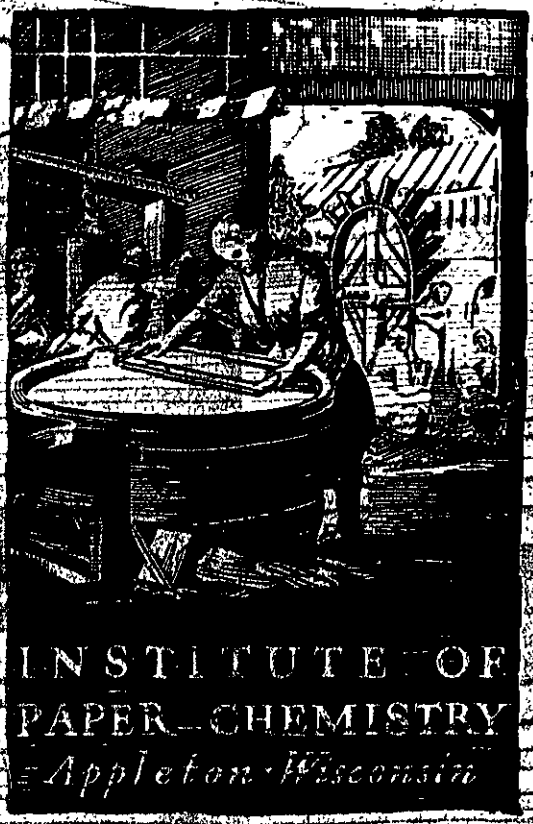


CONTINUOUS BASELINE STUDY

Project 1108-B

Progress Report 60

to

FOURDRINIER KRAFT BOARD INSTITUTE, INC.

July 1, 1952

THE INSTITUTE OF PAPER CHEMISTRY

Appleton, Wisconsin

CONTINUOUS BASELINE STUDY

Project 1108-B

Progress Report 60

to

FOURDRINIER KRAFT BOARD INSTITUTE, INC.

July 1, 1952

THE INSTITUTE OF PAPER CHEMISTRY

Appleton, Wisconsin

In conjunction with the F.K.I. Continuous Baseline Study, one-hundred and one different sample lots of 42-lb. Fourdrinier kraft linerboard were submitted by twelve different F.K.I. mills to The Institute of Paper Chemistry for testing during the period June 1 through June 30. In addition to the 42-lb. kraft linerboard, five samples of special drum stock were also submitted for evaluation by one of the participating mills. The results on the special stock are tabulated separately in this report. A tabulation of the number of samples classified according to mill may be seen in Table I.

TABLE I

DISTRIBUTION OF 42-LB. LINERBOARD SAMPLES

Mill Code	Samples Submitted
A	6
B	20
C	17
D	11
E	2
F	5
G	8
H	5
I	2
J	10
K	0
L	8
M	7
	101

These sample lots were tested for basis weight, caliper, bursting strength, G. E. puncture, and Elmendorf tear. The average strength results for each mill may be seen in Table II and are graphically presented in Figures 1 to 6. In addition to a comparison of the mill averages for the various tests, Table II also shows the current F.K.I. averages, the cumulative F.K.I. averages, and the F.K.I. indexes. The cumulative F.K.I. average includes all the results up to but not including the current period; the current period in the case of this report is June 1 through June 30. The F.K.I. indexes are obtained as follows:

$$\frac{\text{current F.K.I. average}}{\text{cumulative F.K.I. average}} \times 100 = \text{F.K.I. index } (\%)$$

The F.K.I. index provides a ready means of comparing the current quality with previous results. For example, the current F.K.I. average basis weight is 43.1 lb., and the cumulative F.K.I. average basis weight is 43.1 lb. Hence, the index for basis weight determined in per cent as indicated above is 100.0. This signifies that the current average basis weight is the same as the cumulative average, which in this case covered the period from July 25, 1947, through May 31, 1952.

A comparison of the results in Table II and Figure 1 shows that the average basis weight results for all mills except E conform to the 42-lb. specification set forth in Rule 41. Mills D and F have the highest average basis weight, it being 43.8 lb. or approximately 4.3% higher than the 42-lb. specification. On the other hand, Mill E has the lowest average basis weight, it being 41.8 lb., 0.5% lower than the 42-lb. specification.

The amount by which the mills vary from the 42-lb. specification is as follows:

Mill Code	Per Cent
A	+2.9
B	+2.6
C	+2.6
D	+4.3
E	-0.5
F	+4.3
G	+3.6
H	+2.1
I	+1.9
J	+2.6
K	--
L	+2.9
M	+1.0

A comparison of the average basis weight data for the previous period with the current F.K.I. average indicates that the basis weight results have increased slightly.

A comparison of the average caliper values for the various mills (see Figure 2) shows that the mill averages vary from a low of 12.4 for Mill H to a high of 14.6 for Mill F, the average being 13.3 which is somewhat lower than the cumulative average of 14.0

The average bursting strength values obtained for each mill are presented graphically in Figure 3. It may be observed that the average bursting strength values for the various mills range from a low

of 101 for Mill F to a high of 114 for Mill A. The current F.K.I. average bursting strength is 107, slightly higher than the cumulative average of 106.

The data of Table II and Figure 4 show that the average G. E. puncture result for all mills is 34 units. Mill D has the highest G. E. puncture average, 38 units, and Mill J has the lowest average, 30 units. The current F.K.I. average for G. E. puncture of 34 units is slightly lower than the cumulative F.K.I. average which is 36 units.

A graphic comparison of the Elmendorf tear results for the various mills is given in Figures 5 and 6. The data of Table II show that Mills E and F have the highest average machine direction tear value while Mill B has the lowest. Mill F has the highest average cross-machine direction tear value, whereas Mill E has the lowest value. It may be noted that the current F.K.I. average machine and cross-machine direction tear results are lower than the cumulative averages.

A comparison of the F.K.I. indexes indicates that, for the current period, the current F.K.I. averages for caliper, G. E. puncture, and Elmendorf tear are lower than the respective cumulative F.K.I. averages, whereas the current F.K.I. average for bursting strength is higher, and that for basis weight is the same.

In order to compare the variation within a given mill, the test results for each particular mill have been tabulated in Tables III to XV for Mills A to M, respectively. In addition to the current and cumulative averages, the mill factor and mill index are given for each mill. The cumulative mill average is the average test result obtained

on the samples submitted by the particular mill up to, but not including, the current average. The mill factor and the mill index are obtained as follows:

$$\frac{\text{current mill average}}{\text{cumulative mill average}} \times 100 = \text{mill factor } (\%)$$

$$\frac{\text{current mill average}}{\text{cumulative F.K.I. average}} \times 100 = \text{mill index } (\%)$$

The mill factor and the mill index serve as a ready means for comparing the current mill results either with the previous results for that particular mill or with the cumulative F.K.I. results. As the test data accumulate, the factors and indexes acquire added significance. The reports also contain a comparison of the test data obtained at the mills with test data obtained at The Institute of Paper Chemistry.

The results obtained on the special drum stock may be seen in Table XVI.

It may be noted in Tables III through XVI that the data have been separated on the basis of the sheet finish. The summarized results for the mills which submitted sample lots during the current period are as follows:

Mill Code	No. of Sample Lots W.F.	D.F.	Misc.
A	6[a]		
B	20[a]		
C	17		
D	11		
E	2		
	5[b]		

(Continued on next page.)

Mill Code	No. of Sample Lots W.F.	D.F.	Misc.
F	4		1[c]
G	8		
H	5[a]		
I	2[a]		
J			10[d]
L			8[c]
M	7		

[a] One side only.
[b] Drum linerboard.
[c] Sheet finish not reported.
[d] Semi-water finish.

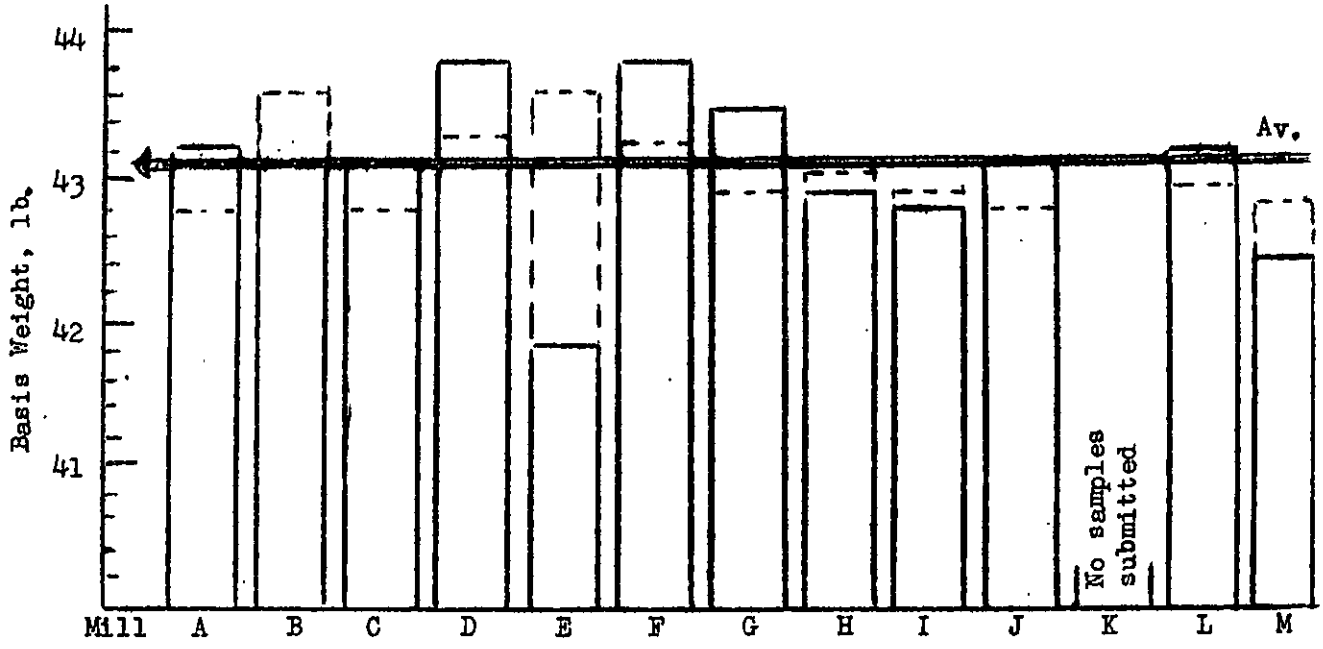
The results indicate that a majority of the mills are using a water finish on their 42-lb. linerboard.

