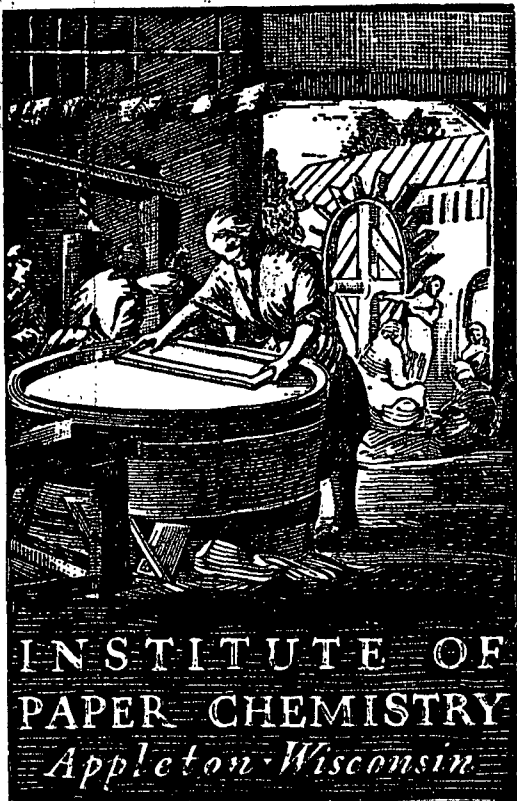


Institute of Paper Science and Technology  
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## PRODUCTION DATA REPORT

Project 1108-13

Supplementary Report Twenty-seven

to

FOURDRINIER KRAFT BOARD INSTITUTE, INC.

August 1, 1959

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 second 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 for the first and second quarters of 1959 are given in Table I together with, for purposes of comparison, the total quarterly production data for 1956, 1957, and 1958. The total production data by quarters from 1956 to the present are illustrated graphically in Figure 1.

Production data on a quarterly basis for 1958 and 1959 to date are shown in Table II for the major grades and in Table III for all grades. In Table IV the percentage of total production which each grade represents is given on a quarterly basis for 1958 and 1959 to date. 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 Figures 2 through 9, respectively, on a quarterly basis from 1956 to the present quarter. 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 second quarter of 1959 was 1,013,064 tons and was the highest quarterly tonnage recorded since the inception of these reports in 1953. (See Table I.)
2. Compared with the tonnages for the first quarter of 1959, tonnages of all grades except 47 lb. were higher during the second quarter. (See Table II.)

TABLE I

TOTAL TONNAGE OF ALL GRADES

	1956	1957	1958	1959
1st Quarter	972,607	932,706	836,013	902,850
2nd Quarter	995,265	946,959	793,764	1,013,064
3rd Quarter	959,662	924,262	919,520	
4th Quarter	<u>952,295</u>	<u>914,979</u>	<u>940,090</u>	<u>          </u>
Total	3,879,829	3,718,906	3,489,387	

TABLE II

TONNAGE OF MAJOR GRADES BY QUARTERS FOR 1958 AND 1959

Grade	1st Quarter	<u>1958</u>		
		2nd Quarter	3rd Quarter	4th Quarter
26 lb.	41,837	48,393	50,598	52,946
33 lb.	49,694	52,791	58,904	58,951
38 lb.	90,207	82,493	108,398	94,499
42 lb.	363,902	322,583	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.	50,325	41,145	62,951	60,976
Misc.	78,244	95,493	91,419	90,689
		<u>1959</u>		
26 lb.	51,621	58,875		
33 lb.	60,863	70,192		
38 lb.	84,859	100,366		
42 lb.	402,410	428,855		
47 lb.	22,662	20,212		
69 lb.	130,840	135,644		
90 lb.	59,537	67,828		
Misc.	66,738	110,483		



TABLE III--CONTINUED  
 TONNAGE OF ALL GRADES BY QUARTERS FOR 1958 AND 1959

Grade	1958				1959			
	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.
69 lb.	116,068	101,638	103,106	136,396	130,840	135,644		
72 lb.	--	--	--	--	--	--		
75 lb.	--	70	5,740	--	--	--		
76 lb.	--	--	275	230	199	--		
80 lb.	--	--	--	--	--	--		
85 lb.	--	--	646	--	712	568		
90 lb.	50,325	41,145	62,951	60,976	59,537	67,828		
Misc.	78,244	95,493	91,419	90,689	66,738	110,483		

TABLE IV  
PERCENTAGE OF TOTAL PRODUCTION REPRESENTED BY EACH GRADE

Grade	1958				1959									
	2nd Qtr.		3rd Qtr.		4th Qtr.		1st Qtr.		2nd Qtr.		3rd Qtr.		4th Qtr.	
	With <sup>a</sup>	With- <sup>b</sup> out	With <sup>a</sup>	With- <sup>b</sup> out	With <sup>a</sup>	With- <sup>b</sup> out	With <sup>a</sup>	With- <sup>b</sup> out	With <sup>a</sup>	With- <sup>b</sup> out	With <sup>a</sup>	With- <sup>b</sup> out	With <sup>a</sup>	With- <sup>b</sup> out
26 lb.	5.0	5.5	6.1	6.9	5.5	6.1	5.6	6.2	5.7	6.2	5.8	6.5		
27 lb.														
28 lb.	0.1	0.1	0.1	0.1	0.1	0.1	c	c	0.2	0.2	c	c		
30 lb.	0.9	0.9	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	c	c		
31 lb.														
32 lb.			0.1	0.2	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1		
33 lb.	5.9	6.6	6.7	7.6	6.4	7.1	6.3	6.9	6.7	7.3	6.9	7.8		
34 lb.														
35 lb.														
36 lb.	c	c			c	c					c	c		
37 lb.														
38 lb.	10.8	11.9	10.4	11.8	11.8	13.1	10.1	11.1	9.4	10.1	9.9	11.1		
40 lb.														
42 lb.	43.5	48.0	40.6	46.2	41.7	46.3	42.5	47.0	44.5	48.1	42.3	47.5		
43.5 lb.														
44 lb.														
45 lb.	1.7	1.9	1.8	2.1	1.3	1.5	1.3	1.5	1.5	1.6	1.3	1.5		
46 lb.														
47 lb.	2.5	2.8	2.3	2.6	2.1	2.3	2.1	2.3	2.5	2.7	2.0	2.2		
50 lb.	c	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	c	0.1		
51 lb.														
52 lb.	0.1	0.1	c	0.1	0.1	0.1	c	c	0.1	0.1	0.1	0.1		
55 lb.														
56 lb.														
59 lb.														
60 lb.	c	c	c	c	c	c								
62 lb.			1.3	1.5	1.8	2.0								

Notes: See the following page.

