

### THE INSTITUTE OF PAPER CHEMISTRY

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Appleton, Wisconsin

PRODUCTION DATA REPORT

Project 1108-13

Supplementary Report Twenty-nine

to

### FOURDRINIER KRAFT BOARD INSTITUTE, INC.

February 1, 1960

### THE INSTITUTE OF PAPER CHEMISTRY

### Appleton, Wisconsin

The production data contained herein represent the production of linerboard as reported by the following Fourdrinier Kraft Board Institute member mills for the fourth quarter of 1959:

The Chesapeake Corporation of Virginia

Continental Can Company, Inc.

Gaylord Container Corporation, Division of Crown Zellerbach Corporation

Georgia Kraft Company

International Paper Company

North Carolina Pulp Co. & Kieckhefer Container Co.

Olin Mathieson Chemical Corp., Forest Products Division

Owens-Illinois Glass Company, Mill Division

St. Joe Paper Company

St. Regis Paper Company

Southern Paperboard Corporation

Union Bag-Camp Paper Corporation

West Virginia Pulp and Paper Company

As in previous reports, the data have been tabulated according to (1) total production by quarters and (2) production by grades by quarters. The total production data by quarters for 1959 are given in Table I together with, for purposes of comparison, the total production data by quarters for 1956, 1957, and 1958. The total production data by quarters for 1956 through 1959 are illustrated graphically in Figure 1.

Production data on a quarterly basis for 1958 and 1959 are shown in Table II for the major grades and in Table III for all grades. In

# Supplementary Report Twenty-nine

Table IV the percentage of total production which each grade represents is given on a quarterly basis for 1958 and 1959. These percentage figures for each grade are based on the total production per quarter computed separately with the miscellaneous figure included and with the miscellaneous figure excluded. The current tonnage data for the major grades--namely, 26 lb., 33 lb., 38 lb., 42 lb., 47 lb., 69 lb., 90 lb., and miscellaneous--are illustrated graphically in Figure 2 through 9, respectively, on a quarterly basis from 1956 through 1959. Also shown in Figures 2 through 9 is the percentage of total production which each major grade represents.

In order to give a better perspective of the above data, the tonnages for the major grades have been plotted on a semi-logarithmic scale (see Figure 10) for the purpose of comparing the change in production of these grades. A useful measure is the "percentage change" which is defined as the change in production in tons for the present quarter divided by the tonnage level of the previous quarter. The advantage of semi-log graphs in this case is that the "percentage change" may be compared readily even though the magnitude of the tonnage levels may be vastly different. When two lines are parallel (regardless of magnitude), the "percentage change" of these two items is the same. When two lines are not parallel, the one with the greater (steeper) slope has the higher "percentage change."

There are numerous comparisons which may be of interest, some of which are the following:

1. The total production of all grades for the fourth quarter of 1959 was 1,007,280 tons. It may be noted in Table I that production exceeded one

# Supplementary Report Twenty-nine

million tons for each of the three last quarters of 1959 and total production for the year exceeded four million tons for the first time since the inception of these reports in 1953.

2. Compared with the tonnages for the third quarter of 1959, fourth quarter tonnages of all major grades except 47 lb., 69 lb., and miscellaneous decreased. It may be noted in Table II that the greatest percentage increase in production for a major grade during 1959 was associated with the miscellaneous grade.

#### TABLE I

#### TOTAL TONNAGE OF ALL GRADES

	1956	1957	1958	1959
lst Quarter	97 <b>2,</b> 607	93 <b>2,</b> 706	836,013	90 <b>2,</b> 850
2nd Quarter	995 <b>,2</b> 65	946,959	793,764	1,013,064
3rd Quarter	959,66 <b>2</b>	924,262	919, 5 <b>20</b>	1,086,571
4th Quarter	<u>952,295</u>	<u>914,979</u>	<u>940.090</u>	<u>1,007,280</u>
Total	3,879,829	3,718,906	3,489,387	4,009,765

Page 3

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Page 4 Supplementary Report Twenty-nine

