ 528\\ 11\\ 206\\ 6\\ 528\\ 14\\ 515\\ 55\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ $	$12, 112 \\ 2, 495 \\ 2, 495 \\ 2, 495 \\ 22, 502 \\ 2, 451 \\ 22, 512 \\ 2, 451 \\ 22, 512 \\ 2, 451 \\ 22, 511 \\ 23, 333 \\ 6, 606 \\ 5, 665 \\ 1, 859 \\ 1, 858 \\ 1, 452 \\ 29, 080 \\ 4, 034 \\ 4, 673 \\ 9, 104 \\ 4, 084 \\ 4, 673 \\ 9, 104 \\ 4, 084 \\ 4, 673 \\ 9, 104 \\ 4, 084 \\ 5, 685 \\ 5, 173 \\ 8, 1, 452 \\ 29, 080 \\ 4, 034 \\ 4, 673 \\ 9, 104 \\ 4, 084 \\ 5, 685 \\ 5, 173 \\ 5, 200 \\ 16, 120 \\ 9, 343 \\ 5, 500 \\ 16, 502 \\ 19, 972 \\ 7, 438 \\ 19, 630 \\ 6, 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Owsley.         Pendleton         Perry         Pike         Powell.         Pulaski.         Robcruson         Rockcastle.         Rowan.         Russell.         Scott.         Shelby.         Simpson         Spencer.         Taylor.         Todd.         Trigg         Trimble.         Union.         Wasne         Webster.         Whitley.         Woodford.         Louisiana.         Acadia.         Avoyelles.         Bienville.         Bossier.         Caldo.         Calaboula.         Calaboula.         Caldwell.         Casteson         Latecon.         Bast Baton Rouge         Bast Baton Rouge         Bast Baton Rouge         Bast Baton Rouge         Bast Garoll.         Morehouse.         Natchitoches         Ouachita.         Kohland         Sabine.         St. Landry.         Union </td <td>$\begin{array}{c} 52\\ 84\\ 84\\ 176\\ 94\\ 113\\ 85\\ 451\\ 85\\ 451\\ 100\\ 188\\ 100\\ 188\\ 100\\ 188\\ 100\\ 188\\ 100\\ 188\\ 100\\ 188\\ 200\\ 221\\ 108\\ 200\\ 221\\ 108\\ 200\\ 221\\ 108\\ 200\\ 221\\ 108\\ 200\\ 221\\ 108\\ 200\\ 201\\ 201\\ 108\\ 200\\ 201\\ 201\\ 108\\ 201\\ 201\\ 108\\ 201\\ 201\\ 201\\ 108\\ 201\\ 201\\ 201\\ 201\\ 201\\ 201\\ 201\\ 201$</td> <td>$\begin{array}{c} 258\\ 258\\ 103\\ 389\\ 77\\ 6\\ 45\\ 14\\ 300\\ 257\\ 2250\\ 26\\ 507\\ 225\\ 787\\ 7\\ 225\\ 787\\ 7\\ 225\\ 787\\ 7\\ 225\\ 787\\ 7\\ 225\\ 787\\ 7\\ 225\\ 787\\ 7\\ 225\\ 787\\ 7\\ 225\\ 787\\ 7\\ 225\\ 787\\ 7\\ 225\\ 787\\ 7\\ 225\\ 787\\ 7\\ 225\\ 787\\ 7\\ 225\\ 787\\ 7\\ 225\\ 787\\ 7\\ 225\\ 787\\ 7\\ 225\\ 787\\ 7\\ 225\\ 787\\ 787\\ 7225\\ 787\\ 787\\ 787\\ 7225\\ 787\\ 787\\ 787\\ 7225\\ 787\\ 787\\ 787\\ 787\\ 787\\ 787\\ 787\\ 78$</td> <td>$\begin{array}{c} 673\\ 1,532\\ 11,57\\ 12,184\\ 5,102\\ 25,122\\ 25,122\\ 25,122\\ 25,122\\ 25,122\\ 25,144\\ 5,154\\ 12,132\\ 25,144\\ 13,303\\ 20,98\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 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787\\ 787\\ 787\\ 787\\ 787\\ 78$	$\begin{array}{c} 673\\ 1,532\\ 11,57\\ 12,184\\ 5,102\\ 25,122\\ 25,122\\ 25,122\\ 25,122\\ 25,122\\ 25,144\\ 5,154\\ 12,132\\ 25,144\\ 13,303\\ 20,98\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 14,100\\ 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## TABLE 15.—ACREAGE, TONS SOLD, AND PRODUCTS, MADE ON FARMS, OF SUGAR CANE AND SORGHUM CANE, ACREAGE AND TONS SOLD OF BEETS GROWN FOR SUGAR, AND PRODUCTION OF MAPLE SIRUP AND SUGAR, IN 1899, BY COUNTIES—Continued.

B.-Sorghum Cane-Continued.

COUNTIES,	SORG	PRODUC		(1111)00000	SORG	HUM CA PRODUC			SORGI	HUM CAI PRODUC	NE AND IS.
COUNTIES,	Acres.	Tons sold,	Gallons of sirup,	COUNTIES,	Acres,	Tons sold,	Gallons of strup.	COUNTLES,	Aeres.	Tons sold,	Gallons of sirup,
Maryland	63	104	4,058	Minnesota Continued,				Missouri— Continued,			A
Anne Arundel	1		64	Todd	10		1,444	Boone	565	69	41, 890
Caroline Frederick		19 8	585 85	Traverse Wabasha	$\frac{1}{3}$		62 220	Buehanan Butler	146 119	86 89	11,79 8,470
(larrett Harford	1	2	128	Wadena	3		160	Caldwell	171	21	12,66
Prince George	6		884	Waseea Washington	. 53 1		·4, 122 35	Callaway Camdon	614 389	459 71	88,520 28,54
Queen Anne Talbot		40	974	Watonwan	9 26	16	1 489	Cape Girardeau	192	15	15,623
Wieomico	16		1,285	Winona. Wright. Yellow Medicine	200	7 17	1,040 15,802	Carroll Carter	817 71	886	19,469     6,274
Worcester	18	31	603	Yellow Medicine	-1	18	57	Cass	440	509	26,612
Michigan	377	198	24, 059	Mississippi	15, 784	3, 366	1,162,269	Cedar Chariton Christian	472 725 188	715 805 148	22,238 88,314 11,371
Allegan	· 17	2	820	Adams	13	. 4	987	Clark Clay	243 171	218 83	16,054 13,231
Arenne	1		-45	Alcorn	290 16	5 16	28, 876 956	Clinton	202	69	15,470
Barry Berrien Branch	26	21	$515 \\ 1,849$	Attala	476	485	83,652	Cole	221 384	9 47	15,681 28,030
Branch	11	1	539	Benton Boliyar	266 20	87	20, 987 551	Crawford	138	16	11,490
Calhoun Cass		1	402 578	Calhoun	337	8	25,605	Dade Dallas	206 286	148     68	11,888 21,508
Clinton	14	28	552	Carroll Chickasaw	538 394	36	$\frac{48,030}{28,340}$	Daviess	460	189	82,166
Eaton Genesee		8	187	Choetaw	500	14	84,822	Dekalb Dent	856 811	160 4	28,768 21,728
Gratiot	- 7		582	Claiborne Clarke	187 38	66 29	12,681 1,852	Douglas	250	88	15,944
Hillsdale Ingham		54	2,112	Clay	197	17	12,625	Dunkhn Franklin	41 300	27 4	2,988
Ionia	8		692	Conhoma Copiah	18 157	60 127	174     9,596	Gasconade	95	2	23, 705 7, 247
Isabella Jackson	4 8	15	261 613	Covington	8		255	Gentry Greene	$\frac{258}{311}$	$90 \\ 218$	20, 371 21, 007
Kalamazoo	6	i <b></b>	170	De Soto Franklin	$302 \\ 84$	40	22,790 7,181	Grundy	211	75	16,205
Kent Lenawee			28 6,364	Greene	1	5	1	Harrison Henry	892 440		81, 399 17, 014
Monroe	58		8,687	Grenada    Hinds	$\frac{269}{489}$	8 22	21,334 39,894	Hickóry	249		19,196
Montealm Muskegon		8	40	Holmes	271	1	22,688	Holt	111 303	$231 \\ 88$	3,600 23,060
Oceana	2		84	Itawamba   Jackson	396 6	31	81, 824 425	Howell	842	217	23,000
Osceola Saginaw	1		27 -10	Jasper	100		7,455	Iron Jackson	71	1 11	6,24
St. Joseph Shiawassee	28	25	1,030	Jefferson Jones	172 8	100	9,831	Jasper	452 229	$^{1,115}_{827}$	15,949
Shiawassee Tuscola	1	17	184	Kemper	165	86	$209 \\ 18,271$	Jefferson	249	15	19,569
Van Buren	- 24	15	1,666	Lafayette	910 151		75,902	Johnson Knox	$\frac{862}{220}$	$1,084 \\ 115$	45,654
Washtenaw Wayne			107 64	Lauderdale Lawrence.	4		9,501 280	Laclede Lafayette	$204 \\ 821$	119	18,858
	-			Leake Lee	89 887	22	7,801 24,068	Lawrence	862	238 466	20, 489 18, 936
Minnesota	2, 283	1,232	157,605	Leflore	12	8	29,008	Lewis. Lincoln	180	47	9, 880
	· · · · · · · · · · · · · · · · · · ·			Lincoln Lowndes	43 816	42	1,794 28,789	Linn	$\frac{152}{295}$	$\begin{array}{c}16\\874\end{array}$	11,945 20,214
Aitkin Anoka			240 455	Madison	478		85,619	Livingston McDonald	244	816	14,208
Becker	1		5	Marshall Monroe	$532 \\ 616$	87 271	44,839 40,088	Macon	878 567	$\frac{59}{847}$	26, 700 89, 450
Benton Blue Earth	5		391 6,573	Montgomery	409	3	81,184	Madison Maries	148 276	$237 \\ 110$	5,921 18,221
Brown	52		1,023	Neshoba Newton	53 80	18	8,056 2,448	Marion	126	28	10,045
Carver Cass.		2	$12,861 \\ 184$	Noxubee	317	479	17,828	Mercer Miller.	322 481		23, 607 35, 497
Chippewa	1		15	Oktibbeha Panola	279 533	27	22,402 40,869	Mississippi	89	19	8, 801
Chisago. Cottonwood	12 1	10	800 30	Pearl River	5		340	Moniteau Monroe	893 864	$\frac{25}{516}$	80,578 17,960
Crow Wing.	3		236	Perry Pontotoe	1 496		20 84,753	Montgomery	212	28	18,300
Dakota Dodge	224 7	890	6, 820 595	Prentiss. Quitman.	297	840	21,652	Morgan New Madrid	248 48	52 5	21,170 4,075
POUSIUS	22		1,542	Quitman Rankin	45 91	7 24	8,526 7,083	Newton	808	141	19,40
Faribault Fillmore	27	·····6	$1,648 \\ 2,807$	Scott	18		1,514	Nodaway Oregon	$\frac{168}{241}$	52 41	18,10 17,87
Freeborn	45		8,378	Sharkey	5 9	29	85 511	Osage	114	46	9.62
Goodhue Hennepin	104		5,987 8,655	Smith	21	6	1,407	Ozark Pemiscot	806 10	555 80	9,54 53
Houston	82	6	2,272	Sunflower Tallahatchie	- <u>38</u> 330	137 39	948 25,047	Perry	165	82	12,96
Hubbard. Isanti	1 25	55	10 1,590	Tate	445	20	82,280	Pettis Phelps	494 187	966 61	22,33 18,78
Jackson	2	3	50	Tippah Tishomingo	249 811	40 20	$20,601 \\ 21,217$	Pike	185	25	13,86
Kanabee Kandiyohi	.4 27		269 958	Tunica	-49	209	F 290 S	Platte Polk	60 857	98 679	4,63
Lesueur	148	3	10,549	Union. Warren	512 102	48 98	36,382 6,158	Polk Pulaski	239	20	17,86
Lincoln McLeod	( ¹ ) 158	11	5     13,151	Washington	t p	25	360	Putnam Ralls.	$\frac{816}{240}$	$210 \\ 652$	$     \begin{array}{c}       28,16 \\       8,72     \end{array} $
Martin	19	83	621	Wayne	21 485		1,389 39,793	Randolph	219	224	10,91
Meeker Millelacs	142	10	11,740 199	Wilkinson	55	22	8,477	Ray Reynolds	338 126	34 42	27,80
Morrison	16		-193	Winston Yalobusha	321 498	8	3,477 25,682 84,775 35,137	Ripley	251	21	20,47
Mower Nicollet	1 97		$12 \\ 7,569$	Yazoo	509	42	35, 137	St. Charles St. Clair	88 267	76 178	8,35 15,98
Olmsted	1		86	Missouri	30, 997	22, 166	1,990,987	Ste. Genevieve	156	. <b></b>	1.1.79
Ottertail Pine	1		957 59	*********				St. Francois	$, 126 \\ 24$	19 <b>7</b> 4	6,72 1,85
Pope. Redwood	1		77	Adair	818	295	19,183	Saline	294	417	1 20.24
Redwood Renville	72		500 77	Andrew.	158 81	65 21	11,790 2,324	Scotland	$\frac{144}{174}$	8 95	11, 30 11, 37
Rico	105	6	6,152	Audrain	264	118	16,124	Seott	57	- 33	1 4.72
Scott Sherburne	84 7	10	6,475 502	Barry Barton	455 271	321 251	\$3,817 13,223	Shannon	$\frac{225}{810}$	4 86	17,29 22,78
Sibley	135	•••••	9,691	Bates	700	1,425	22.140	Stoddard	185	128	8,71
Stearns Steele	42	20	8, 813 152	Benton Bollinger	$477 \\ 227$	55 84	37,661	Stone Sulliyan	$274 \\ 367$	84 66	19,11 26,71
	. 1	1 40	102	11 JJULILI, KUL	. 441	ા ભા	⊤	* * * * * * * * * * * * * * * * * * * *	007	, uo	1 40 jí J

