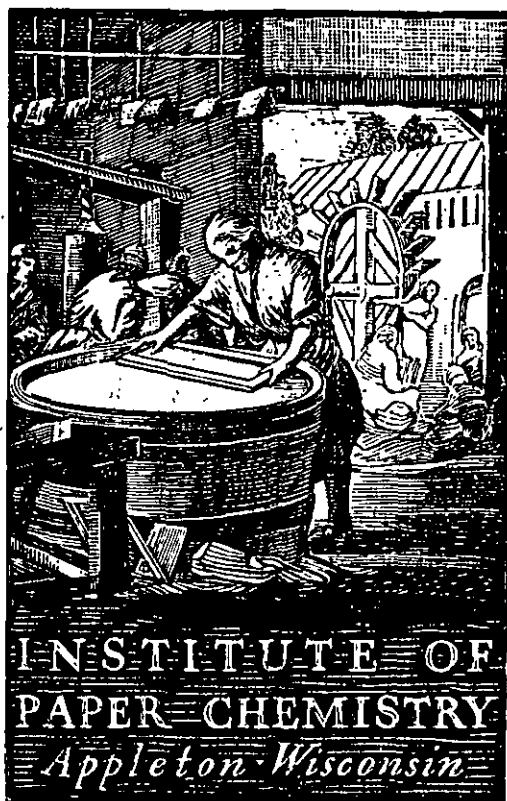


Institute of Paper Science and Technology
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PRODUCTION DATA REPORT

Project 1108-13

Supplementary Report Nineteen

to

FOURDRINIER KRAFT BOARD INSTITUTE, INC.

August 1, 1957

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 1957:

The Chesapeake Corporation of Virginia

Continental Can Company, Inc.

Gaylord Container Corporation, Division of Crown Zellerbach Corporation

Georgia Kraft Company

International Paper Company

Owens-Illinois Glass Company, Mill Division

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-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 for the second quarter of 1957 is given in Table I-A. For purposes of comparison, the total production data for 1954, 1955, and 1956 are also included in Table I-A. The total production data from 1954 to the present are illustrated graphically in Figure 1 by

quarters. Production data for the various grades are shown 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 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 a number of comparisons which may be of interest.

Some of these are the following:

1. As may be seen in Table I-A, the total production of all grades for the second quarter of 1957 was slightly higher than the corresponding figure for the first quarter. However, total production for the second quarter of 1957 was approximately 50,000 tons lower than the corresponding figure for the second quarter of 1956.
2. The tonnages of the major grades are shown on a quarterly basis for 1956 and 1957 to date in Table I-B. Compared with the first quarter (1957) production of the corresponding grades, production of 38 lb., 42 lb., 47 lb., 69 lb., and miscellaneous increased, whereas production of 26 lb., 33 lb., and 90 lb. decreased.

TABLE I-A

TOTAL TONNAGE OF ALL GRADES

	1954	1955	1956	1957
1st Quarter	720,954	886,487	972,607	932,706
2nd Quarter	770,597	945,631	995,265	946,959
3rd Quarter	765,742	965,247	959,662	
4th Quarter	<u>853,434</u>	<u>959,008</u>	<u>952,295</u>	
Total	3,110,727	3,756,373	3,879,829	

TABLE I-B
TONNAGE OF MAJOR GRADES BY QUARTERS FOR 1956 AND 1957

Grade	<u>1956</u>			
	1st quarter	2nd quarter	3rd quarter	4th quarter
26 lb.	81,469	103,099	89,233	105,159
33 lb.	57,527	63,488	55,673	55,573
38 lb.	80,502	74,730	84,882	75,808
42 lb.	435,893	419,538	440,988	397,641
47 lb.	31,235	32,937	31,042	23,200
69 lb.	119,016	115,284	106,722	117,382
90 lb.	44,297	50,820	50,860	50,910
Misc.	90,436	77,131	69,186	74,245
<u>1957</u>				
26 lb.	90,748	83,616		
33 lb.	56,452	55,636		
38 lb.	73,283	82,907		
42 lb.	414,657	416,928		
47 lb.	22,150	27,665		
69 lb.	107,473	115,538		
90 lb.	61,268	54,779		
Misc.	78,240	81,138		

TABLE II

	26 lb.	27 lb.	28 lb.	30 lb.	31 lb.	32 lb.	33 lb.	35 lb.	36 lb.	37 lb.	38 lb.	40 lb.
1956												
1st quarter	81,469	424	4,290	45	--	893	57,527	--	525	--	80,502	--
2nd quarter	103,099	--	5,949	596	163	575	63,488	--	448	5	74,730	25,863
3rd quarter	89,233	--	2,477	72	--	479	55,673	--	188	--	84,882	--
4th quarter	105,159	--	3,557	1,465	--	605	55,573	--	226	--	75,808	26,033
1957												
1st quarter	90,748	--	2,085	1,426	--	556	56,452	41	418	--	73,283	--
2nd quarter	83,616	--	2,622	791	--	1,289	55,636	--	55	--	82,907	--
1956												
1st quarter	435,893	238	19,463	--	31,235	2,991	370	987	176	--	--	219
2nd quarter	419,538	--	20,761	--	32,937	1,485	319	784	102	110	--	--
3rd quarter	440,988	--	18,729	--	31,042	1,945	105	938	151	--	--	325
4th quarter	397,641	--	15,142	61	23,200	870	459	711	40	--	55	--
1957												
1st quarter	414,657	--	19,023	--	22,150	1,371	124	624	--	--	625	--
2nd quarter	416,928	--	19,760	--	27,665	471	--	601	--	--	424	--
1956												
1st quarter	145	1,014	--	119,016	--	--	445	7	44,297	--	90,436	
2nd quarter	--	563	515	115,284	--	--	--	--	50,820	--	77,131	
3rd quarter	--	1,686	270	106,722	1,899	1,531	281	--	50,860	--	69,186	
4th quarter	1,034	--	364	117,382	--	--	1,755	--	50,910	--	74,245	
1957												
1st quarter	387	1,232	--	107,473	328	--	195	--	61,268	--	78,240	
2nd quarter	656	1,154	613	115,538	--	114	202	--	54,779	--	81,138	

