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A Descriptive Analysis of the

Grade A Dairy Industry In Mississippi

MISSISSIPPI STATE UNIVERSITY AGRICULTURAL EXPERIMENT STATION HENRY H. LEVECK, Director STATE COLLEGE JUL 29 DOI MISSISSIPPI

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1. Areas of population concentration, Mississippi, 1956

A Descriptive Analysis of the Grade A Dairy Industry In Mississippi

By

VERNER G. HURT, A. D. SEALE, JR., and PHILLIP R. H. HARDY

Introduction

The supply-consumption balance of Grade A milk differs between geographic areas in Mississippi. While these differences between areas are generally recognized, information relative to the amount of Grade A milk produced and consumed in the various areas of the state is not common knowledge. Such information is a prerequisite to establishment and operation of effective policies and programs for the Grade A dairy industry in Mississippi.

This report presents a summary of data collected as a part of an overall study of the effect of location of production and processing facilities and of distribution patterns on the efficiency of fluid milk marketing in the South. Described herein are (1) Grade A production patterns and marketing facilities in the counties and geographic areas of Mississippi, and (2) Utilitzation and sales of Grade A milk in geographic areas of Mississippi.

Data pertaining to the number and size of dairy herds from which Grade A milk was sold and the average production per cow were obtained in cooperation with the Federal-State Crop and Livestock Reporting Service from a survey of Grade A dairies in Mississippi. Data on supplies, utilization and sales cf fluid milk were obtained through the cooperation of fluid milk processors and distributors, state and private institutions, and the State Superintendent of Schools.

The Location of Production and of Milk Assembly Points

Geographic Areas: Mississippi has been divided into six geographic areas for the following analysis. The grouping of data by these six geographic areas prevents consideration of the supply-consumption balance by counties. However, such grouping was necessary to prevent disclosure of sales and utilization information for particular firms. Consequently, the inbalance between production and consumption indicated for a specific area may either understate or overstate the situation on a county basis.

The concentration of non-farm population was the primary factor considered in establishing the six geographic areas indicated by Roman numerals in Figure 1. However, a restriction that at least five bottling plants must be located within each area was imposed. Estimates of non-farm and total population for each geographic area are shown in Appendix Table 1.

Grade A Dairy Herds: On January 1, 1957, there were 4,198 dairy herds in Mississippi from which milk meeting Grade A requirements was sold, Table 1. The largest concentration of dairies was in southwest Mississippi, Area V. Counties with the largest numbers of herds were Walthall, with 327; Amite, with 306; and Pike, with 256; Appendix Table 2. One or more Grade A herds were reported for each county in the state except for Tunica, Quitman and Sharkey.

These herds contained nearly 145 thousand cows, or an average of 35 head per herd. Although southwest Mississippi had a much greater number of both herds and cows than did other areas, herds in that area were smaller than in most others. Herds were largest in Area I, northwest Mississippi, where they averaged 49 cows per dairy. In fact, Grade A dairy farmers in De-Soto County alone reported 11,981 cows, a number greater than that reported for any other Mississippi county, Appendix Table 2.



Average production per cow did not differ very much between areas. The average for the state was 4,507 pounds, Table 1.

Milk Assembly Points: The number of milk assembly points within areas ranged from 8 in Area IV to 20 in Area VI. The number of assembly points by types within each area are summarized in Table 2.

Production, Utilization and Sales of Grade A Milk

Farm Production and Sales: During the period July 1, 1956—June 30, 1957 approximately 653 million pounds of Grade A milk were produced in Mississippi. Summaries of farmer reports indicated that about 3 percent of the total production was used on the farm. This factor was applied to the estimated total production in each area to obtain an estimate of the total volume sold— 633 million pounds. About 85 percent of this volume was sold to plants located in Mississippi and 15 percent was sold directly to plants outside of Mississippi.

Production and sales by farmers in

Table 1. Number of Grade A herds, estimated number of Grade A milk cows,* average number of cows per herd, and average annual production per cow, by geographic areas: Mississippi, January 1, 1957.

Geographic areas	Number of Grade A herds**	Estimated number of Grade A milk cows**	Average number of cows per herd	Average annual production per cow***
		Number		Pounds
Area I	483	23,751	49	4,546
Area II	851	28,341	33	4,457
Area III	369	13,312	36	4,474
Area IV	480	17,253	36	4,616
Area V	1,301	40,253	31	4,565
Area VI	708	21,715	31	4,353
Fotal	4,198	144,900	35	4,507

Source: Mississippi Crop and Livestock Reporting Service survey data.

* Includes heifers two years old and over.

^{oo} Data for counties with three Grade A dairies or fewer included in state total only.
^{ooo} July 1956 - June 1957 average.

Table 2.	Number of	assembly	points by	geographic areas:	Mississippi, July	1956 - June 1957.
----------	-----------	----------	-----------	-------------------	-------------------	-------------------

	Geographic areas						
Assembly points	I	II	III	IV	V	VI	Totəl
	Number						
Botting plants Producer-distributors Receiving stations Institutions	$\frac{9}{3}$	$ \begin{array}{c} 13 \\ 1 \\ 5 \\ \end{array} $	7 2 1 6	5 1 2 	$\frac{8}{4}$	$9 \\ 8 \\ 1 \\ 2$	$51 \\ 15 \\ 13 \\ 10$
Total -	13	19	16	8	13	20	89

Area V accounted for about 28 percent of the total for the state while Area III accounted for only 9 percent of the total. Estimated quantities produced and sold by farmers by areas are summarized in Table 3. Estimated production by areas, by counties, and by months are summarized in Appendix Tables 3-8.

Plant Receipts and Utilization: Fluid milk plants in Mississippi obtain most of their fluid milk supplies from producers in their area. Occasionally it is necessary for plants to obtain supplementary supplies from other plants. In this report "other sources" are classified as plants within Mississippi, plants outside of Mississippi and plants for which the location was not ascertained.