TABLE IV--CONTINUED

PERCENTAGE OF TOTAL PRODUCTION REPRESENTED BY EACH GRADE

Grade	1958				1959			
	1st Qtr. With <sup>a</sup> out <sup>b</sup>	2nd Qtr. With <sup>a</sup> out <sup>b</sup>	3rd Qtr. With <sup>a</sup> out <sup>b</sup>	4th Qtr. With <sup>a</sup> out <sup>b</sup>	1st Qtr. With <sup>a</sup> out <sup>b</sup>	2nd Qtr. With <sup>a</sup> out <sup>b</sup>	3rd Qtr. With <sup>a</sup> out <sup>b</sup>	4th Qtr. With <sup>a</sup> out <sup>b</sup>
64 lb.	0.1	0.2	0.2	1.1	0.4	0.4	0.2	0.3
65 lb.	--	c	c	c	c	c	c	c
67 lb.	--	--	--	--	--	--	--	--
69 lb.	13.9	15.3	12.8	14.6	11.2	12.5	13.4	15.0
72 lb.	--	--	--	--	--	--	--	--
75 lb.	--	c	c	0.6	0.7	--	--	--
76 lb.	--	--	c	c	c	c	--	--
80 lb.	--	--	--	--	--	--	--	--
85 lb.	--	--	0.1	0.1	0.1	0.1	0.1	0.1
90 lb.	6.0	6.6	5.2	5.9	6.8	7.6	6.7	7.5
Misc.	9.4	12.0	9.9	9.6	7.4	10.9	10.9	10.9

<sup>a</sup> Percentage based on the total production of all grades including miscellaneous.

<sup>b</sup> Percentage based on the total production of all grades excluding miscellaneous.

<sup>c</sup> Less than one-tenth of one per cent after being rounded off.

