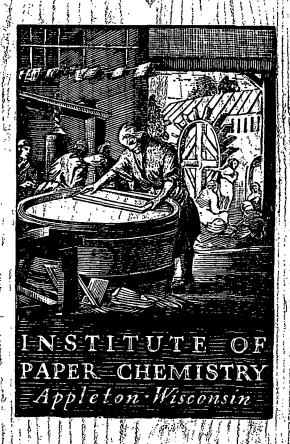
# GENERAL



Refer to the hibuted

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## FORTY-FIRST PRODUCTION DATA REPORT

Project 1108-31

Report Sevens

A Progress Report

FOURDRINIER KRAFT BOARD INSTITUTE, INC.

May 30, 1969

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## ADDENDUM

(After the Production Data Report had been prepared, additional production data were received. Rather than delay issuance of Report Seven, the additional production data have been included in an Addendum. The tonnages given herewith represent, therefore, the latest reported production data.)

1. Total production for 1968 was 9,461,866 tons.

TABLE I
LINERBOARD PRODUCTION FOR 1968

Domestic linerboard	6,813,466
Decorative linerboard	606,074
Wet-strength linerboard	265,149
Functional linerboard	78,501
Other end uses	488,675
Export linerboard	1,210,000

2. Average tons per company for year 1968: 498,000

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TABLE II

DOMESTIC LINERBOARD

Includes 2,798 tons of 17-lb.; 26 tons of 24-lb.; and 3,098 tons of 25-lb. linerboard.

TABLE III SPECIAL LINERBOARD

Decorative 1.	Tons
Decorative linerboard	606,074
Wet-strength linerboard	265, 149
Functional linerboard	78,501
Other end uses	488,675
Total	1,438,399

TABLE IV

EXPORT LINERBOARD

Grade, lb.	Tons	Grade, lb.	Tons
22 <sup>a</sup>	624	57	
23 24	4,272 1,011	58	580 256
25	57,601	59 60	
26	187,475	6 <u>1</u>	2 4,365
27 28	281	62	6,392
29	762 	63 64	21,545
30 31	17,049	65	30,521
<i>3</i> 2	43,879	66	667
33	2,997 95,117	67 68	1,147
34 35	~-	69	19,010 214,628
36	11,776 14,736	70 71	1,588
<i>3</i> 7	9,604	72	<u></u>
38 39	57,043 1,283	73	9
40	14,946	74 75	
41	89,914	76	2,947
42 43	141,984	77	-,,,,,
44	16	78 79	120
45 46	318 14,594	- 80	- <del>-</del> 151
47	81, 146	81	
48		82 83	58
49 50	-	. 84	
51	99	85 86	77
52	800	87	
53 54		88	131 
55 56		89 90	
20		91 & up	55,840 640
otal			•

Total 1,210,001

a Includes 43 tons of 17-lb. linerboard.

## THE INSTITUTE OF PAPER CHEMISTRY

## Appleton, Wisconsin

#### FORTY-FIRST PRODUCTION DATA REPORT

#### SUMMARY

Production of fourdrinier kraft linerboard by the nineteen member companies of the Fourdrinier Kraft Board Institute, Inc. during 1968 is summarized in this report. The following data may be of interest:

1. Total production for 1968 was 9,439,382 tons.

TABLE I LINERBOARD PRODUCTION FOR 1968

Domestic linerboard	6,802,897	tons
Decorative linerboard	574,476	tons
Wet-strength linerboard	269,107	tons
Functional linerboard	78,501	tons
Other end uses	492,524	tons
Export linerboard	1,221,877	tons

2. Comparison of total production for the years 1960 through 1968 using average tons per company per year:

1960	334,000
1961	301,000
1962	318,000
1963	331,000
1964	347,000
1965	362,000
1966	410,000
1967	402,000
1968	497,000

#### DISCUSSION OF RESULTS

The following companies submitted production data for inclusion in this report:

Alton Box Board Company The Chesapeake Corporation of Virginia Container Corporation of America Continental Can Company, Inc. Crown Zellerbach Corporation Georgia Kraft Company Georgia-Pacific Corporation Great Northern Paper Company (Great Southern Division) Hoerner Waldorf Corporation International Paper Company Olinkraft, Inc. Owens-Illinois, Inc. St. Joe Paper Company St. Regis Paper Company Tennessee River Pulp & Paper Company Union Camp Corporation Western Kraft Corporation Westvaco Corporation Weyerhaeuser Company

Tables II through IV show the total tonnages by grade compiled from the reports of the nineteen companies.

Definitions employed on the report forms submitted by each company are given in Appendix A.

TABLE II

DOMESTIC LINERBOARD

Regular Grades	Tons	% of Total
26 <sup>a</sup>	617,597	9.08
27 - 32	6,377	0.09
33	645,491	9.49
34 - 37	10,098	0.15
38	581,406	8.55
39 - 41	1,987	0.03
42	3,104,742	45.64
43 - 46	68,802	1.01
47	73,619	1.08
48 - 68	77,500	1.14
69	1,215,592	17.87
70 - 89	3,354	0.05
90	389,861	5.73
91 & up	6,471	0.10
Total	6,802,897	

a Includes 2,798 tons of 17 lb.; 26 tons of 24 lb.; and 3,098 tons of 25-lb. linerboard.

