

PRODUCTION DATA REPORT

Project 1108-13

Supplementary Report Fifteen

to

FOURDRINIER KRAFT BOARD INSTITUTE, INC.

August 1, 1956

THE INSTITUTE OF PAPER CHEMISTRY

Appleton, Wisconsin

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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 1956:

The Chesapeake Corporation of Virginia
Continental Can Company, Inc.
Gaylord Container Corporation
Georgia Kraft Company
International Paper Company
National Container Corporation
North Carolina Pulp Co. & Kieckhefer Container Co.
Olin Mathieson Chemical Corp., Forest Products Division
St. Joe Paper Company
St. Regis Paper Company
Southern Paperboard Corporation
Union Bag and 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 for the second quarter of 1956 is given in Table I and graphically illustrated in Fig. 1. For purposes of comparison, the production for 1954 and 1955 is also included in Table I. The total

production of all grades is presented graphically in Figure 1 by quarters. The production by grades may be seen in Table II for the current quarter, together with the corresponding tonnages for the previous four quarters. In addition, percentage production by grades is given in Table III for the current quarter and the previous four quarters. These figures 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, together with the production for the previous quarters. Also shown in Figures 2 through 9 is the percentage of total production which each 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 Fig. 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 a number of comparisons which may be of interest.

Some of these are the following:

1. The figure for total production increased from the previous high of 972.6 thousand tons for the first quarter of 1956 to a new record figure of 995.3 thousand tons for the second quarter of 1956.

2. The tonnages of all major grades for the first and second quarter of 1956 are shown below. Compared with the first quarter production of the corresponding grades, production of the following grades increased during the second quarter: 26-lb., 33-lb., 47-lb., and 90-lb.; whereas production of 38-lb., 42-lb., and 69-lb. decreased.

Grade	1956	
	First Quarter	Second Quarter
26 lb.	81,469	103,099
33 lb.	57,527	63,488
38 lb.	80,502	74,730
42 lb.	435,893	419,538
47 lb.	31,235	32,937
69 lb.	119,016	115,284
90 lb.	14,297	50,820

3. The tonnage of miscellaneous linerboard decreased from 90,436 for the first quarter to 77,131 for the second quarter of 1956.

TABLE I
 TOTAL PRODUCTION OF ALL GRADES

	1954	1955	1956
1st quarter	720,954	886,487	972,607
2nd quarter	770,597	945,631	995,265
3rd quarter	765,742	965,247	
4th quarter	853,434	959,008	
Total	3,110,727	3,756,373	

TABLE II
 TOTAL TONNAGE BY GRADE

	26-lb.	27-lb.	28-lb.	30-lb.	31-lb.	32-lb.	33-lb.	36-lb.	37-lb.	38-lb.	40-lb.	42-lb.
1955												
2nd quarter	53,798	--	3,120	2,759	--	533	42,559	153	--	71,006	--	429,010
3rd quarter	76,568	277	2,824	1,885	--	543	50,552	1,733	--	71,121	7,550	446,500
4th quarter	88,026	--	3,460	1,815	--	621	57,475	468	--	73,506	--	437,015
1956												
1st quarter	51,469	424	4,290	45	--	893	57,527	525	--	80,502	--	435,893
2nd quarter	103,099	--	5,949	596	163	575	63,488	443	5	74,730	25,863	419,538
	44-lb.	45-lb.	47-lb.	48-lb.	50-lb.	51-lb.	52-lb.	54-lb.	56-lb.	57-lb.	58-lb.	59-lb.
1955												
2nd quarter	--	13,358	43,892	785	836	769	1,555	--	155	--	--	9
3rd quarter	--	17,382	37,456	661	3,873	572	760	--	311	--	--	227
4th quarter	261	14,613	30,985	744	2,351	623	512	305	159	--	--	--
1956												
1st quarter	238	19,463	31,235	--	3,791	370	987	--	176	--	--	--
2nd quarter	--	20,761	32,937	--	1,455	319	784	--	102	--	--	110
	62-lb.	64-lb.	65-lb.	67-lb.	69-lb.	75-lb.	76-lb.	80-lb.	90-lb.	Miscellaneous		
1955												
2nd quarter	230	282	423	--	104,621	221	--	--	50,210	--	55,267	--
3rd quarter	399	1,020	1,476	--	102,412	--	2,031	--	53,013	--	82,301	--
4th quarter	269	415	1,092	--	110,613	90	1,189	--	55,850	--	76,551	--
1956												
1st quarter	219	145	1,014	--	119,016	--	445	7	44,297	--	90,436	--
2nd quarter	--	--	563	515	115,284	--	--	--	50,820	--	77,131	--