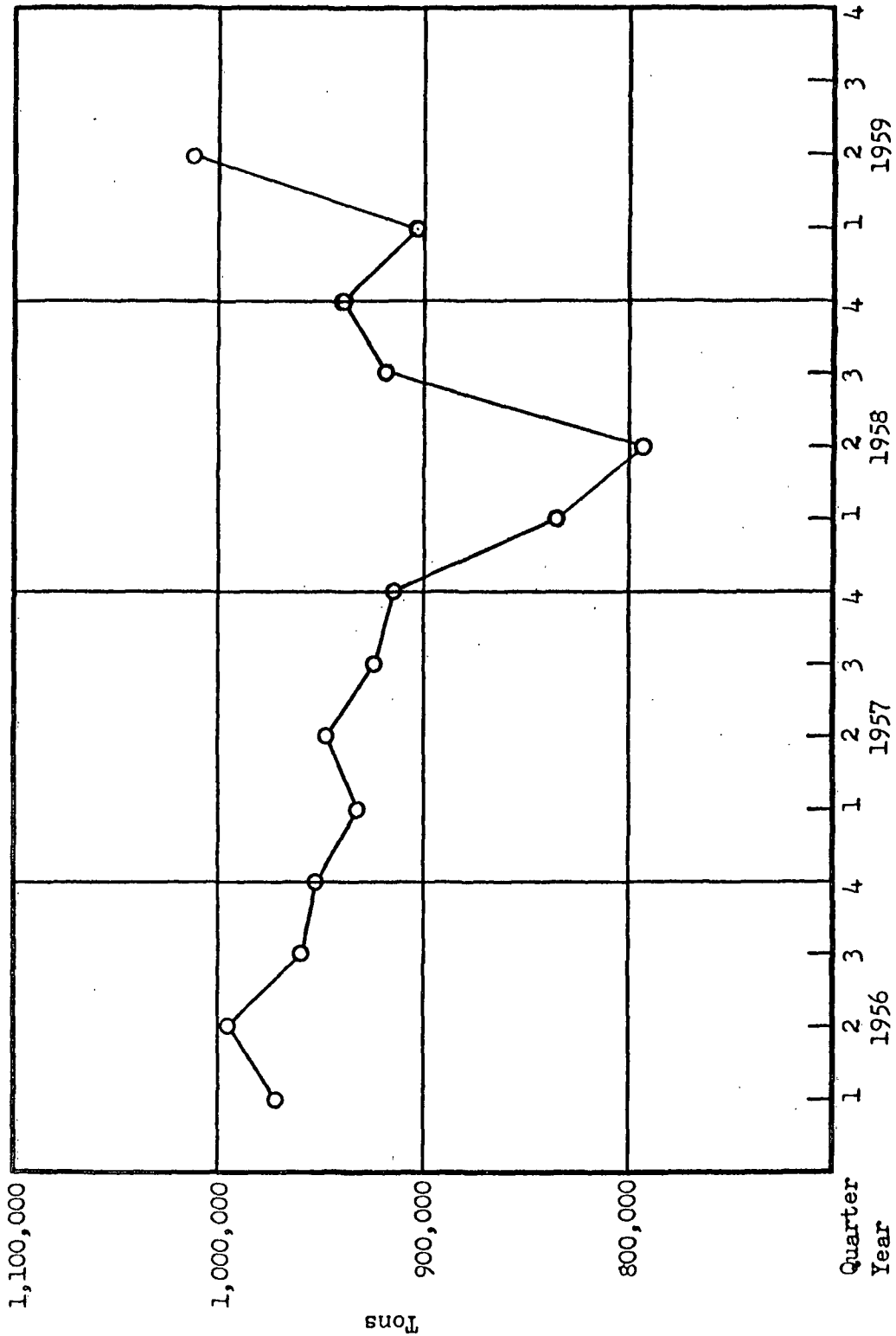


Figure 1. Total Production of All Grades

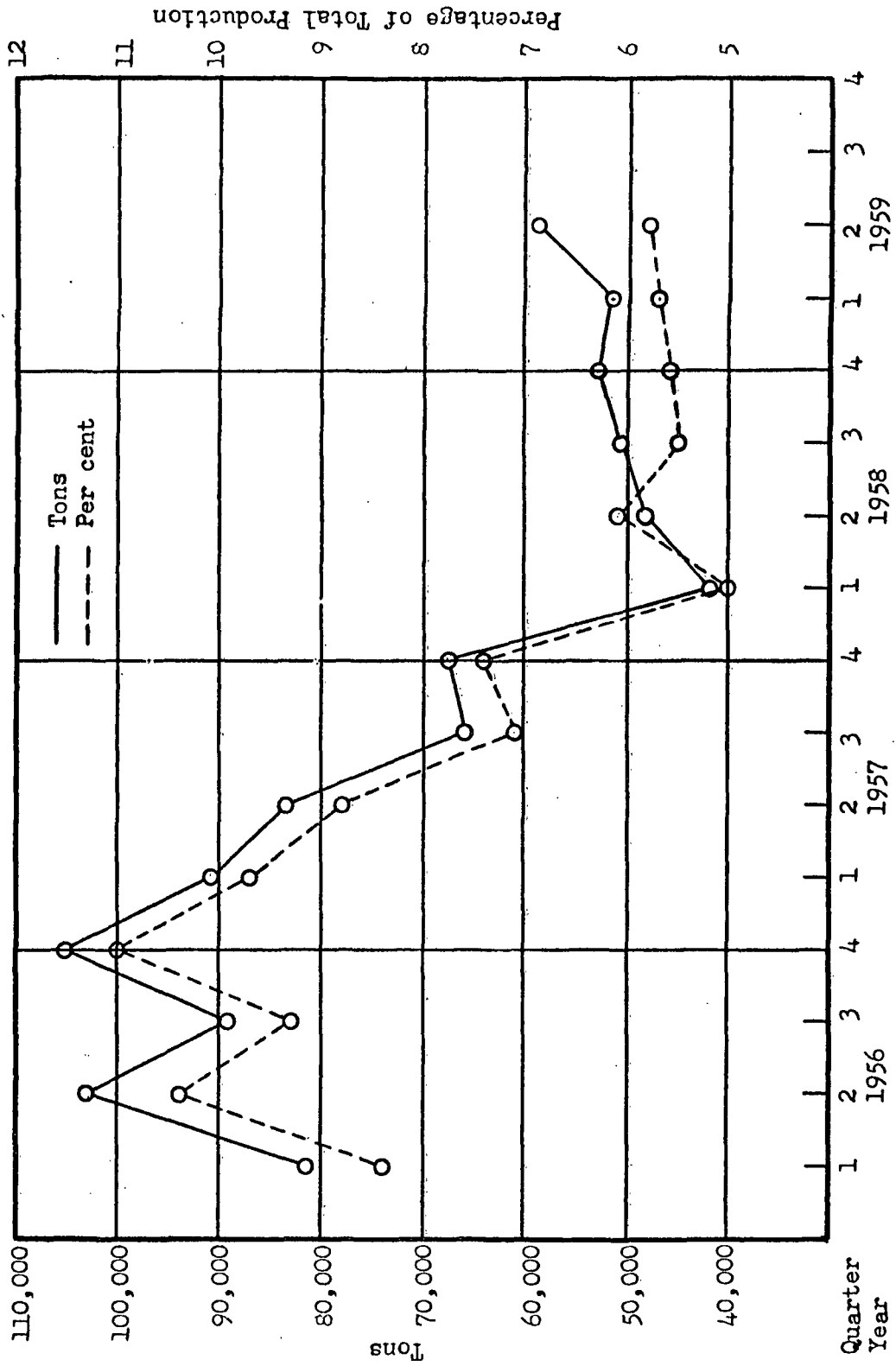


Figure 2. Production, 26-lb.