## TABLE 15.—ACREAGE, TONS SOLD, AND PRODUCTS, MADE ON FARMS, OF SUGAR CANE AND SORGHUM CANE, ACREAGE AND TONS SOLD OF BEETS GROWN FOR SUGAR, AND PRODUCTION OF MAPLE SIRUP AND SUGAR, IN 1899, BY COUNTIES—Continued.

B.-Sorghum Cane-Continued.

COUNTLES.	SORG	HUM CA PRODUC		COUNTIES.	SORG	HUM CA PRODUC			SORG	HUM CAL PRODUC	NE AND TS,
GOUNTIES.	Acres,	Tons sold,	Gallons of sirup.	COUNTIES.	Acres.	Tons sold,	Gallons of sirup.	COUNTIES.	Acres.	Tons sold,	Gallons of sirup,
Missouri-				Nevada	30		1, 465	North Carolina—			a franklik karf i sa shine an ana kankan
Continued. Taney Texas.	182 405	304 543	9,521	Lincoln	30		1,465	Continued. Northampton	135	79	8,451
Vernon Warren	851	910 14	18,818 36,888 6,160	· ·				Onslow Orange	28 190	1 8	2,073 12,224
Washington Wayne	216	4 254	17,089 20,992	New Jersey	7	1	450	Pamlico Pasquotank Pandar	82	26	1,321
Webster Worth	361	30 22	$     \begin{array}{r}       20,000 \\       24,481 \\       12,279     \end{array} $	Atlantic Essex	$\frac{2}{5}$	1	150 300	Pender Perquimans Person	106 274	-40 297	4,208 7,534
Wright		118	23, 287		. "	-	000	Pitt Polk	149 373	49	$16,263 \\ 11,791 \\ 28,299$
Montana	2		100	New Mexico	81	118	2,812	Randolph Richmond	321 103	246	19,999 6,989
Yellowstone	2		100	Donna Ana Eddy	4 18	24 74	70	Robeson Rockingham	261 122	7	20,787 7,365
Nebraska	4, 778	12,802	92, 413	Grant Guadalupe		2	362     481	Rowan. Rutherford	145 540	3 205	9,623 36,924
Adams	61	181	3, 319	Rio Arriba San Juan	8 29		$263 \\ 1,175$	Sampson   Scotland	851 170	45 16	27,558 11,242
Antelope Boone	70 5	98	2,837 257	Santa Fe Sierra	2 4		164 257	Stanly Stokes	121 224	107	6,810 16,245
Boxbutte Boyd	2 17	2 66	10 300	Socorro	3	11	40	Swain	241 228	27	18,472 17,417
Brówn Buffalo	3 40	15 183		New York	14		978	Transylvania Union		110 196	7,720 18,614
Burt Butler	13		961 142		2	no dar der s		Vance Wake	188     279		13,904 21,501
Cass Cedar	88 6	79 10	$1,742 \\ 229$	Albany Allegany Cayuga		•••••	130 25 367	Warren Washington	225 50	14 18	17,853 3,742
Ohase Cherry	28 2	120	400 100	Erie Lewis.	2	•••••	118 80	Watauga Wayno	448 69	87	$     34,384 \\     4,856 $
Clay Colfax	15	$     \begin{array}{c}       101 \\       226     \end{array} $	$25 \\ 3,891$	Otsego Wyoming	(1)	•••••• •••••	8 250	Wilkes Wilson	589 59	2 <u>2</u>	42,277 4,689
Cuming Duster	81 83	69 32	$4,289 \\ 1,374$	in youning		••••	200	Yadkin Yancey	104 228	244	7,081 15,000
Dakota Dawes			$1,635 \\ 515$	North Carolina	20, 227	5, 980	1,419,570	North Dakota	· 10	-41	114
Dawson Dixon	12	40	575 951	Alamance	213	35	16,146				
Dodge Douglas.	21	818 49	2,621 758	Alexander Alleghany	267 288	261 81	16,937 20,499	Barnes	4	30	18
Dundy Fillmore Franklin	215	140	$211 \\ 1,049$	Anson Ashe	$416 \\ 592$	27 12	28,744 43,845	Grand Forks		10 1	10
Franklin Frontier Furnas	44	380 81	506 40	Beaufort Bertie.	$\frac{28}{35}$	81	1,577 2,786	Richland Towner .	1 1		80 50
Gage Gosper	32 173 10	41 457	645 1,957	Bladen Brunswick	152 8	8	11,415 622	Ohio	5,037	1,855	841,528
Greeley Eall	10 35 103	18     120     859	$180 \\ 245 \\ 1.140$	Buncombe Burke Cabarrus	374	145 25	46,272 25,867				
Hamilton Harlan	84 15	230 26	1,227 98	Caldwell.		5 155	6,870 84,491	Adams	96 37	15	7,300 2,899
Hayes. Hitcheock	46	118 638	163	Carteret	$10 \\ 4 \\ 106$	9 21	$1,283 \\ 180 \\ 7,724$	Ashland Ashtabula: Athens	11	24 40	446
Holt Howard	176 42	800 17	$1,180 \\ 1,843$	Catawba Chatham	100 214 405	21 8	17,098 28,885	Auglaize. Belmont	80 57	190	4,545
lefferson Johnson	445	1,274 849	7,690	Cherokee Chowan	366 15	4	28,890 940	Brown Butler	55 108	$     \begin{array}{c}       31 \\       128 \\       128     \end{array} $	8,619 6,811
Kearney Keith	122 12	245 47	603 360	Clay Cleveland	226 244	$13^{-}$ 49	11,614 17,024	Carroll	8 34	15 44	252 1,392
Keyapaha Knox	18		$1,150 \\ 171$	Columbus Craven	157 89	102 11	10,399 5,772	Clark	20 21		1,695
Lancaster Lincoln	145	335 117	3,049 80	Cumberland Currituck .	269	11 7 11	21,024	Clinton . Columbiana	42 25	45 6	2,395 1,810
Logan	4		94 96	Davidson . Davie .	425 116	81	$\begin{array}{c} 82,126 \\ 8,281 \end{array}$	Coshoeton	11 50	183	657 2,081
Madison Merrick	79	154 81	8,181 590	Duplin	376	9 763	24,408 7,482	Crawford Cuyahoga	- 38 13	24	2,867 414
Nance Nemaha	20	76 118	186 3,785	Durham Edgecombe Forsyth	144 156		12,361 12,100	Darke Defiance	$140 \\ 160$	41 92	8,742
Nuckolls	101	187 268	976 2,406	Franklin Gaston	323 80	10 32 41	21,228	Delaware Erie Rainfald	17		1,057
Pawnee Perking	82 2	117	635	Gates . Graham	143	$243 \\ 19$	8,566	Fairfield Fayette	56 5	82	3,967 262
Phelps Pierce	108 14	268 15	70 863	Granville Greene	413	30	9,224 84,626	Franklin Fulton	15 88	22	560 2,488
Platte Polk	25	59 86	940 4,276	Guilford Halifax	128 201 229	1	8,402 15,487	Gallia Geauga	815 80 12	14	24,215 5,550
Redwillow Richardson	25 19	58 27 18 229	28 1,897	Harnett	291 295	852 77 77	12,173 18,306 21,281	Greene. Guerosey	66	14 5	640 4,793
Rock Saline	158	18	293 7,100	Henderson	809	100	23,486	Hamilton Hancock.	4 14	8	260 929
Sarpy Saunders	89 152	94 429	1,280 1,889	Hertford Iredell Jackson	129 896 218	4 121 140	$10,666 \\ 22,782 \\ 15,207$	Hardin Harrison	24 5	14	1,466 225
Seward	78	284 5	163	Johnston Jones	218 291 27	140 124	20.304	Henry Highland	166 48	246 18	6,176 1,897
Sherman	$72 \\ 4$	91 91	1,090 265	Lenoir	86	$12 \\ 105 \\ 10$	1,804 5,408	Hocking Holmes	50 21 41	13 6	1,897 8,886 1,221
Stanton Fhayer	88 215	153 524	1,104	Lincoln McDowell	180 199		10,508 16,276	Huron Jackson	74	5 8	$2,542 \\ 5,178$
Thurston	15 15 82	100	1,085	Macon Madison	283 508	26 308	20, 989 84, 524	Jefferson Knox	7 5	10	542 173
Washington	58	89 47	1,080 8,690	Martin Mecklenburg	138 207	17 61	8,216 11,185	Lake Lawrence	5 756	12 21	62,643
Webster Wheeler	4 200 8	586	246 1,812	Mitchell Montgomery	884 221	35 30 42	24,236 17,524	Licking Logan	49 17	18 8	8,016 1,841
York	69	277	213 587	Moore Nash	804 164	42 83	$23,219 \\ 12,646$	Lorain Lucas	25 18	9	1,812 1,196