TABLE II

SUMMARY OF COMPOSITE MILL AVERAGES--JUNE 1 THROUGH JUNE 30, 1952

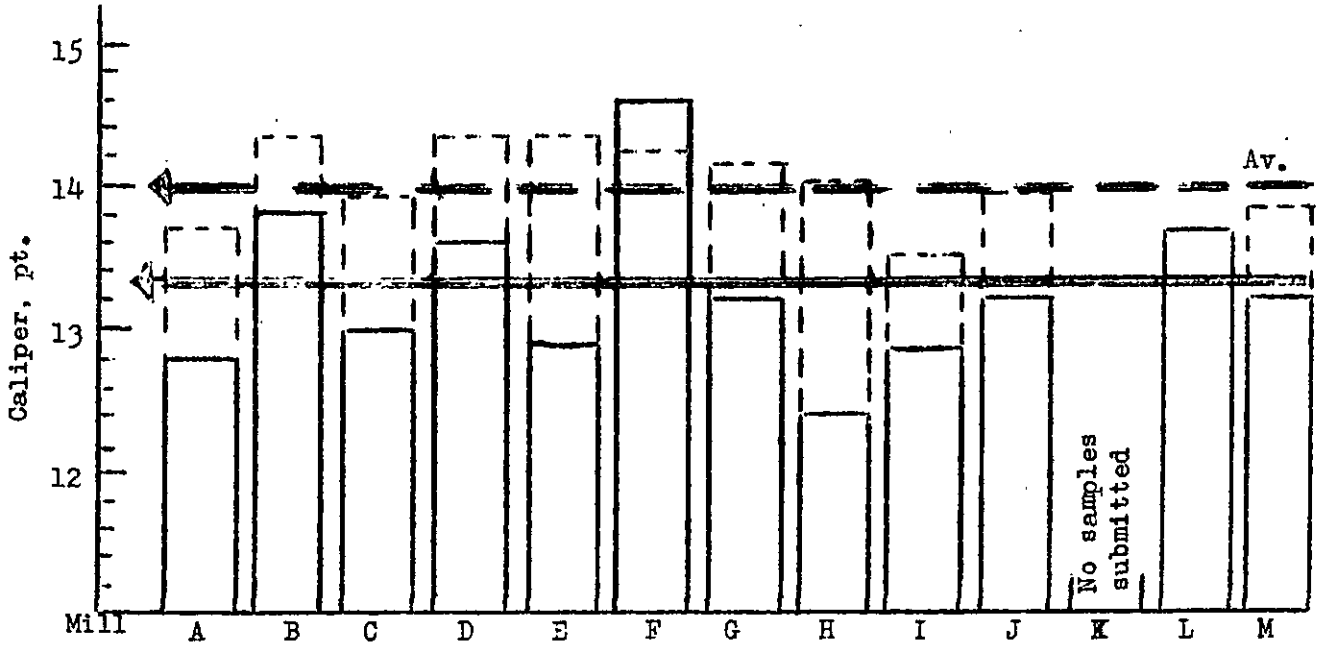
Code No.	Basis Weight, lb.	Caliper, points	Bursting Strength, p.s.i. gage	G. E. Puncture, units	Elmendorf Tear, g./sheet In Direction	Elmendorf Tear, g./sheet Across Direction
A	43.2	12.8	114	35	339	401
B	43.1	13.8	105	31	330	375
C	43.1	13.0	109	36	362	408
D	43.8	13.6	105	38	379	412
E	41.8	12.9	105	32	382	351
F	43.8	14.6	101	37	382	420
G	43.5	13.2	107	35	359	382
H	42.9	12.4	106	34	373	405
I	42.8	12.9	105	32	334	366
J	43.1	13.2	111	30	350	363
K	No samples submitted.					
L	43.2	13.7	103	34	350	381
M	42.4	13.2	109	33	381	386
Current FKI Average:	43.1	13.3	107	34	360	388
Cumulative FKI Average:	43.1	14.0	106	36	374	407
FKI Index, %:	100.0	95.0	100.9	94.4	96.3	95.3

Figure 1



COMPARISON OF BASIS WEIGHT RESULTS
(Period June 1 - June 30)

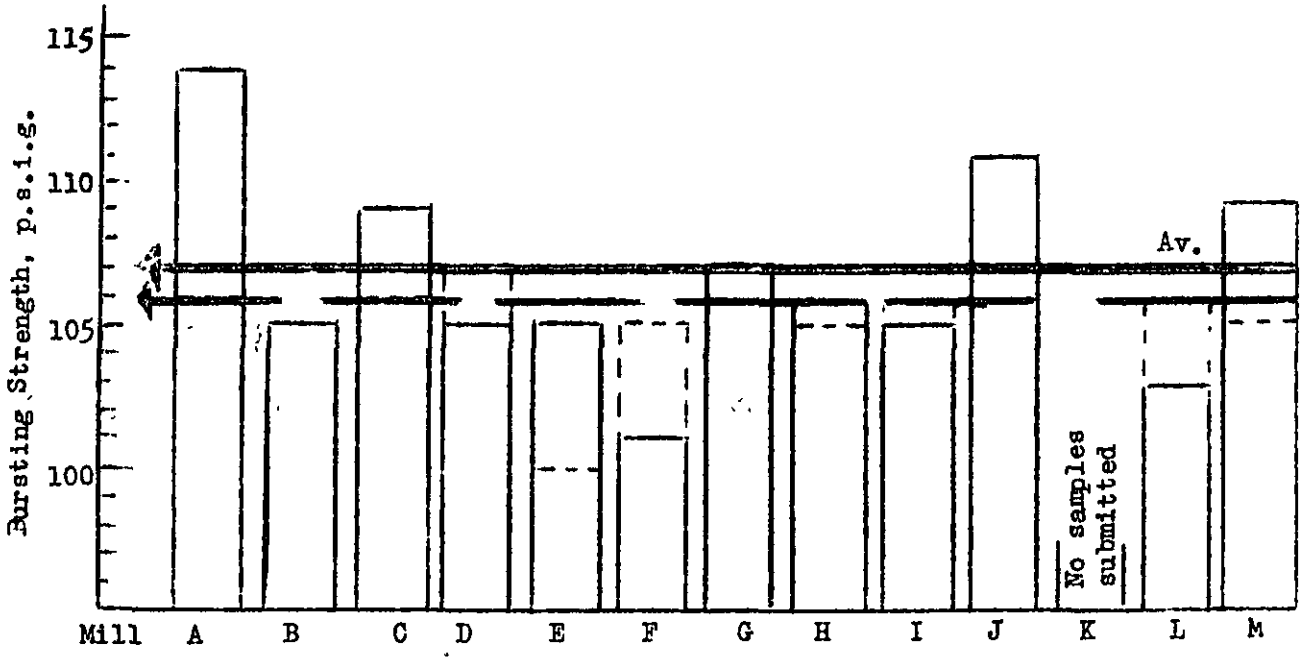
Figure 2



COMPARISON OF CALIPER RESULTS
(Period June 1 - June 30)

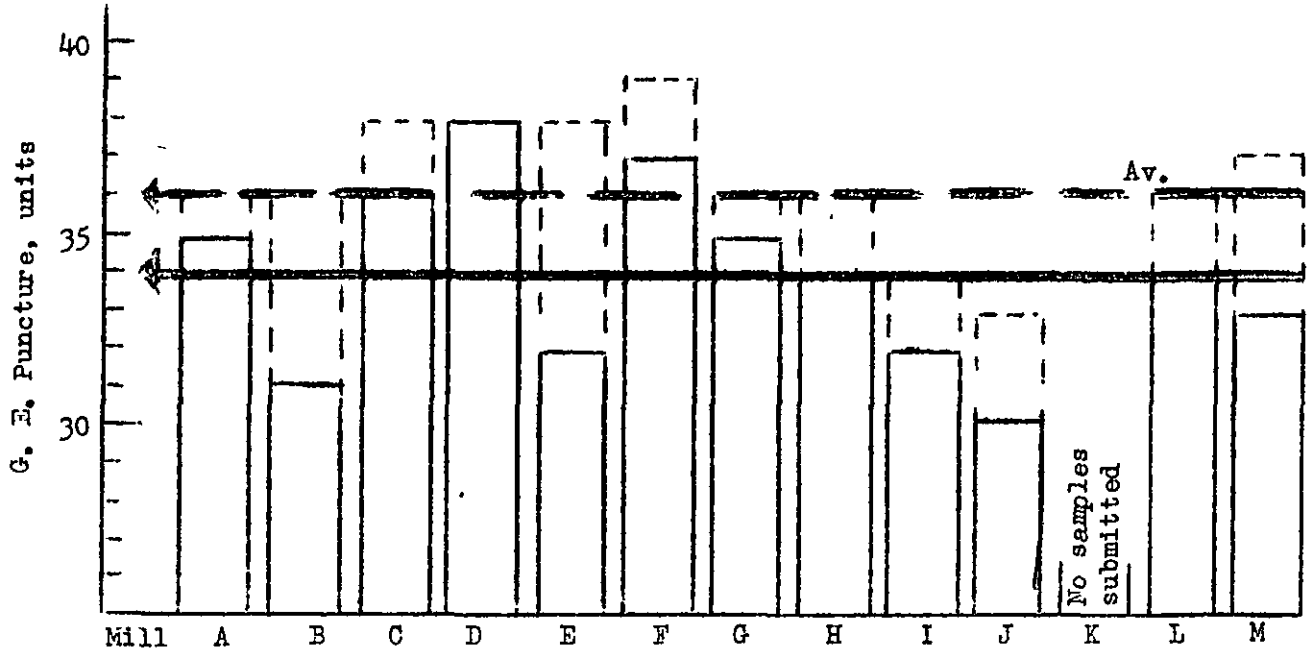
——— Current Mill Average
- - - - Cumulative Average