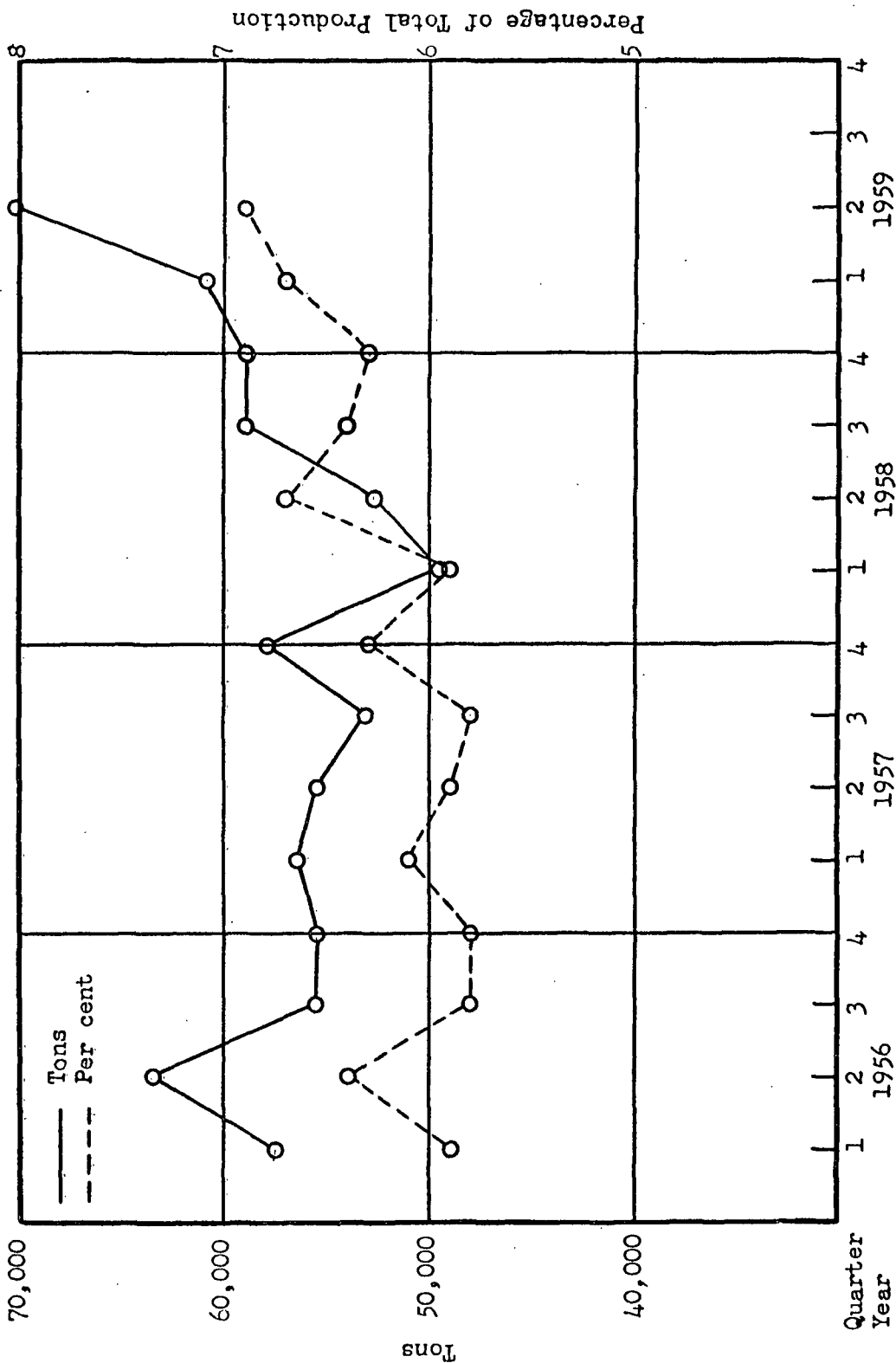


Figure 3. Production, 33-lb.

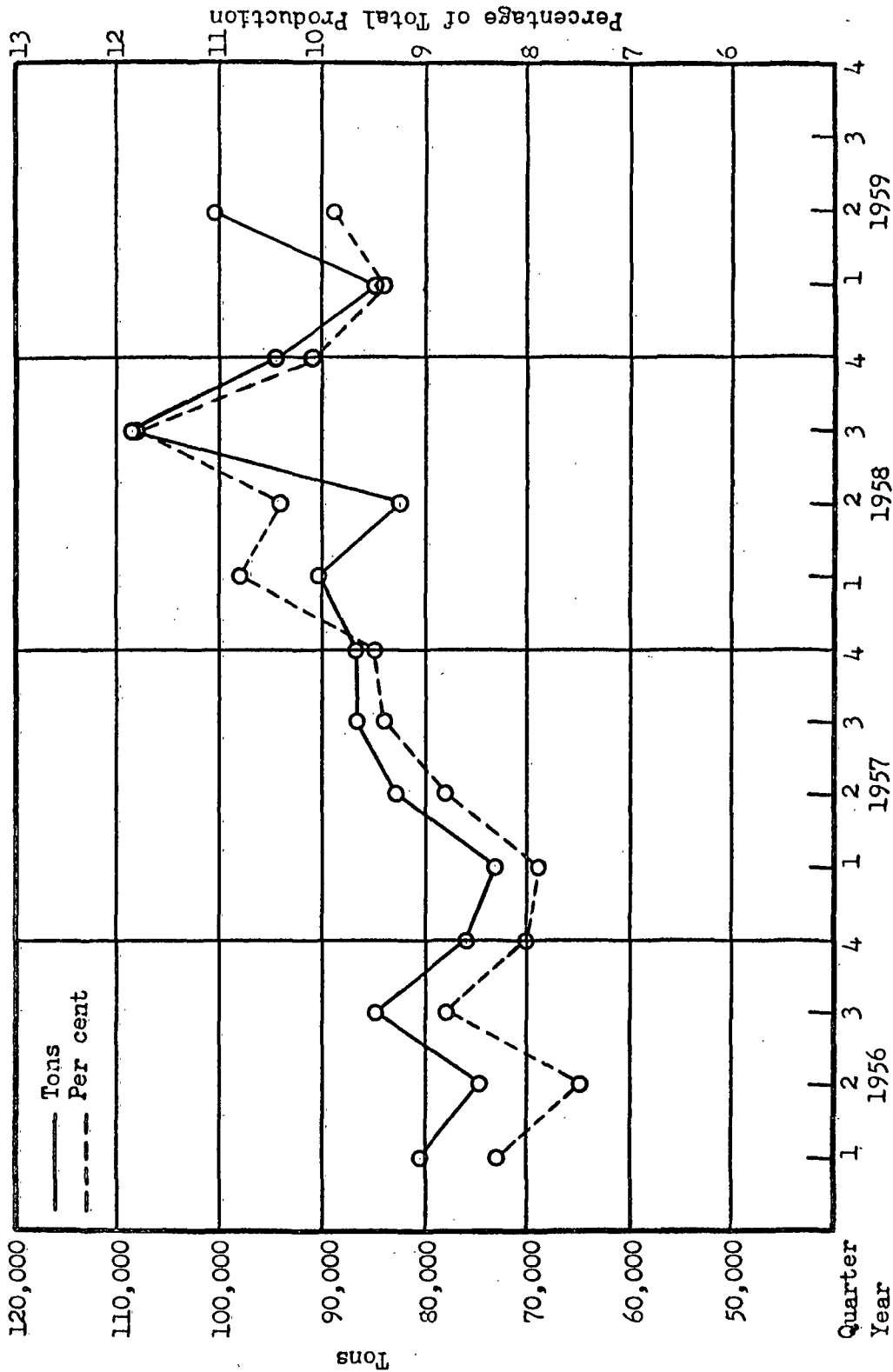


Figure 4. Production, 38-lb.