¹ Less than 1 acre.

B.-Sorghum Cane-Continued,

COUNTIES,	son	HUM CA PRODUC		(UNING STATE	SORG	HUM CA PRODUC			SORG	HUM CAN PRODUCT	NE AND 'S.
COUNTLES,	Aeres.	Tons sold,	Gallons of sirup.	COUNTIES.	Aeres,	Tons sold,	Gallons of sirup.	COUNTIES.	Aeres.	Tons sold,	Gallons of sirup.
Ohio—Continued. Madioning Marion Medina Medina Meigs. Mereer. Miami Monroe Montgomery. Morgan Morrow. Muskingum Nobie Ottawa Pauliding Perry Pike. Partuge. Proble Putnam.		$\begin{array}{c} & 4\\ 4\\ 5\\ 8\\ 74\\ 8\\ 9\\ 25\\ 10\\ 10\\ 8\\ 4\\ 4\\ 18\\ 10\\ 12\\ 12\\ 3\\ 1\\ 1\\ 12\\ 2\\ 3\\ 1\\ 1\\ 4\\ 1\\ 2\\ 136\end{array}$	$\begin{array}{c} 723\\ 1,106\\ 250\\ 7,601\\ 9,006\\ 2,804\\ 14,584\\ 3,396\\ 3,286\\ 7,44\\ 2,145\\ 7,579\\ 2,363\\ 10,262\\ 2,297\\ 1,054\\ 4,919\\ -5,783\\ 8,124\end{array}$	Pennsylvania— Continued. Luzerne. Potter	6 2 1 1 22 3 7,250 7,250 21 219 11 1 1 33 33 35 256 214 236 24 4 348	3,589 204 28 38 38 4 24 35 33 33 33 33 77	$\begin{array}{r} 460\\ 100\\ 17\\ 60\\ 1, 147\\ 121\\ 478, 190\\ \hline \\ 1, 803\\ 1, 323\\ 1, 323\\ 1, 323\\ 1, 323\\ 1, 323\\ 1, 323\\ 1, 323\\ 1, 325\\ 2, 329\\ 8, 466\\ 30, 160\\ \end{array}$	Tennessee- Continued. Frantress. Franklin. Gibes. Granker. Granker. Granker. Granker. Granker. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen. Hamblen	75 342 712 850 152 560 700 171 119 728 344 468 492 401 628 400 91 9201 627	188696762,0791110410412104129250870052558027802782920141425	3,900 25,781 39,928 40,536 11,310 35,195 3,567 11,922 9,179 11,837 33,894 20,994 35,839 32,922 32,944 35,202 32,944 43,792 22,641 6,241 16,973 47,011
Richland Ross Sandusky Seloto. Sencea. Shelby. Stark Shelby. Stark Shelby. Stark Shelby. Stark Summit. Trumbull Truscarcawas. Union Vas Wort. Vinton. Washington Washington Wayne. Williams. Wood Wyandot	10 44 47 188 24 75 4 75 4 7 2 32 88	110 16 7 6 3 9 41 10 40 8 	$\begin{array}{c} 7,785\\ 3,014\\ 3,089\\ 10,722\\ 1,488\\ 4;942\\ 280\\ 4;942\\ 280\\ 2,509\\ 4,884\\ 2,619\\ 2,619\\ 4,884\\ 1,559\\ 4,102\\ 2,130\\ 1,202\\ 1,202\\ \end{array}$	Chrendon Colleton Darlington Edgefield Fairfield Florence Georgetown Greenwood Hampton Horry. Kershaw Laurens Laurens Laurens Laurens Laurens Marion Mariboro Newberry Oconee Orangeburg Flekens.	43 199 625 2382 2382 2383 192 2384 2384 2384 2384 2484 260 260 260 260 260 260 260 260 260 260	24 1 45 70 855 877 827 1 877 877 877 6 91 124 18 139 104 138 139 104 105 105 105 105 105 105 105 105	8, 183 1, 367 45, 3365 4, 189 11, 340 15, 917 2, 338 13, 804 11, 180 6, 281 12, 801 13, 464 11, 180 6, 281 13, 464 12, 801 13, 464 12, 801 13, 464 12, 801 12, 804 12, 801 12, 801 12, 801 12, 804 12, 801 12, 801 12, 804 12, 801 12, 804 12, 804 13, 804 13, 804 14, 805 12, 804 13, 804 14, 805 12, 804 13, 804 14, 805 12, 804 13, 804 14, 804 12, 804 12, 804 13, 804 13, 804 14, 804 12, 804 13, 804 13, 804 14, 804 14, 804 15, 804 12, 804 12, 804 13, 804 13, 804 14, 804 14, 804 14, 805 14, 804 12, 804 13, 804 14, 804 14, 805 14, 804 14, 805 14, 805	Jentes, Jefferson Johnson Lake Lake Lauderflale Lawrence Lewis. Lincoln London McMinn McMinn McMinn Matry Matron Marion Marion Marishall Murry Monges Montoe Montoe Montoe Montoe	027 06 378 370 411 287 102 803 150 341 470 517 578 578 578 578 151 177 624 218 305 224 218 305 244	20 79 145 12 9 3 3 55 259 477 214 29 87 14 29 87 14 83 84 45 40 743 743	4,011 4,773 28,800 24,066 32,415 
Oklaboma Baine Canadian	$\begin{array}{c} 23\\ 169\\ 169\\ 28\\ 169\\ 162\\ 162\\ 162\\ 162\\ 162\\ 162\\ 162\\ 162$	25, 327 93 130 418 525 507 4, 176 3, 356 3, 356 3, 356 3, 356 3, 356 3, 359 4, 176 3, 356 3, 359 4, 176 3, 356 3, 398 2, 499 4, 499 2, 499 4,	81, 891 4, 403 2, 460 10, 938 3, 002 2, 597 592 326 1, 160 2, 285 9, 713 5, 030 1, 467 1, 477 1, 150 1, 107 1,	Richhand	$\begin{array}{c} 92\\ 978\\ 278\\ 208\\ 246\\ 276\\ 109\\ 246\\ 276\\ 196\\ 1\\ 26\\ 1\\ 2\\ 3\\ 2\\ 2\\ 2\\ 3\\ 2\\ 3\\ 2\\ 3\\ 2\\ 3\\ 2\\ 3\\ 2\\ 3\\ 2\\ 3\\ 2\\ 3\\ 2\\ 3\\ 3\\ 3\\ 1\\ 6\\ 31, 364 \end{array}$	5 40 81 81 83 232 305 175 3 305 175 3 3 20 8 10 45 5 8 80 10 45 5 20 20 8 10 45 10 21,886	6, 870 18, 780 17, 158 11, 782 11, 818 19, 786 76 75 2, 144 40 10 155  1, 067  1,007  1,007  160  1,007  160  170  160  170  160  180  180  180  19, 786  10, 100  10, 007  10,	Moore Morgan Obion. Overton Perry Pickett Polk Putnam. Ronne Robertson Rubneford Scott. Scott. Scott. Scott. Scott. Stewart Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shelby Shel	181 140 149 327 198 151 157 280 157 280 157 280 157 280 10 280 280 285 201 201 201 201 201 201 201 201 201 201	$\begin{array}{c} 320\\ 327\\ 57\\ 14\\ 41\\ 1\\ 27\\ -26\\ 91\\ 997\\ 997\\ 16\\ 11\\ -572\\ 630\\ 630\\ 638\\ -14\\ 44, 5545\\ 10\\ -28\\ 105\\ 169\\ -22\\ 105\\ 102\\ 214\\ 214\\ 216\\ 10\\ 2265\\ 100\\ 2248\\ 613\\ 20\\ 80\\ 30\\ 80\\ 90\\ 90\\ 90\\ 20\\ 80\\ 80\\ 80\\ 80\\ 80\\ 80\\ 80\\ 80\\ 80\\ 8$	$\begin{array}{c} 8,250\\ 7,730\\ 9,161\\ 225,643\\ 115,139\\ 115,139\\ 11,723\\ 11,723\\ 22,789\\ 22,639\\ 83,282\\ 2,639\\ 83,282\\ 2,639\\ 83,283\\ 22,639\\ 83,283\\ 22,639\\ 83,283\\ 22,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 12,581\\ 1$
Coos Douglas. Gilliam Grant. Jackson Josephino. Lane. Linn. Yamhill Pennsylvania. Adams. Adams. Adams. Adams. Clarion. Fayette Forest Franklin Greene. Indiana. Jefferson. Laneaster. Lawrence.	5 1 1	10 1 21 10 10	10 60 1,825 128 340 40 22 6,514 47 467 32 201 348 75 289 2,854 289 2,854 14 14 15	Anderson Bedford Benton Bladsoe Blount Bradley Campbell Camon Carroll Carroll Carter Cheetham Chester Claiborne Claiborne Claiborne Clay Cocke Cooke Cooke Cooke Cooke Cooke Cooke Cooke Davidson Death Dickson Dyer. Fayette	$\begin{array}{c} 272\\ 303\\ 107\\ 167\\ 565\\ 218\\ 168\\ 877\\ 576\\ 647\\ 8260\\ 197\\ 876\\ 197\\ 800\\ 318\\ 419\\ 161\\ 657\\ 270\\ 533\\ 239\\ 239\\ 1684\\ 634\end{array}$	$\begin{array}{c} 30\\ 847\\ 1\\ 5\\ 51\\ 40\\ 407\\ 8\\ 57\\ 126\\ 5\\ 159\\ 480\\ 584\\ 4\\ 4\\ 701\\ 6\\ 131\\ 175\\ 88\\ 210\end{array}$	$\begin{array}{c} 22, 126\\ 12, 500\\ 16, 785\\ 11, 944\\ 38, 014\\ 16, 717\\ 11, 284\\ 24, 902\\ 10, 538\\ 1, 536\\ 22, 026\\ 24, 670\\ 14, 885\\ 22, 740\\ 21, 559\\ 20, 725\\ 11, 516\\ 48, 618\\ 19, 438\\ 34, 195\\ 16, 600\\ 18, 260\\ 87, 132\end{array}$	Texas Anderson Argelina Argelina Argelina Argelina Argelina Argelina Argelina Argelina Argelina Argelina Argelina Argelina Argelina Argelina Argelina Argelina Argelina Argelina Argelina Argelina Argelina Argelina Argelina Argelina Argelina Argelina Argelina Argelina Argelina Bastoop Bastoop Bowle Brazos Brewster Brown Burleson	$\begin{array}{c} 26,803\\ \hline 3400\\ 1\\ 5\\ 11\\ 7\\ 7\\ 93\\ 228\\ 254\\ 380\\ 88\\ 380\\ 949\\ 204\\ 88\\ 33\\ 548\\ 88\\ 33\\ 548\\ 109\\ 18\\ 107\\ 33\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 639\\ 326\\ 326\\ 326\\ 326\\ 326\\ 326\\ 326\\ 326$	$\begin{array}{c} 88, 933 \\ \hline \\ 2100 \\ 7 \\ 755 \\ 130 \\ 710 \\ 612 \\ 1, 661 \\ 1, 951 \\ 4, 020 \\ 1, 951 \\ 4, 020 \\ 1, 951 \\ 4, 020 \\ 1, 951 \\ 101 \\ 1, 3, 800 \\ 1, 152 \\ \end{array}$	$\begin{array}{c} 877,232\\ \hline 22,069\\ \hline 22,069\\ \hline 22,069\\ \hline 4,869\\ 6,934\\ 6,619\\ 860\\ 1,691\\ 17,915\\ 8,668\\ 1,574\\ 8,618\\ 1,574\\ 8,616\\ 7,029\\ 7,55\\ 4,073\\ \hline 5,881\\ \hline 6,299\\ 8,881\\ \hline \end{array}$