### TABLE II

### TONNAGE OF MAJOR GRADES BY QUARTERS FOR 1958 AND 1959

### <u> 1958</u>

Grade	lst Quarter	2nd Quarter	3rd Quarter	4th Quarter
26 lb.	41,837	48 <b>,</b> 393	50,598	5 <b>2,</b> 946
33 lb.	49,694	5 <b>2,</b> 791	58,904	58,951
38 lb.	90,207	8 <b>2,</b> 493	108,398	94,499
42 lb.	363,902	<b>322,</b> 583	383,150	399,133
47 lb.	20,870	18,322	19,339	19,741
69 lb.	116,068	101,638	103,106	136,396
90 lb.	50 <b>,32</b> 5	41 <b>,</b> 145	62,951	60,976
Misc.	78 <b>,2</b> 44	95 <b>,</b> 493	91,419	90,689
		1959	2	
26 lb.	51,6 <b>2</b> 1	58,875	68 <b>, 52</b> 4	50,098
33 lb.	60,863	70,19 <b>2</b>	72,824	58,175
38 lb.	84,859	100,366	103,065	89,433
42 lb.	402,410	4 <b>2</b> 8,855	471,099	411,105
47 lb.	22,662	20,212	22,078	<b>22,</b> 581
69 lb.	130,840	135,644	124,987	130,795
90 lb.	59,537	67,8 <b>2</b> 8	66,338	61,407
Misc.	66,738	110,483	136,277	149,606

III	
TABLE	

TONNAGE OF ALL GRADES BY QUARTERS FOR 1958 AND 1959

	4th Qtr.	50,098  640 9,274 58,175 170	1,407 89,433 61 411,105	9,773 22,581 692 53 678	25 214 33 214 214 214 49	130 <b>,</b> 795 
	3rd Qtr.	68, 524  340 1,612 863 72,824 276	1,217 103,065 471,099 274	11,026 22,078 71 967 909 82	221 221 37 626 28 28	124, 987 19 351
0201	2nd Qtr.	58,875 64 363 1,214 70,192	140 100,366 128,855	13,479 20,212 476 1,144	25 168 113 2,395 45	135,644  
	lst Qtr.	51,621 	  84,859 402,410	13,720 22,662  176 495 	27 81 3,338 56	130,840 
	4th Qtr.	52,946  268 892 851 58,951	103  94,499 399,133	12,502 19,741 888 352	65 65 10,543 15	136 <b>,</b> 396 
1958	3rd Qtr.	50, 598  1, 206 1, 206 58, 904	14 14 108,398 383,150	12,170 19,339 467 743	26 28 88 16,787 1,760 1,760	103,106 5,740
	· 2nd Qtr.	48,393  1,462 1,166 52,791	82,493 322,583	14, 622 18, 322 750 355	 87 10,162 1,496	101,638  70
	lst <b>G</b> tr。	41,837 518 7,171 49,694	 47 90 <b>,2</b> 07 363,902	20,870 20,870 394 759	1, 199 1,182	106 <b>,</b> 068  
	Grade	26 16 27 16 28 16 33 16 33 16 34 16	35 lb. 36 lb. 37 lb. 38 lb. 41 lb. 42 lb. 43.5 lb.	45 1b. 47 1b. 48 1b. 50 1b. 51 1b. 53 1b. 53 1b.	55 lb. 56 lb. 61 lb. 62 lb. 64 lb. 65 lb.	69 1b. 72 1b. 75 1b.

Fourdrinier Kraft Board Institute, Inc. Project 1108-13

Supplementary Report Twenty-nine

Page 5

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TABLE
F.

TONNAGE OF ALL GRADES BY QUARTERS FOR 1958 AND 1959

3rd Qtr. 4th Qtr.	102 159 160 61,407 149,606
	  66,338 136,277
1959 Znd <b>G</b> tr.	 568 67,828 110,483
lst Gtr.	199  59,537 66,738
4th Qtr.	230  60,976 90,689
3rd Qtr。 4th Qtr。	275  646 62,951 91,419
1958 2nd <b>Q</b> tr.	  95,493
lst <b>G</b> tr。 2n	
Grade	76 lb. 82 lb. 85 lb. 90 lb. Misc.