TABLE III
 TOTAL PRODUCTION BY GRADES, PER CENT

Grade	26-lb. Grade		27-lb. Grade		28-lb. Grade		30-lb. Grade		31-lb. Grade		32-lb. Grade		33-lb. Grade		36-lb. Grade		37-lb. Grade		38-lb. Grade		
	Witha	Withb	Witha	Withb	Witha	Withb	Witha	Withb	Witha	Withb	Witha	Withb	Witha	Withb	Witha	Withb	Witha	Withb	Witha	Withb	
1st quarter	9.9	9.7	--	--	0.3	0.4	0.3	0.3	--	--	0.1	0.1	5.6	6.1	c	c	--	--	7.5	8.3	
2nd quarter	7.9	8.7	c	c	0.2	0.3	0.2	0.2	--	--	0.1	0.1	5.2	5.7	0.2	0.2	--	--	7.4	8.1	
3rd quarter	9.2	10.0	--	--	0.2	0.4	0.2	0.2	--	--	0.1	0.1	6.0	6.5	c	c	--	--	7.7	8.5	
1st quarter	8.4	9.2	c	c	c	0.4	0.5	c	--	--	0.1	0.1	5.9	6.5	0.1	0.1	--	--	6.3	7.1	
2nd quarter	10.1	11.2	--	--	0.1	0.6	0.1	0.1	c	c	0.1	0.1	6.4	6.9	c	c	--	--	7.5	8.1	
1st quarter	--	--	45.4	49.9	--	--	--	1.4	1.6	4.6	5.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	--	--
2nd quarter	0.9	0.9	46.5	50.8	--	--	--	1.8	2.0	3.9	4.2	0.1	0.1	0.4	0.4	0.1	0.1	0.1	0.1	--	--
3rd quarter	--	--	45.6	49.5	c	c	c	1.5	1.7	3.2	3.5	0.1	0.1	0.2	0.3	0.1	0.1	0.1	0.1	c	c
1st quarter	--	--	44.8	49.4	c	c	c	2.0	2.2	3.2	3.5	--	--	0.3	0.3	c	c	0.1	0.1	--	--
2nd quarter	2.6	2.3	42.2	45.7	--	--	--	2.1	2.3	3.3	3.6	--	--	0.1	0.2	c	c	0.1	0.1	--	--
1st quarter	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2nd quarter	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3rd quarter	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1st quarter	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2nd quarter	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3rd quarter	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

a Percentage based on the total production of all grades including Miscellaneous.
 b Percentage based on the total production of all grades excluding Miscellaneous.
 c Less than a tenth of a per cent after rounding off.