¹Indian reservation.

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²Less than 1 acre.

**48**9

B.—Sorghum Canc—Continued.

COUNTIES.	sorg	PRODUC			SORG	HUM CA PRODUC	NE AND TS.			HUM CA PRODUC	
GOON ITES,	Aeres.	Tons sold	Gallons of sirup.	COUNTIES.	Acres,	Tons sold.	Gallons of sirup,	COUNTIES.	Aeres.	Tons sold,	Gallons of sirup.
Texas—Continued, Burnet Caldwell Calhoun Callahan Carbon Carbon Carson Cass. Charoles Cheroles Cheroles Cheroles Cheroles Colorado Colin. Colorado Colin. Colorado Contal Comunche Coronal Comunche Concho Cooke. Corole. Corole. Corole. Corole. Corole. Corole. Corole. Corole. Corole. Corole. Corole. Corole. Corole. Corole. Corole. Corole. Corole. Corole. Corole. Corole. Corole. Corole. Corole. Corole. Corole. Corole. Corole. Corole. Corole. Corole. Corole. Corole. Corole. Corole. Corole. Corole. Corole. Corole. Corole. Corole. Corole. Corole. Corole. Corole. Corole. Corole. Corole. Corole. Corole. Corole. Corole. Corole. Corole. Corole. Corole. Corole. Corole. Corole. Corole. Corole. Corole. Corole. Corole. Corole. Corole. Corole. Corole. Corole. Corole. Corole. Corole. Corole. Corole. Corole. Corole. Corole. Corole. Corole. Corole. Corole. Corole. Corole. Corole. Corole. Corole. Corole. Corole. Corole. Corole. Corole. Corole. Corole. Corole. Corole. Corole. Corole. Corole. Corole. 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C	$\begin{array}{c} 6\\ 400\\ 166\\ 100\\ 181\\ 222\\ 214\\ 455\\ 273\\ 144\\ 193\\ 91\\ 252\\ 285\\ 158\\ 7\\ 7\\ 7\\ 7\\ 252\\ 285\\ 158\\ 7\\ 7\\ 7\\ 7\\ 7\\ 252\\ 285\\ 158\\ 832\\ 285\\ 158\\ 832\\ 298\\ 62\\ 292\\ 124\\ 46\\ 5812\\ 202\\ 122\\ 188\\ 884\\ 412\\ 158\\ 884\\ 412\\ 158\\ 888\\ 4412\\ 178\\ 888\\ 4412\\ 178\\ 888\\ 4412\\ 178\\ 888\\ 4412\\ 178\\ 888\\ 4412\\ 178\\ 888\\ 4412\\ 178\\ 889\\ 899\\ 829\\ 117\\ 244\\ 188\\ 188\\ 142\\ 207\\ 122\\ 234\\ 188\\ 888\\ 4412\\ 178\\ 888\\ 4412\\ 178\\ 889\\ 899\\ 829\\ 117\\ 244\\ 188\\ 188\\ 142\\ 178\\ 188\\ 188\\ 142\\ 117\\ 188\\ 142\\ 117\\ 188\\ 142\\ 117\\ 188\\ 142\\ 117\\ 188\\ 142\\ 117\\ 188\\ 142\\ 117\\ 188\\ 142\\ 117\\ 188\\ 142\\ 117\\ 144\\ 112\\ 112\\ 112\\ 112\\ 112\\ 112\\ 112$	$\begin{array}{c} 292\\ 1, 206\\ 1\\ 1\\ 1, 892\\ 1\\ 1, 892\\ 1\\ 1, 892\\ 1\\ 104\\ 800\\ 1, 478\\ 391\\ 900\\ 1, 478\\ 391\\ 900\\ 1, 478\\ 391\\ 900\\ 1, 051\\ 490\\ 829\\ 380\\ 77\\ 904\\ 1, 051\\ 490\\ 829\\ 380\\ 77\\ 904\\ 703\\ 346\\ 208\\ 779\\ 904\\ 703\\ 346\\ 208\\ 773\\ 904\\ 1, 051\\ 1, 190\\ 240\\ 770\\ 346\\ 703\\ 1, 041\\ 1, 190\\ 101\\ 1, 190\\ 1, 041\\ 1, 190\\ 1, 041\\ 1, 190\\ 1, 041\\ 1, 190\\ 240\\ 770\\ 2, 346\\ 850\\ 240\\ 771\\ 90\\ 240\\ 771\\ 90\\ 240\\ 771\\ 1, 190\\ 240\\ 771\\ 2, 070\\ 346\\ 88\\ 88\\ 88\\ 88\\ 88\\ 88\\ 88\\ 88\\ 88\\ 8$	$\begin{array}{c} 8,956\\ 10,002\\ 408\\ 1,193\\\\ 6,038\\\\ 6,038\\\\ 14,053\\ 460\\ 4,886\\ 2,222\\ 1,704\\ 486\\ 2,222\\ 1,704\\ 20,408\\ 4,902\\ 2,200\\ 2,200\\ 2,200\\ 2,202\\ 1,704\\ 1,704\\ 20,408\\ 4,902\\ 2,202\\ 2,202\\ 1,704\\ 1,704\\ 20,408\\ 4,902\\ 2,202\\ 2,202\\ 1,704\\ 1,702\\ 2,901\\ 15,706\\ 11,209\\ 205\\ 5,206\\ 13,979\\ 11,546\\ 13,979\\ 13,425\\ 11,546\\ 13,979\\ 13,425\\ 11,546\\ 13,979\\ 13,546\\ 0,333\\ 5,167\\ 2,917\\ 13,005\\ 5,167\\ 2,817\\ 13,005\\ 5,167\\ 2,817\\ 13,005\\ 13,999\\\\ 5,167\\ 2,817\\ 14,450\\ 13,999\\\\ 5,167\\ 2,817\\ 14,450\\ 13,999\\\\ 5,167\\ 2,817\\ 14,450\\ 5,167\\ 2,817\\ 14,405\\ 13,999\\\\ 5,167\\ 2,817\\ 14,405\\ 13,999\\\\ 5,167\\ 2,817\\ 14,405\\ 13,999\\\\ 5,167\\ 2,817\\ 14,480\\ 3,999\\\\ 5,167\\ 2,817\\ 2,817\\ 14,480\\ 3,999\\\\ 5,167\\ 2,817\\ 2,817\\ 2,817\\ 2,817\\ 2,817\\ 2,817\\ 2,817\\ 2,917\\ 3,999\\\\ 5,169\\ 2,922\\ 1,048\\ 3,988\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ 5,786\\ $	Texas—Continued, Maverick Medina Memard Milam Miland Miland Miland Miland Miland Miland Miland Miland Miland Milan Mitchell Montague Montgomery Morre Morris More Norris More Norris Nacogdoehes Navarro Newton Nolan Nucces Palo Pinto Panla Parker Parola Parker Peos Polk Presidio Rains Red River Reves Reves Reves Reves Reves Rebertson Robertson Rockwall Rumels Rusk. San Jacinto. San Augustine. San Saba. Seury Stonewall Tarrant Tarvis. Travis. Travis. Travis. Travis. Travis. Travis. Travis. Travis. Travis. Travis. Travis. Travis. Travis. Travis. Travis. Travis. Travis. Travis. Travis. Travis. Travis. Travis. Travis. Travis. Travis. Travis. Travis. Travis. Travis. Travis. Travis. Travis. Travis. Travis. Travis. Travis. Travis. Travis. Travis. Travis. Travis. Travis. Travis. Travis. Travis. Travis. Travis. Travis. Travis. Travis. Travis. Travis. Travis. Travis. Travis. Travis. Travis. Travis. Travis. Travis. Travis. Travis. Travis. Travis. Travis. Travis. Travis. Travis. Milard. Wisen. Washington. Sat