Fourdrinier Kraft Board Institute, Inc. Project 1108-13

Page 6 Supplementary Report Twenty-nine

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		4th G With <sup>a</sup>	γ.0 0.1 8 8 9 0		40°8 0°1 500 0°1 500 0°1 500 0°1 500 0°1 500 0°5 0°5 0°5 0°5 0°5 0°5 0°5 0°5 0°5	
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BY EAC	1950	2nd Qtr With <sup>a</sup> out	v 00 800040	0°9 9°9	10   5   5   5   5   5   5   5   5   5	
SENTED		Qtr. With- out b-	2.22 2.22 2.22 2.22 2.22 2.22 2.22 2.2		48°1 1°66 1°60 1°60 1°60 1°60 1°60	
I REPRE		lst G With <sup>a</sup>	5.7 0.2 0.1 0.2 0.1 0.2	1°6	44 ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
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AL PROI		4th ( With <sup>a</sup>	6°9 0°1 0°1	10°1	48°5	
OF TOT		3rd Qtr. With- With <sup>a</sup> outb	6°1 0°1 1°0 1°0 1°0 1°0 1°0	13.1 13.1	46°3 1°5 1°5 0°1 0°1 0°1 0°1 0°1 0°1	
PERCENTAGE OF TOTAL PRODUCTION REPRESENTED BY EACH GRADE		3rd G With <sup>a</sup>	5°5 0°1 6°1		41°7 1°3 1°0 1°0 1°1 1°3 1°3 1°3 1°3 1°3 1°3 1°3 1°3 1°3	
	1958	Qtr. With-	6.9 0.1 7.6 2	°8 	46.2 2.1 2.5 0.1 0.1 0.1	
	-	2nd 9 With <sup>a</sup>	6°1 6°1 6°7		40.6 1-1.8 2.3 2.3 2.3 2.3 2.3 2.3 2.3 2.3 2.3 2.3	
		tr. With- out <sup>b</sup>	6.6 6.6	) ° ° ° )	48°0 2°8 0°1 0°1 1°1 1°1 1°1	
		lst Qtr. With <sup>a</sup> out	5.0 0.1 5.9	10,8 1	43.5 4 1-7 2.5 0.1 0.1	
		Grade	26 1b. 27 1b. 38 1b. 32 1b. 33 1b.	<b>3</b> 4 1b <b>.</b> 35 1b <b>.</b> 36 1b <b>.</b> 37 1b <b>.</b> 41 1b <b>.</b> 41 1b <b>.</b>	42 1b° 43.5 1b° 45 1b° 47 1b° 47 1b° 50 1b° 50 1b° 55 1b° 55 1b°	