Figure 3



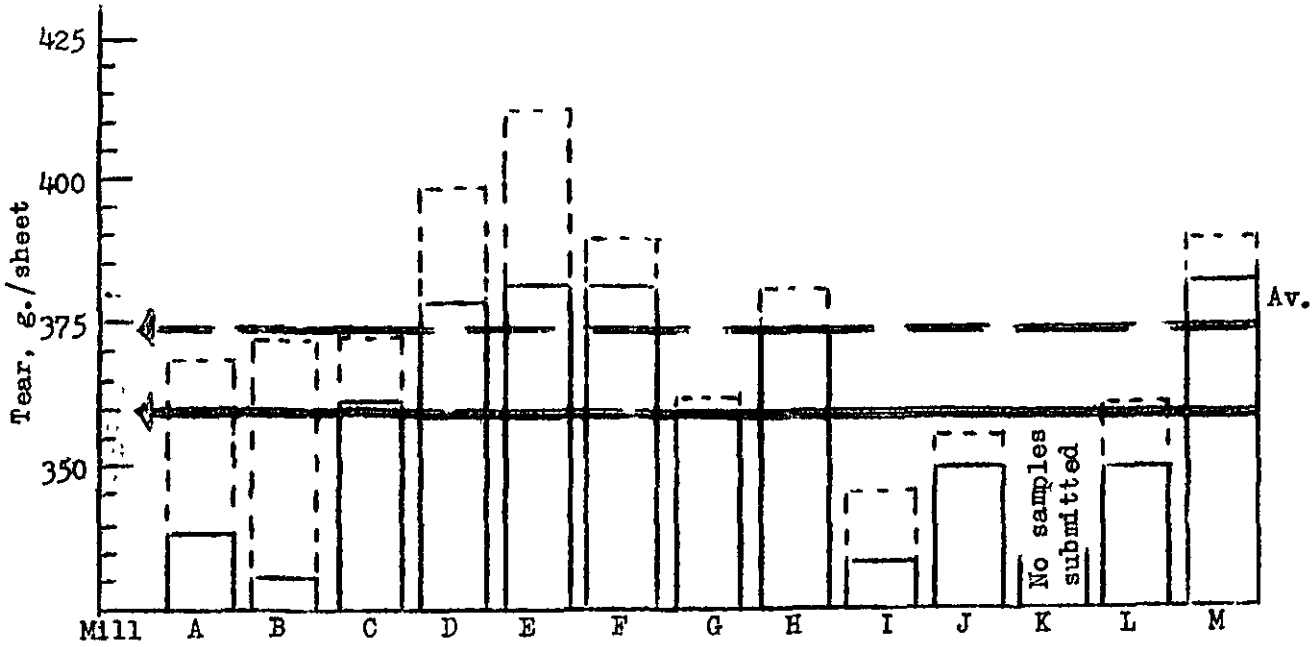
COMPARISON OF BURSTING STRENGTH RESULTS
(Period June 1 - June 30)

Figure 4



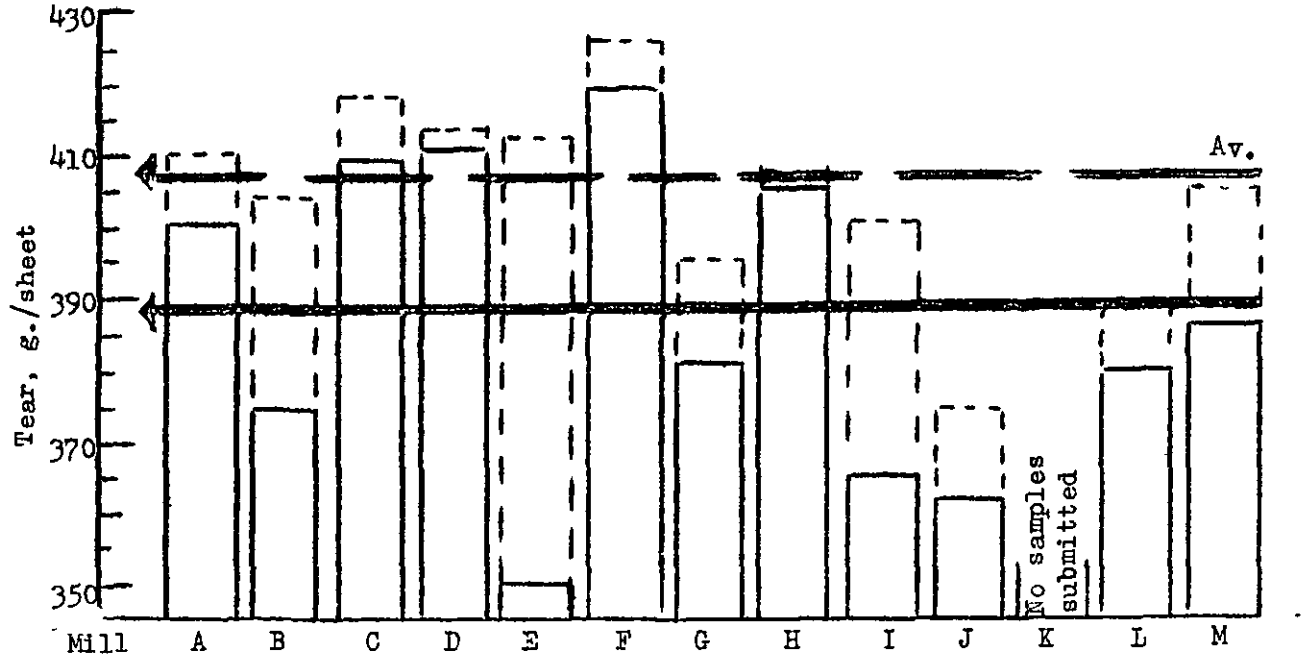
COMPARISON OF G. E. PUNCTURE RESULTS
(Period June 1 - June 30)

Figure 5



COMPARISON OF TEAR RESULTS, Machine Direction
(Period June 1 - June 30)

Figure 6



COMPARISON OF TEAR RESULTS, Across-machine Direction
(Period June 1 - June 30)

TABLE III

SUMMARY OF INDIVIDUAL TEST LOTS--JUNE 1 THROUGH JUNE 30, 1952

›ıs Weight, lb.		Caliper, points			Bursting Strength, p.s.i. gage			G. E. Puncture, units			Elmendorf Tear, g./sheet					
											In			Across		
Min.	Av.	Max.	Mın.	Av.	Max.	Min.	Av.	Max.	Mın	Av.	Max.	Min.	Av.	Max.	Min.	Av.
					Mill A--42-lb. Linerboard											
42.6	44.0	13.0	12.1	12.6	140	100	116	40	32	37	392	280	345[a]	440	360	389[a]
43.0	44.0	13.3	12.0	12.8	142	99	117	39	34	36	392	296	336[a]	440	320	391[a]
42.0	42.3	13.9	12.3	13.1	129	89	110	35	30	32	376	272	329[a]	432	328	383[a]
43.8	44.4	14.5	12.0	13.0	140	85	114	40	32	36	408	304	361	456	384	420[a]
41.8	42.3	13.0	12.4	12.6	130	86	114	37	33	35	408	280	328	448	360	411[a]
41.6	42.2	13.0	12.3	12.7	140	97	113	37	32	34	376	304	337[a]	448	384	414[a]
	43.2			12.8			114			35			339			401
	42.8			13.7			106			36			368			410
	100.9			93.4			107.5			97.2			92.1			97.8
	100.2			91.4			107.5			97.2			90.6			98.5

re specımens which tore beyond the 3/8-ınch lımıt.

TABLE III

SUMMARY OF INDIVIDUAL TEST LOTS--JUNE 1 THROUGH JUNE 30, 1952

File No.	Mill Code	Finish	Date Recd.	Date Made	Mch. No.	Basis Weight, lb. Max.	Basis Weight, lb. Min.	Basis Weight, lb. Av.	Caliper, points Max.	Caliper, points Min.	Caliper, points Av.	Bursting Strength, p.s.i. gage Max.	Bursting Strength, p.s.i. gage Min.	Bursting Strength, p.s.i. gage Av.	G. E. Puncture, units Max.	G. E. Puncture, units Min	G. E. Puncture, units Av.	M
								Mill A--42-lb. Linerboard										
151109	A-350	WF1S	6/11/52	6/ 4/52	2	45.0	42.6	44.0	13.0	12.1	12.6	140	100	116	40	32	37	3
151110	A-351	WF1S	6/11/52	6/ 4/52	2	45.0	43.0	44.0	13.3	12.0	12.8	142	99	117	39	34	36	3
151171	A-352	WF1S	6/19/52	6/ 8/52	1	43.0	42.0	42.3	13.9	12.3	13.1	129	89	110	35	30	32	3
151172	A-353	WF1S	6/19/52	6/13/52	2	45.6	43.8	44.4	14.5	12.0	13.0	140	85	114	40	32	36	4
151204	A-354	WF1S	6/25/52	6/15/52	2	43.0	41.8	42.3	13.0	12.4	12.6	130	86	114	37	33	35	4
151205	A-355	WF1S	6/25/52	6/15/52	2	42.6	41.6	42.2	13.0	12.3	12.7	140	97	113	37	32	34	3
Current Mill Average:								43.2			12.8			114			35	
Cumulative Mill Average:								42.8			13.7			106			36	
Mill Factor, %:								100.9			93.4			107.5			97.2	
Mill Index, %:								100.2			91.4			107.5			97.2	

[a] This average includes the readings for one or more specimens which tore beyond the 3/8-inch limit.

TABLE IV

INDIVIDUAL TEST LOTS--JUNE 1 THROUGH JUNE 30, 1952 (continued)

Weight, lb.		Caliper, points			Bursting Strength, p.s.i. gage			G. E. Puncture, units			Elmendorf Tear, g./sheet In			Elmendorf Tear, g./sheet Across		
Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.
Mill B--42-lb. Linerboard																
41.4	42.9	13.8	12.7	13.2	127	87	105	33	29	31	360	304	338	464	352	387[a]
41.8	43.4	14.4	12.0	13.5	133	88	110	35	30	32	360	264	321[a]	464	312	382[a]
42.0	42.9	14.0	12.4	13.2	120	90	106	35	29	31	392	288	337	424	344	389[a]
41.8	43.5	14.0	11.5	13.3	131	83	106	35	28	32	360	288	323[a]	448	328	381[a]
41.8	43.0	14.7	13.2	13.9	125	90	105	34	29	31	384	312	343	416	328	368[a]
42.2	43.1	14.7	13.3	13.9	119	73	100	33	27	30	376	248	309[a]	384	312	355[a]
42.0	43.2	14.8	13.1	13.9	128	74	98	32	27	30	392	296	331[a]	376	312	348[a]
42.2	43.4	14.8	13.5	14.2	114	70	95	33	26	30	392	272	309[a]	384	320	356[a]
41.4	43.4	15.0	13.2	14.0	118	80	102	34	28	31	368	256	309	400	312	371[a]
42.0	43.2	14.9	12.1	13.8	113	85	101	33	27	30	376	288	321[a]	392	328	359[a]
41.0	43.0	15.0	13.1	14.0	129	81	102	34	28	31	392	280	341[a]	400	328	358[a]
42.0	43.3	14.8	13.0	13.9	126	77	102	33	28	31	392	296	353[a]	472	328	393[a]
42.4	43.8	14.9	13.2	14.0	132	86	111	35	30	32	384	280	328[a]	416	352	382[a]
42.2	43.6	14.8	11.8	13.8	129	88	109	35	30	32	368	304	339[a]	416	328	364[a]
42.0	43.7	15.0	13.0	14.2	134	98	113	35	30	32	440	288	345[a]	456	352	398[a]
42.0	43.2	14.7	13.2	14.0	128	95	110	33	27	31	376	288	328	456	312	389[a]
41.8	42.3	14.7	13.5	14.0	119	70	106	34	28	31	432	272	335[a]	456	352	381[a]
42.0	42.5	15.0	13.3	14.0	133	92	107	34	28	31	384	272	322[a]	416	360	383[a]
42.0	42.4	14.6	13.0	13.8	122	91	109	35	29	32	384	288	327	464	320	387[a]
42.0	42.5	14.9	13.4	14.0	122	91	108	35	29	32	392	288	337	448	336	378[a]
	43.1			13.8			105			31			330			375
	43.6			14.3			105			36			372			404
	98.9			96.5			100.0			86.1			88.7			92.8
	100.0			98.6			99.1			86 1			88.2			92.1

pecimens which tore beyond the 3/8-inch limit.