Lake Toocele Utah	$\begin{array}{c} 32\\ 32\\ 32\\ 60\\ 32\\ 60\\ 32\\ 206\\ 32\\ 206\\ 32\\ 206\\ 32\\ 206\\ 32\\ 206\\ 32\\ 32\\ 32\\ 32\\ 32\\ 32\\ 32\\ 32\\ 32\\ 32$	$\begin{array}{c} 200\\ 168\\ 349\\ 168\\ 349\\ 125\\ 140\\ 227\\ 181\\ 9\\ 9\\ 9\\ 9\\ 9\\ 9\\ 120\\ 68\\ 240\\ 166\\ 1,600\\ 68\\ 240\\ 166\\ 1,600\\ 168\\ 240\\ 168\\ 240\\ 168\\ 240\\ 168\\ 240\\ 168\\ 240\\ 100\\ 168\\ 210\\ 100\\ 12\\ 272\\ 272\\ 272\\ 272\\ 272\\ 272\\ 272\\$	$\begin{array}{c} & 8,829\\ & 100\\ & 100\\ & 100\\ & 12,741\\ & 8,122\\ & 17,138\\ & 1,194\\ & & 684\\ & 100\\ & 9,900\\ & 4,544\\ & 131\\ & 225\\ & & 2,012\\ & 4,762\\ & 12,813\\ & & 225\\ & & & & & & & \\ & & & & & & \\ & & & &$	Virginia—Continued. Amherst. Appomattox Bath. Bath. Bedford. Bland. Botetourt. Brunswick. Buchanan Brunswick. Buchanan Campbell. Caroline. Caroline. Caroline. Caroline. Caroline. Caroline. Caroline. Caroline. Chesterfield. Clarke. Caroline. Chesterfield. Clarke. Caroline. Chesterfield. Clarke. Staron. Dickenson. Dinkenson. Dinkenson. Dinkenson. Dinkenson. Dinkenson. Dinkenson. Dinkenson. Dinkenson. Dinkenson. Dinkenson. Dinkenson. Dinkenson. Dinkenson. Dinkenson. Dinkenson. Dinkenson. Dinkenson. Dinkenson. Dinkenson. Dinkenson. Dinkenson. Dinkenson. Dinkenson. Dinkenson. Seesex. Fairfax. Fanguier. Floyd. Fluvanna. Franklin. Frederick. Gloneester. Gooehland. Greene. Greene. Greene. Greene. Greene. Hanover. Henry . Higbland. Laneaster. Lee. Louidoun. Louisa. Lumenburg. Madison . New Kent. Northumberland. Netson . New Kent. Northumberland. Netson . New Kent. Northumberland. Netson . New Kent. Northumberland. Nottoway. Orange . Page. Parice Edward. Prince Edward. Prince Sanne. Prince William. Pulaski. Rappahannoek. Richmond. Rosokingian. Russell. Soott. Sussox. Tuzewell. Warthe. Werthe.	$\begin{array}{c} 23\\ 477\\ 428\\ 3162\\ 411\\ 477\\ 1162\\ 1481\\ 145\\ 15\\ 57\\ 541\\ 112\\ 624\\ 100\\ 889\\ 703\\ 448\\ 100\\ 889\\ 703\\ 448\\ 100\\ 889\\ 703\\ 448\\ 100\\ 889\\ 703\\ 448\\ 100\\ 889\\ 100\\ 889\\ 100\\ 889\\ 100\\ 889\\ 100\\ 889\\ 100\\ 889\\ 100\\ 889\\ 100\\ 889\\ 100\\ 889\\ 100\\ 889\\ 100\\ 889\\ 100\\ 889\\ 100\\ 889\\ 100\\ 889\\ 100\\ 889\\ 100\\ 889\\ 100\\ 12\\ 100\\ 12\\ 100\\ 12\\ 100\\ 12\\ 100\\ 12\\ 100\\ 12\\ 100\\ 12\\ 100\\ 12\\ 100\\ 12\\ 100\\ 12\\ 100\\ 12\\ 100\\ 12\\ 100\\ 12\\ 100\\ 12\\ 100\\ 12\\ 100\\ 12\\ 100\\ 12\\ 100\\ 12\\ 100\\ 12\\ 100\\ 12\\ 100\\ 100$	$\begin{array}{c} 7\\ 7\\ 47\\ 10\\ 23\\ 1\\ 39\\ 4\\ 2\\ 21\\ 32\\ 32\\ 32\\ 32\\ 32\\ 32\\ 32\\ 32\\ 32\\ 32$	$\begin{array}{c} 1, 612\\ 3, 177\\ 2, 340\\ 2, 350\\ 2, 5059\\ 8, 026\\ 4, 821\\ 7, 675\\ 4, 389\\ 8, 026\\ 4, 821\\ 10, 090\\ 8, 852\\ 10, 090\\ 8, 852\\ 10, 090\\ 8, 852\\ 10, 090\\ 8, 181\\ 9, 678\\ 9, 678\\ 9, 678\\ 9, 678\\ 17, 640\\ 4, 007\\ 7, 234\\ 9, 678\\ 9, 678\\ 17, 640\\ 4, 007\\ 7, 236\\ 17, 640\\ 4, 007\\ 7, 236\\ 17, 640\\ 4, 007\\ 7, 236\\ 2, 809\\ 7, 206\\ 17, 640\\ 4, 607\\ 7, 206\\ 14, 607\\ 114\\ 14, 194\\ 100\\ 789\\ 95, 180\\ 114\\ 14, 194\\ 100\\ 789\\ 95, 180\\ 11, 832\\ 11, 750\\ 114\\ 14, 194\\ 100\\ 7, 8, 181\\ 6, 223\\ 2, 809\\ 7, 206\\ 1, 018\\ 3, 607\\ 7, 206\\ 14, 551\\ 4, 501\\ 14, 15, 926\\ 12, 266\\ 12, 266\\ 12, 266\\ 12, 266\\ 12, 266\\ 12, 266\\ 12, 266\\ 12, 266\\ 12, 266\\ 12, 266\\ 12, 266\\ 12, 266\\ 12, 266\\ 14, 551\\ 4, 501\\ 10, 719\\ 10, 14, 164\\ 15, 926\\ 12, 266\\ 12, 266\\ 12, 266\\ 12, 266\\ 12, 266\\ 12, 266\\ 12, 266\\ 12, 266\\ 12, 266\\ 12, 266\\ 12, 266\\ 12, 266\\ 12, 266\\ 12, 266\\ 12, 266\\ 14, 551\\ 10, 114\\ 15, 926\\ 12, 266\\ 14, 551\\ 10, 114\\ 15, 926\\ 12, 266\\ 14, 551\\ 10, 114\\ 15, 926\\ 12, 266\\ 12, 266\\ 14, 551\\ 10, 114\\ 15, 926\\ 12, 266\\ 12, 266\\ 12, 266\\ 12, 266\\ 12, 266\\ 12, 266\\ 12, 266\\ 12, 266\\ 12, 266\\ 12, 266\\ 12, 266\\ 12, 266\\ 14, 554\\ 10, 071\\ 14, 166\\ 14, 554\\ 10, 071\\ 14, 166\\ 14, 554\\ 10, 071\\ 14, 166\\ 14, 554\\ 10, 071\\ 14, 166\\ 14, 554\\ 10, 071\\ 10, 10, 10, 10, 10, 10, 10, 10, 10, 10,$
Liberty Limestone Live Oak Llano McCulloch McLennan.	22 481 147 54 198 468	$101 \\ 2,477 \\ 771 \\ 29 \\ 1,022 \\ 2,742 \\ 1,021 \\ 2,742 \\ 1,022 \\ 2,742 \\ 1,021 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,022 \\ 1,0$	445 9, 031 1, 072 3, 687	Wayne	44 10 8, 039	2, 320	2, 683 725 555, 821	Wythe Bristol City Radford City Washington	1 5 28	82	5 85 48
McLennan. Madison Marion Matagorda	4/20	2, 742 522 4 4	4, 183 1, 440 1, 161	Accomac Albermarle Alleghany	1 309 5	2 1,286 4	4, 267 301	Asotin Chelan Yakima		2 	240 198