TABLE IV

Page 7 Supplementary Report Twenty-nine

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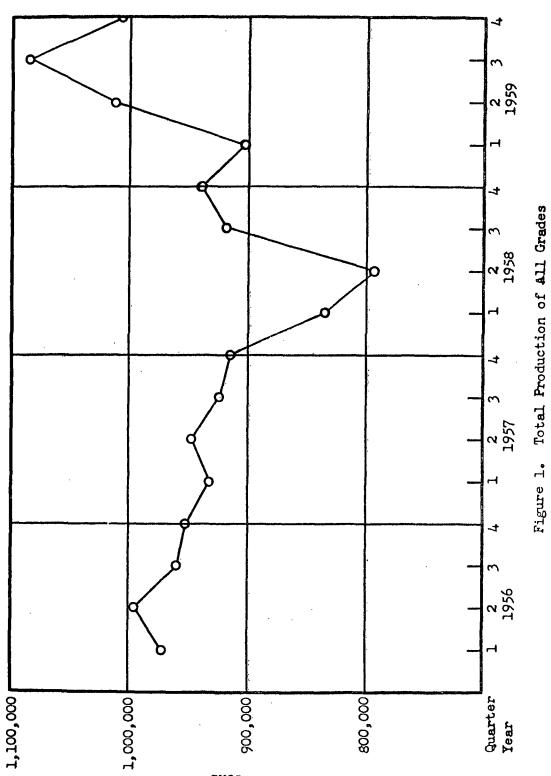
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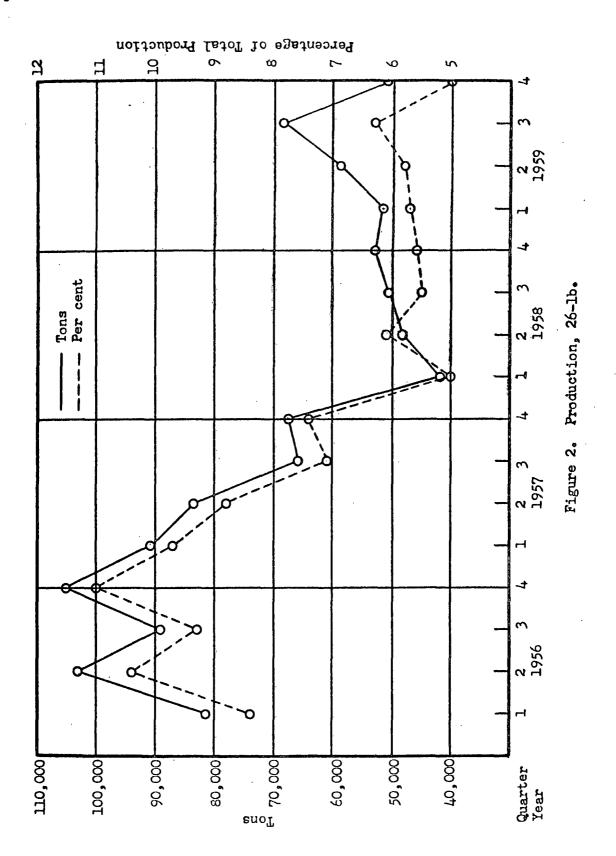
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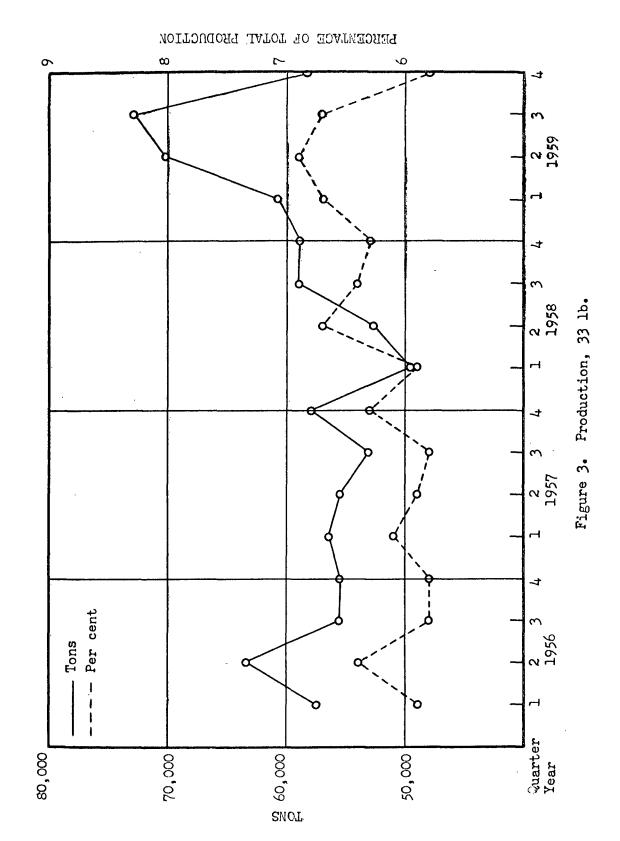