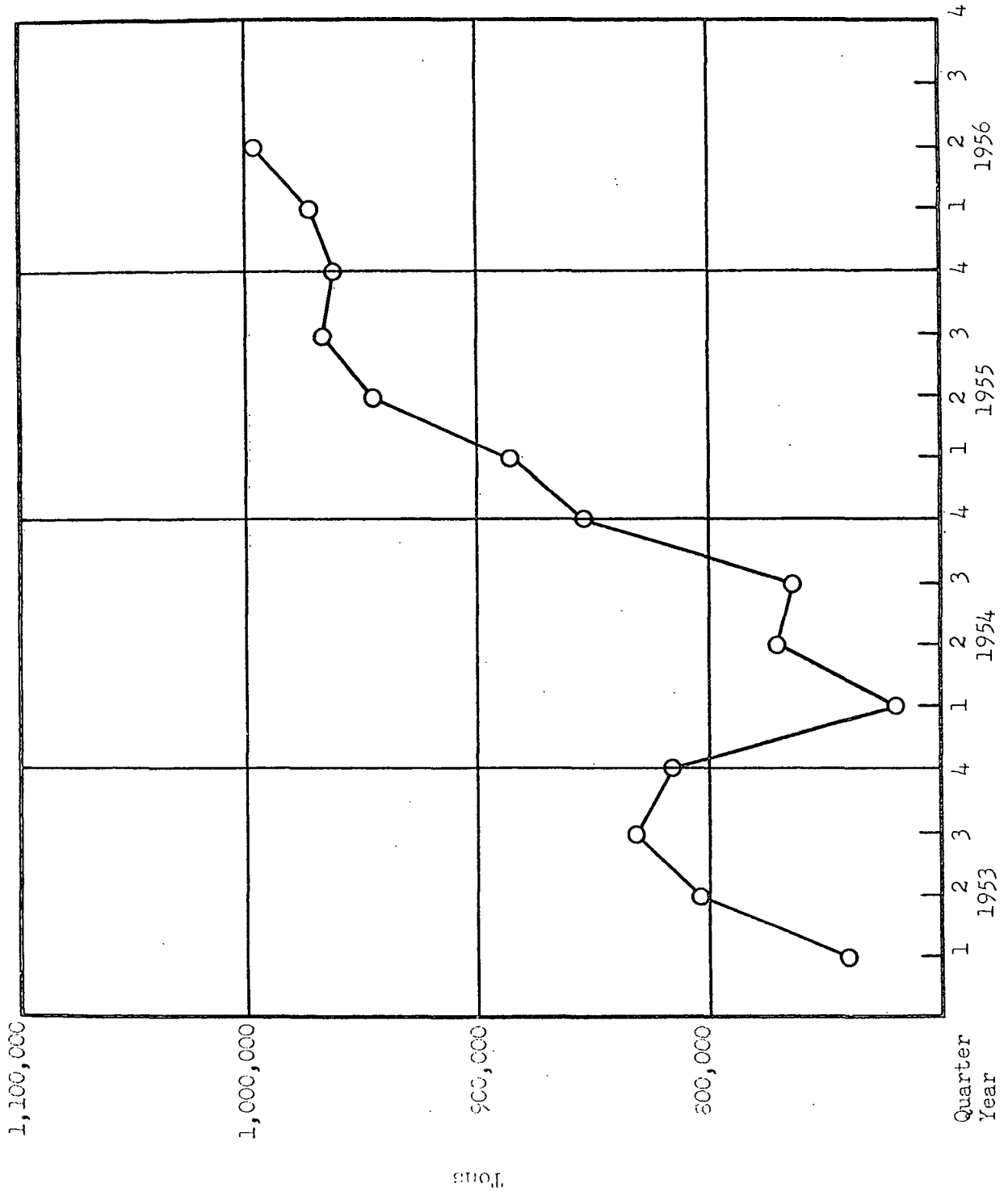


Figure 1. Paper Board Production of All Grades

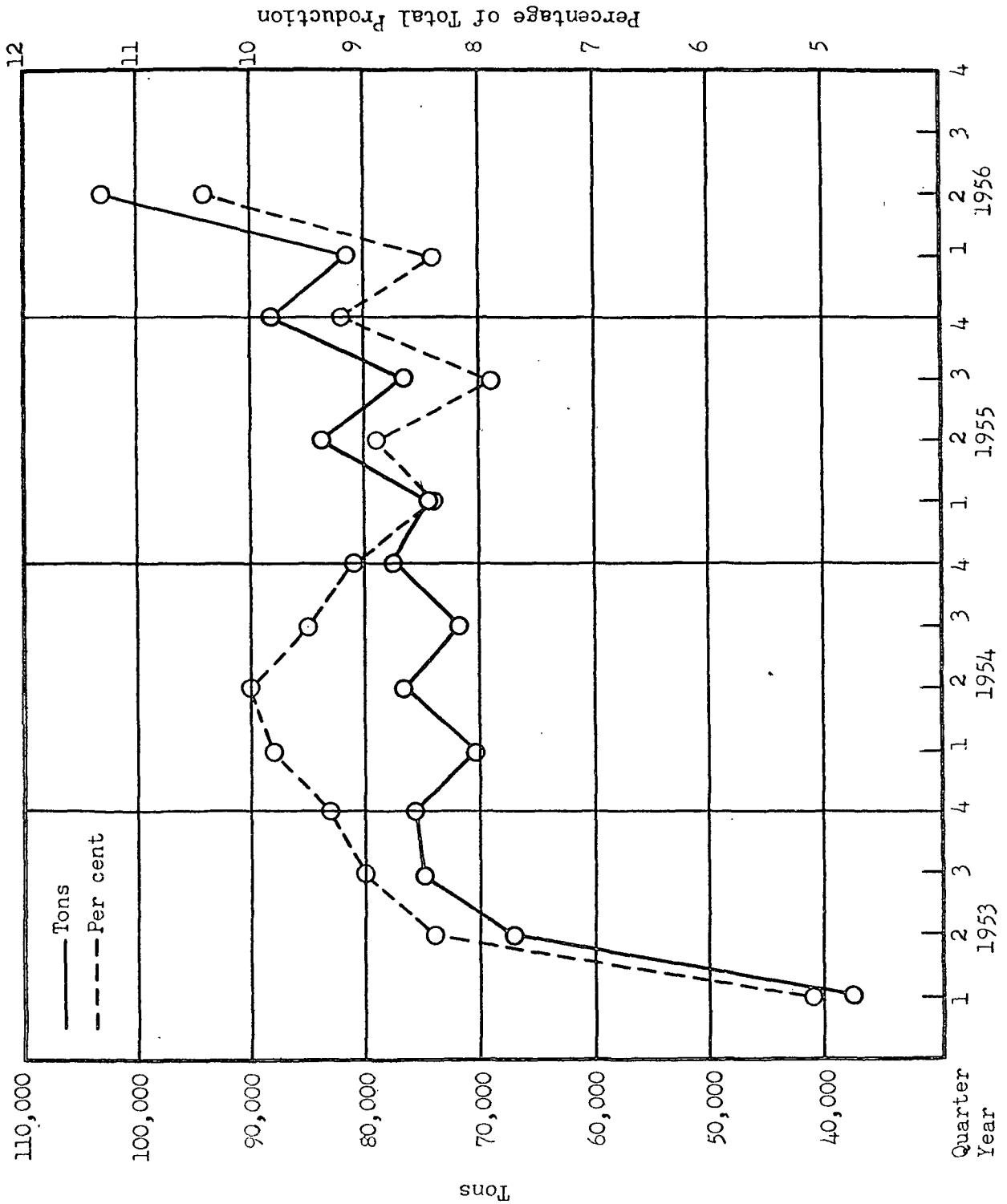


Figure 2. Production, 26-lb.