TABLE III

TOTAL PRODUCTION BY GRADES, PER CENT

	26 lb. Grade With ^a out ^b	28 lb. Grade With ^a out ^b	30 lb. Grade With ^a out ^b	31 lb. Grade With ^a out ^b	32 lb. Grade With ^a out ^b	33 lb. Grade With ^a out ^b	35 lb. Grade With ^a out ^b	36 lb. Grade With ^a out ^b	
1956									
2nd quarter	10.4	11.2	0.6	0.6	0.1	0.1	6.4	6.9	c
3rd quarter	9.3	10.0	0.3	0.3	c	0.1	5.8	6.3	c
4th quarter	11.0	12.0	0.4	0.4	0.2	0.1	5.8	6.3	c
1957									
1st quarter	9.7	10.6	0.2	0.2	0.2	0.1	6.1	6.6	c
2nd quarter	8.8	9.7	0.3	0.3	0.1	0.1	5.9	6.4	c
37 lb. Grade									
With ^a out ^b									
1956									
2nd quarter	c	c	7.5	8.1	2.6	2.3	--	--	3.3
3rd quarter	--	--	8.8	9.5	--	2.1	--	--	3.2
4th quarter	--	--	8.0	8.6	2.7	1.6	c	c	2.4
1957									
1st quarter	--	--	7.9	8.6	--	2.2	--	--	2.4
2nd quarter	--	--	8.8	9.6	--	2.3	--	--	2.9
51 lb. Grade									
With ^a out ^b									
1956									
2nd quarter	c	c	0.1	0.1	c	--	--	--	0.1
3rd quarter	c	c	0.1	0.1	c	--	--	--	0.2
4th quarter	c	0.1	0.1	0.1	c	c	0.1	0.1	0.1
1957									
1st quarter	c	c	0.1	0.1	--	0.1	--	--	0.1
2nd quarter	--	--	0.1	0.1	--	c	--	--	0.1
65 lb. Grade									
With ^a out ^b									
1956									
2nd quarter	0.1	0.1	11.6	12.6	--	--	5.1	5.5	7.7
3rd quarter	c	c	11.1	12.0	0.2	0.2	5.3	5.7	7.2
4th quarter	c	c	12.3	13.4	--	0.2	5.3	5.8	7.8
1957									
1st quarter	--	--	11.5	12.6	c	c	6.6	7.2	8.4
2nd quarter	0.1	0.1	12.2	13.3	--	c	5.8	6.3	8.6
67 lb. Grade									
With ^a out ^b									
1956									
2nd quarter	0.1	0.1	11.6	12.6	--	--	5.1	5.5	7.7
3rd quarter	c	c	11.1	12.0	0.2	0.2	5.3	5.7	7.2
4th quarter	c	c	12.3	13.4	--	0.2	5.3	5.8	7.8
1957									
1st quarter	--	--	11.5	12.6	c	c	6.6	7.2	8.4
2nd quarter	0.1	0.1	12.2	13.3	--	c	5.8	6.3	8.6
Miscellaneous									
With ^a									
1956									
2nd quarter	0.1	0.1	11.6	12.6	--	--	5.1	5.5	7.7
3rd quarter	c	c	11.1	12.0	0.2	0.2	5.3	5.7	7.2
4th quarter	c	c	12.3	13.4	--	0.2	5.3	5.8	7.8
1957									
1st quarter	--	--	11.5	12.6	c	c	6.6	7.2	8.4
2nd quarter	0.1	0.1	12.2	13.3	--	c	5.8	6.3	8.6