During the period July 1956—June 1957, fluid milk plants in Mississippi received about 605 million pounds of milk, Table 4. Approximately 43 million pounds of this total were sold as fluid milk to other plants located within the state. The latter quantity was counted twice since it was received by two different plants. More than 60 percent of the plant receipts in each area came directly from producers. A relatively small percentage of supplies in any area came from out-ofstate plants.

Most of the milk received by plants is processed into fluid products, manufactured products such as ice cream, cottage cheese, etc. or sold as bulk milk to other plants. A considerable part of the milk sold as bulk milk was reported by receiving stations; however, most plants sell some milk, especially during the spring months, as bulk milk. About 86 percent of the total milk used by plants in Area I was processed into bottled products while only 13 percent was used for this purpose in Area V. Slightly less than onehalf of the milk used by all plants in

Table 3. Estimated total Grade A milk production and farm sales, by geographic areas: Mississippi, July 1956 - June 1957.

Geographic areas	Milk production on Grade A dairy farms	Percent of state t∩tal	Milk sold by farmers
	000 pounds	Percent	000 pounds
Area I		16.53	104,725
Area III	50 552	$ \begin{array}{r} 19.34 \\ 9.12 \end{array} $	$122,534 \\ 57,766$
Area IV Area V		12.20	77,254
Area VI	04 595	$28.14 \\ 14.47$	$178,243 \\ 91,689$
Unclassified*	1 207	0.20	1,269
Total	653,072	100.00	633,480

Source: Mississippi Crop and Livestock Reporting Service survey data.

*Data from counties with three Grade A dairies or fewer are not included in area totals.

Table 4. Plan	t receipts of milk	, by source	of supply,	by geographic	areas:	Mississippi,
July 1956 -	June 1957.					

		Geographic areas					
Source of supply	1	II	III	IV	V	VI	State
			Tho	usand po	unds		
Producers	39,939	121,714	78,492	67,757	137,897	94,582	540,381
Other sources:	18.881	4.631	2,950	3,468	2 491	0 = 21	42.882
Plants within Mississippi Plants outside Mississippi	5,483	1.039	2,950	35	$3,421 \\ 1.056$	$9,531 \\ 359$	42,002
Location not ascertained	1,146	1,521	5,916	832	431	3,056	12,902
Total receipts	65,449	128,905	87,429	72,092	142,805	108,028	604,708
		Percent					
Producers	61.0	94.4	89.8	94.0	96.6	87.6	89.4
Other sources:							
Plants within Mississippi	28.8	3.6	3.4	4.8	2.4	8.8	7.1
Plants outside Mississippi	84	.8	.1	1.0	.7	.8	1.4
Location not ascertained	1.8	1.2	6.7	1.2	.3	2.8	2.1
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0

*Less than .05 percent.

the state was bottled. Approximately one-half was sold as bulk milk. Bulk milk accounted for about 83 percent of the total utilization in Area V and only 6 percent in Area I, Table 5.

Preducts and Containers: Homogenized milk accounted for 70-80 percent of the total volume of fluid products sold by plants located in each of the areas, Table 6. Non-homogenized milk, buttermilk and flavored milk accounted for most of the remainder. These four products accounted for about 97 percent of the total volume of fluid products for the state.

More than half of the fluid milk sold was packaged in quart containers, Table 7. This relationship held in all areas except Area I and III. In the latter areas, the popularity of halfgallon containers reduced somewhat the lead held by sales in quarts. Sales in half-pint containers were greater in Area VI, the Gulf Coast Area, than in any other area.

Table 5. Plant utilization of milk, by type of product, by geographic areas: Mississippi, July 1956 - June 1957.

	Geographic areas								
Type of products	1	II	III	IV	V	VI	State		
		Thousand pounds							
Fluid products Manufactured products Bulk milk	$55,415 \\ 5,501 \\ 3,663$	$\begin{array}{r} 42,721 \\ 1,898 \\ 83,546 \end{array}$	$57,138 \\ 9,621 \\ 19,663$	$35,389 \\ 562 \\ 35,227$	$19,213 \\ 5,020 \\ 120,301$	$69,437 \\ 6,652 \\ 30,322$	$279,313 \\ 29,254 \\ 292,722$		
Total utilization	64,579	128,165	86,422	71,178	144,534	106,411	$601,\!289$		
-				Percent					
Fluid products Manufactured products Bulk milk	85.8 8 5 5.7	$33.3 \\ 1.5 \\ 65.2$	$\begin{array}{c} 66.1 \\ 11.1 \\ 22.8 \end{array}$	49.7 .8 49.5	$13.4 \\ 3.4 \\ 83.2$	$65.2 \\ 6.3 \\ 28.5$	$46.4 \\ 4.9 \\ 48.7$		
Totai	100.0	100.0	100.0	100.0	100.0	100.0	100.0		

Table 6. Percentage distribution of fluid milk sales, by type of product, by geographic areas: Mississippi, July 1956 - June 1957.

	Geographic areas*						
Type of product	1	II	III	IV	V	VI	State
				Percent			
Homogenized milk	75.0	79.2	78.9	74.7	71.6	73.2	75.9
Non-homogenized milk	2.6	1.0	3.2	4.0	11.2	8.7	4.7
Skim milk	0.6	0.2	1.0	1.1	0.4	1.5	0.9
Buttermilk	11.2	11.4	9.5	12.0	8.0	4.6	9.1
Flavoied milk	7.8	7.6	5.2	6.5	6.6	9.9	7.5
Flavored milk drink**	0.6	_	0.6	0.1	0.8	0.4	0.4
Half & Half (Light)	0.7	0.1	1.1	0.9	0.8	1.2	0.9
Medium cream		0.1	0.2	0.2	0.1	0.3	0.2
Heavy cream	0.3	0.3	0.3	0.3	0.4	0.1	0.3
Other***	0.2	0.1		0.2	0.1	0.1	0.1
			Tho	usand pou	ınds		
Total	55,415	42,721	57,138	35,389	19,213	69,437	279,313

^bDenotes location of plant.