TABLE IV

SUMMARY OF INDIVIDUAL TEST LOTS--JUNE 1 THROUGH JUNE 30, 1952 (continued)

File No.	Mill Code	Finish	Date Recd.	Date Made	Mch. No.	Basis Weight, lb. Max.	Min.	Av.	Caliper, points Max.	Min.	Av.	Bursting Strength, p.s.i. gage Max.	Min.	Av.	G. E. Puncture, units Max.	Min.	Av.
									Mill B--42-lb. Linerboard								
150982	B-595	WF1S	6/ 2/52	5/19/52	1	44.4	41.4	42.9	13.8	12.7	13.2	127	87	105	33	29	31
151009	B-596	WF1S	6/ 2/52	5/19/52	1	45.0	41.8	43.4	14.4	12.0	13.5	133	88	110	35	30	32
151010	B-597	WF1S	6/ 2/52	5/19/52	1	45.0	42.0	42.9	14.0	12.4	13.2	120	90	106	35	29	31
151011	B-598	WF1S	6/ 2/52	5/19/52	1	45.0	41.8	43.5	14.0	11.5	13.3	131	83	106	35	28	32
151026	B-599	WF1S	6/ 2/52	5/26/52	1	44.2	41.8	43.0	14.7	13.2	13.9	125	90	105	34	29	31
151027	B-600	WF1S	6/ 2/52	5/26/52	1	44.2	42.2	43.1	14.7	13.3	13.9	119	73	100	33	27	30
151028	B-601	WF1S	6/ 2/52	5/26/52	1	44.0	42.0	43.2	14.8	13.1	13.9	128	74	98	32	27	30
151037	B-602	WF1S	6/ 3/52	5/26/52	1	44.2	42.2	43.4	14.8	13.5	14.2	114	70	95	33	26	30
151038	B-603	WF1S	6/ 3/52	5/27/52	1	45.2	41.4	43.4	15.0	13.2	14.0	118	80	102	34	28	31
151029	B-604	WF1S	6/ 2/52	5/27/52	1	44.0	42.0	43.2	14.9	12.1	13.8	113	85	101	33	27	30
151030	B-605	WF1S	6/ 2/52	5/27/52	1	44.2	41.0	43.0	15.0	13.1	14.0	129	81	102	34	28	31
151031	B-606	WF1S	6/2/ 52	5/27/52	1	45.0	42.0	43.3	14.8	13.0	13.9	126	77	102	33	28	31
151080	B-607	WF1S	6/ 9/52	6/ 3/52	1	45.2	42.4	43.8	14.9	13.2	14.0	132	86	111	35	30	32
151081	B-608	WF1S	6/ 9/52	6/ 3/52	1	45.8	42.2	43.6	14.8	11.8	13.8	129	88	109	35	30	32
151082	B-609	WF1S	6/ 9/52	6/ 3/52	1	44.2	42.0	43.7	15.0	13.0	14.2	134	98	113	35	30	32
151083	B-610	WF1S	6/ 9/52	6/ 3/52	1	44.0	42.0	43.2	14.7	13.2	14.0	128	95	110	33	27	31
151155	B-611	WF1S	6/17/52	6/10/52	1	43.0	41.8	42.3	14.7	13.5	14.0	119	70	106	34	28	31
151156	B-612	WF1S	6/17/52	6/10/52	1	43.6	42.0	42.5	15.0	13.3	14.0	133	92	107	34	28	31
151157	B-613	WF1S	6/17/52	6/10/52	1	43.8	42.0	42.4	14.6	13.0	13.8	122	91	109	35	29	32
151158	B-614	WF1S	6/17/52	6/10/52	1	43.6	42.0	42.5	14.9	13.4	14.0	122	91	108	35	29	32
Current Mill Average:								43.1			13.8			105			31
Cumulative Mill Average:								43.6			14.3			105			36
Mill Factor, %:								98.9			96.5			100.0			86.1
Mill Index, %:								100.0			98.6			99.1			86.1

[a] This average includes the readings for one or more specimens which tore beyond the 3/8-inch limit.

TABLE V

INDIVIDUAL TEST LOTS--JUNE 1 THROUGH JUNE 30, 1952 (continued)

asis Weight, lb.			Caliper, points			Bursting Strength, p.s.i. gage			G.E. Puncture, units			Elmendorf Tear, g./sheet					
												In			Across		
x.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.
			Mill C--42-lb. Linerboard														
.8	41.6	43.2	14.1	13.0	13.4	115	77	101	38	33	36	416	320	366[a]	456	368	414[a]
.2	42.0	43.2	12.6	11.2	11.8	140	93	108	36	33	35	400	304	349	432	368	398[a]
.2	42.4	45.4	12.4	11.1	11.8	140	91	116	37	33	35	368	312	342	448	352	385[a]
.0	41.8	42.2	13.4	12.0	12.9	130	90	111	35	31	33	368	304	338[a]	448	368	405[a]
.0	42.0	42.4	13.2	12.2	12.9	128	92	111	36	32	34	408	328	368[a]	456	376	401[a]
.C	42.0	43.2	13.6	12.5	13.0	139	70	105	40	34	37	408	344	372	472	376	426[a]
.0	42.0	43.3	14.1	12.9	13.5	130	66	103	40	33	37	464	312	387[a]	472	376	423[a]
.0	44.0	45.1	13.8	12.2	13.0	137	88	113	42	36	39	424	312	366[a]	464	392	427[a]
.0	43.6	44.8	13.5	12.2	12.9	132	83	107	42	35	39	400	336	367	480	376	415[a]
.6	41.8	42.7	13.8	12.5	13.2	135	82	107	38	33	35	424	312	355[a]	424	368	391[a]
.6	42.0	42.5	13.9	11.9	12.9	131	87	110	36	33	34	448	288	357[a]	440	360	387[a]
.8	41.8	42.6	13.7	12.5	13.1	130	99	114	36	32	34	448	296	356[a]	440	384	405[a]
.8	41.0	42.4	13.8	12.6	13.1	131	97	113	37	32	34	392	320	361	472	376	412[a]
.0	42.2	43.4	13.5	12.2	12.9	124	80	107	40	34	37	408	304	353	448	360	402[a]
8	42.2	43.1	13.2	11.9	12.8	120	84	105	39	32	37	456	328	367	464	376	411[a]
0	42.0	42.9	14.1	13.0	13.4	131	92	110	39	34	37	440	352	380[a]	440	392	417[a]
0	42.0	42.7	14.1	13.0	13.5	125	90	104	40	34	37	408	312	362	440	360	409[a]
		43.1			13.0			109			36			362			408
		42.8			13.9			106			38			373			418
		100.7			93.5			102.8			94.7			97.1			97.6
		100.0			92.9			102.8			100.0			96.8			100.2

ore specimens which tore beyond the 3/8-inch limit.

TABLE V

SUMMARY OF INDIVIDUAL TEST LOTS--JUNE 1 THROUGH JUNE 30, 1952 (continued)

File No.	Mill Code	Finish	DAte Recd.	Date Made	Mch. No.	Basis Weight, lb. Max.	Min.	Av.	Caliper, points Max.	Min.	Av.	Bursting Strength, p.s.i. gage Max.	Min.	Av.	G. E. Puncture, units Max.	Min.	Av.
									Mill C--42-lb. Linerboard								
150985	C-368	W.F.	6/ 2/52	4/17/52	1	43.8	41.6	43.2	14.1	13.0	13.4	115	77	101	38	33	36
150986	C-371	W.F.	6/ 2/52	5/14/52	1	44.2	42.0	43.2	12.6	11.2	11.8	140	93	108	36	33	35
150987	C-372	W.F	6/ 2/52	5/14/52	1	44.2	42.4	43.4	12.4	11.1	11.8	140	91	116	37	33	35
150988	C-373	W.F.	6/ 2/52	5/15/52	1	43.0	41.8	42.2	13.4	12.0	12.9	130	90	111	35	31	33
150989	C-374	W.F.	6/ 2/52	5/15/52	1	43.0	42.0	42.4	13.2	12.2	12.9	128	92	111	36	32	34
150990	C-375	W.F.	6/2/ 52	5/20/52	1	44.0	42.0	43.2	13.6	12.5	13.0	139	70	105	40	34	37
150991	C-376	W.F.	6/ 2/52	5/20/52	1	44.0	42.0	43.3	14.1	12.9	13.5	130	66	103	40	33	37
150992	C-377	W.F.	6/ 2/52	5/21/52	1	46.0	44.0	45.1	13.8	12.2	13.0	137	88	113	42	36	39
150993	C-378	W.F.	6/ 2/52	5/21/52	1	46.0	43.6	44.8	13.5	12.2	12.9	132	83	107	42	35	39
151159	C-379	W.F.	6/17/52	6/ 3/52	1	43.6	41.8	42.7	13.8	12.5	13.2	135	82	107	38	33	35
151160	C-380	W.F.	6/17/52	6/ 4/52	1	43.6	42.0	42.5	13.9	11.9	12.9	131	87	110	36	33	34
151161	C-381	W.F.	6/17/52	6/ 9/52	1	43.8	41.8	42.6	13.7	12.5	13.1	130	99	114	36	32	34
151162	C-382	W.F.	6/17/52	6/ 9/52	1	43.8	41.0	42.4	13.8	12.6	13.1	131	97	113	37	32	34
151190	C-383	W.F.	6/23/52	6/12/52	1	44.0	42.2	43.4	13.5	12.2	12.9	124	80	107	40	34	37
151191	C-384	W.F.	6/23/52	6/12/52	1	43.8	42.2	43.1	13.2	11.9	12.8	120	84	105	39	32	37
151192	C-385	W.F.	6/23/52	6/13/52	1	44.0	42.0	42.9	14.1	13.0	13.4	131	92	110	39	34	37
151193	C-386	W.F.	6/23/52	6/13/52	1	44.0	42.0	42.7	14.1	13.0	13.5	125	90	104	40	34	37
Current Mill Average:								43.1			13.0			109			36
Cumulative Mill Average:								42.8			13.9			106			38
Mill Factor, %:								100.7			93.5			102.8			94.7
Mill Index, %:								100.0			92.9			102.8			100.0

[a] This average includes the readings for one or more specimens which tore beyond the 3/8-inch limit.