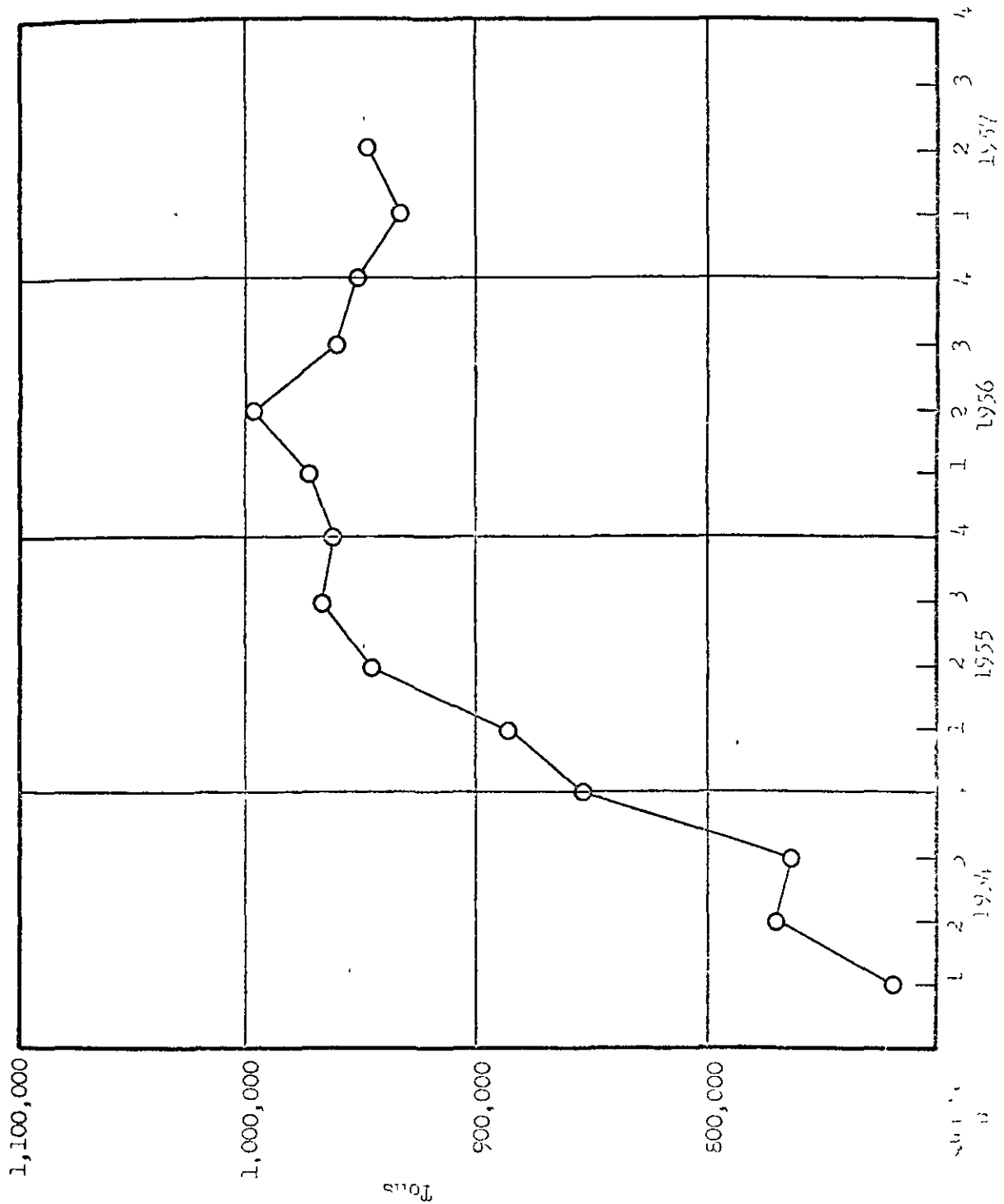


Figure 1. Paper Board Production of All Grades

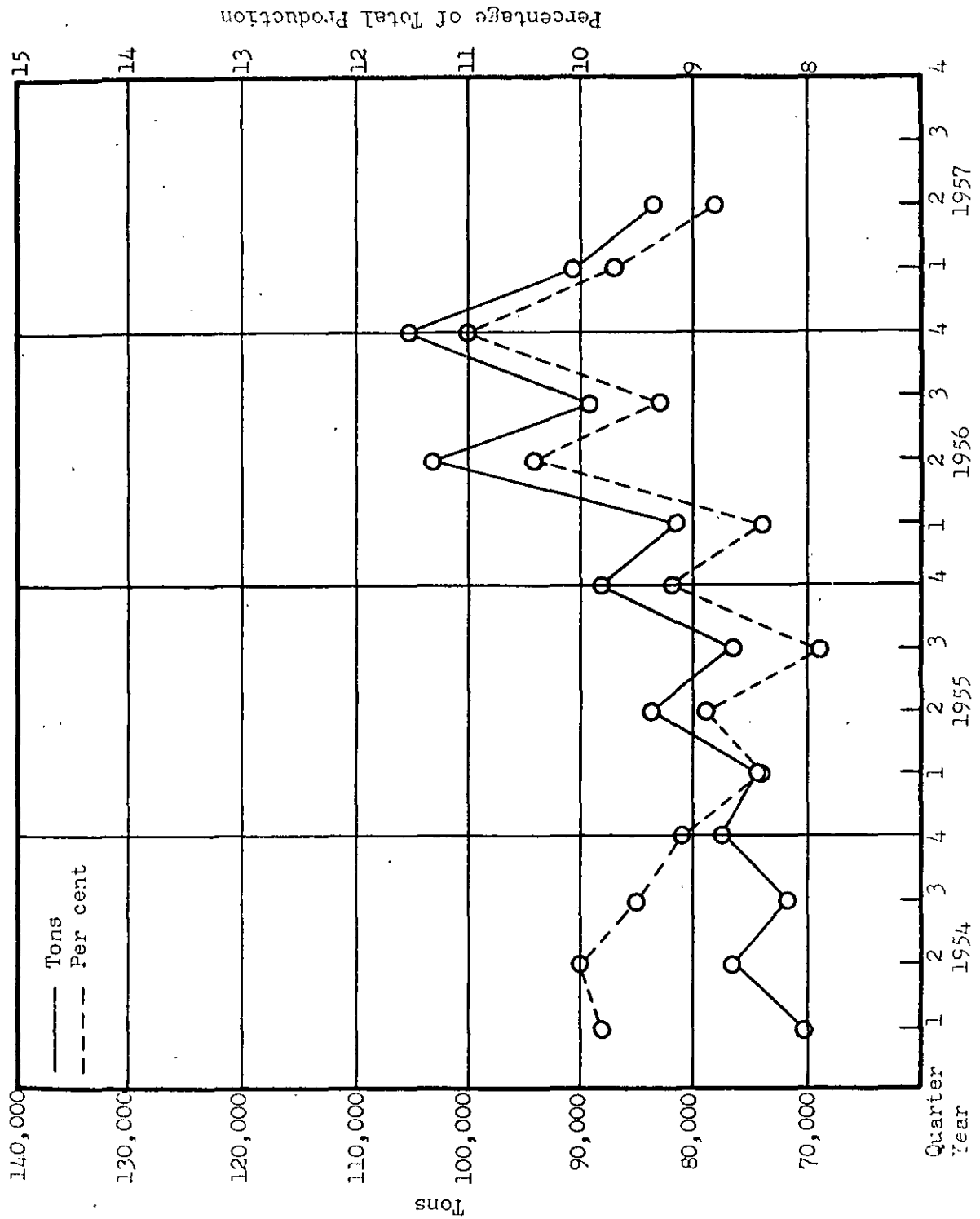


Figure 2. Production, 26-lb.