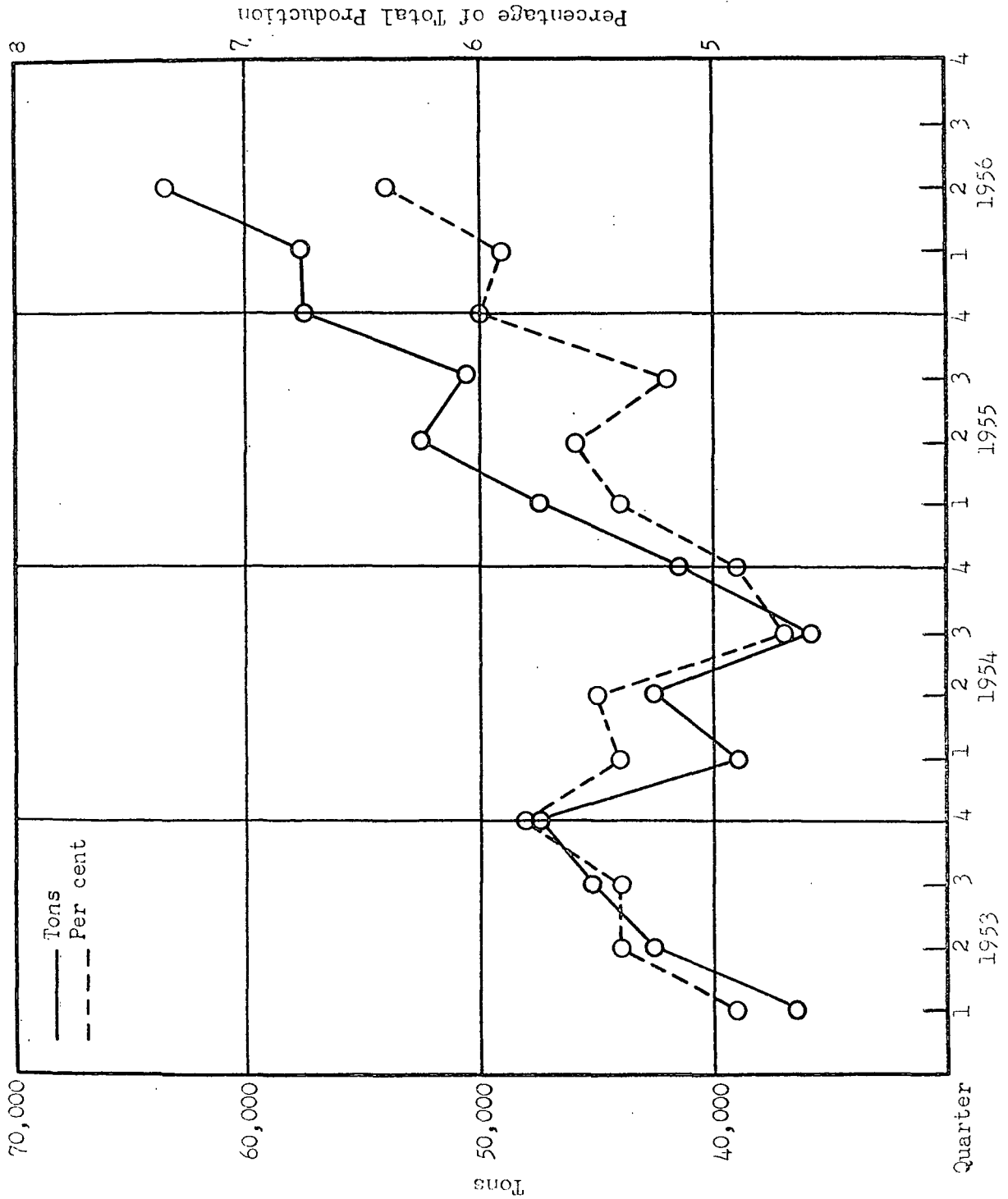


Figure 3. Production, 33-lb.

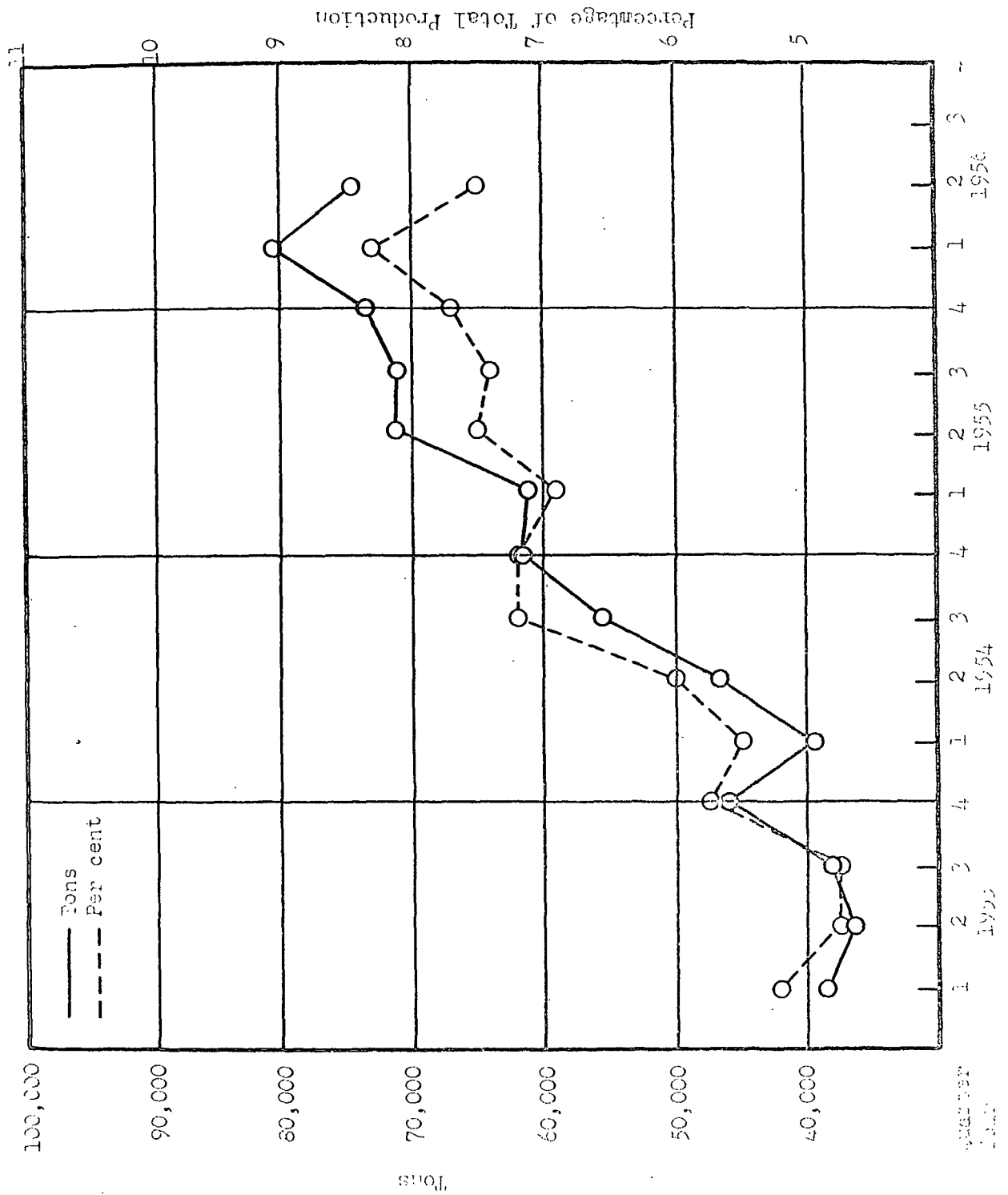


Figure 4. Production, 2c-1b.