TABLE VI

OF INDIVIDUAL TEST LOTS--JUNE 1 THROUGH JUNE 30, 1952 (continued)

ıs Weight, lb.			Caliper, points			Bursting Strength, p.s.i. gage			G. E. Puncture, units			Elmendorf Tear, g./sheet In			Elmendorf Tear, g./sheet Across		
. Mın.	Av.		Max.	Mın.	Av	Max.	Min.	Av	Max.	Min.	Av	Max.	Min.	Av.	Max.	Min.	Av.
			Mill D--42-lb. Linerboard														
2 42.6	43.6		14.8	13.2	14.0	130	80	106	40	34	37	472	288	365[a]	472	400	424[a]
) 42 2	43.6		14.5	13.0	13.7	137	78	108	42	34	38	408	328	374[a]	504	352	427[a]
) 43.0	44.0		14.5	13.2	13.8	128	80	109	43	35	39	424	352	382[a]	488	336	426[a]
) 42.8	44.0		14.0	13.0	13.6	129	74	103	39	32	35	408	328	363[a]	440	344	375[a]
) 43.0	43.7		14.5	13.1	13.6	131	74	106	39	32	36	424	328	367[a]	472	344	415[a]
) 44.0	44.8		14.9	13.9	14.2	122	74	98	42	34	38	480	368	424[a]	440	344	397[a]
+ 43.0	44.0		14.1	12.9	13.7	138	77	109	42	35	38	432	320	371[a]	464	344	409[a]
) 42.0	43.9		14.0	12.4	13.2	131	84	103	42	36	39	424	360	395[a]	504	376	431[a]
) 43.0	43.5		14.1	13.0	13.4	129	79	103	42	35	38	488	328	373[a]	472	360	402[a]
2 42.0	43.3		14.1	12.7	13.3	125	85	106	40	31	37	432	312	366[a]	472	368	418[a]
5 42.6	43.8		13.7	12.5	13.1	118	84	101	41	36	38	432	344	388[a]	472	336	405[a]
	43.8				13.6			105			38			379			412
	43.3				14.3			107			38			398			414
	101.2				95.1			98.1			100.0			95.2			99.5
	101.6				97.1			99.1			105.6			101.3			101.2

TABLE VII

Mill E--42-lb. Linerboard

) 41.6	42.1		14.0	12.3	13.1	120	73	103	35	30	32	472	336	395[a]	408	312	347[a]
) 40.4	41.4		13.6	12.0	12.8	129	87	106	33	29	31	416	328	369[a]	384	320	355[a]
	41.8				12.9			105			32			382			351
	43.6				14.3			100			38			411			413
	95.9				90.2			105.0			84.2			92.9			85.0
	97.0				92.1			99.1			88.9			102.1			86.2

ıre specimens which tore beyond the 3/8-inch limit.

TABLE VI

SUMMARY OF INDIVIDUAL TEST LOTS--JUNE 1 THROUGH JUNE 30, 1952 (continued)

File No.	Mill Code	Finish	Date Recd.	Date Made	Mch. No.	Basis Weight, lb. Max.	Min.	Av.	Caliper, points Max.	Min.	Av.	Bursting Strength, p.s.i. gage Max.	Min.	Av	G. E. Puncture, units Max.	Min.	Av
									Mill D--42-lb. Linerboard								
150996	D-537	W.F.	6/ 2/52	5/25/52	4	44.2	42.6	43.6	14.8	13.2	14.0	130	80	106	40	34	37
151012	D-538	W.F.	6/ 2/52	5/26/52	4	44.0	42.2	43.6	14.5	13.0	13.7	137	78	108	42	34	38
151013	D-539	W.F.	6/ 2/52	5/27/52	4	45.0	43.0	44.0	14.5	13.2	13.8	128	80	109	43	35	39
151041	D-540	W.F.	6/ 4/52	6/ 1/52	4	46.0	42.8	44.0	14.0	13.0	13.6	129	74	103	39	32	35
151042	D-541	W.F.	6/ 4/52	6/ 2/52	4	44.0	43.0	43.7	14.5	13.1	13.6	131	74	106	39	32	36
151111	D-542	W.F.	6/11/52	6/8/ 52	4	46.0	44.0	44.8	14.9	13.9	14.2	122	74	98	42	34	38
151125	D-543	W.F.	6/12/52	6/ 9/52	4	44.4	43.0	44.0	14.1	12.9	13.7	138	77	109	42	35	38
151166	D-544	W.F.	6/18/52	6/16/52	4	45.0	42.0	43.9	14.0	12.4	13.2	131	84	103	42	36	39
151177	D-545	W.F.	6/19/52	6/17/52	4	44.0	43.0	43.5	14.1	13.0	13.4	129	79	103	42	35	38
151184	D-546	W.F.	6/23/52	6/18/52	4	44.2	42.0	43.3	14.1	12.7	13.3	125	85	106	40	31	37
151202	D-547	W.F.	6/25/52	6/20/52	4	44.6	42.6	43.8	13.7	12.5	13.1	118	84	101	41	36	38
Current Mill Average:								43.8			13.6			105			38
Cumulative Mill Average:								43.3			14.3			107			38
Mill Factor, %:								101.2			95.1			98.1			100.0
Mill Index, %:								101.6			97.1			99.1			105.6

TABLE VII

									Mill E--42-lb. Linerboard								
151008	E-338	W.F.	6/ 2/52	5/26/52	1	43.6	41.6	42.1	14.0	12.3	13.1	120	73	103	35	30	32
151032	E-339	W.F.	6/ 2/52	5/27/52	1	42.2	40.4	41.4	13.6	12.0	12.8	129	87	106	33	29	31
Current Mill Average:								41.8			12.9			105			32
Cumulative Mill Average:								43.6			14.3			100			38
Mill Factor, %:								95.9			90.2			105.0			84.2
Mill Index, %:								97.0			92.1			99.1			88.9

[a] This average includes the readings for one or more specimens which tore beyond the 3/8-inch limit.

TABLE VIII

ARY OF INDIVIDUAL TEST LOTS--JUNE 1 THROUGH JUNE 30, 1952 (continued)

Basis Weight, lb.			Caliper, points			Bursting Strength, p.s.i. gage			G. E. Puncture, units			Elmendorf Tear, g./sheet In			Elmendorf Tear, g./sheet Across		
ax.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.
Mill F--42-lb. Linerboard																	
5.0	42.4	43.4	16.2	15.0	15.4	116	83	98	41	36	38	408	344	381[a]	464	368	400[a]
5.0	42.0	44.0	15.2	14.0	14.5	118	84	101	41	35	38	432	352	393[a]	464	392	421[a]
5.6	42.2	44.1	16.0	14.4	15.1	114	72	99	42	35	38	424	320	383	480	360	429[a]
6.0	41.0	44.2	15.2	13.8	14.5	118	90	106	40	34	37	416	352	386[a]	488	408	442[a]
4.2	42.0	43.2	14.5	12.5	13.5	115	86	100	40	32	36	400	328	367[a]	456	368	407[a]
		43.8			14.6			101			37			382			420
		43.2			14.2			105			39			388			427
		101.4			102.8			96.2			94.9			98.5			98.4
		101.6			104.3			95.3			102.8			102.1			103.2

TABLE IX

Mill G--42-lb. Linerboard																	
4.2	43.0	43.8	14.2	12.7	13.5	120	80	100	38	32	34	392	296	351	400	344	375[a]
5.8	43.0	44.1	14.5	12.4	13.3	129	80	102	38	32	34	384	328	359[a]	400	312	355[a]
3.4	41.3	42.4	13.4	11.5	12.4	145	92	113	33	29	31	336	280	322[a]	408	344	373[a]
3.8	41.4	42.3	13.2	11.9	12.4	129	85	111	33	30	32	384	312	347	408	328	367[a]
5.4	44.0	44.2	14.9	12.8	14.0	135	84	107	39	32	37	432	336	374[a]	464	352	407[a]
5.6	44.0	44.5	14.4	12.6	13.2	132	82	105	39	34	37	424	312	369[a]	432	344	379[a]
4.0	42.4	43.3	14.2	13.0	13.6	129	89	112	38	33	36	400	336	377[a]	448	352	384[a]
4.0	43.2	43.7	14.1	12.7	13.4	134	86	109	38	32	35	416	320	371[a]	464	368	418[a]
		43.5			13.2			107			35			359			382
		42.9			14.1			107			36			362			395
		101.4			93.6			100.0			97.2			99.2			96.7
		100.9			94.3			100.9			97.2			96.0			93.9

TABLE VIII

SUMMARY OF INDIVIDUAL TEST LOTS--JUNE 1 THROUGH JUNE 30, 1952 (continued)

File No.	Mill Code	Finish	Date Recd.	Date Made	Mch. No.	Basis Weight, lb. Max.	Basis Weight, lb. Min.	Basis Weight, lb. Av.	Caliper, points Max.	Caliper, points Min.	Caliper, points Av.	Bursting Strength, p.s.i. gage Max.	Bursting Strength, p.s.i. gage Min.	Bursting Strength, p.s.i. gage Av.	G. E. Puncture, units Max.	G. E. Puncture, units Min.	G. E. Puncture, units Av.	M
Mill F--42-lb. Linerboard																		
150980	F-33	--	6/ 2/52	5/15/52	--	45.0	42.4	43.4	16.2	15.0	15.4	116	83	98	41	36	38	4
151056	F-34	W.F.	6/7/ 52	5/20/52	--	45.0	42.0	44.0	15.2	14.0	14.5	118	84	101	41	35	38	4
151057	F-35	W.F.	6/ 7/52	5/21/52	--	45.6	42.2	44.1	16.0	14.4	15.1	114	72	99	42	35	38	4
151058	F-36	W.F.	6/ 7/52	5/22/52	--	46.0	41.0	44.2	15.2	13.8	14.5	118	90	106	40	34	37	4
151091	F-37	W.F.	6/10/52	5/29/52	--	44.2	42.0	43.2	14.5	12.5	13.5	115	86	100	40	32	36	4
Current Mill Average:								43.8			14.6			101			37	
Cumulative Mill Average:								43.2			14.2			105			39	
Mill Factor, %:								101.4			102.8			96.2			94.9	
Mill Index, %:								101.6			104.3			95.3			102.8	