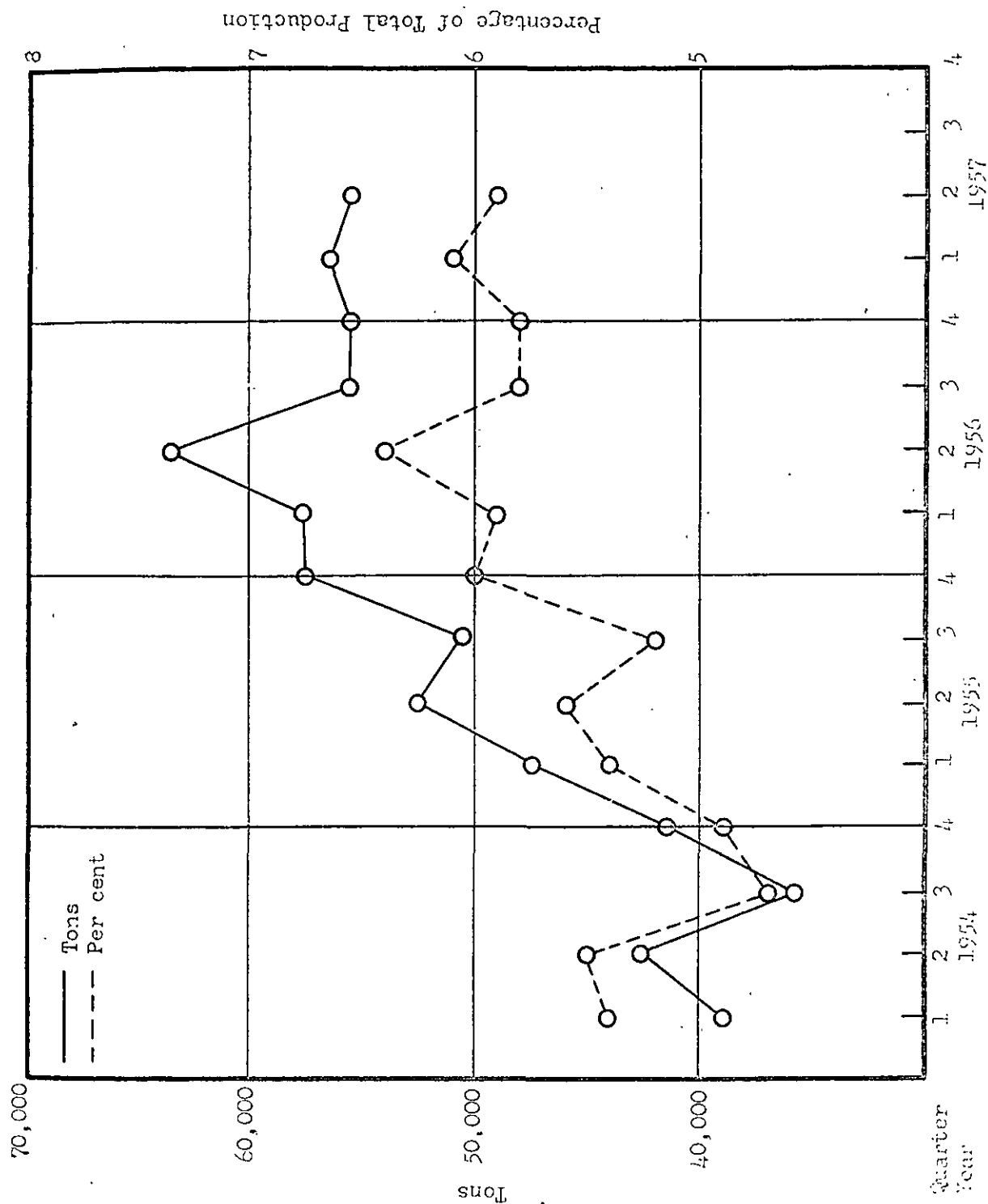


Figure 3. Production, 33-1b.

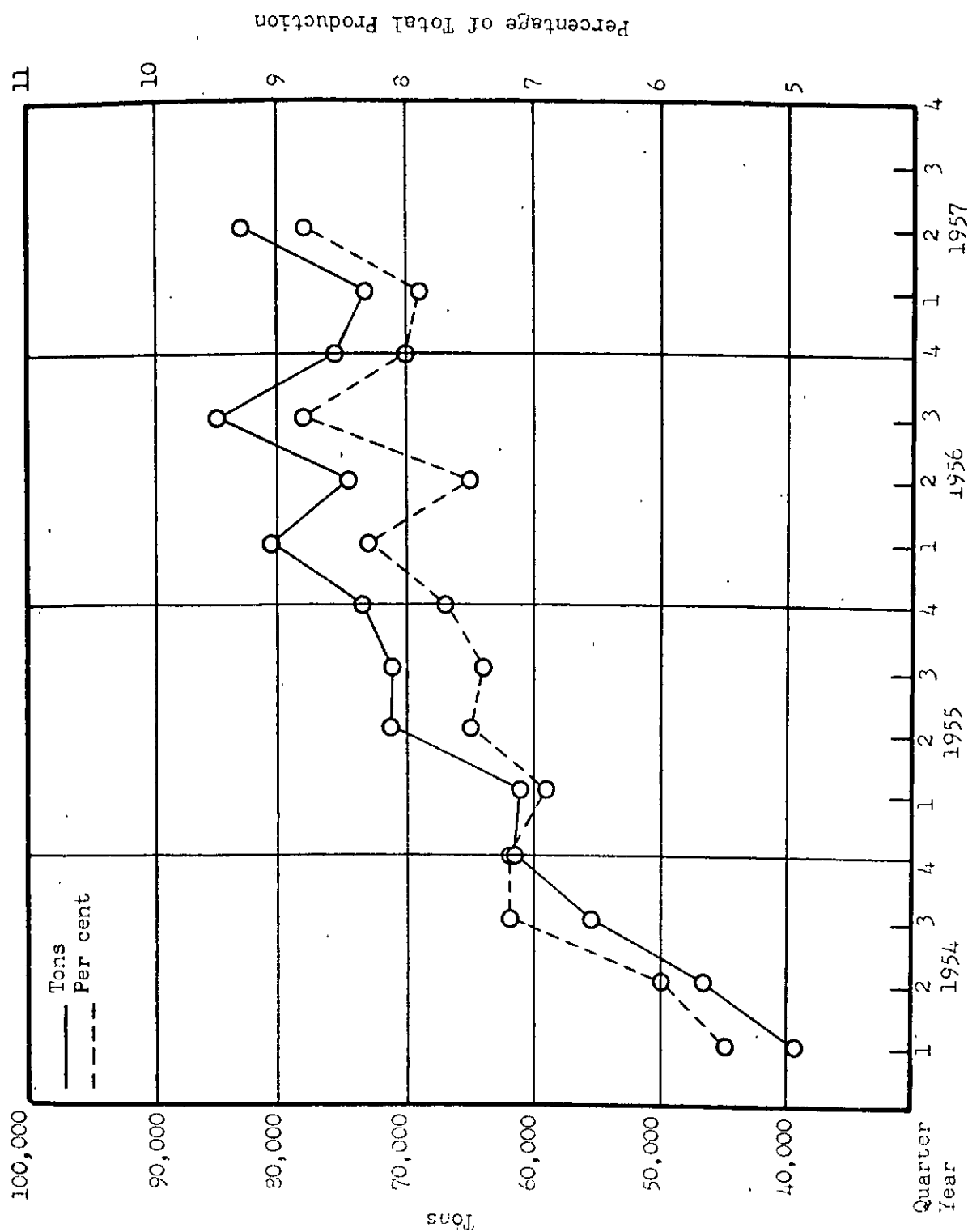


Figure 4. Production, 38-lb.