"Flavored milk drink containing less than 3.5 percent butterfat.

"" Includes sour cream and egg-nog.

Table 7. Percentage distribution of fluid milk sales, by size of container, by geographic areas: Mississippi, July 1956 - June 1957.

	Geographic areas*						
Size of containers	1	II	III	IV	, V	VI	State
				Percent			
Gallons ^{**} Half-gallons Quarts Pints Third-quarts Half-pints	$1.2 \\ 35.6 \\ 45.0 \\ 1.2 \\ - 17.0$	$2.2 \\ 20.0 \\ 59.4 \\ 0.2 \\ 0.4 \\ 17.8$	$2.4 \\ 32.8 \\ 46.6 \\ 1.6 \\ 0.4 \\ 16.2$	$3.6 \\ 25.0 \\ 57.2 \\ 1.8 \\ 0.2 \\ 12.2$	2.8 12.2 67.4 0.6 - 17.0	3.8 9.4 61.8 1.2 23.8	$2.6 \\ 22.2 \\ 56.0 \\ 1.0 \\ 0.2 \\ 18.0$
nun pinto	Thousand pounds						
Total	55,415	42,721	57,138	35,389	19,213	69,437	279,313

"Denotes location of plants.

Dispenser milk.

Ice cream and ice cream mixes accounted for more than 90 percent of the manufactured products in each area when butter and condensed milk were omitted. Data for the latter two products could not be shown because of the limited number of plants engaged in production. Cottage cheese accounted for less than 8 percent of the manufactured products in each of the areas. Container sizes for manufactured products were not obtained in the survey.

Sales of Fluid Milk: About 300 million pounds in fluid milk equivalents were sold as fluid milk and manufactured products by plants in Mississippi to consumers and retail establishments in Mississippi. Approximately 27 percent of this volume was sold in Geographic Area VI and 23 percent in Geographic Area III. Sales in Area V accounted for less than 10 percent of the market.

Annual per capita sales, based on total population of the state, were 142 pounds, Table 8. Fluid products made up about 92 percent of the volume and manufactured products 8 percent. Sales per person varied widely between areas, ranging from 101 pounds in Area I to 226 pounds in Area VI. These data are not to be construed as estimates of per capita consumption of dairy products: two important components are missing. First, the data do not include quantities sold by outof-state plants directly to consumers or retailers in Mississippi. Secondly, the milk products consumed by many farm families are not purchased through commercial channels, but are homeproduced.

Sales per non-farm person averaged 276 pounds for the state, and ranged from 241 pounds in Area III to 322 pounds in Area II. With total sales quantity given, area sales per nonfarm person would be expected to vary inversely to the proportions of nonfarm residents in the areas. That they did not do so indicates differences in the proportions of rural residents that purchased milk products through commercial channels.

Effects of Urbanization on Fluid Product Sales: According to the Department of Sociology and Rural Life, Mississippi State University, the total population for Mississippi in 1975 will be about the same as in 1956. Consequently, the dairy industry of Mississippi can expect little if any increase in sales of fluid milk products in Mississippi unless there is an increase in sales per capita. Indications are that the population shift from farm to nonfarm in Mississippi is increasing per capita sales.

Regression techniques were used to estimate the effect of urbanization on fluid product sales. The dependent variable was sales per person in each geographic area (Table 8), and the independent variable was the percent of total population in each geographic

Table 8.	Volume of	fluid ar	١d	manufactured	products	sold	by al	Mississippi	plants	in	each
of the	e geographic	c areas	of	Mississippi, Ju	ly 1956 -	June	1957		-		

				Geograph	ic areas*			
Description of sales	Unit	1	II	III	IV	V	VI	Tota1
Total sales into each area:								
Fluid products Mfg. products Total	000 lbs. 000 lbs. 000 lbs.	$46,486.9 \\ 4,974.2 \\ 51,461.1$	$\begin{array}{r} 42,399.9\\ 2,206.4\\ 44,605.3 \end{array}$	$\begin{array}{c} 60,555.2 \\ 7,785.0 \\ 68,340.2 \end{array}$	$28,537.6 \\ 1,617.9 \\ 30,155.5$	$24,510.8 \\ 1,293.5 \\ 25,804.3$	73,495.3 6,349.3 79,344.6	275,985.7 24,266.3 300,212.0
Sales per person:								
Fluid products Mfg. products	lb. lb.	$91.3 \\ 9.8$	$129.9 \\ 6.8$	$125.6 \\ 16.1$	$123.4 \\ 7.0$	$117.6 \\ 6.2$	$208.1 \\ 18.0$	$130.8 \\ 11.5$
Total	1b.	101.1	136.7	141.7	130.4	123.8	226.1	142.3
Sales per non-farm person:								
Fluid products Mfg. products	lb. lb.	$245.2 \\ 26.2$	$306.2 \\ 15.9$	$213.3 \\ 27.4$	$278.8 \\ 15.8$	$232.2 \\ 12.3$	$272.9 \\ 23.6$	$253.4 \\ 22.2$
Total	lb.	271.4	322.1	240.7	294.6	244.5	296.5	275.6

Denotes the location of consumers or retail establishments to which products were sold.

area that was non-farm (Appendix Table 1). Results of this analysis indicated that a shift of 1 percent of the total population from farm to nonfarm would result in an increase in sales of fluid products per person of 2.5 pounds per year. The percent of the total population that was non-farm explained 81 percent of the variation in sales per person. If the trend from farm to non-farm continues, by 1975 there would be an additional shift from farm to non-farm of 8 percent. This shift in population would increase total fluid product sales in the state by 40 million pounds by 1975. This would be an increase in total fluid product sales of about 14 percent from 1956-1957 to 1975

Supply-Consumption Balance of Grade A Milk: Producers of Grade A milk in Mississippi sold approximately twice as much milk to plants and dealers as was resold as processed fluid milk and manufactured products to consumers in the state by these plants and dealers during the period July 1, 1956-June 30, 1957, Table 9. In all areas except Area III, producers sales of raw milk exceeded sales of processed products. The ratios of producer sales to plant sales varied widely between areas. A greater imbalance between areas except for Area III would be evidenced if sales of fluid products only were compared with sales of producer milk.