TABLE IX

File No.	Mill Code	Finish	Date Recd.	Date Made	Mch. No.	Basis Weight, lb. Max.	Basis Weight, lb. Min.	Basis Weight, lb. Av.	Caliper, points Max.	Caliper, points Min.	Caliper, points Av.	Bursting Strength, p.s.i. gage Max.	Bursting Strength, p.s.i. gage Min.	Bursting Strength, p.s.i. gage Av.	G. E. Puncture, units Max.	G. E. Puncture, units Min.	G. E. Puncture, units Av.	M
Mill G--42-lb. Linerboard																		
151035	G-420	WFL	6/ 2/52	5/29/52	1	44.2	43.0	43.8	14.2	12.7	13.5	120	80	100	38	32	34	3
151036	G-421	WFL	6/ 2/52	5/29/52	1	45.8	43.0	44.1	14.5	12.4	13.3	129	80	102	38	32	34	3
151130	G-422	WFL	6/13/52	6/ 7/52	1	43.4	41.3	42.4	13.4	11.5	12.4	145	92	113	33	29	31	3
151131	G-423	WFL	6/13/52	6/ 7/52	1	43.8	41.4	42.3	13.2	11.9	12.4	129	85	111	33	30	32	3
151145	G-424	WFL	6/16/52	6/10/52	1	45.4	44.0	44.2	14.9	12.8	14.0	135	84	107	39	32	37	4
151146	G-425	WFL	6/16/52	6/10/52	1	45.6	44.0	44.5	14.4	12.6	13.2	132	82	105	39	34	37	4
151188	G-426	WFL	6/23/52	6/19/52	1	44.0	42.4	43.3	14.2	13.0	13.6	129	89	112	38	33	36	4
151189	G-427	WFL	6/23/52	6/19/52	1	44.0	43.2	43.7	14.1	12.7	13.4	134	86	109	38	32	35	4
Current Mill Average:								43.5			13.2			107			35	
Cumulative Mill Average:								42.9			14.1			107			36	
Mill Factor, %:								101.4			93.6			100.0			97.2	
Mill Index, %:								100.9			94.3			100.9			97.2	

[a] This average includes the readings for one or more specimens which tore beyond the 3/8-inch limit.

[a] See next page.

TABLE X

INDIVIDUAL TEST LOTS--JUNE 1 THROUGH JUNE 30, 1952 (continued)

sis Weight, lb.		Caliper, points			Bursting Strength, p.s.i. gage			G. E. Puncture, units			Elmendorf Tear, g./sheet					
											In			Across		
Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.
		Mill H--42-lb. Linerboard														
42.0	42.8	12.9	11.9	12.3	122	75	101	39	33	36	456	304	370	456	344	401[a]
42.4	43.2	12.7	11.9	12.2	117	81	106	37	32	35	448	328	387[a]	464	352	401[a]
41.8	42.9	13.5	12.1	12.8	145	90	108	37	29	32	416	256	357[a]	448	368	404[a]
41.8	42.4	12.3	11.7	12.0	133	83	111	37	31	33	496	344	392[a]	440	344	387[a]
42.0	43.3	13.9	11.9	12.6	145	79	105	40	30	35	448	288	357[a]	472	392	431[a]
	42.9			12.4			106			34			373			405
	43.0			14.0			105			36			381			407
	99.8			88.6			101.0			94.4			97.9			99.5
	99.5			88.6			100.0			94.4			99.7			99.5

TABLE XI

		Mill I--42-lb. Linerboard														
42.2	42.6	13.0	12.1	12.7	118	87	102	33	29	31	392	288	313	416	328	354[a]
42.0	43.1	13.7	12.5	13.1	124	86	108	35	30	32	408	320	355[a]	432	328	378[a]
	42.8			12.9			105			32			334			366
	42.9			13.5			106			34			345			402
	99.8			95.6			99.1			94.1			96.8			91.0
	99.3			92.1			99.1			88.9			89.3			89.9

e specimens which tore beyond the 3/8-inch limit.

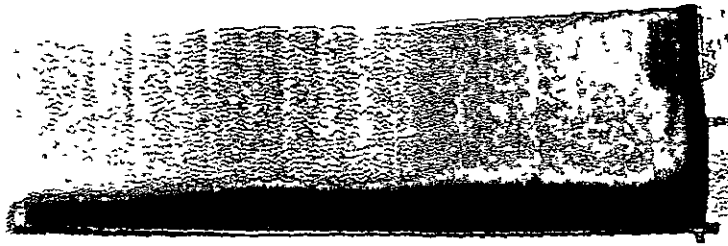


TABLE X

SUMMARY OF INDIVIDUAL TEST LOTS--JUNE 1 THROUGH JUNE 30, 1952 (continued)

File No.	Mill Code	Finish	Date Recd.	Date Made	Mch. No.	Basis Weight, lb. Max.	Basis Weight, lb. Min.	Basis Weight, lb. Av.	Caliper, points Max.	Caliper, points Min.	Caliper, points Av.	Bursting Strength, p.s.i. gage Max.	Bursting Strength, p.s.i. gage Min.	Bursting Strength, p.s.i. gage Av.	G. E. Puncture, units Max.	G. E. Puncture, units Min.	G. E. Puncture, units Av.	G. E. Puncture, units Max
								Mill H--42-lb. Linerboard										
151126	H-320	WF1S	6/12/52	6/ 2/52	2	43.8	42.0	42.8	12.9	11.9	12.3	122	75	101	39	33	36	456
151127	H-321	WF1S	6/12/52	6/ 3/52	2	43.8	42.4	43.2	12.7	11.9	12.2	117	81	106	37	32	35	448
151173	H-322	WF1S	6/19/52	6/10/52	2	44.0	41.8	42.9	13.5	12.1	12.8	145	90	108	37	29	32	416
151174	H-323	WF1S	6/19/52	6/11/52	2	43.0	41.8	42.4	12.3	11.7	12.0	133	83	111	37	31	33	496
151201	H-324	WF1S	6/25/52	6/16/52	2	44.0	42.0	43.3	13.9	11.9	12.6	145	79	105	40	30	35	448
Current Mill Average:								42.9			12.4			106			34	
Cumulative Mill Average:								43.0			14.0			105			36	
Mill Factor, %:								99.8			88.6			101.0			94.4	
Mill Index, %:								99.5			88.6			100.0			94.4	

TABLE XI

								Mill I--42-lb. Linerboard										
150981	I-237	WF1S	6/ 2/52	5/21/52	1	43.4	42.2	42.6	13.0	12.1	12.7	118	87	102	33	29	31	392
151090	I-238	WF1S	6/ 9/52	6/ 3/52	1	44.0	42.0	43.1	13.7	12.5	13.1	124	86	108	35	30	32	408
Current Mill Average:								42.8			12.9			105			32	
Cumulative Mill Average:								42.9			13.5			106			34	
Mill Factor, %:								99.8			95.6			99.1			94.1	
Mill Index, %:								99.3			92.1			99.1			88.9	

[a] This average includes the readings for one or more specimens which tore beyond the 3/8-inch limit.

TABLE XII

OF INDIVIDUAL TEST LOTS--JUNE 1 THROUGH JUNE 30, 1952 (continued)

Weight,		Caliper, points			Bursting Strength, p.s.i. gage			G. E. Puncture, units			Elmendorf Tear, g./sheet					
											In			Across		
Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.
Mill J--42-lb. Linerboard																
41.4	42.0	13.3	12.0	12.8	128	97	110	32	28	29	400	320	371[a]	432	304	359[a]
41.8	41.9	13.1	12.2	12.7	139	80	112	32	28	30	408	320	363[a]	400	320	353[a]
42.2	43.4	14.1	13.2	13.6	132	91	112	34	28	31	392	296	349[a]	440	312	365[a]
42.2	43.2	13.8	12.9	13.3	128	89	109	33	28	31	440	312	359[a]	400	312	349[a]
43.4	44.1	14.0	12.9	13.3	133	90	111	34	28	31	472	288	353[a]	443	352	392[a]
42.4	43.8	13.9	12.8	13.2	122	80	108	32	28	31	408	328	367[a]	416	336	361[a]
42.4	43.4	13.8	12.9	13.2	136	100	114	31	26	29	416	296	346[a]	408	344	363[a]
42.8	43.4	13.5	12.8	13.1	133	91	114	32	28	30	368	320	340[a]	416	344	377[a]
42.0	42.7	13.9	13.0	13.3	121	87	107	31	28	29	384	288	327[a]	392	304	350[a]
42.0	42.8	14.0	13.0	13.4	132	101	114	30	27	29	352	304	323	400	344	363[a]
	43.1			13.2			111			30			350			363
	42.8			13.9			106			33			355			375
	100.7			95.0			104.7			90.9			98.6			96.8
	100.0			94.3			104.7			83.3			93.6			89.2

TABLE XIII

Mill K--42-lb. Linerboard

No samples submitted.