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Page 10

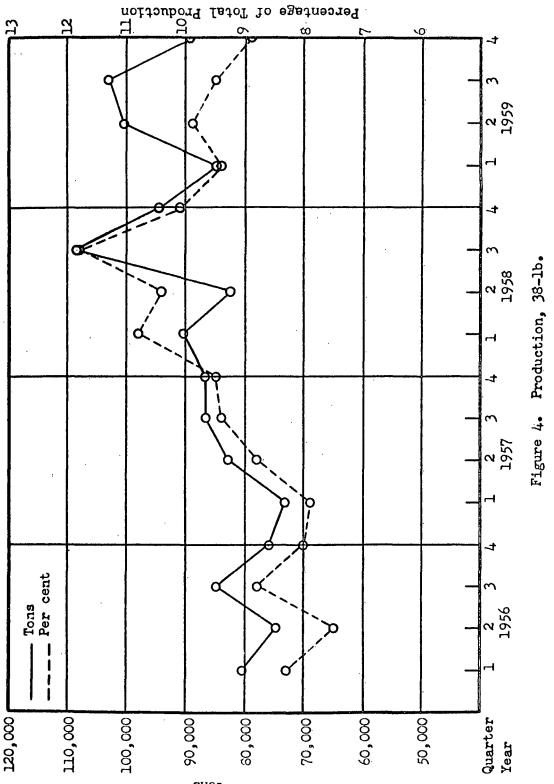
Page 11 Supplementary Report Twenty-nine



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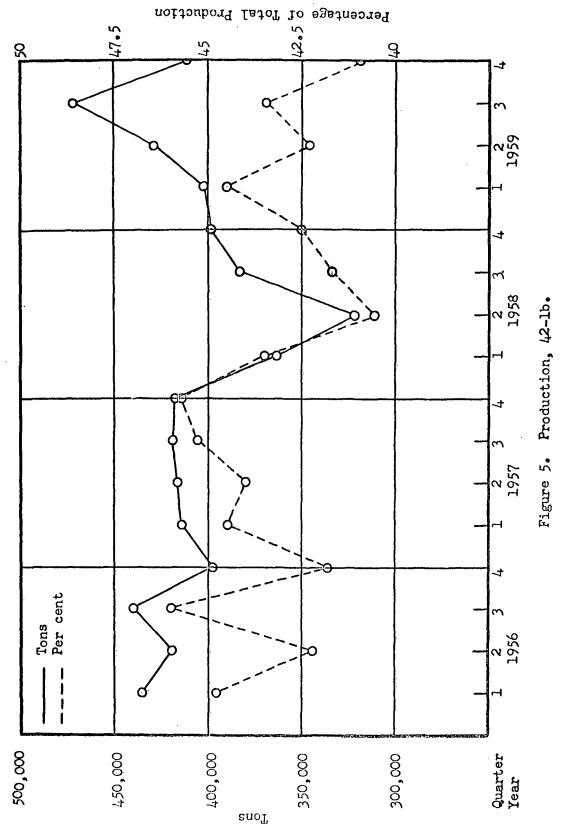
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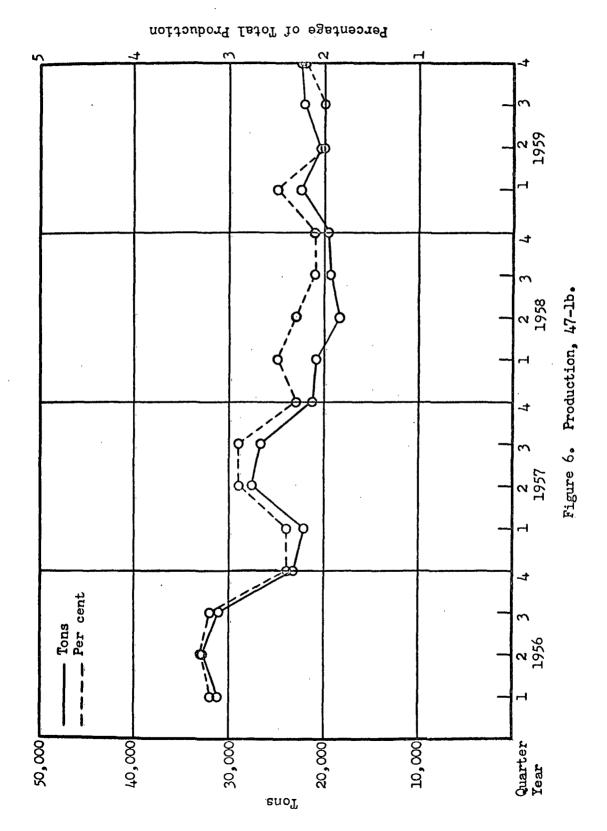
Page 13 Supplementary Report Twenty-nine