The differences in the supply-consumption balances of Grade A milk between areas of the state may result in conflicting interests with respect to policies and programs for the dairy industry in Mississippi.

Programs designed to facilitate shipments of milk into an area may be most desirable for areas with a low ratio of production to sales of fluid and manufactured products. For areas where there is an approximate balance, policies and programs excluding in-shipments of Grade A milk may be favored. However, when the balance for the entire state is considered, policies and programs designed to impede or restrict movements of Grade A milk within the state or between states may be harmful. If retaliatory policies and programs were developed by neighboring states, the following of restrictive policies could result in irreparable damage to and chaotic conditions in the Grade A Dairy Industry of Mississippi.

Summary and Conclusions

The purpose of this report was to describe (1) the location of production and marketing facilities, and (2) the supplies, utilization and sales for Grade A milk by geographic areas in Mississippi. Data were collected from producers, processors and distributors of Grade A milk and from governmental agencies in the state.

The state was delineated into six geographic areas based primarily on the concentration of non-farm population. On January 1, 1957, there were 4,198 dairy herds producing milk meeting Grade A requirements in Mississippi. The largest concentration of

Table 9.	Supply-consumption	balance	for	Grade	Α	milk	bv	geographic	areas:	Mississippi,
July	1, 1956 - June 30 1957	•						3 . 3		•••

Area	Milk sold by farmers	Sales of fluid and manufacturing products	Difference	Milk sold/sales of fluid and manufacturing products
	000 pounds	000 pounds	000 pounds	Percent
I	104,725	51,461	53,264	204
	122,534	$44,605 \\ 63,340$	(10,574)	275 84
IV	77.254	30,156	47.098	256
Ŷ	178,243	25,804	152,439	691
VI	91,689	79,845	11,844	115
Unclassified	1,269		_	_
Total	633,480	300,211	333,269	211.0

*Sales by farmers in counties with three Grade A dairies or fewer not included in area totals.

herds and the largest number of cows was in southwest Mississippi, Area V. However, the average number of cows per herd in Area V was the same as or smaller than the average size of herds in other areas.

Average production per cow in herds meeting Grade A requirements during the 12 month period beginning July 1, 1956 ranged from 4,353 pounds in Area VI to 4,616 pounds in Area IV. Average production for the state was 4,507 pounds.

The primary source of fluid milk supplies for fluid milk plants in Mississippi was from regular producers. Receipts from plants located outside of Mississippi accounted for a relatively small percentage of the total receipts by plants in each area. Fluid products accounted for 46 percent of total plant utilization; manufactured products, 5 percent; and bulk milk, 49 percent during the period. About 96 percent of the volume of fluid milk products sold was packaged in half-gallon, quart, and half-pint containers.

A relatively stable total population

is expected in Mississippi for the next 10-15 years. However, the percentage of the total population classified as non-farm will probably increase. Based on the expected increase in the nonfarm segment of the population, increases in the total amount of fluid and manufactured products purchased through commercial channels would be expected.

The supply-consumption balance for Grade A milk differed between areas. Sales of Grade A raw milk to processors by producers by areas ranged from 84 to 691 percent cf the sales of fluid and manufactured products by processors and distributors.

Overall, approximately twice as much Grade A milk was produced in Mississippi as was consumed within the state. Consequently, policies and programs developed by interests in Mississippi which restrict or impede movements of Grade A milk within the state or between states could harm the Mississippi industry, particularly if retaliatory measures were adopted in other areas.

APPENDIX TABLES

Appendix Table 1. Estimated non-farm and total population, by geographic areas: Mississippi, July 1, 1956.

	Non-farm	population	Percent non-farm	Total po	pulation
Geographic areas	Area total	Percent of total	is of total	Area total	Percent of total
	Number	Percent	Percent	Number	Percent
Area I	$189,621 \\ 138,488$	$17.4 \\ 12.7$	$37.2 \\ 42.4$	$509,100 \\ 326,400$	$24.1 \\ 15.5$
rea III	$283,844 \\ 102,367$	26.1 9.4	$58.9 \\ 44.3$	482,100 231,200	$22.8 \\ 11.0$
rea V	105,549	9.7	50.6	208,500	9.9
rea VI	269,295	24.7	76.3	353,100	16.7
tate	1,089,164	100.0	51.6	2,110,400	100.0

Source: Adapted from Saunders, J. V. D., et al., Sociology and Rural Life Series No. 6, State College, Mississippi, November, 1957.

Appendix Table 2. Number of Grade A herds and estimated number of cows in Grade A herds, by counties, Mississippi, January 1, 1957.