TABLE III
SPECIAL LINERBOARD

	Tons
Decorative linerboard	574,476
Wet-strength linerboard	269,107
Functional linerboard	78,501
Other end uses	492,524
Total	1,414,608

TABLE IV

EXPORT LINERBOARD

Grade, 1b.	Tons	Grade, 1b.	Tons
22 <sup>2</sup> 23 24 25 26	624 4,272 1,011 57,601 188,691	57 58 59 60 61	580 256  2 4,398
27 28 29 30 31	281 762  17,338 43,879	62 63 64 65 66	6,392 21,545 30,080  667
32 33 34 35 36	2,997 93,850  13,091 14,736	67 68 69 70 71	1,146 19,010 221,559 1,588
37 38 39 40 41	9,604 59,744 1,283 14,946 89,914	72 73 7 <sup>4</sup> 75 76	9   2,947
42 43 44 45 46	143,090  16 318 14,942	77 78 79 80 81	120  151
47 48 49 50 51	80,528    99	82 83 84 85 86	58   77
52 53 54 55 56	800    	87 88 89 90 91 & up	131   56,104 640
Total			1,221,877

a Includes 43 tons of 17-1b. linerboard.

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THE INSTITUTE OF PAPER CHEMISTRY

R. C. McKee, Chairman

Container Section

#### APPENDIX

#### DEFINITIONS

#### GENERAL

#### 1. Fourdrinier Kraft Board

This report covers all production of fourdrinier kraft board made on Containerboard machines of Containerboard type quality.

## 2. Basis Weight

Pounds per MSF to be reported as the nominal or <u>billed</u> basis weight, rounded off to nearest pound. If a laminated sheet is sold, as for example, 90-lb. linerboard — this is to be reported as Regular 90-lb.

#### 3. Tonnage

Round off to nearest whole ton.

#### 4. Reporting

Report one figure per Company. Do not report by individual Mills, Machines, Divisions, etc.

#### EXPORT FOURDRINIER KRAFT LINERBOARD

Export is <u>all</u> shipments outside of the United States of Fourdrinier Kraft Linerboard classified as Containerboard. If sold on a metric basis this should be expressed as lb./MSF rounded off to nearest whole lb./MSF. Grades are not broken down into end uses, special qualities (e.g., Wet Strength), etc., but are to be reported in the basis weight category that is applicable.

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#### DOMESTIC FOURDRINIER KRAFT LINERBOARD

#### 1. Regular Grades

A. Fourdrinier kraft linerboard made in conventional container board quality for the domestic corrugated container industry. Liner with minimal treatments which do not significantly change their end-use applications, such as antiskid, should also be placed in this category.

Heavyweight linerboards made by lamination should be reported as final billed basis weight and are also put in this category.

- B. Decorative Linerboard Linerboards made for decorative or visual enhancement.
  - 1. Mottled White. Linerboard made with unbleached base and mottled or variegated bleached surface.
  - 2. Solid White. Full bleached linerboard including nonmottled or solid bleached surface.
  - 3. Miscellaneous. All colored bleached and unbleached grades including calender applied colors.
- C. Wet-Strength Linerboard. Water-resistant grades for use in both corrugated and solid fiber V & W board grades. Also included is linerboard for lettuce boxes and other uses which use wet-strength treatments in the component boards.
- D. Functional linerboards, surface treated on the machine with specific properties designed to give a functional use, such as antiabrasion, water repellency, grease resistance, etc.
- E. Other End Uses. Fourdrinier kraft linerboards apparently not intended for corrugated containers. While there may be little or no differences in the boards, they should be put into the proper category whenever the end use is known.
  - l. Solid Fiber Box Stock Fourdrinier kraft linerboard made for solid fiber containers other than V & W grades.
  - 2. Fiber Drums Linerboard sold to converters for the purpose of making fiber drums.
  - 3. Fiber Can Linerboard sold for the fabrication of fiber composite cans.

## DOMESTIC FOURDRINIER KRAFT LINERBOARD (Cont'd)

- 4. Overwraps Linerboard sold for nonbox uses, such as sleeves, bundling machines, preformed container overwraps and roll wrappers.
- 5. Laminating Grades Fourdrinier kraft linerboard, containerboard quality, used for any laminating end-use other than boxes. Again this may be of a different quality than normal containerboard or with properties, specific for laminating. This would include products such as panels, solid fiber structures, fiber drum top and bottoms, etc.
- 6. Fiber Core and Tube Stock Kraft linerboard used in the fabrication of fiber cores and tubes.
- 7. Folding Carton Stock Fourdrinier kraft board made for folding carton use. This would also include coated unbleached boards for cartons, bottle carrier stock, beer carrier stock, etc.