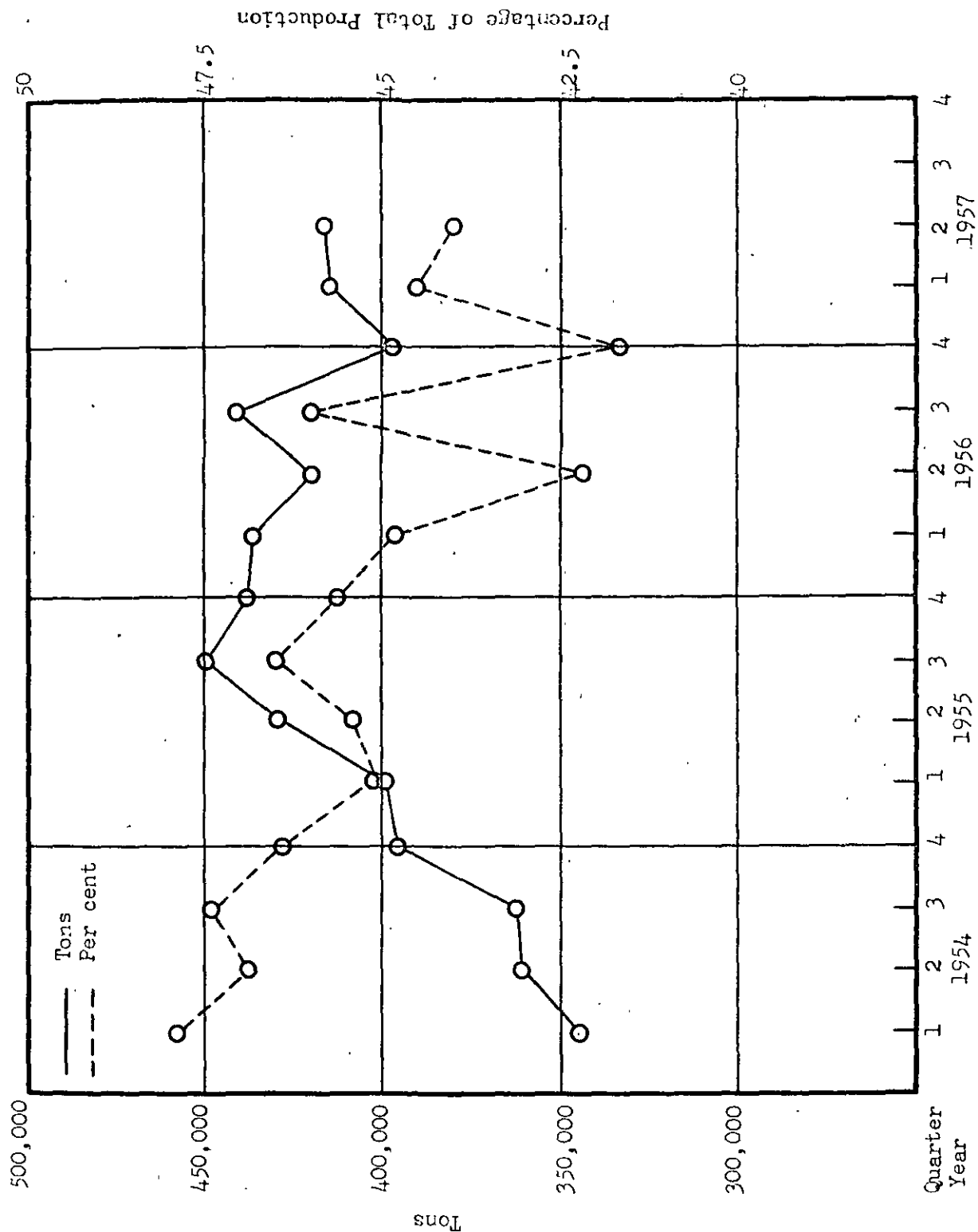


Figure 5. Production, 42-lb.