	Number of Grade A	Estimated		Number of Grade A	Estimated number
County	herds	of cows*	County	herds	of cows ³
Area I			Rankin	61	3,060
Bolivar	26	939	Sharkey	**	非非
Coahoma	4	228	Simpson	57	2,209
DeSoto	220	11,981	Warren	12	672
Grenada	<i>\$</i> \$	* *	Yazoo	11	187
Lafayette	8	415	A		
Leflore	6	147	Area IV		
Marshall	42	2,262	Clarke	12	362
Panola		758	Jasper	31	823
Quitman	**		Kemper	12	452
Sunflower	35	1,011	Lauderdale	10	411
Tallahatchie	8	244	Leake	14	479
Tate	89	4,439	Neshoba	69	2,613
l'unica	17	707	Newton	199	6,233
Washington	17	620	Noxubee	73	3,591 506
Yalobusha	14	620	Scott Smith	9 22	535
Area II			Winston	22	1.248
Alcorn	58	1.427		20	1,210
Benton	6	152	Area V		
Calhoun	42	1.075	Adams	6	387
Chickasaw	63	1,813	Amite		9,634
Choctaw	* *	***	Franklin		451
Clay	53	1,857	Jefferson		
Lawamba	23	582	Jefferson Davis	24	574
Lee	111	3,142	Lawrence	34	937
Lowndes	71	3,499	Lincoln	179	6.115
Monroe	50	1,747	Marion	152	4.273
Oktibbeha		5,995	Pike	256	7,321
Pontotoc		2,606	Walthall	327	10,561
Prentiss	38	956	Wilkinson	**	**
Tippah	14	358			
Tishomingo Union	15 71	$\begin{array}{c} 311 \\ 1.705 \end{array}$	Area VI		
Union Webster	30	1,116	Covington	25	680
webster	30	1,110	Forrest	63	2,551
Area III			George	34	915
Attala	29	845	Greene	9	315
Carroll	7	231	Hancock	89	2,702
Claiborne	水 埠	**	Harrison	46	1.122
Copiah .	90	2,793	Jackson	24	838
Hinds	21	736	Jones	$\overline{96}$	3,888
Holmes	5	235	Lamar	33	934
Humphreys	8	133	Pearl River	199	5,360
Issaquena	10	298	Perry	6	175
Madison	44	1,563	Stone	67	1,831
Montgomery	14	350	Wavne	17	404
Courses Miggiggippi	Commend I	The second secon	ting Couries		

Source: Mississippi Crop and Livestock Reporting Service.

"Includes heifers two years old and older.

**Three Grade A dairies or fewer.

July
wississippi,
ï,
Area
Geographic
months:
μų
by counties,
milk,
A
Grade
of
production
Estimated
3.
Table
pendix 1956 -

Area I						Months	ths						
rea I	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Total
						Thousand	d pounds	ds					
Bolivar	355	350	345	346	345	362	407	386	469	506 125	516	448	4,835
DeSoto	4,218	4,131	4,049	4,088	4,107	4,336	4,447	4,226	4,711	5,023	5,213	4,813	53,362
Grenada*		0] į		54	010
Latore Leftore	140 54	140 233	140	141 767	47	150 49	00T	11 11 11	00T	111	72	140 64	610,1
Marshall	851	834	817	825	829	875	904	858	957	991	1,019	941	10,701
Panola	253	248	243	245	246	260	271	260	272	291	302	278	3,169
Quitman""		000	100	100		000] 6		1		5	0.1	100 "
Sunilower Tollabotobio	404 70	399 60	394 60	374 60	352 60	309	420 00	408	400	208	010 110	402	100,6
Patientation	1.564	1.532	1.502	1.516	1.523	1.608	1.648	1.570	1.739	1.864	1.933	1.784	19.783
Tunica**													
Washington	301	297	293	278	262	275	316	306	342	363	371	329	3,733
Yalobušha	200	196	192	194	195	206	207	199	221	240	254	237	2,541
Fotal	8,513	8,347	8,190	8,219	8,211	8,661	9,023	8,595	9,610	10,267	10,612	9,716	107,964
Geographic						Months	ths						
area	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Total
Area II						Thousand	a pounds	ds					
Alcorn	448	442	436	443	442	463	472	472	527	555	557	505	5.762
Senton	54	53	52	53	53	56	57	55	60	65	29	62	687
biolocom	354	347	340	343	345 012	364	3/4	303	396	624 074	433	398 606	4,472
hortaw ^e	070	770	110	ETO	010	een	700	700	200	£.	161	n <i>e</i> n	1,000
Clay	671	666	661	663	653	681	698	663	731	801	842	730	8,460
tawamba	212	209	296	210	209	219	225	224	249	258	260	238	2,719
lee	1,157	1,142	1,127	1,145	1,142	1,198	1,243	1,226	1,354	1,398	1,400	1,253	14,785
Lowndes	1,272	1,202	1,204	1,257	1,238	1,290	1,320	1,22,1	1,389	1,018	1,620	1,405	100.01
Oktibbeha	2.058	2.043	200 C	2.034	2,003	2.087	2,138	1 987	2.214	032 2.430	2.587	2 334	25 944
Pontotoc	886	874	862	876	874	-917	940	945	1,054	1,093	1,100	1,002	11,423
Prentiss	342	337	333	338	337	354	365	359	400	416	420	384	4,385
Tippah	127	125	123	125	125	131	138	132	147	152	153	140	1,618
Lisnomingo Thion	211 611	114 667	112	114 660	1.14 668	611 611	122	122	130 786	142 786	144 786	130	1,484 8 550
Webster	379	380	369	370	376	394	403	377	420	455	464	437	4.824
	0100	010 0	0110	0.000		10101	101	10001	1 1 1 0 0	1 1 000		040	

Based on Grade A dairy survey data collected by the Mississippi Crop and Livestock Reporting Service, Mississippi Department of Agriculture and Commerce, Statistics Division, Jackson, Mississippi, in cooperation with Agricultural Experiment Station, State College, Mississippi, January 1, 1957 - June 30, 1957. "Counties having three Grade A dairies or fewer are included in the state totals only.