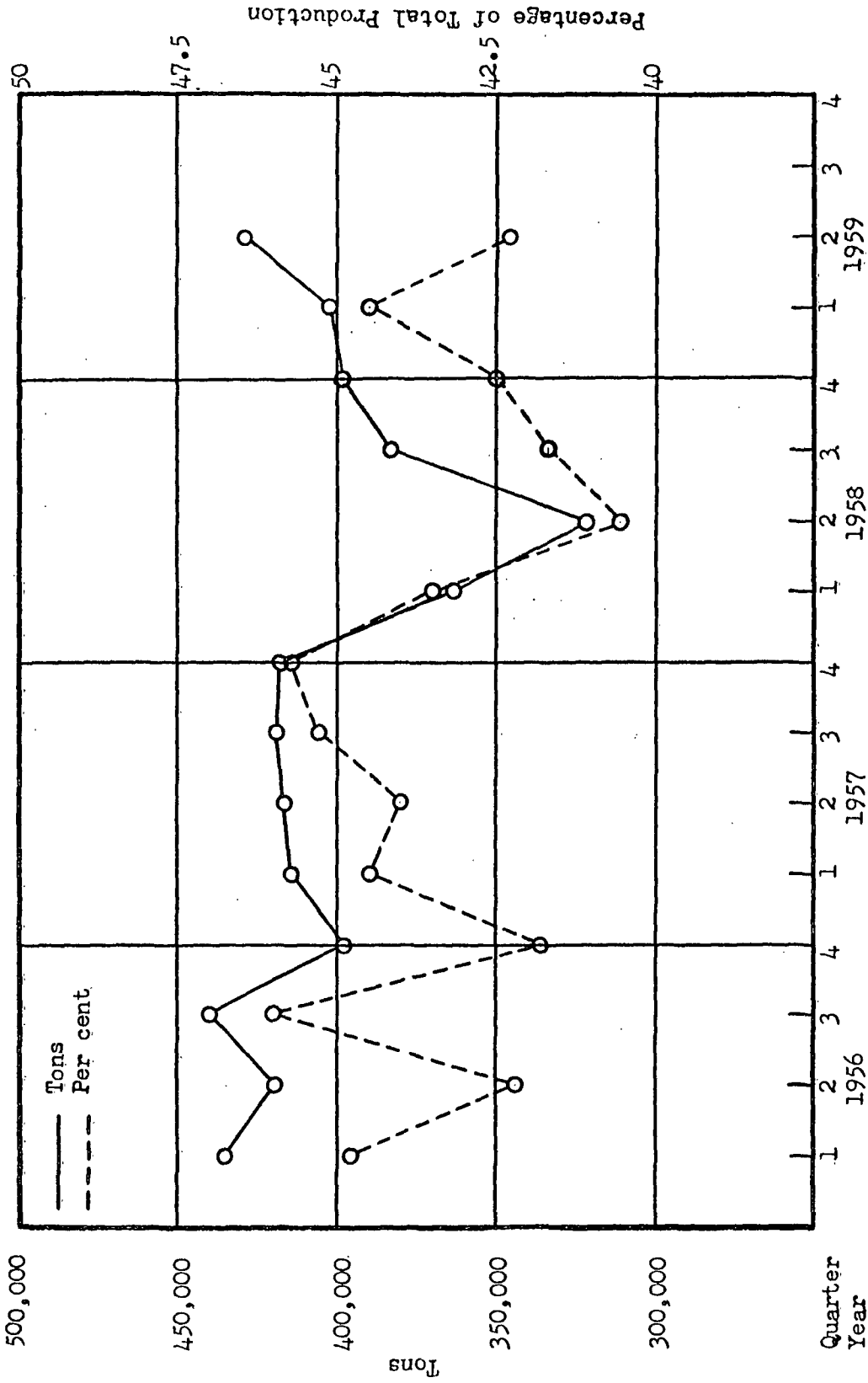


Figure 5. Production, 42-lb.