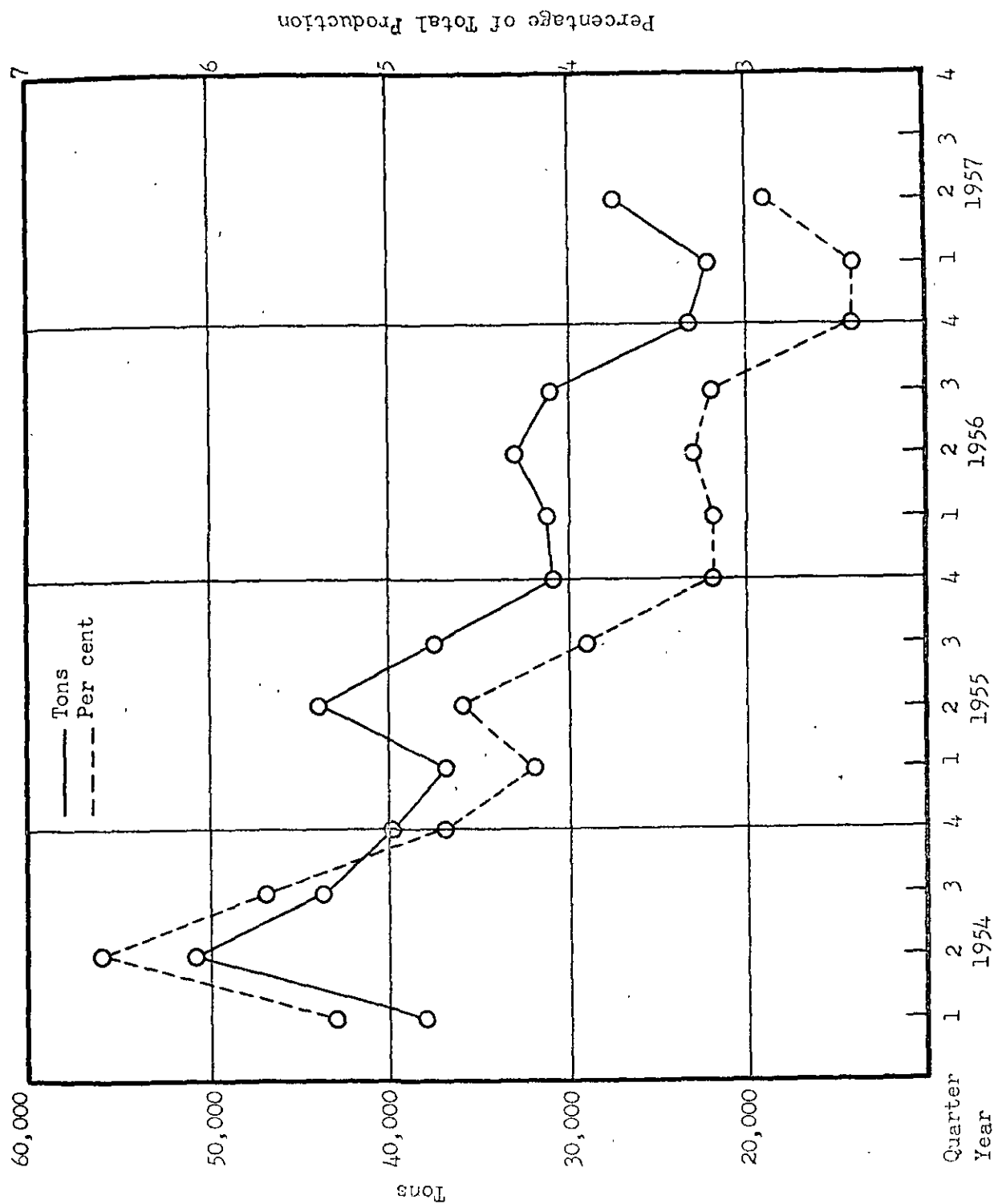


Figure 6. Production, 47-lb.

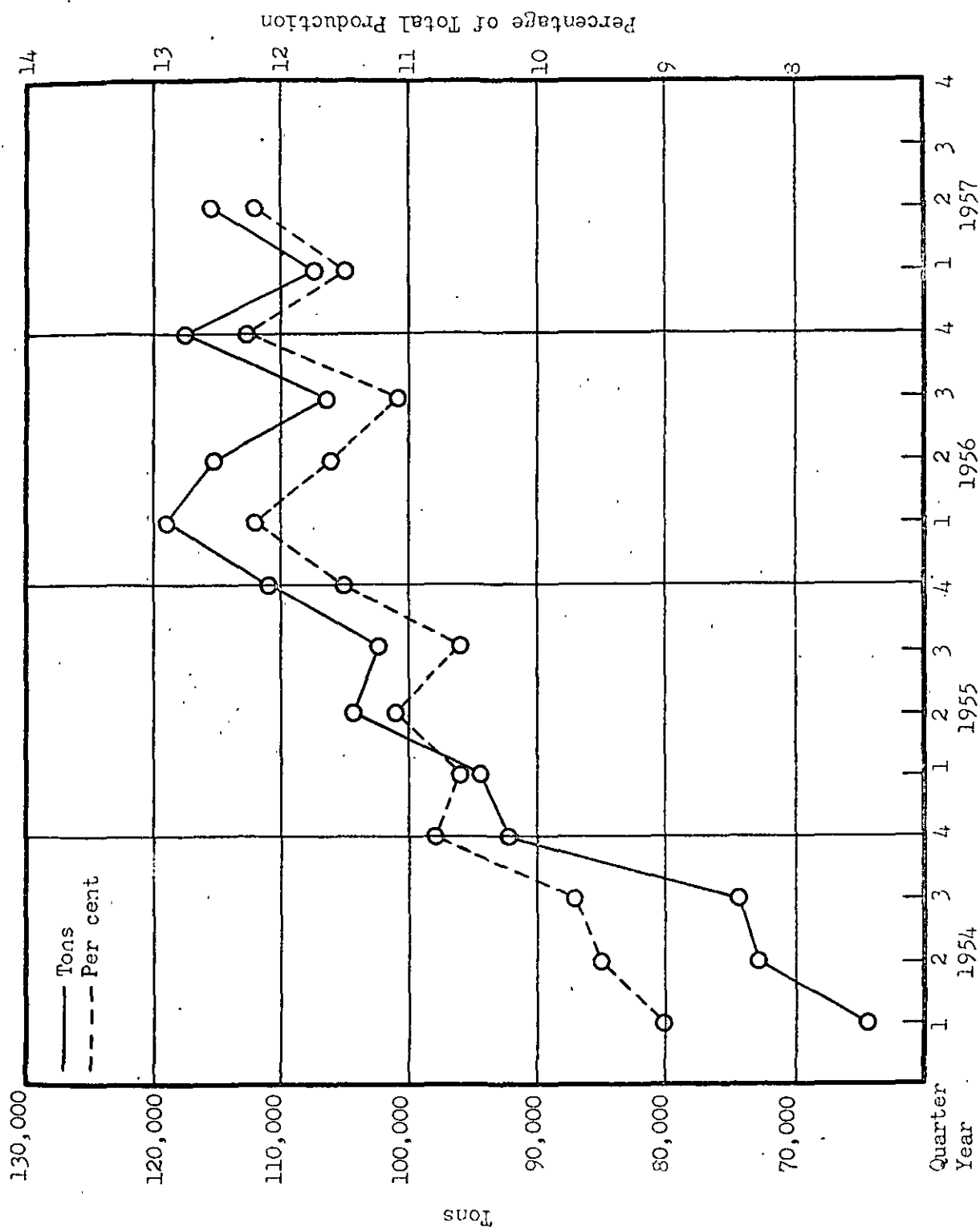


Figure 7. Production, 69-lb.