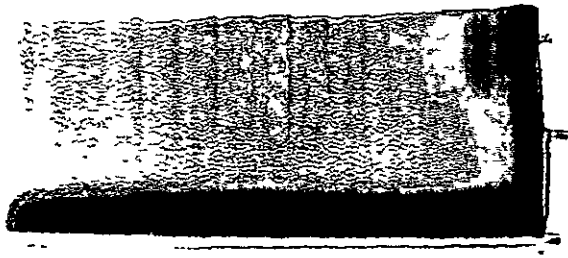


TABLE XII

SUMMARY OF INDIVIDUAL TEST LOTS--JUNE 1 THROUGH JUNE 30, 1952 (continued)

ıle o.	Mill Code	Fin- ish	Date Recd.	Date Made	Mch. No.	Basis Weight, lb.			Caliper, points			Bursting Strength, p.s.i. gage			G. E. Puncture, units			Elmend g./ In		
						Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.
									Mill J--42-lb. Linerboard											
50994	J-355	B.F.	6/ 2/52	5/ 8/52	1	42.4	41.4	42.0	13.3	12.0	12.8	128	97	110	32	28	29	400	320	371[a]
50995	J-356	B.F.	6/ 2/52	5/ 8/52	1	42.0	41.8	41.9	13.1	12.2	12.7	139	80	112	32	28	30	408	320	363[a]
51033	J-357	B.F.	6/ 2/52	4/16/52	1	44.0	42.2	43.4	14.1	13.2	13.6	132	91	112	34	28	31	392	296	349[a]
51034	J-358	B.F.	6/ 2/52	5/24/52	1	44.2	42.2	43.2	13.8	12.9	13.3	128	89	109	33	28	31	440	312	359[a]
51088	J-359	B F.	6/ 9/52	6/ 1/52	1	44.6	43.4	44.1	14.0	12.9	13.3	133	90	111	34	28	31	472	288	353[a]
51089	J-360	B.F.	6/ 9/52	6/ 1/52	1	44.2	42.4	43.8	13.9	12.8	13.2	122	80	108	32	28	31	408	328	367[a]
51147	J-361	B.F.	6/16/52	6/ 7/52	1	44.2	42.4	43.4	13.8	12.9	13.2	136	100	114	31	26	29	416	296	346[a]
51148	J-362	B.F	6/16/52	6/ 7/52	--	44.2	42.8	43.4	13.5	12.8	13.1	133	91	114	32	28	30	368	320	340[a]
51186	J-363	B.F.	6/23/52	6/14/52	1	43.6	42.0	42.7	13.9	13.0	13.3	121	87	107	31	28	29	384	288	327[a]
51187	J-364	B.F.	6/23/52	6/14/52	1	43.8	42.0	42.8	14.0	13.0	13.4	132	101	114	30	27	29	352	304	323
urrent Mill Average:								43.1			13.2			111			30			350
umulative Mill Average:								42.8			13.9			106			33			355
ıll Factor, %:								100.7			95.0			104.7			90.9			98.6
ıll Index, %:								100.0			94.3			104.7			83.3			93.6

TABLE XIII

Mill K--42-lb. Linerboard

No samples submitted.

TABLE XIV

OF INDIVIDUAL TEST LOTS--JUNE 1 THROUGH JUNE 30, 1952 (continued)

Weight, lb.		Caliper, points			Bursting Strength, p.s.i. gage			G. E. Puncture, units			Elmendorf Tear, g./sheet					
											In			Across		
Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.
		Mill L--42-lb. Linerboard														
41.6	42.2	13.9	12.3	13.2	129	74	102	37	31	34	336	296	315[a]	408	328	369[a]
43.4	44.0	14.6	13.3	13.9	128	63	100	40	34	37	400	320	350[a]	424	344	390[a]
42.4	43.6	15.0	13.5	14.4	119	66	96	38	30	35	416	320	356[a]	408	320	369[a]
42.4	44.1	14.8	13.4	14.3	128	80	107	39	31	35	400	328	367[a]	432	360	387[a]
43.0	43.8	14.8	13.6	14.2	133	92	113	36	32	34	440	328	379[a]	448	328	381[a]
42.2	43.1	13.8	12.1	12.9	128	83	105	34	29	32	360	304	329[a]	416	328	375[a]
41.8	42.3	14.3	13.2	13.9	122	71	99	36	31	33	392	320	353[a]	432	336	379[a]
42.0	42.4	13.8	12.0	12.8	127	75	105	37	31	34	392	312	357[a]	432	376	401[a]
	43.2			13.7			103			34			350			381
	42.9			13.7			106			36			361			390
	100 7			100.0			97.2			94.4			97.0			97.7
	100.2			97.9			97.2			94.4			93.6			93.6

TABLE XV

		Mill M--42-lb. Linerboard														
40.2	41.5	13.6	12.8	13.2	130	88	104	36	30	32	416	320	377[a]	424	304	363[a]
40.8	42.5	13.2	12.2	12.7	133	97	117	35	30	32	456	336	391[a]	416	304	368[a]
42.0	43.8	13.6	13.0	13.2	130	92	110	35	30	33	440	312	389[a]	448	352	395[a]
40.0	41.9	13.5	12.5	13.1	140	92	114	36	29	32	488	304	399[a]	416	336	377[a]
41.8	43.2	13.9	12.8	13.4	122	84	106	39	31	35	448	296	378[a]	432	376	403[a]
41.8	42.6	14.0	12 9	13.4	122	95	106	36	31	34	432	336	383	432	352	391[a]
40.0	41.5	13.7	12.8	13.2	133	91	108	34	30	32	384	296	349[a]	448	360	405[a]
	42.4			13.2			109			33			381			386
	42.8			13.8			105			37			388			406
	99.1			95.7			103.8			89.2			98.2			95.1
	98 4			94.3			102.8			91.7			101.9			94.8

specimens which tore beyond the 3/8-inch limit.

TABLE XIV

SUMMARY OF INDIVIDUAL TEST LOTS--JUNE 1 THROUGH JUNE 30, 1952 (continued)

File No.	Mill Code	Finish	Date Recd.	Date Made	Mch. No.	Basis Weight, lb. Max.	Basis Weight, lb. Min.	Basis Weight, lb. Av.	Caliper, points Max.	Caliper, points Min.	Caliper, points Av.	Bursting Strength, p.s.i. gage Max.	Bursting Strength, p.s.i. gage Min.	Bursting Strength, p.s.i. gage Av.	G. E. Puncture, units Max.	G. E. Puncture, units Min.	G. E. Puncture, units Av.	Ma
Mill L--42-lb. Linerboard																		
150983	L-91		6/ 2/52	4/29/52	1	43.0	41.6	42.2	13.9	12.3	13.2	129	74	102	37	31	34	3
150984	L-92		6/ 2/52	5/ 4/52	1	45.2	43.4	44.0	14.6	13.3	13.9	128	63	100	40	34	37	4
151084	L-93		6/ 9/52	5/24/52	1	45.4	42.4	43.6	15.0	13.5	14.4	119	66	96	38	30	35	4
151085	L-94		6/ 9/52	5/27/52	1	46.0	42.4	44.1	14.8	13.4	14.3	128	80	107	39	31	35	4
151142	L-95		6/16/52	5/16/52	1	44.4	43.0	43.8	14.8	13.6	14.2	133	92	113	36	32	34	4
151143	L-96		6/16/52	5/26/52	1	43.8	42.2	43.1	13.8	12.1	12.9	128	83	105	34	29	32	3
151182	L-97		6/23/52	6/ 8/52	1	43.0	41.8	42.3	14.3	13.2	13.9	122	71	99	36	31	33	3
151183	L-98		6/23/52	6/ 9/52	1	43.2	42.0	42.4	13.8	12.0	12.8	127	75	105	37	31	34	3
Current Mill Average:								43.2			13.7			103			34	
Cumulative Mill Average:								42.9			13.7			106			36	
Mill Factor, %:								100.7			100.0			97.2			94.4	
Mill Index, %:								100.2			97.9			97.2			94.4	

TABLE XV

Mill M--42-lb. Linerboard

150978	M-95	W.	6/ 2/52	5/18/52	2	43.8	40.2	41.5	13.6	12.8	13.2	130	88	104	36	30	32	4
150979	M-96	W.	6/ 2/52	5/20/52	2	43.6	40.8	42.5	13.2	12.2	12.7	133	97	117	35	30	32	4
151039	M-97	W.	6/ 3/52	5/28/52	2	45.8	42.0	43.8	13.6	13.0	13.2	130	92	110	35	30	33	4
151040	M-98	W.	6/ 3/52	5/29/52	2	44.2	40.0	41.9	13.5	12.5	13.1	140	92	114	36	29	32	4
151086	M-99	W.	6/ 9/52	6/ 2/52	2	45.0	41.8	43.2	13.9	12.8	13.4	122	84	106	39	31	35	4
151087	M-100	W.	6/ 9/52	6/ 2/52	4	44.2	41.8	42.6	14.0	12.9	13.4	122	95	106	36	31	34	4
151180	M-101	W.	6/20/52	6/ 9/52	2	43.0	40.0	41.5	13.7	12.8	13.2	133	91	108	34	30	32	3
Current Mill Average:								42.4			13.2			109			33	
Cumulative Mill Average:								42.8			13.8			105			37	
Mill Factor, %:								99.1			95.7			103.8			89.2	
Mill Index, %:								98.4			94.3			102.8			91.7	

[a] This average includes the readings for one or more specimens which tore beyond the 3/8-inch limit.

TABLE XVI

INDIVIDUAL TEST LOTS--JUNE 1 THROUGH JUNE 30, 1952 (continued)

Weight, lb.		Caliper, points			Bursting Strength, p.s.i. gage			G. E. Puncture, units			Elmendorf Tear, g./sheet					
											In			Across		
Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.
					Mill E--44/46-lb. Drum Linerboard											
6.6	48.0	14.8	13.4	14.1	118	83	96	42	33	37	504	400	447[a]	440	360	406[a]
7.0	47.9	15.0	13.3	14.3	126	83	102	39	35	37	488	408	447[a]	448	352	396[a]
0.0	41.1	14.0	12.5	13.3	118	94	109	34	31	32	480	360	393[a]	424	344	383[a]
6.8	48.8	15.7	14.1	15.0	115	77	94	42	36	39	504	392	445[a]	448	296	392[a]
7.2	48.1	15.5	13.7	14.6	127	77	105	39	34	37	488	368	431[a]	408	328	369[a]
	46.8			14.3			101			37			433			389
	47.2			14.3			100			40			444			422
	99.2			100.0			101.0			92.5			97.5			92.2

[a] Specimens which tore beyond the 3/8-inch limit.

TABLE XVI

SUMMARY OF INDIVIDUAL TEST LOTS--JUNE 1 THROUGH JUNE 30, 1952 (continued)

File No.	Mill Code	Finish	Date Recd.	Date Made	Mch. No.	Basis Weight, lb. Max.	Basis Weight, lb. Min.	Basis Weight, lb. Av.	Caliper, points Max.	Caliper, points Min.	Caliper, points Av.	Bursting Strength, p.s.i. gage Max.	Bursting Strength, p.s.i. gage Min.	Bursting Strength, p.s.i. gage Av.	G. E. Puncture, units Max.	G. E. Puncture, units Min.	G. E. Puncture, units Av.
								Mill E--44/46-lb. Drum Linerboard									
151043	E-340	W.F.	6/ 5/52	6/ 2/52	1	49.8	46.6	48.0	14.8	13.4	14.1	118	83	96	42	33	37
151128	E-342	W.F.	6/12/52	6/ 9/52	1	48.6	47.0	47.9	15.0	13.3	14.3	126	83	102	39	35	37
151144	E-343	W.F.	6/16/52	6/10/52	1	43.0	40.0	41.1	14.0	12.5	13.3	118	94	109	34	31	32
151181	E-344	W.F.	6/20/52	6/17/52	1	50.0	46.8	48.8	15.7	14.1	15.0	115	77	94	42	36	39
151203	E-345	W.F.	6/25/52	6/20/52	1	49.2	47.2	48.1	15.5	13.7	14.6	127	77	105	39	34	37
Current Mill Average:								46.8			14.3			101			37
Cumulative Mill Average:								47.2			14.3			100			40
Mill Factor, %:								99.2			100.0			101.0			92.5

[a] This average includes the readings for one or more specimens which tore beyond the 3/8-inch limit.