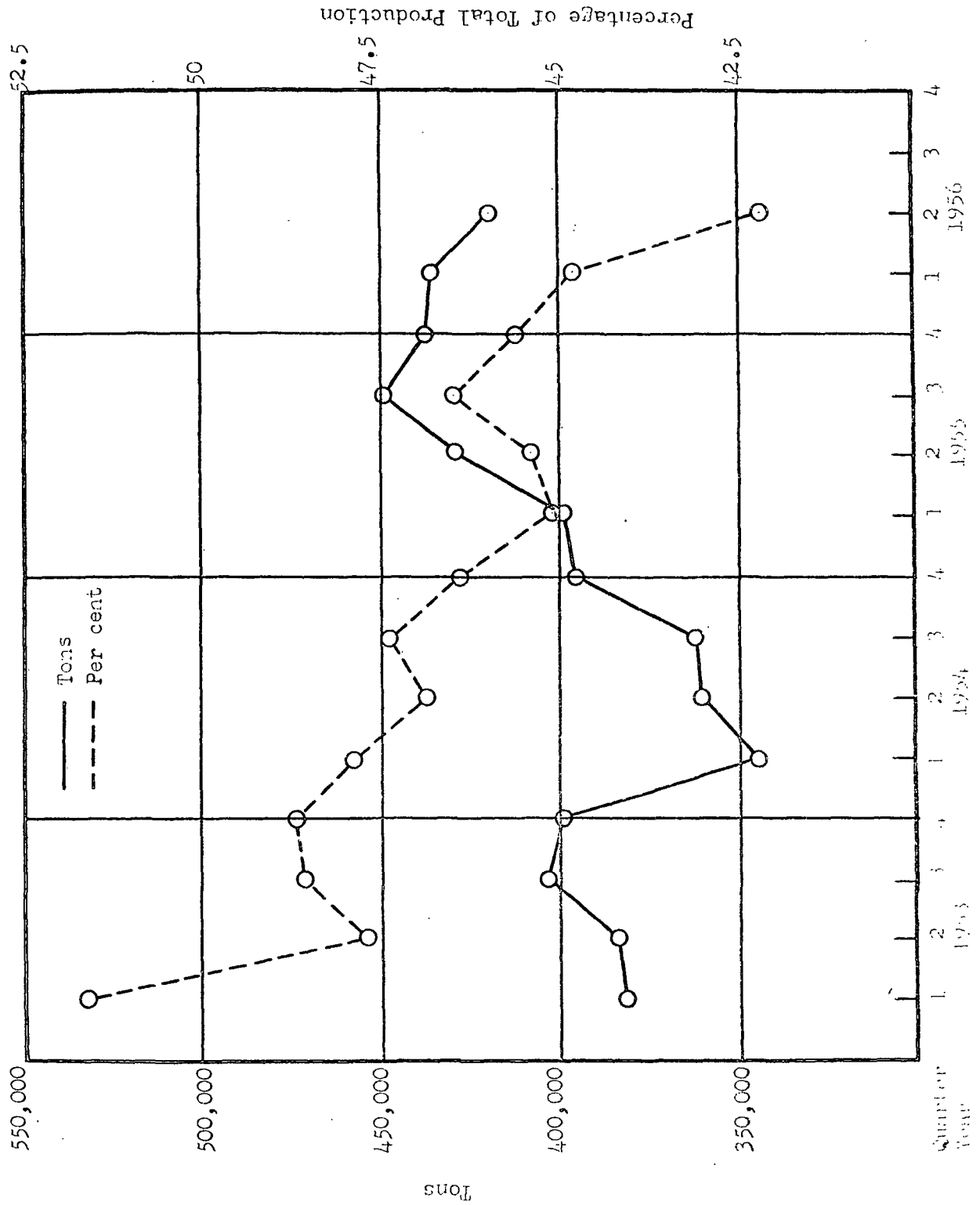


Figure 5. Production, 42-lb.