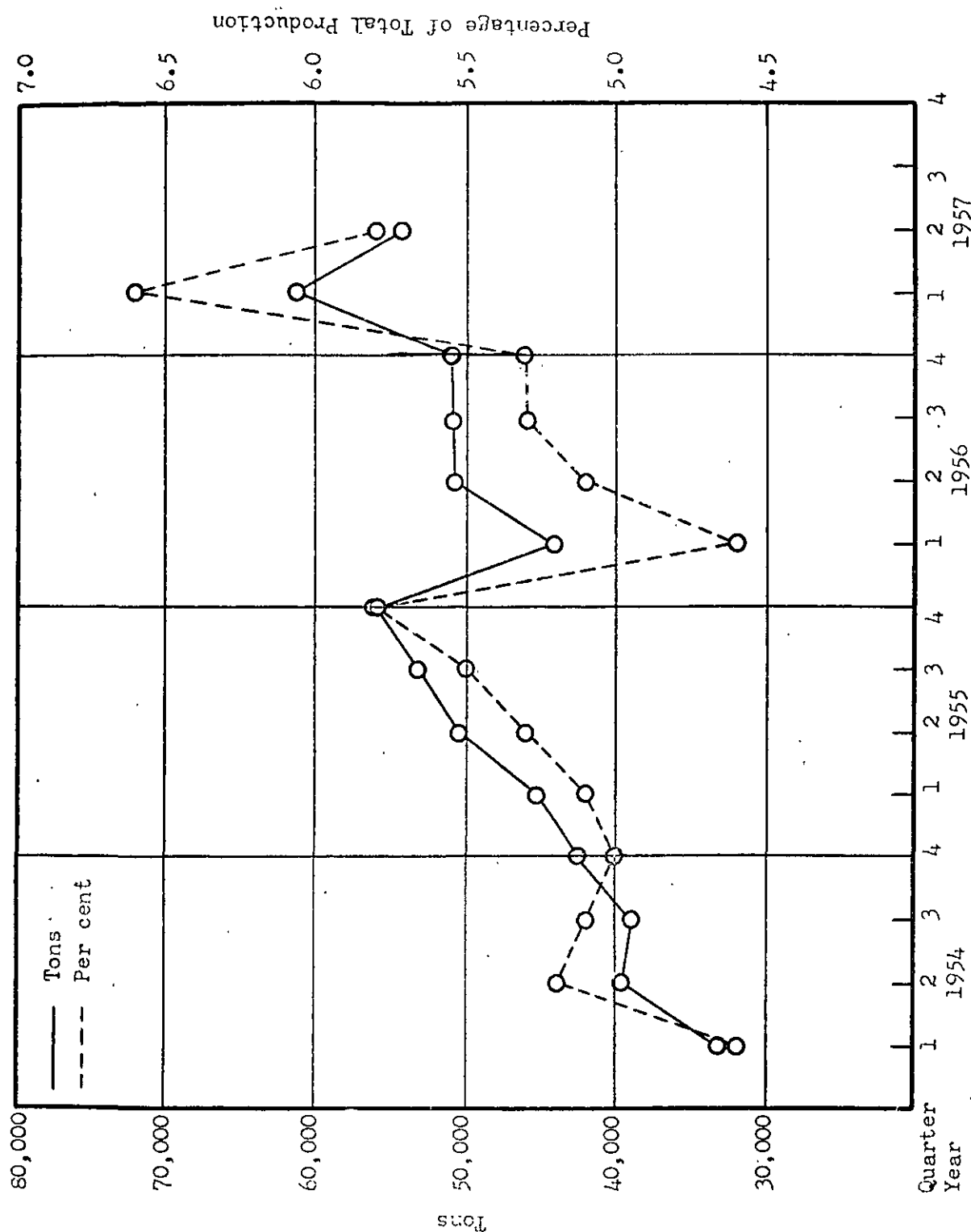


Figure 8. Production, 90-lb.