**None reported.

Mississippi Agricultural Experiment Station Bulletin 619

11.076 126.324

12.367

11.930

10,004

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9.745

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Webster Source:

Union Total

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e^{-} b_1	Attala	318	319	310	311	315	331	338	315	359	396	404	382	4,098
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261 261 255 256 <t< td=""><td>Copiah</td><td>786</td><td>974</td><td>954</td><td>957</td><td>954</td><td>1,001</td><td>1,023</td><td>958</td><td>1,090</td><td>1,152</td><td>1,163</td><td>1,075</td><td>12,288</td></t<>	Copiah	786	974	954	957	954	1,001	1,023	958	1,090	1,152	1,163	1,075	12,288
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a 133 136 133 123 113 1127 133 123 134 135 134 135 134 135 134 135 134 135 134 135 134 135 135 134 135 134 135 135 134 135 <td>Humphreys</td> <td>41</td> <td>40</td> <td>40</td> <td>38</td> <td>35</td> <td>37</td> <td>42</td> <td>42</td> <td>47</td> <td>61</td> <td>62</td> <td>58</td> <td>545</td>	Humphreys	41	40	40	38	35	37	42	42	47	61	62	58	545
nery 98 97 103 111 1112 1128 1236 1136 1344 1236 1344 1236 1344 1236 1344 1236 1344 1236 1344 1236 1344 1236 1344 1235 1346 1344 1236 1344 1236 1344 1236 1344 1236 1344 1236 1344 1236 1344 1236 1344 1236 1344 1236 1344 1236 1344 1236 1344 1236 1344 1236 1344 1236 1346	ssaquena	132	130	128	122	115	121	140 695	131	145 640	157	161	139	1,621
1.133 1.113 1.113 1.113 1.113 1.113 1.113 1.113 1.113 1.113 1.113 1.113 1.113 1.113 1.127 1.133 1.256 1.336 1.344 1.253 233	Tontgomery	86	86 86	95	95	70C	101	104	26	104	115	120	114	1,238
Tim To Tim To To <tht< td=""><td>tankin</td><td>1,139</td><td>1,143</td><td>1,108</td><td>1,111</td><td>1,127</td><td>1,183</td><td>1,215</td><td>1,128</td><td>1,256</td><td>1,336</td><td>1,344</td><td>1,259</td><td>14,349</td></tht<>	tankin	1,139	1,143	1,108	1,111	1,127	1,183	1,215	1,128	1,256	1,336	1,344	1,259	14,349
Table 6. Estimated production 6 73 5,34 5,39 5,36 5,39 5,36 5,39 5,31 1,31 1,31<	harkey**		-169	753	754	756	798	668	775	860	889	108	833	0 66
$\overline{59}$ $\overline{59}$ $\overline{53}$ $\overline{51}$ $\overline{52}$ $\overline{54}$ $\overline{59}$ $\overline{56}$ <	Varren	194	192	188	188	188	197	198	189	213	231	239	235	2,452
Table 6. 4,739 4,712 4,601 5,242 5,594 5,69 5,203 59 Table 1957. July Aug. Sept. Oct. Nov. Months G*Segraphic Area IV. Mississippi C July Aug. Sept. Oct. Nov. Dec. Jan. Feb. Mar. Apr. May June T C July Aug. Sept. Oct. Nov. Dec. Jan. Feb. Mar. Apr. May June T C July Aug. 143 143 153 132 133 133 133 133 133 133	azoo	59	29	58	55	52	54	59	59	99	62	82	78	16(
Table 6. Estimated production of Grade A milk, by counties, by months: Geographic Area IV, Mississippi, $une 1957$, July Aug. Sept. Oct. Nov. Months M	la	4.739	4.712	4,601	4,601	4,620	4,851	4,993	4,678	5,242	5,594	5,659	5,263	59,55;
July Aug. Sept. Oct. Nov. Dec. Jan. Feb. Mar. Apr. May Juny June r Thousand pounds Thousand Thousand	ographic						Mon	ths						
Thousand pounds r 148 146 145 145 145 151 156 173 168 151 r 1314 309 308 307 330 330 360 371 371 168 151 r 182 180 180 173 168 173 168 151 r 182 180 189 173 133 139 173 136 301 301 r 182 180 189 173 169 173 168 173 168 170 r 182 189 189 173 139 1203 173 168 137 168 137 168 137 159 1273 1043 157 150 157 150 157 150 157 157 150 157 150 157 150 157 150 157 150 157 150 157 150 157 150 150 150 150 150 156	area	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Tota
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$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Kemper	182	181	180	180	178	185	192	173	178	192	200	177	2,198
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	auderdale	162	160	159	159	158	165	170	163	183	203	190	170	2,045
Dee 2,560 2,525 2,517 2,506 2,517 2,562 2,865 2,951 2,762 2,481 bee 154 155 150 1,17 1,69 157 1,51 1,378 1,432 1,524 1,378 154 155 150 151 153 160 162 170 186 193 1378 169 165 150 151 153 160 165 170 196 200 190 193 1378 00 165 163 163 163 163 139 140 142 1,378 1,493 1,378 1,398 1,398 1,398 1,398 1,398 1,398 1,398 1,398 1,398 1,3	Jeake	137	137 959	133 946	133	130 934	973	041 966	137 995	1 039	1 130	1 203	1 043	19,050
bee 1.155 1.177 1.169 1.172 1.154 1.203 1.228 1.150 1.328 1.432 1.524 1.378 1.432 1.524 1.378 1.432 1.524 1.378 1.64 1.65 1.65 1.65 1.65 1.65 1.65 1.65 1.65	Vewton	2,560	2,525	2,517	2,510	2,506	2,614	2,697	2,562	2,865	2,951	2.762	2,481	31,550
10 10<	Voxubee	1,185	1,177	1,169	1,172	1,154	1,203	1,228	1,150	1,289	1,432	1,524	1,378	15,061
on 404 401 399 400 394 410 420 389 437 486 530 480 6,375 6,375 6,308 6,269 6,271 6,230 6,496 6,676 6,280 7,021 7,493 6,727 Based on Grade A dairy survey data collected by the Mississippi Crop and Livestock Reporting Service, Mississippi, in cooperation with Agric Department, Mississippi Agricultural Experiment Station, State College, Mississippi, January 1, 1957	scott	154	165	163	161	165	173	179	170	190	180	193 200	C81	2.124
6.375 6.308 6.269 6.271 6.230 6.496 6.676 6.280 7.021 7.497 7.493 6.727 Based on Grade A dairy survey data collected by the Mississippi Crop and Livestock Reporting Service, Mis Department of Agriculture and Commerce, Statistics Division, Jackson, Mississippi, in cooperation with Agric Economics Department, Mississippi Agricultural Experiment Station, State College, Mississippi, January 1, 1957	Vinston	404	401	399	400	394	410	420	389	437	486	530	480	5,150
Eased on Grade A dairy survey data collected by the Mississippi Crop and Livestock Reporting Service, Missibility Department of Agriculture and Commerce, Statistics Division, Jackson, Mississippi, in cooperation with Agric Economics Department, Mississippi Agricultural Experiment Station, State College, Mississippi, January 1, 1957	tal	6,375	6,308	6,269	6,271	6,230	6,496	6,676	6,280	7,021	7,497	7,493	6,727	79,643
Experiment Station, State College, Mississippi, January 1, 1957	Based on	e A dair	y survey		ollected	by the	Mississip	pi Crop		ivestock	_	2	¢,	ssissip
	Economics Dep	artment,	Mississi	ppi Agr	icultural		ment Sta	ation, Sta	te	ege, Mis	10	January	i –î	Inf -