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#### TABLE 15.—ACREAGE, TONS SOLD, AND PRODUCTS, MADE ON FARMS, OF SUGAR CANE AND SORGHUM CANE, ACREAGE AND TONS SOLD OF BEETS GROWN FOR SUGAR, AND PRODUCTION OF MAPLE SIRUP AND SUGAR, IN 1899, BY COUNTIES—Continued.

B.-Sorghum Cane-Continued.

COUNTIES.	SORG	HUM CA PRODUC			SORG	HUM CAL PRODUC				HUM CAI PRODUC	
COUATIES.	Aeres.	Tons sold.	Gallons of sirup,	COUNTIES.	Aeres,	Tons sold,	Gallons of sirup,	COUNTIES.	Aeres.	Tons sold.	Gallons of sirup.
West Virginia	-Marketten or	3, 892	450, 777	West Virginia Continued, Putnum	283	68	19,082	Wisconsin— Continued. Fond du Lac	85	14	2,378
Barbour Boone Braxton Bruoke	141 226 390 4	808 4	9,209 11,535 29,830 272	Raleigh Randolph Ritchie Roane	$244 \\ 44 \\ 178 \\ 425$	14     2	$\begin{array}{r} 18,865\\ 3,270\\ 13,075\\ 28,858\end{array}$	Grant Green Green Lake Iowa	135 41 69 59	49 149	10,518 3,177 3,598 3,971
Cabell Calhoun Clay Doddridge	256 111 189 68 90		17,690 8,064 6,902 5,166	Summers. Taylor Tucker Tyler	117     4     12     55     5	54	$8,108 \\ 199 \\ 821 \\ 4,276$	Jackson Jefferson Juneau La Crosse	21 164 98	2 168 9	$1,491 \\ 10,618 \\ 2,828 \\ 7,820$
Fayette Gilmer Grant Greenbrier Ilampshire	252 24 167	76 76 198	5,028 17,469 1,514 9,312 18	Upshur Wayne. Webster Wetzel. Wirt.	$     121 \\     361 \\     108 \\     59 \\     146   $	4 141 8 57 3	7,934 22,070 7,883 8,751 0,007	Lafayette Manitowoe Marquette Monroe Outagamie.	45 87 82	97 2 10	$\begin{array}{c} 2,033 \\ 158 \\ 5,662 \\ 5,181 \end{array}$
Hardy Harrison Jackson Kanawha	10 59 370 269	294	744 -4,457 23,698 16,021	Wood	- 70 - 87	4 108	9,267 6,774 1,428	Ozaukce Pepin Pierce Polk	57 2 85 64 15	7 5 11 6	4, 258 97 2, 095 3, 964 1, 069
Lewis Lincoln Logan McDowell.	134 -407 130 -38		10,545 21,165 10,076 1,142	Wisconsin	2, 399 22	952 6	160, 414	Portage Racine Richland Rock	15 24 66 43	10 8 10	1,009 906 1,587 5,282 8,840
Marien Marshall Mason Mercer	15 18 238	35 148 99	718 1,326 16,558 9,449	Barron. Brown Buffalo Burnett	(1) 20 2	2	$1,000 \\ 200 \\ 0 \\ 1,301 \\ 125$	St. Croix Sauk Shawano Sheboygan	$15 \\ 200 \\ 19 \\ 24$	10 8 166 9 4	877 18,039 1,039 1,813
Mingo. Monongalia Monroe Nicholas		15 	8,505 1,097 8,726 31,083	Calumet Chippewa Clark Columbia	41 3 1 78		$3, 196 \\ 101 \\ 37 \\ 5, 162$	Trempealeau Vernon Walworth Washington	8 187 59 7	18 4 4	298 8,832 4,473 419
Ohio Pendleton Pleasants. Pocahontas	5 51 62	291	$\begin{array}{c} 854\\ 8,517\\ 1,359\\ 2,123\end{array}$	Grawford Dane Dodge Duun	110 216 83 6	97 22 9	8,540 18,059 5,062 263	Waukesha Waupaca Waushara Winnebago	35 85 45 21	11 10 6	2,425 1,922 2,981 1,380
Preston	17	12	8, 440	Eau Claire	1Ž		852	Wood	4	•••••	257

C.—Sugar Beets.

		m		ta antar te de	11	n Millin Millin Markenbergeren versionen einer einer einer einer ihre son ihre son der Stellen (Millin einer Anders einer Ander Anders einer Anders einer Anders einer Anders einer Ander		
COUNTIES.	Acres,	Tons sold.	COUNTIES.	Aeres.	Tons sold,	COUNTIES,	Acres.	Tons sold
California	41, 242	856,535	Michigan-Continued.			Minnesota—Continued.		
			Bay	16,007	70,906	Brown	29 724	•
hmeda	8,680	44,974	Benzie	1 5 6	12	Carver	724	6, 1
olusa	566	5,820	Berrien Calhoun	$1,543 \\ 35$	7,425 174	Dakota	72	
ontra Costa	524	8,688	Cass.	128	524	Dodge Freeborn	36	:
os Angeles	697	4,856	Clare	12	22	Goodhue	82	Î
Ionterey	10, 333	112,867	Clinton	78	463	Hennepin	115	;
range	1,143	7,853	Crawford	2	7	Lesueur	59	(
acramento	$101 \\ 1.080$	502 6,587	Eaton	204	774	McLeod	151	1,:
an Benito	1,182	4.077	Genesee	102	566	Meeker	. 2	
an Bernardino an Joaquin	428	2,537	Gladwin	82	198	Morrison	(1)	
an Luis Obispo	285	1,384	Gratiot Hillsdale	1,551 14	11,587 $58$	Mower Nicollet	5 18	1
anta Barbara	2, 426	11, 388	Huron	1.007	6,237	Ottertail	18	-
anta Clara	4,214	12,873	Ingham	100	604	Pine	ĭ	
anta Cruz	2,759	41,553	Ionia	61	584	Ramsey	15	
olano	400	4,000	Iosco	182	878	Redwood	8	
onoma	$580 \\ 10,899$	5,600	Isabella	295	1,865	Renville	8	
entura	10,000	87,476	Kalamazoo	398	2,799	Rice	21	
			Kent	91 497	$     411 \\     2,947 $	Scott	179 372	1, 1,
Colorado	1,094	6,656	Lenawee	707	2, 947	Steele	19	1,
			Livingston	(1)	18	Stevens	1.5	
)elta	41	\$35	Luce	`´ 6	44	Todd	8	
arfield	4	20	Macomb	924	6,311	Wabasha	9	
arimer	21 982	$     \begin{array}{r}       126 \\       5,890     \end{array} $	Manistee	3	16	Wadena	2	
lesa	12	70	Mecosta	127	510	Waseca	្ពទ	
fontezuma Iontrose	34	215	Menominee	$599^{1}$	$\frac{10}{8,020}$	Winona	84 21	
Louteroaccesses		240	Midland Missaukee	000	3,020	Wright	21	
Tilles et a	1,370	9,109	Monroe	195	1, 443	Nebraska	8,662	62,
Illinois			Montcalm	252	1.084			
			Muskegon	289	1,287	Adams	96	
hampaign	8	30	Newaygo	101	440	Antelope	10	
o Daviess	14	$100 \\ 200$	Oakland	1,218	6,905	Boone	30	
Cane Cuox	15 76	142	Oceana	119	637	Buffalo	157	1,
asalle	41	328	Ogemaw	113 18	216 37	Burt	5	· ·
.ogan	20	27	Oscoda Otsego	30	154	Butler.	86	
fcDonough	35	500	Ottawa	2, 191	9,877	Cass	1	
fcHenry	8	11	Saginaw	2, 484	21.184	Clay	29	1.
fcLean	17	85	St. Clair	391	3,188	Cuming Dakota	151	Į 1,
farshall	35	266	St. Joseph	820	2,209	Dawson	43	s 
lason.	55 4	856 12	Sanilae	62	242	Dixon	14	
denard Peoria	48	91	Shiawassee	120	962	Dodge	4,251	j · 31,
azewell	997	6,936	Tuscola Van Buren	4,942 824	$     \begin{array}{r}       34,244 \\       2,627     \end{array} $	Douglas	68 (	
ermilion	2	25	Washtenaw	17	67	Fillmore	70	
			Wayne	158	378	Furnas	4	
Michigan	40, 247	215,878	Wexford	5	23	Hall	1,066	8
				-		Howard	$11 \\ 2$	1
Alcona	26	104	Minnesota	2, 114	15,959	Johnson Kearney	55	1
Allegan	1.464	7,411				Knox	1	
Arenac	353	1,587	Anoka	5	33	Lancaster	21	
Barry	45	1 162	Blue Earth	57		I Lincoln	1 ī	1

#### TABLE 15.—ACREAGE, TONS SOLD, AND PRODUCTS, MADE ON FARMS, OF SUGAR CANE AND SORGHUM CANE, ACREAGE AND TONS SOLD OF BEETS GROWN FOR SUGAR, AND PRODUCTION OF MAPLE SIRUP AND SUGAR, IN 1899, BY COUNTIES—Continued.