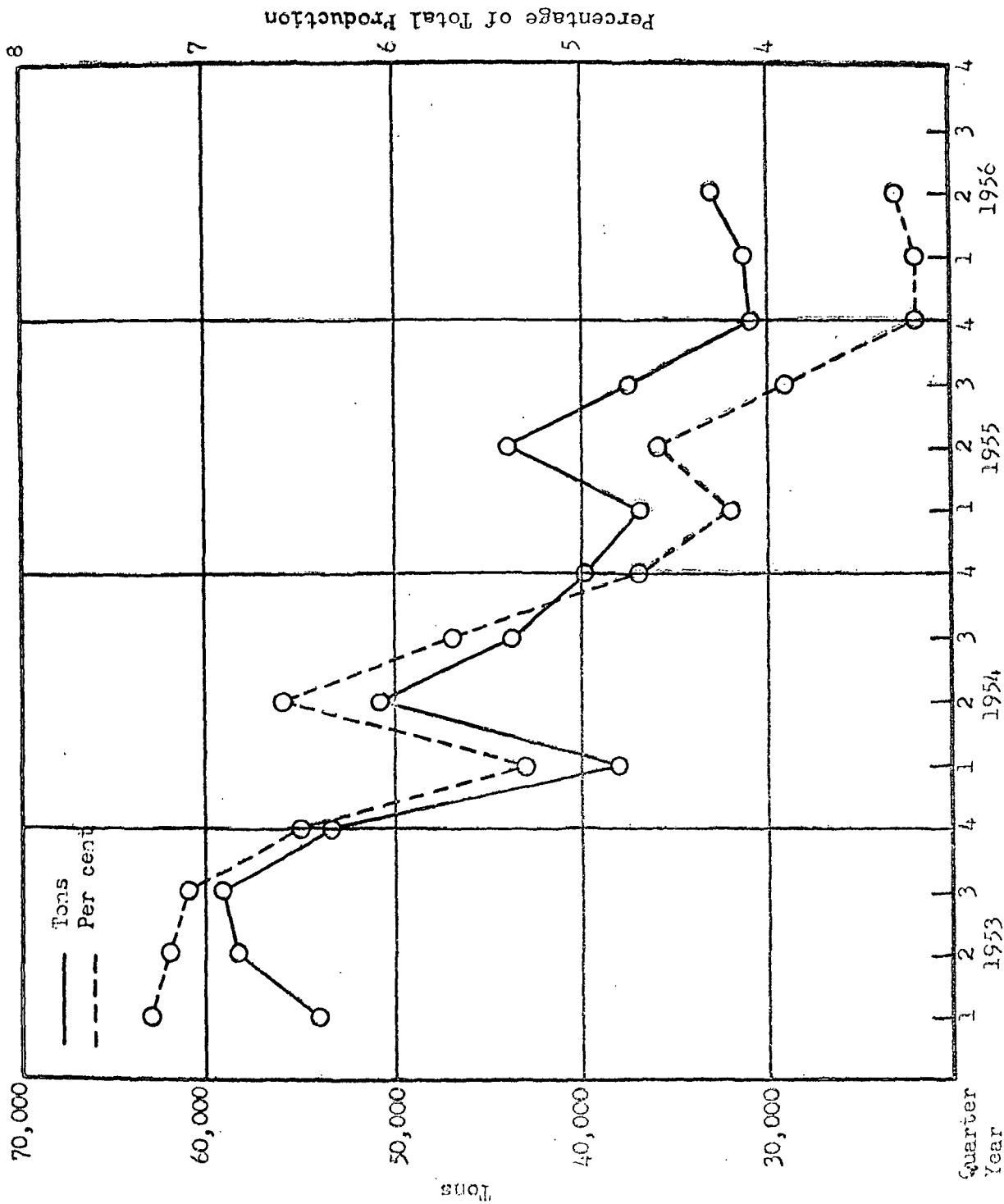


Figure 6. Production, 47-lb.

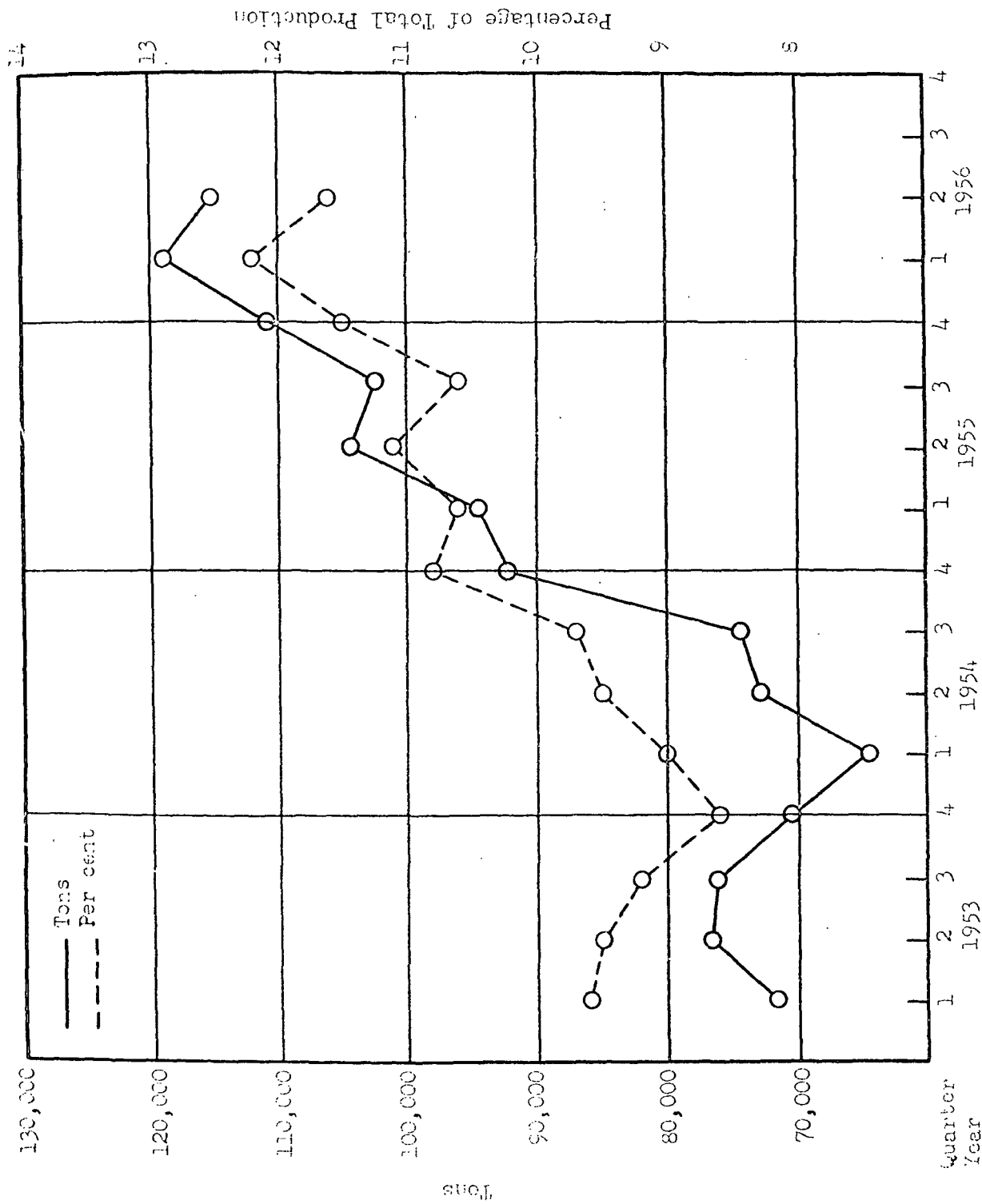


Figure 7. Production, 19-15.