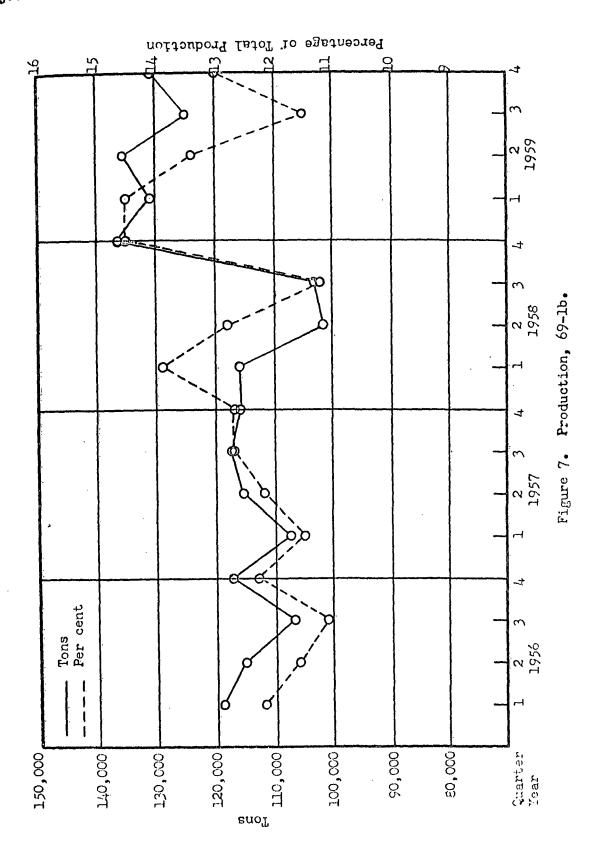


Page 14

Supplementary Report Twenty-nine

Fourdrinier Kraft Board Institute, Inc. Project 1108-13

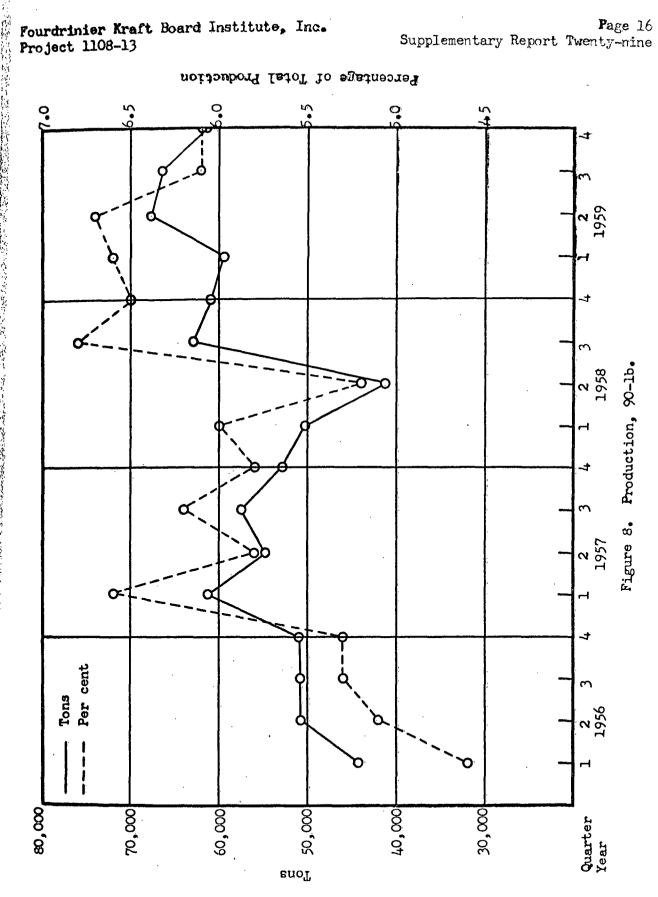




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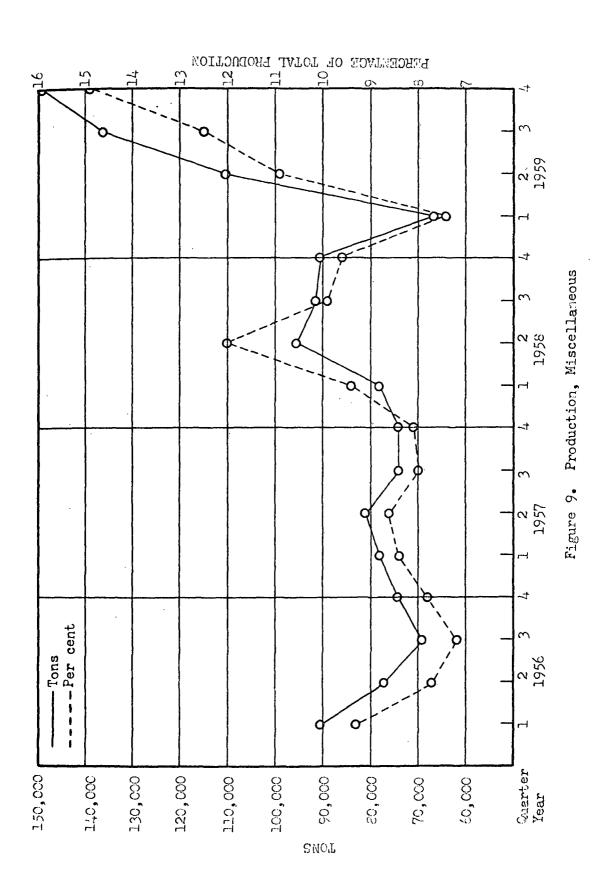