C.-Sugar Beets-Continued.

COUNTIES.	Aeres,	Tons sold.	COUNTIES.	Acres.	Tons sold.	COUNTIES.	Aeres,	Tons sold.
Nebraska—Continued.	1	10	New York—Continued, Cayugu	7	55	Texas.	185	523
Madison Merrick Nuckolls Pierce	852 561 45 286	5,808 4,235 32 1,774	Chemung Chemango Cortland Herkimer	58 81 21 2	$521 \\ 248 \\ 186 \\ 17$	El Paso Ward	8 127	82 441
Platte Richardson Saline	$284 \\ 2 \\ 2 \\ 2$	1,713 30 13	Madison Monroe Nassau	$\begin{array}{c} 67\\1\\2\end{array}$	258 4 17	Utah	7, 546	85, 914
Sarpy Saunders. Seotts Bluff Seward	8 59 1 1	$\begin{array}{r}18\\818\\2\\4\end{array}$	Oneida. Onondaga. Ontario Orleans	68 96 161 17	511 845 819 90	Boxelder Cache. Davis	$241 \\ 184 \\ 360$	2, 121 1, 468 2, 611
Sherman Stanton Thayer	1 324 8	$12 \\ 2,033 \\ 12 \\ 12$	Oswego Otsego Rensselaer	19 18 5	$20\\115\\165$	Kane. Morgan . Salt Lake . Sanpete.	$15 \\ 816 \\ 17$	8 96 10, 637 111
Washington Wayne Webster	27 63 2	380 288 13	St. Lawrence Schenectady Schoharie Schovler	8 1 16 12	46     4     75     138	Sevier Tooele Utah	31 1 8,541	177 8 44, 510
Nevada Washoe	2	2	Schuyler Seneca Steuben Sullivan	$12 \\ 18 \\ 104 \\ 15$	138 236 835 59	Weber	2,339	. 24, 172
New Mexico	1,298	8,965	Tioga Tompkins Wayne	11 12 968	84 87 7,828	Spokane	1,863	6, <b>149</b> 5, 652
Eddy	•	8,965	Oregon	107 2,510	878 14,462	Wallawalla Whitman	184	- 405
New York		16,003	Baker	1	3	Wisconsin	34	233
Albany Broome	$^{8}_{220}$	41 1,871	Union Wallowa	2,497 12	14,424 85	Pierce	84	233

COUNTIES.	Gallons of sirup,	Pounds of sugar,	COUNTIES,	Gallons of sirup.	Pounds of sugar.	COUNTIES.	Gallons of sirup,	Pounds of sugar,
Connecticut	948	4,930	Indiana-Continued.	*****		Indiana—Continued.		
			Carroll	3.466	. 90	Steuben	8,832	9,210
Hartford	128	960	Cass	8,251		Sullivan	847	550
Litchfield	717	2,400	Clark	754	30	Switzerland	-45	
New Haven		400	Clay	401		Tippecanoe	943	
New London	4	500	Clinton	2,050		Tipton		•••••
Tolland		120	Crawford	848		Union Vanderburg	1,895	• • • • • • • • • • • • • •
Windham,	82	550	Daviess Dearborn	$213 \\ 1,196$	90	Vermilion	203	-160
Tilte at a			Decatur	406		Vigo	298	
Illinois	9, 857	4,090	Dekalb	8,023	8,670	Wabash		
			Delaware	1,643		Warren		
Bond	85		Dubois			Washington	851	1,190
Brown	185	10	Elkhart	8,277	3, 350	Wayne		
Cass		. 40	Fayette	1,969		Wells	1,066	
Clark			Floyd			Whitley	5, 986	410
Coles Crawford			Fountain	4,869	220	_		
Cumberland	40		Franklin	1,469	•••••	Iowa	2,662	2,320
Douglas			Fulton	379	•••••		11 11 11 11 11 11 11 11 11 11 11 11 11	suttos: lalameter
Edgar	1.410	40	Gibson Grant	$17 \\ 1,690$	•••••	Adams	30	
Edwards	52	10	Greene	1,080		Allamakee	25	130
Fulton	462	220	Hamilton	1,770		Appanoose		250
Hancock	200	50	Hancock	918		Blackhawk	30	
Hardin	150		Hendricks	2,626		Calhoun		
Iroquois	50		Henry	4,442	150	Chickasaw	75	
Jasper	80	50	Howard	2.628		Des Moines.		80
Kuox.			Huntington	4,552	170	Fayette	$\frac{375}{20}$	550
Lake Livingston		1,650	Jackson	40		Flóyd Henry	20	
McDouough	87 780		Jay	1,026		Humboldt		70
McLean	270	300	Jefferson	•••••	100	Jefferson	28	
Marion	270		Jennings Johnson	282 636	- 130	Johnson		
Marshall	80		Knox	235	80	Lee	180	50
Menard	190	620	Koseiusko.	6,923	860	Page		50
Mercer		200	Lagrange	2,656	8,580	Van Buren		
Monroe	3		Lake	59	0,000	Warren		
Peoria	110	100	Laporte	963	800	Wayne	209	
Piatt Pope	18		Lawrence	6,600	20, 500	Winneshiek	75	1,140
Putnam	15 290	120	Madison	1,231		Famous	1	
Randolph	4		Marion	2,915		Kansas	45	••••
St. Clair	75		Marshall Miami	3, 921 3, 099	1,120			
Sangamon	155		Monroe	3,099 5,975	1,050	Coffey	35	
Schuyler	448	10	Montgomery	7,454	1,000	Nemāha	10	
Shelby	140	70	Morgan	1,549				
Stephenson	34	* 200	Noble	3, 318	500	Kentueky	2, 367	2,340
Tazewell			Orange	1,718	540		ing to the same the second sec	
Vermilion		360	Owen	2,952	340	Adair		50
Whiteside	25 35		Parke	10,091	2,120	Allen		170
Willicalue	30		Perry	35		Barren		
Ten 44			Pike	310	100	Boyle	55	
Indiana	179, 576	51,900	Porter Posey	778 188		Crittenden	10	20
			Putnam	5,591		Fleming	345	800
Adams	178		Randolph	1,420	10	Floyd Grayson		200
Allen		260	Rush	7, 343	10	Harrison	50	200
Bartholomew	1,887		St. Joseph	3, 222	520	McLean	75	200
Blackford	839		Shelby	2,432		Marshall	12	150
Boone Brown	4,497	220	Spencer	10		Monroe	. 20	570
	81	1	Starke	0		Montgomery	100	

D.—Maple Sirup and Sugar.

#### TABLE 15.—ACREAGE, TONS SOLD, AND PRODUCTS, MADE ON FARMS, OF SUGAR CANE AND SORGHUM CANE, ACREAGE AND TONS SOLD OF BEETS GROWN FOR SUGAR, AND PRODUCTION OF MAPLE SIRUP AND SUGAR, IN 1899, BY COUNTIES—Continued.