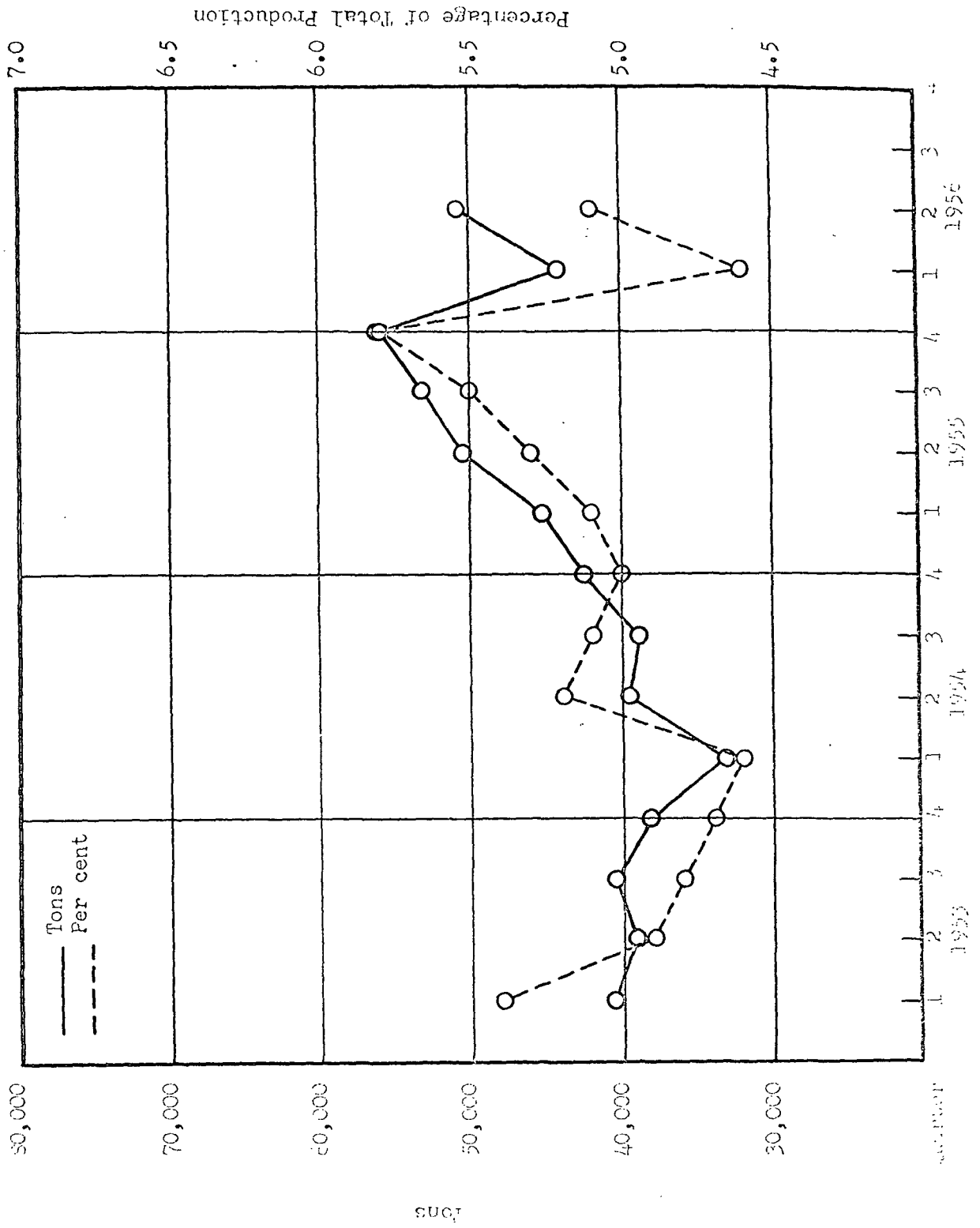


Figure e. Production, 90-lb.