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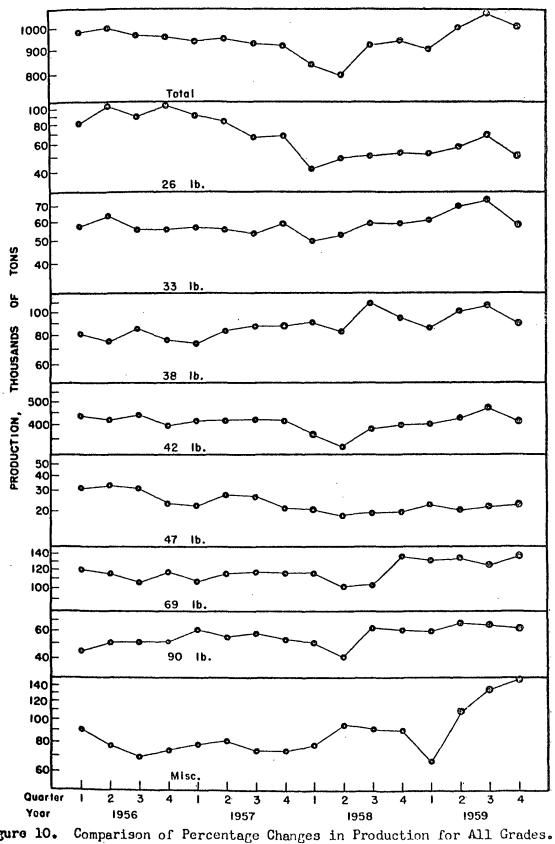
Supplementary Report Twenty-nine



Page 17 Supplementary Report Twenty-nine

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Figure 10.

Page 19 Supplementary Report Twenty-ning

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