*Counties having three Grade A dairies or fewer are included in the state totals only. **None reported.

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Appendix T	1956 - Juine

Area V July Aug. Area V 3,675 3,624 Anates 3,675 3,624 Anates 3,675 3,624 Farakin 136 134 Jefferson* 2,339 2,307 Jefferson* 2,339 2,307 Liawrence 2,339 2,307 Liawoin 2,339 2,307 Mathail 2,339 2,307 Lincoin 2,464 2,413 Walthall 4,110 4,033 Votal 14,924 14,676	 Sept. Sept. 3.553 4.412 4.442 6 14,442 7 2,562 		Nov. 3.554 3.554 1.2284 1.263 1.563 1.563 1.563 1.563 1.563 1.490 are inclu are inclu milk, by	Thousand p Thousand p 3,727 3, 138 1138 192 2,529 2,529 2, 2,529 2, 2,529 2, 2,529 2, 4,218 4, 4,218 4, 4,218 4, 15,241 15, 15,241 15,2	$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	Feb. 5 115 3.560 3.560 134 188 2.312 1.584 2.453 4.085 4.085 1.5,84 2.453 4.085 e totals onthis: Feb. 6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.	Mar. / Mar. / / 3,946 4, 3,946 4, 1,455 2,09 2,612 2, 1,743 2, 1,453 4, 16,330 16, only. Geographic	Apr. 4 Apr. 135 4.073 151 2.738 2.738 2.787 2.787 2.787 2.787 2.787 16.810 16.810	May 161 150 150 214 156 214 4,490 1,763 1,763 1,763 1,763 1,765 1,651 16,651	June 3,645 146 2,463 1,578 2,463 1,578 2,463 1,578 2,463 1,578 2,463 1,578 2,463 1,578 2,463 1,578 2,645 1,578 1,5	Total 1,496 1,470 1,670 1,670 1,670 2,329 3,706 29,058 30,659 30,659 30,659 30,659 50,425
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s	5 113 4 3.553 4 3.553 4 1.81 6 1.81 7 2.825 8 2.836 8 2.336 8 2.3386 8 2.3386 8 2.3386 8 2.3386 8 2.3386 8 2.3386 8 2.3386 8 2.3386 9 3.390 6 14.442 dairies or r ion of Gra 6		3.554 3.554 182 182 182 284 284 1.663 1.563 1.563 1.563 1.563 1.5490 14,490 are inch	118 3,227 192 192 1,647 1,647 2,573 1,647 2,573 1,647 2,573 1,647 2,573 1,647 2,573 1,647 2,529 4,218 2,529 4,218 2,537 3,647 1,647	3829 3829 142 196 306 2,431 1,700 1,700 4,356 4,356 1,568 1,558 1,	3,560 3,560 188 2,818 2,818 2,453 4,085 4,085 4,085 4,085 6 totals e totals nihs:	3.128 3.946 3.946 3.946 209 2.723 4.453 4.453 4.453 4.453 1.6,330 only. Geograp		161 150 150 214 3603 2,693 1,763 1,763 1,763 1,763 1,763 1,763 1,763 1,763 1,763 1,763 1,763 1,763 1,763 1,763 1,763 1,763 1,763 1,760 1,750 1,500 1,500 2,140 2,514 1,750 2,740 2,7	$\begin{array}{c} \begin{array}{c} 148\\ 3,645\\ 146\\ 202\\ 2,346\\ 2,463\\ 1,578\\ 4,089\\ 4,089\\ 15,305\end{array}$	$\begin{array}{c} 1,496\\ 44,780\\ 1,670\\ 2,329\\ 2,329\\ 2,3706\\ 23,706\\ 23,706\\ 23,706\\ 33,706\\ 50,425\\\end{array}$
erson [*] 187 erson [*] 187 291 233 2339 2339 1605 1605 2,464 401 14,924 1401 14,924	4 181 6 282 5 1.554 8 2.386 8 2.386 8 2.386 8 2.386 8 2.386 8 2.386 9 1.554 8 2.386 9 1.442 6 14,442 dairies or or ion of Gra g. Sept.		182 284 284 284 284 284 284 284 284 284 2	192 239 2,529 1,647 2,529 4,218 1,5,241 15,241 uded in Mon Mon	196 306 2,431 1,700 2,603 4,356 4,356 1,700 2,603 4,356 1,700 1,500 1,700 1,000 1,700 1,000 1,000 1,700 1,0000 1,000 1,0000 1,0000 1,000 1,000 1,0000 1,00000000	188 2,312 1,584 2,453 4,085 4,085 1,5844 1,5844 1,5844 1,5844 1,5844 1,5844 1,5844 1,5844 1,5844 1,584	209 2.612 1.744 2.723 4.493 4.493 16.330 only. Geograp		214 3605 36900 1,763 1,763 4,490 16,651 16,651 VI ,	202 346 1,578 2,688 4,089 - 15,305	2,329 3,706 3,706 3,659 50,425 50,425