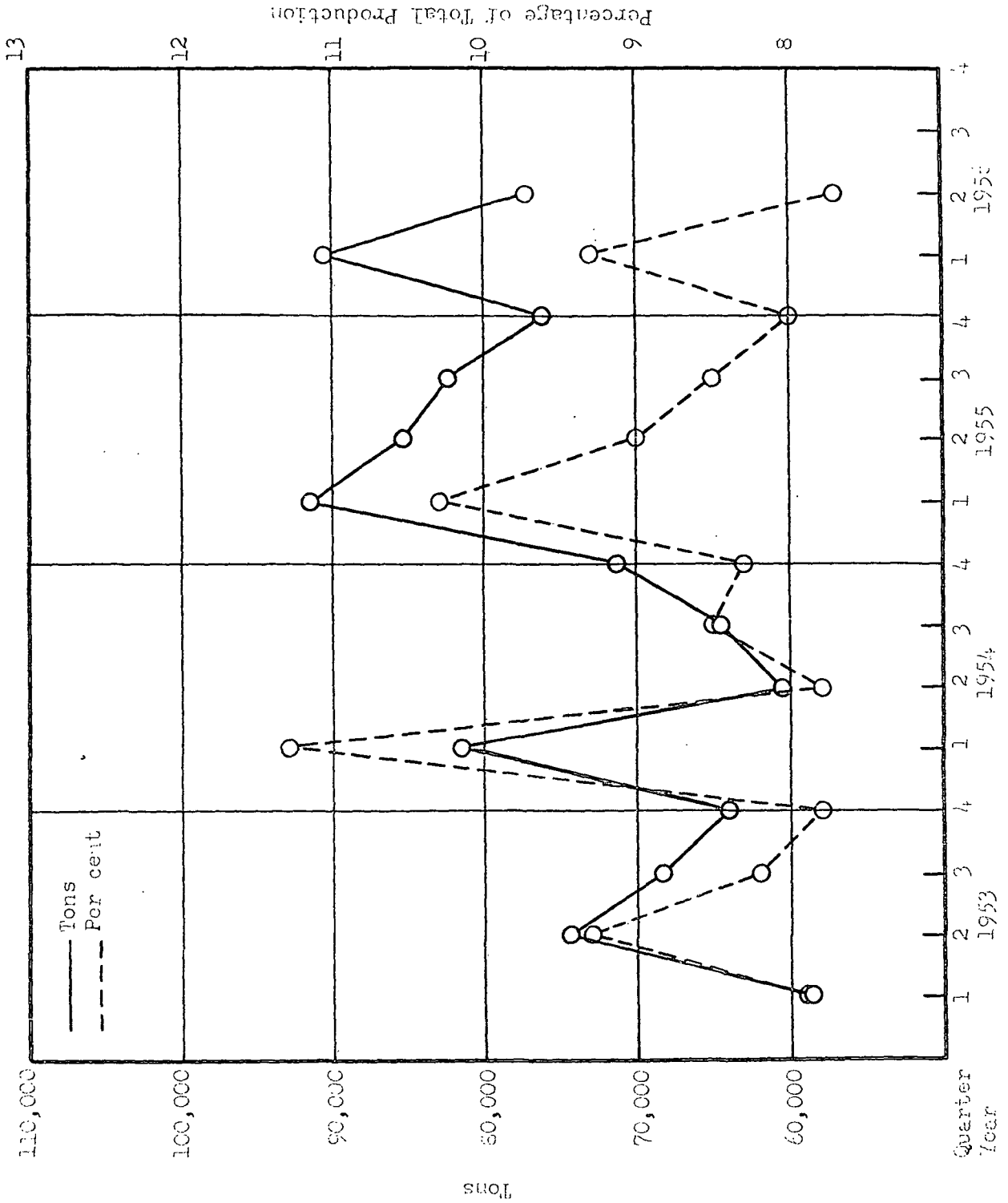
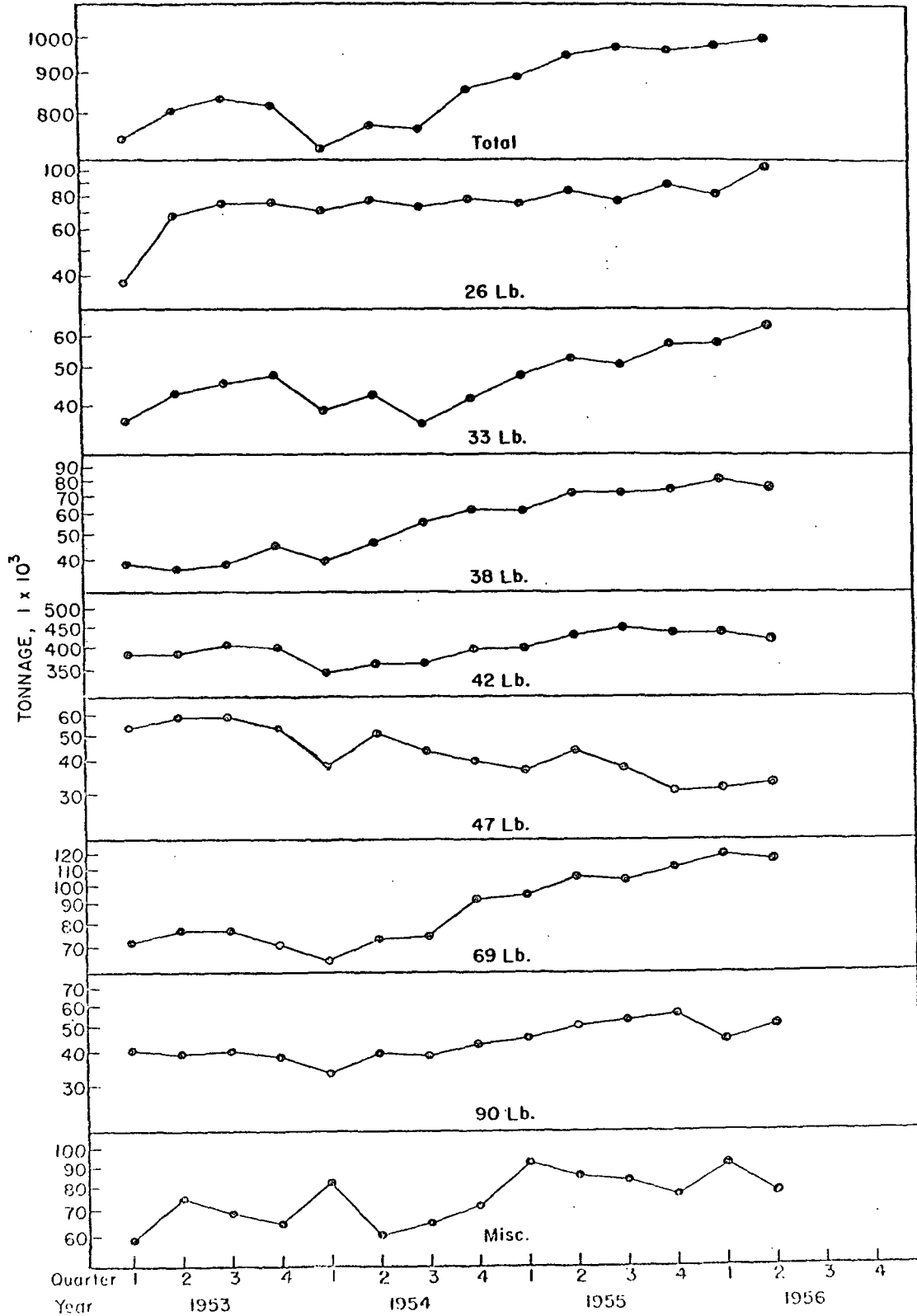


Figure 9. Production, Miscellaneous

Figure 10.



Comparison of Percentage Changes in Production for All Grades