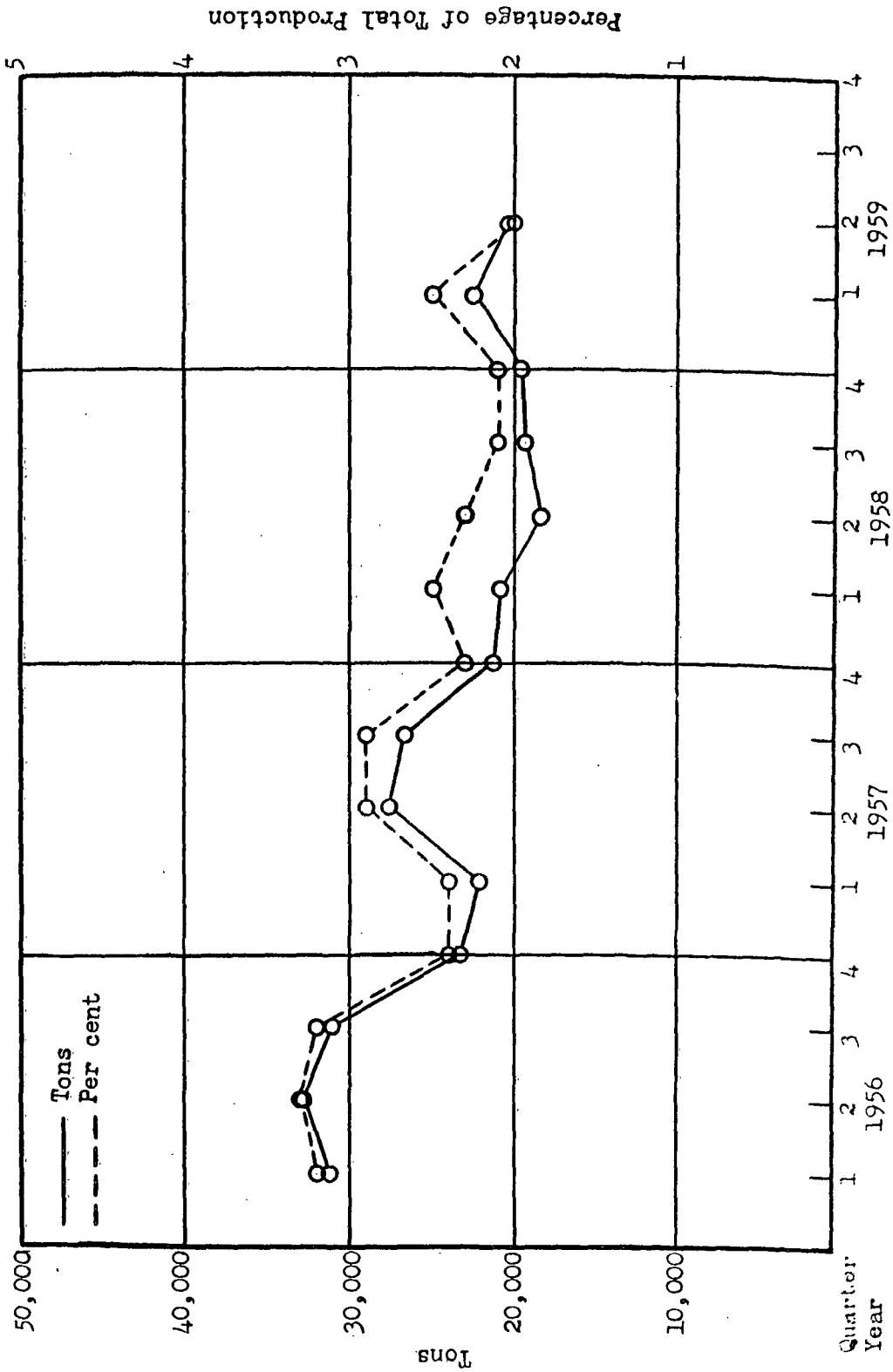


Figure 6. Production, 47-lb.

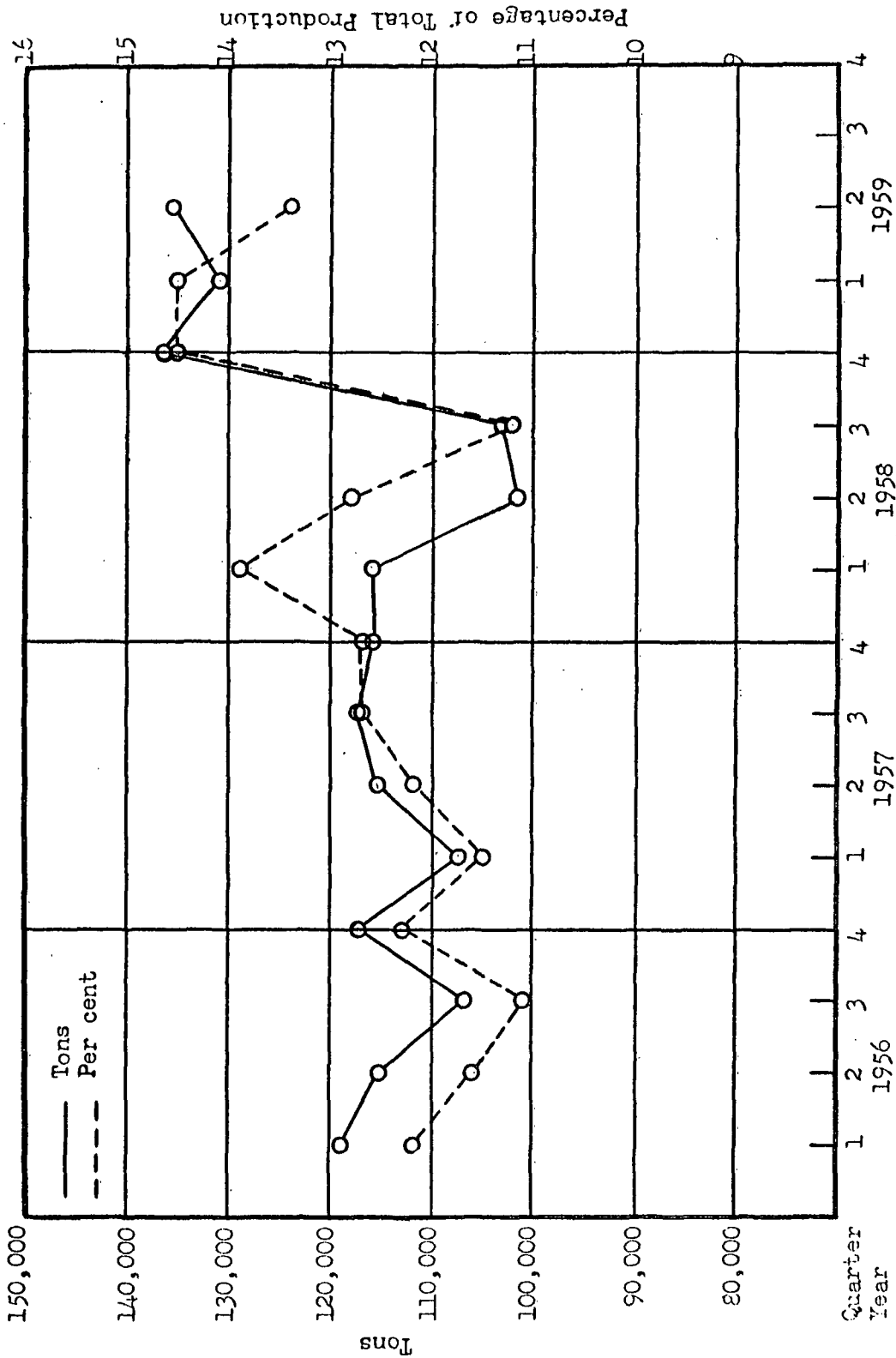


Figure 7. Production, 69-lb.