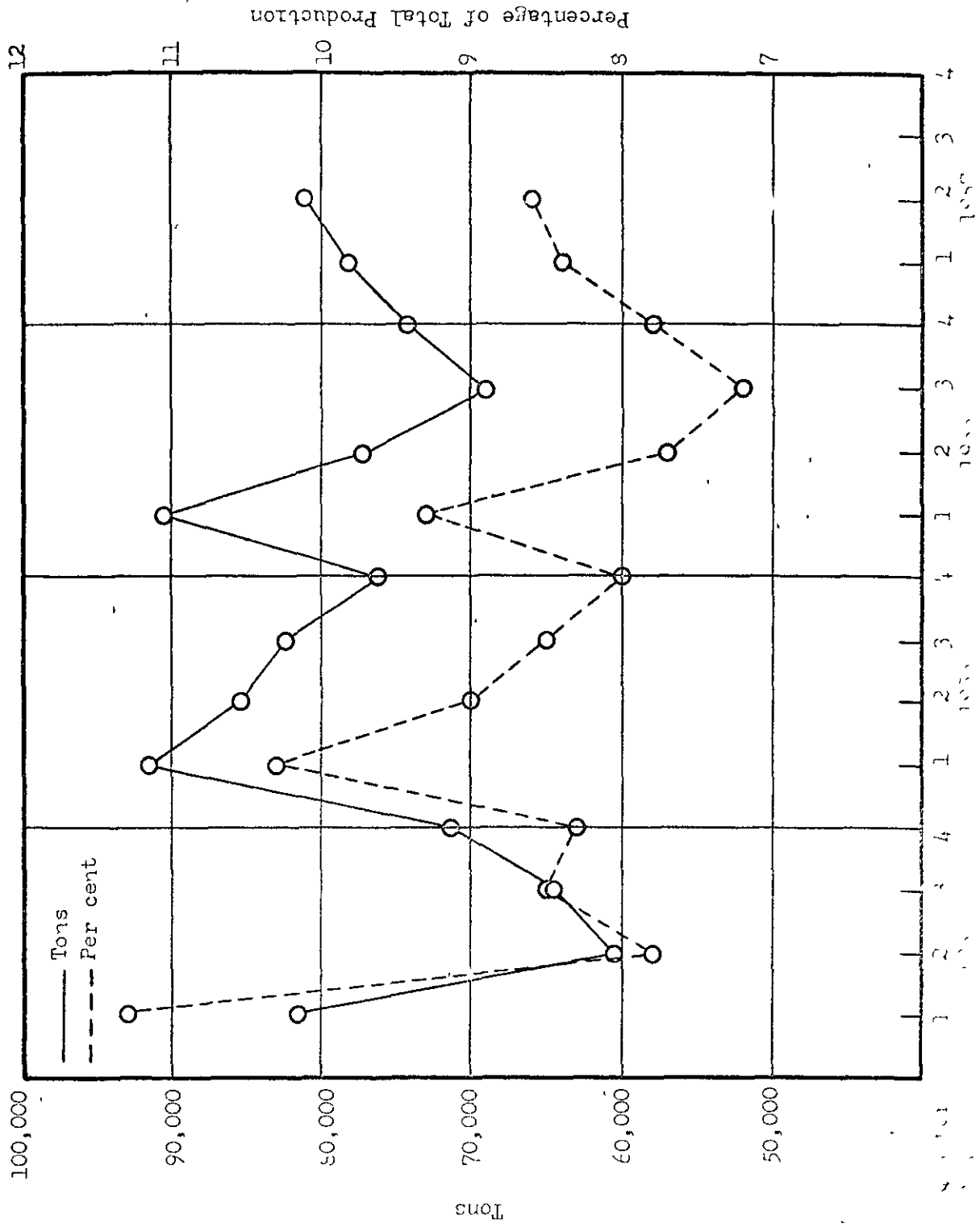


Figure 1. Production, 1951-1955

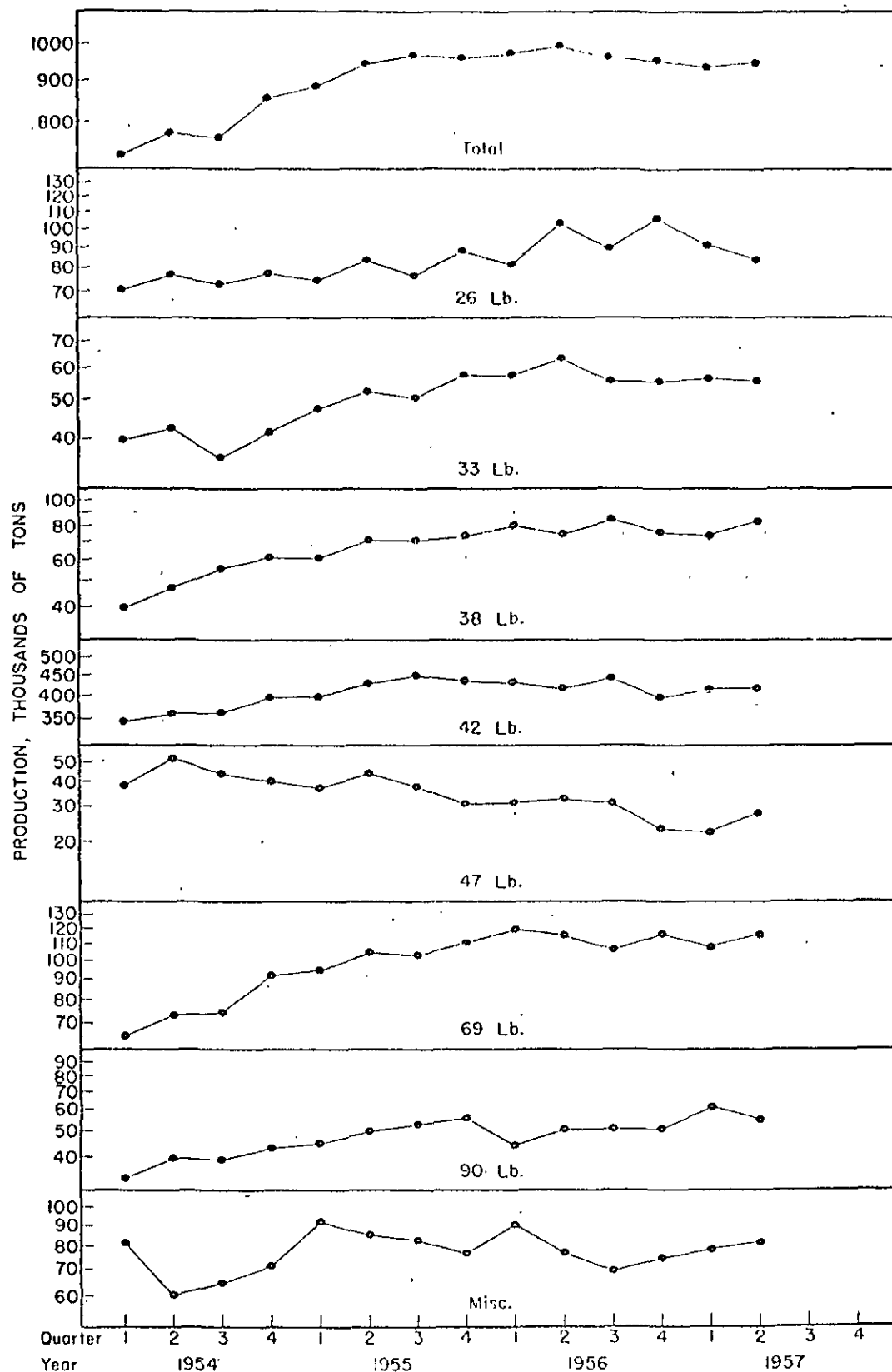


Figure 10. Comparison of Percentage Changes in Production for All Grades.