tinau - +,110 kinson ^a - 14,924	6 14,442 6 14,442 dairies or ion of Gra		",002 	15,241 15,241 uded in counties, Mon Thousan	15,684 the state by mo ths	14,719 e totals niths: Feb.	16,330 only. Geograp		16,651 VI ,	15,305	100
	dairies or ion of Gra g. Sept.		are inclu ilk, by o Nov.	uded in counties, Mon Dec.	the state by mo aths Jan.	e totals nths: Feb.	only. Geograp		VI,		183,756
*Counties having three Grade A dairies or fewer	Se	A Dct.	ilk, by Nov.	counties , Mon Dec. Thousan	by mo iths Jan.	i i	Geograp		VI,		
Appendix Table 8. Estimated production 1956 - June 1957.		Oct.	Nov.	Mon Dec. Theusan	ths		14			Mississippi, July	oi, Jul
Geographic	-	Oct.	Nov.	Thousan			74				
area July Aug.				Theusan			Mar.	Apr.	May	June	Total
					Thousand pounds	s					
Covington 276 271 Formerat 1,049 1,035 Forrest 1,049 1,035 George 288 284 Groupe 101 100	$\begin{array}{cccc} 1 & 267 \\ 5 & 1,032 \\ 4 & 284 \\ 0 & 100 \end{array}$	$\begin{array}{c} 268 \\ 1,029 \\ 283 \\ 99 \end{array}$	$^{269}_{1,027}$ $^{282}_{99}$	$\begin{array}{c} 283\\ 1,072\\ 294\\ 103\end{array}$	$1,104 \\ 301 \\ 106$	1,059 104	$1,187 \\ 304 \\ 330 \\ 330 \\ 116$	$ \begin{array}{c} 310 \\ 1.235 \\ 348 \\ 123 \\ 123 \end{array} $	$ \begin{array}{c} 313\\ 1,165\\ 341\\ 122 \end{array} $	1,045 310 111	3,422 13,039 3,639 1,284
		824 332 352	822 332 852	858 346	880 356	862 348	955 398 304	1,021 407	1,017 406	925 371	10,658 4,302 2,310
i i i	r r	1,454 335 1,716 546 546	1,451 335 1,714 1,714 545 545	1,514 354 1,788 568 568	1,559 377 1,840 87 591	1,490 329 1,785 543 543 543	1,676 365 365 2,005 91 596 596	$\begin{array}{c} 1.751\\ 371\\ 371\\ 2.102\\ 88\\ 623\\ 623\\ 904\end{array}$	1,651 369 2,122 83 630 630	1,476 346 1,960 74 582 582	22,231 4,198 22,231 6,877 6,877
101 7,556 7,	7,	7,403	7,393	7,720	7,959	7,617	8,474	8,884	8,705	7,942	94,525
Other counties [*] 106 104	14 I01	102	103	107	109	103	119	123	121	109	1,307
State Total 52,162 51,447	7 50,768	50,904	50,792	53,263	54,925	51,996	57,964	61,105	61,608	56,138	653,072
Percent of total 7.98 7.88	8 7.77	7.79	7.78	8.16	8.41	7.96	8.88	9.36	9.43	8.60	100.0

*Estimated production for all counties with three Grade A dairies or fewer.

			Geograph	nic areas			1
Month	I	11	III	IV	V	VI	Total
				Pounds			
July	8,258	9,651	4,597	6,184	14,476	7,329	50,597
August	8,097	9,555	4,571	6,119	14,236	7,227	49,904
September	7,944	9,451	4,463	6,081	14,009	7,199	49,245
October	7,972	9,529	4,463	ថ,083	14,049	7,181	49,377
November	7,965	9,453	4,481	6,043	14,055	7,171	49,268
December	8,401	9,881	4,705	6,301	14,784	7,488	51,665
January	8,752	10,167	4,843	6,476	15,213	7,720	53,277
February	8,337	9,704	4,538	6,092	14,277	7,388	50,436
March	9,322	10,833	5,085	6,810	15,840	8,220	56,225
April	9,959	11,572	5,426	7,272	16,306	8,617	59,272
May	10,294	11,996	5,489	7,268	16,151	8,444	59,760
June	9,425	10,744	5,105	6,525	14,846	7,704	54,454
Total	104,725	122,534	57,766	77,254	178,243	91,689	633,480**

Appendix Table 9. Estimated volume of Grade A milk sold*, by producers, by geographic areas, by months: Mississippi, July 1956 - June 1957.

*It is estimated from Grade A dairy survey reports that approximately 97 percent of the total Grade A milk production was sold to fluid milk handlers.

**Includes 1,267 thousand pounds sold by counties that reported less than four dairies and not included in the area totals.