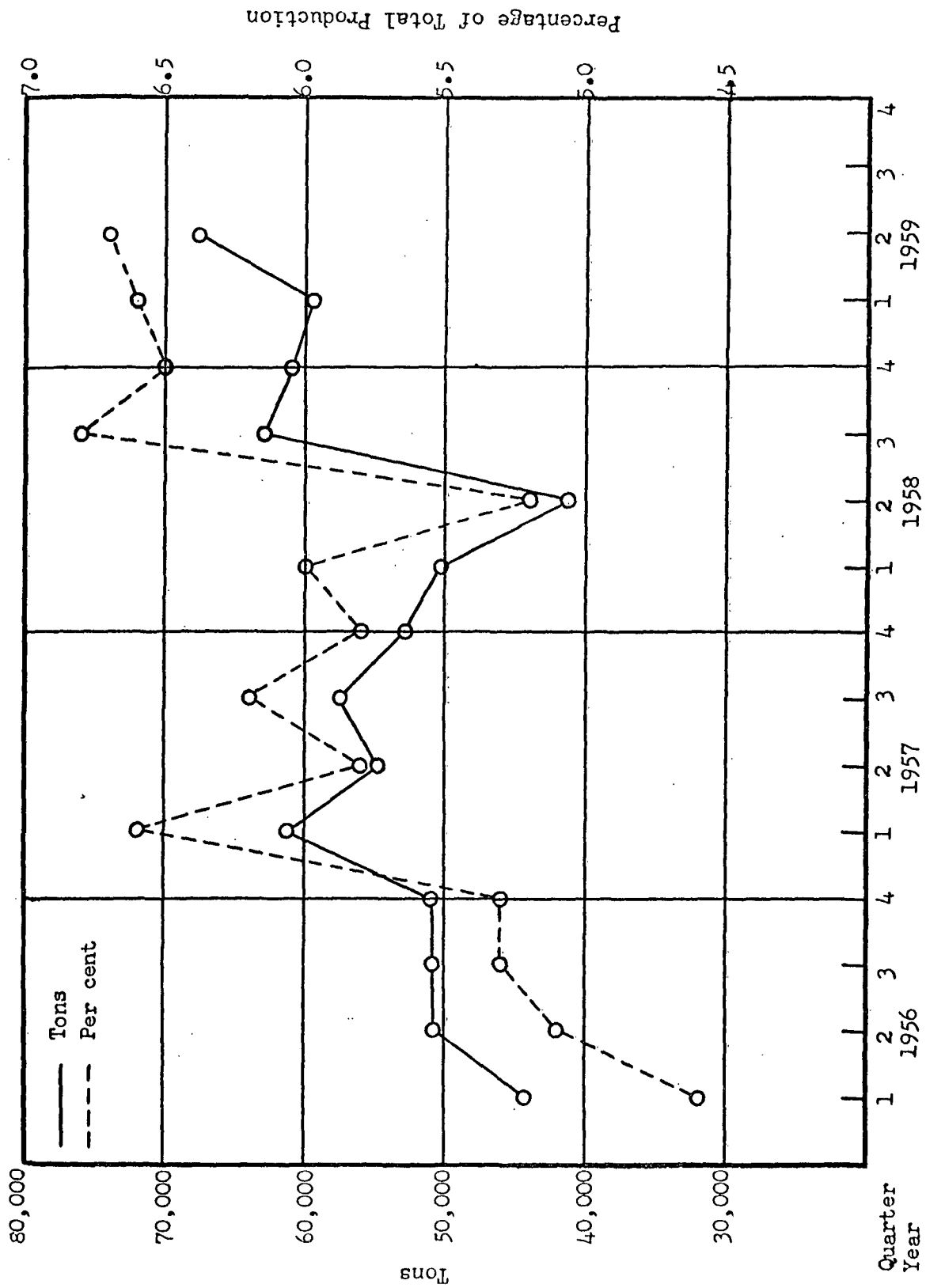


Figure 8. Production, 90-lb.