D.-Maple Sirup and Sugar-Continued,

COUNTIES.	Gallons of sirup.	Pounds of sugar.	COUNTIES,	Gallons of sirup,	Pounds of sugar,	COUNTIES.	Gallons of sirup,	Pounds o sugar,
Kentucky—Continued. hio			Michigan-Continued.	0.005	······	New York—Continued.		· · · · · · · · · · · · · · · · · · ·
dham	40		Shiawassee Tuscola	2,687	3, 360 2, 790	Lewis	27,325	219, 2: 31
ndleton ilaski	16 82		Van Buren	2,230	11,590	Madison	11,431	88, 37
wlor imble	10	50	Washtenaw Wayne	1,955 180	750	Monroe Montgomery	642 1,806	36
imble	15		Wexford	462	480	Ningara Oneida	28	
Maine	16,021	5,500	Minnesota	.1,079	29, 580	Oneida Onondaga	9,339 4,964	5,80
-						Ontario	2,220	91
ndroscoggin ruostook	391		Brown	411		Orange Orleans	37 889	20
mberland	105 60	2,830	Carlton Carver	53	. 50	Oswego	4,800	16,8
ranklin	1,455		Freeborn	-40	70	Otsego Rensselaer	14,863	104,3
ennebee nox	2,271 $41$	200	Goodhue Itasca	15		St. Lawrence	1,851 17,976	13,9 680,8
x ford	2,474	1,240	Lesueur	84		Saratoga	814	3,5
enobscot iseataquis	1, 952 997	890	Ottertail	65		Schoharie Schuyler	1, 646 24	16,1
gadahoe	270		Seott Todd	90 75	•••••	Sencea	117	
merset	4,698	610	Wabasha	16		Steuben Sullivan	8,072 2,511	47,8
aldo ork	$1,066 \\ 244$	230	Waseca. Winona	6	200	Tiora	1,024	1,1
			Wright	85		Tompkins	1,767	2 7, fi
Maryland	5,825	264, 160	Red Lake ¹	42	29,260	Ulstér Warren		9,1 12,7
logany	10	100	Missouri	5,474	12,055	Washington	1, 189	1, 2
legany	90	300				Wayne	673     19,808	1
urrett	5,725	263, 760	Adair	175		Yates.	30	257,7
Massachusetts	27, 174	192, 990	Andrew Audrain	808	1,400			
	-1, 11,	154,000	Bates.	10	50	North Carolina	129	1,1
erkshire	8,559	20, 480	Bollinger	121		Ashe	78	
anklin	11, 170	60, 830	Boone Buchanan	1,103	250	Watauga	51	1, 1
ampden mpshire	1,109 10,696	16,650 89,030	Callaway	405	120	(1)-1		
iddlesex	300	6,000	Cape Girardeau	8	40	Ohlo	923, 519	613, 9
orcester	340		Carroll Clark	40 86	• • • • • • • • • • • • • • • •	Adams	686	5.0
Michigan	82, 997	302, 715	Daviess	25	30	Allen	0 2222	5, <u>2</u> 1
	0.001	17049110	Douglas Howard	· · · · <b>· · · ·</b> · · · ·	50	Ashland	$22'_{1}466$	52, 2
legan	4,063	18,090	Iron,	• • • • • • • • • • •	1,900 20	Ashtabula Athens	59,665 100	94, ñ
itrinn	995		Lewis	68	840	Aughtize	2, 811	
urry enzie	4, 615 125	51, 580	Lincoln Madison	25 231	$\frac{20}{3,250}$	Belmont Butler.	1,504	2
rrien	2,112	18, 170	Marion	. 300	160	Carroll	365 241	
anch	1,789 227	7,620	Mereer	25		Champaign	6,934	4,1
188	2,574	500 1,640	Moniteau Monroe	100 466	50 20	Clermont	$\frac{840}{10,151}$	1,2
narlevoix	350		Montgomery	80	55	Columbiana	16,600	1,4
ieboygan are	167 138	20	Pike. Putnam	107	530     2,470	Coshoeton	222	
inton	4, 016	5, 900	Ralls	483	540	Crawford Cuyahoga	6,385 17,249	1, 8 7, 9
awford	55 162	100	Randolph	26	150	Darke	2,267 2,435	4
aton	11,537	79,940	St. Charles Vernon	6 10	•••••	Deflance Delawaro	2,435 6,567	2
nmet	788	160	Warren	45	280	Erie	2,802	1, 8
adwin	1,757	160	Washington Wayne	187 12	320	Fairfield Fayette	1,672	1
and Traverse	499		Wright.	34	10	Franklin	$\frac{262}{385}$	I
atiot Illsdale	1,460 7,813	2,310 29,590	Non Humahim			Fulton	271	•••••
oughton	7, 813	29,090	New Hampshire	41,588	441,870	Gallfa	$91 \\194,607$	154, 2
gham	3, 150	5,880	Belknap	2,570	6, 180	Greene	7,705	1,0
nla on	2,009	17,480 70	Carroll	4, 756	6,640	Guernsey	12	
ubella	354		Cheshire	2,708 4,282	87,190	Hamilton Hancock	$402 \\ 6,957$	1
ekson	100	· · · · · · · · · · · · · · · · · · ·	Coos. Grafton	7,058	180,820 103,970	Hardin	437	
dkaska	157 105	70	Hillsboro	0.950	8,180	Harrison Henry.	1,114	
nt	3, 056	29, 210	Merrimack Rockingham	7,281	15,300	Highland	1, 119 1, 126	
ké peer	215 1, 296	460	Strafford	115		Hocking	50	
elanaw	498	1,170	Sullivan	10, 341	83,790	Holmes	2,108 12,850	8,
nawee	3, 879	1,005	New York	418, 159	8,623,540	Jackson	260	
ringston		7,000		1101 100	0,040,000	Jefferson	716	
ekinae	180	300	Albany	262	60	Lake	- 13, 413 6, 710	6,1 9,5
eomb	461	310	Allegany	24,048	204, 300	Licking	17,642	9, 5,
rquette	897 15		Broome Cattaraugus	2,102 44,902	16,590 461,700	Logan	60, 915 17, 702	80. 43.
80D	352	100	Cayuga	3,695	7,460	Madison	434	
costa nroe	283 215		Chautauqua Chemung	56,955	822,070	Mahoning	35, 912	6, 1
ntealm	813	540	Chenango	16,276	$200 \\ 282,060$	Marion Medina	1,084 56,546	
iskegon	1.854	910	Clinton	2,170	20,810	Mereer	2,970 3,024	
waygo kland	$1,180 \\ 1,089 \\ 2,566$	1,900	Columbia	25	218,550	Miami Montgomery	8,024	
eana	2, 566	1,240	Delaware	81,802	170,040	Morrow	2,655 24,222	10,
emaw	60		Erie	13,880	81,800	Muskingum	- 36	
tawa	1,833 2,568	670 4, 290	Essex Franklin	987	33, 980 96, 880	Noble	$108 \\ 161$	
esque Isle	• 10		Falton	1,514	240	Perry	-4, 886	1
giñaw	102		Genesee	8,023	6,980	Pickaway	246	1,
Clair	454							
Clair Joseph nilae	454 3 288	150	Greene Hamilton Herkimer	6, 624 293 6, 339	$82,840 \\ 4,090 \\ 4,230$	Pike Portage	$100 \\ 147,839$	15,

¹Indian reservation.

D.-Maple Sirup and Sugar-Continued.

COUNTIES,	Gallons of sirup,	Pounds of sugar.	COUNTIES.	Gallons of sirup.	Pounds of sugar,	COUNTIES,	Gallons of sirup.	Pounds of sugar.
Ohio-Continued.			Tennessee—Continued.			West Virginia—		
Richland	21,590	9,520	Cannon		10	Continued.		
Ross	1,302		Clay		50	Lewis	35	100
Sandusky	1,723		Hamblen	5	310	Logan	13	
Seneca	5,491	800	Hancock	10	100	Marion	247	90
Shelby	713	100	Overton	7		Mercer	1 195	30
Stark	5, 791		Robertson	3 22	20	Monongalia	1,185 482	1,420 440
Summit Trumbull	9,073 63,489	8,090 17,130	Sevier Sulliyan	79	420	Monroe Nicholas	1.007	6, 630
Tuscarawas	66,489	17,100	Union	20	50	Pendleton	1,666	31,770
Union	8,273	7,240	Washington	$\bar{2}5$		Poeahontas	2, 348	16,530
Van Wert	188	1, 210	" asing the second s	20		Preston	1,409	4,230
Warren	1,739		¥7	100.010	4 770 070	Raleigh		-100
Wayne	8.226	8,560	Vermont	160,918	4,779,870	Randolph	472	4,980
Williams	7,889	1,710		1 055	100 100	Ritchie	1	
Wood	841		Addison	1,255	166, 170	Roane	5	130
Wyandot	1,813	60	Bennington	20,564 2,279	69,850 580,140	Summers	15	
			Caledonia Chittenden	14,378	277, 560	Tucker	29	500
Pennsylvania	160,297	1,429,540	Essex	2,625	113,570	Upshur.	209	
		1, 120,010	Franklin	15,908	918,000	Webster Wirt.	$\frac{469}{7}$	790
Allowhomy	68		Grand Isle	80	1,020	WIFL	· ·	
Allegheny	278		Lamoille	4,460	470, 210	Wisconsin	6,625	4,180
Beaver	85	• • • • • • • • • • • • • • •	Orange	6,007	197,240	11 100.0110111	(1) (inter	11200
Bedford	755	8,240	Orleans	4,683	992, 690	4	4.5.5	···
Bradford	6,879	44,280	Rutland	24,463	129,020	Ashland	157	
Butler	827		Washington	6,084	878, 240	Brown	70	64
Cambria	2,926	4,450	Windham	49,588	277, 310	Buffalo Calumet	121	
Clarion	36	450	Windsor	8,644	218, 850	Chippewa	466	454
Clearfield	35	70	TTI	1 1000	10 010	Clark		480
Columbia	221	2,110	Virginia	1,677	19, 310	Clark Crawford	0.02	150
Crawford	34,861	34,280			100	Door	5	
Erie	22,326 7,031	70,570	Augusta	5	460 320	Dunn	41	
Fayette		15,880	Bland		320	Eau Claire	10	
Greene	886	380	Henry Highland	$10 \\ 1,209$	15,690	Florence	25	
Indiana	531	870	Russell	1,200	480	Fond du Lae	242	200
Jefferson	157	80	Scott	37	240	Green	10	
Lackawanna	968	150	Smyth		200	Jefferson		40
Lawrence			Tazewell		200	Kewaunee	300 300	
Lebanon		240	Washington	86	1,520	Langlade	245	20
Lycoming	4		Wise			Manitowoe		20
McKean	3,237	4,840	Wythe	. 85	200	Marathon	1,318	1, 78
Mercer	11,094	670	Ma als instants	1.00		Milwankee	-40	
Pike Potter	188 6,837	64,770	Washington	126		Monroe	20	
Somerset	82,802	1,048,040	Calmarkia	****		Oconto	865	
Sullivan	62, 602	7,630	Columbia	126		Oneida	24	
Susquehanna		25,860	Wort Vincinia	14,874	141,550	Outagamie	50	
Tioga		41,220	West Virginia	14,0/1	191,000	Pepin		
Union	16	290	Barbour	1 004	EOID	Pierce		2
Venango	1,050	240	Barbour Braxton			Polk Riehland	3 408	19
Warren	5,288	56, 660	Brooke			Sauk	28	
Washington		1,230	Fayette		40	Shawano.		5
Wayne	4,068	1,840	Gilmer	5	40	Sheboygan		1
Westmoreland	1,857	250	Grant		61, 330	Trempealcau	43	
Wyoming	60		Greenbrier	. 770	2,820	Vernon	.] 86	
Tennessee	171	1,160	Hampshire	.] 84	10	Vilas	110	
2 GILLICASCO	1/1	1,100	Hancock	. 24		Washington	. 46	
N - 24 3		A	Hardy			Waupaca		
Bedford			Harrison			Waushara Wood		
Campbell								