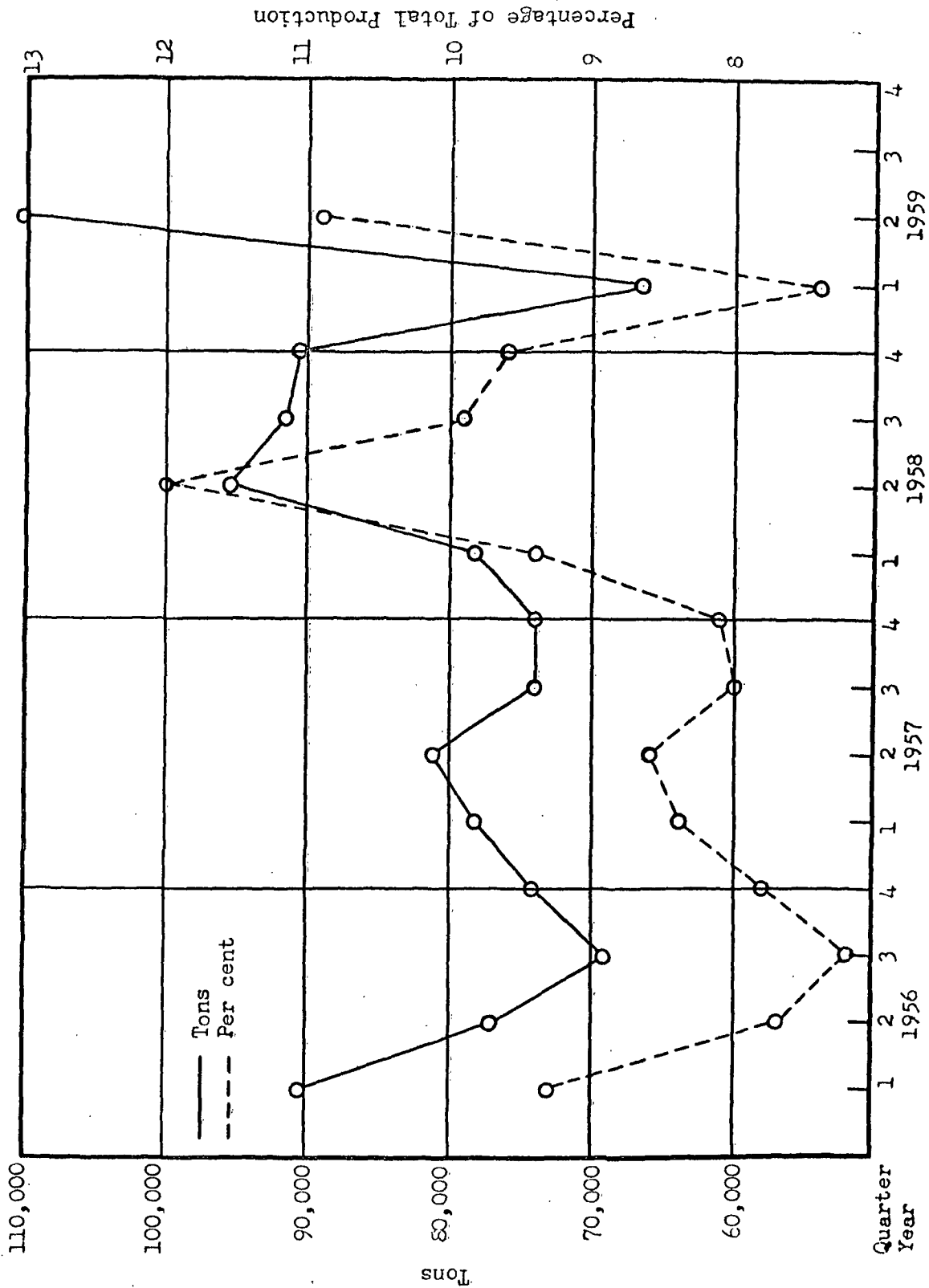


Figure 9. Production, Miscellaneous

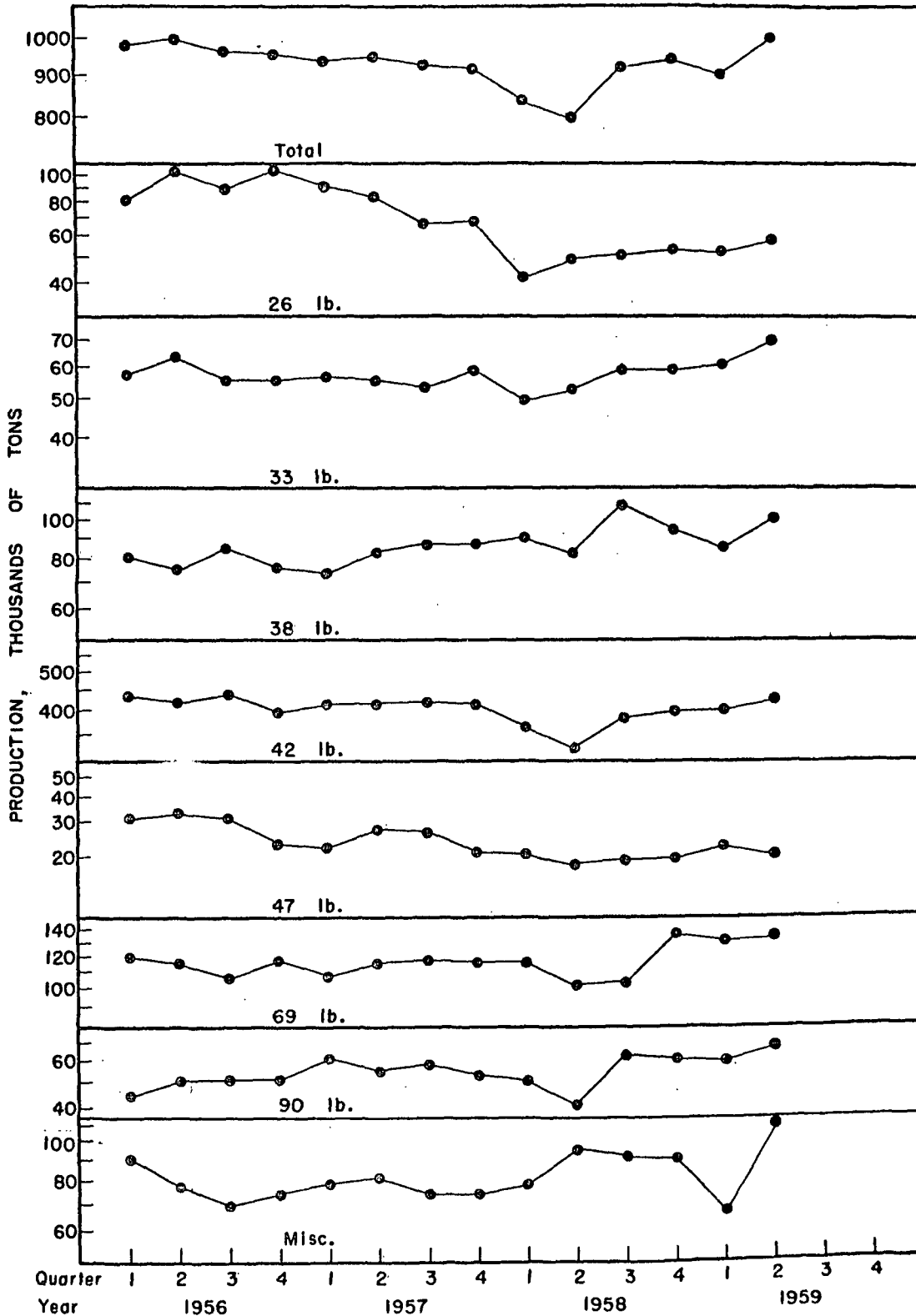


Figure 10. Comparison of Percentage Changes in Production for All Grades.

THE INSTITUTE OF PAPER CHEMISTRY

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