As a supplementary part of the Continuous Baseline Study, comparisons of the mill test results with those obtained at The Institute of Paper Chemistry on corresponding samples have been included in this report. As may be noted in Table XVII, the atmospheric conditions used prior to and during the testing period varied considerably.

TABLE XVII

Mill Code	Preconditioning R.H., %	Temp., ° F.	Time, hr.	Conditioning R.H., %	Temp., ° F.	Time, hr.
A	No preconditioning			42-62	88-96	—
B	53-68	54-84	1/2 - 1	50-72	70	24-48
C	47-54	72-78	2-144	46-54	73-77	8-168
D	30-31	78	8	49-53	71-73	16
E	No preconditioning			61-62	80-84	—
F	46-54	71-76	24	55-60	70-75	48
G	No preconditioning			50	73	24-48
H	No preconditioning			50	73	24
I	No preconditioning			44-64	84-85	—
J	No preconditioning			50	72-73	1/2
K	No samples submitted					
L	No preconditioning			53-60	79-98	--
M	No preconditioning			47-1/2 to 80	66-92	—
E*	No preconditioning			41-65	86-96	--

* Drum linerboard.

A summary of the mill comparisons for the current period as compared with the previous period may be seen in Tables XVIII and XIX,

respectively. The comparison for the various mills is given in Tables XX to XXXII, for the 42-lb. liner samples. A comparison of the special drum stock is given in Table XXXIII. In all the comparisons given in Tables XVIII to XXXIII, the Institute's test values have been used as the reference line.

A comparison of the test data in Tables XVIII and XIX indicates that in the majority of cases there is good agreement between the mill and institute data. Table XVIII shows the average difference encountered in the comparison of Institute and mill results for the sample lots submitted by each mill for the current period, as well as the maximum difference encountered in comparing the Institute and mill test results for a given sample lot. In Table XIX, the average differences shown for each test in Table XVIII have been calculated on a percentage basis for each mill. In addition, for purposes of comparison, the average percentage differences for the preceding two periods are shown.

It may be noted in Table XIX that the maximum variation between the average basis weight results of the Institute and those of a given mill on corresponding samples is one per cent for the current period. This figure compares favorably with the maximum variation of two per cent for the preceding two periods. Further, it may be noted that the average basis weight results for Mills E, F, H, and M are higher than those for the Institute, whereas the results for Mills A, B, C, D, G, I, and L are lower and the result for Mill J is the same. In general, the agreement in basis weight results is very good for the current period.

The maximum variation in caliper for the current period is three per cent. Compared with the values for the Institute, the average result for Mill H is the same whereas the results for Mills A, B, C, D, E, F, G, I, L and M are lower and the result for Mill J is higher. The accord between Institute and mill caliper values is good.

It may be noted in Table XIX that the bursting strength results exhibit a maximum variation of six per cent for the current period. The average results for Mills B, C, D, E, F, G, I, J, L, and M are higher than those for the Institute, whereas the results for Mills A and H are the same. The agreement in bursting strength results is good with possible exceptions for Mills D, E, F, and M.

The G. E. puncture results exhibit a maximum variation of thirty-nine per cent for the current period. Compared with the values for the Institute, the results for Mills B, I, and M are lower, whereas the results for Mills A, E, F, G, and J are higher and the results for Mill C and H are the same. The average test value reported by Mill M appears to be abnormally small. The agreement between the Institute and mill results is good with the exception of the variations for Mills E and M.

It may be seen in Table XIX that the average machine direction tear results for Mills A, C, I, and M are higher than those for the Institute, whereas the average results for Mills B, D, E, F, G, H, J, and L are lower. The maximum variation for the current period is nine per cent. The difference encountered for Mill G appears to be excessive.

With regard to the cross-machine direction tear results, it

may be noted that the average results for Mills A, C, D, E, F, I, J, L, and M are higher than those for the Institute whereas the average results for Mills B, G, and K are lower. The maximum variation for the current period is twelve per cent. Only the differences encountered for Mills I and M appear to be excessive.

TABLE XVIII

SUMMARY OF TEST RESULT COMPARISONS
(Average Mill and Institute Results)

Mills *	A	B	C	D	E	F	G	H	I	J	L	M
No. Samples Compared	6	20	17	11	2	5	8	5	2	10	8	7
Basis Weight												
Institute	43.2	43.1	43.1	43.8	41.8	43.8	43.5	42.9	42.8	43.1	43.2	42.4
Mill	43.0	43.0	43.0	43.5	42.2	44.3	43.2	43.4	42.5	43.1	42.8	42.5
Av. Diff.**	-0.2	-0.1	-0.1	-0.3	+0.4	+0.5	-0.3	+0.5	-0.3	0.0	-0.4	+0.1
Max. Diff.***	+0.9	-0.7	-1.1	-0.7	+0.6	+0.8	-0.9	+0.7	-0.4	+0.5	-1.4	±0.6
Caliper												
Institute	12.8	13.8	13.0	13.6	12.9	14.6	13.2	12.4	12.9	13.2	13.7	13.2
Mill	12.5	13.6	12.8	13.4	12.6	14.2	12.9	12.4	12.5	13.5	13.4	13.0
Av. Diff.**	-0.3	-0.2	-0.2	-0.2	-0.3	-0.4	-0.3	0.0	-0.4	+0.3	-0.3	-0.2
Max. Diff.***	-0.5	-0.8	-0.6	-0.4	-0.4	-0.7	-0.6	-0.2	-0.4	+0.4	-0.5	-0.5
Bursting Strength												
Institute	114	105	109	105	105	101	107	106	105	111	103	109
Mill	114	107	111	111	111	107	110	106	110	112	108	116
Av. Diff.**	0	+2	+2	+6	+6	+6	+3	0	+5	+1	+5	+7
Max. Diff.***	+8	+8	+9	+11	+15	+8	+5	-4	+7	+7	+10	+9
G. E. Puncture												
Institute	35	31	36	38	32	37	35	34	32	30	34	33
Mill	39	29	36	---	39	40	39	34	29	31	---	20
Av. Diff.**	+4	-2	0	---	+7	+3	+4	0	-3	+1	---	-13
Max. Diff.***	+7	-5	-4	---	+9	+4	+8	-2	-2	+3	---	-15
Tearing Strength, in												
Institute	339	330	362	379	382	382	359	373	334	350	350	381
Mill	349	308	365	367	372	369	325	353	344	344	341	403
Av. Diff.**	+10	-22	+3	-12	-10	-13	-34	-20	+10	-6	-9	+22
Max. Diff.***	+15	-48	+30	-35	-11	-34	-44	-36	+34	-42	-43	+53
Tearing Strength, across												
Institute	401	375	408	412	351	420	382	405	366	363	381	386
Mill	406	365	424	416	358	425	366	401	404	364	382	434
Av. Diff.**	+5	-10	+16	+4	+7	+5	-16	-4	+38	+1	+1	+48
Max. Diff.***	+18	-44	+56	+35	+28	+13	-36	-22	+57	+32	+41	+69

* Comparison based on averages involves only those samples on which mill test data were submitted.

** Average difference is the difference between the Institute mill average and the mill average based on mill test data.

*** Maximum difference encountered in comparing the Institute average and the mill average for any sample submitted by that particular mill.

TABLE XIX

SUMMARY OF TEST RESULTS--COMPARISON BY PERIODS

	Average Difference, %					
	Basis Weight	Caliper	Bursting Strength	G. E. Puncture	Tearing Strength in	Tearing Strength across
Mill A						
Current period	-0.5	-2	0	+11	+3	+1
59th period	-1	-0.8	-0.9	+6	+3	+2
58th period	-0.7	-2	+0.9	+3	+6	+4
Mill B						
Current period	-0.2	-1	+2	-6	-7	-3
59th period	+0.7	-4	-5	-9	-9	-5
58th period	+0.2	-1	-4	-9	-7	0
Mill C						
Current period	-0.2	-2	+2	0	+0.8	+4
59th period	0	-0.7	+1	0	-5	+3
58th period	+0.2	-0.7	-0.9	-6	-2	+1
Mill D						
Current period	-0.7	-1	+6	--	-3	+1
59th period	-0.5	0	+2	--	-4	+2
58th period	-0.5	-1	-0.9	--	-6	-2
Mill E						
Current period	+1	-2	+6	+22	-3	+2
59th period	--	--	--	--	--	--
58th period	--	--	--	--	--	--
Mill F						
Current period	+1	-3	+6	+8	-3	+1
59th period	-1	-3	+3	-3	-9	-2
58th period	-0.7	-3	+6	+2	-3	+0.2
Mill G						
Current period	-0.7	-2	+3	+11	-9	-4
59th period	0	-0.8	+0.9	+6	-6	-3
58th period	+0.2	-2	-2	-6	-8	-7
Mill H						
Current period	+1	0	0	0	-5	-1
59th period	--	--	--	--	--	--
58th period	+0.5	-2	-2	-6	-2	+6
Mill I						
Current period	-0.7	-3	+5	-9	+3	+10
59th period	-0.7	-2	0	+3	+5	+2
58th period	0	-0.8	+2	-10	+5	+3
Mill J						
Current period	0	+2	+0.9	+3	-2	+0.3
59th period	+0.7	+0.8	+0.9	+3	-4	0
58th period	+0.5	0	-3	0	+4	+4
Mill L						
Current period	-0.9	-2	+5	--	-3	+0.3
59th period	-2	-3	-2	--	-11	-7
58th period	-1	-2	-2	--	-16	-8
Mill M						
Current period	+0.2	-2	+6	-39	+6	+12
59th period	-1	-2	+6	-23	+0.5	+9
58th period	-2	-4	+7	-28	-10	-3

TABLE XX

SUMMARY OF INDIVIDUAL TEST LOTS--JUNE 1 THROUGH JUNE 30, 1952

Institute Data versus Mill Data

Caliper, points			Bursting Strength p.s.i. gage			G. E. Puncture, units			Elmendorf Tear, g./sheet In			Elmendorf Tear, g./sheet Across		
Diff.	IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill	Diff.
					Mill A--42-lb. Linerboard									
0.7	12.6	12.4	- 0.2	116	112	-4	37	36	-1	345[a]	345	0	389[a]	407	+18
0.7	12.8	12.4	-0.4	117	110	-7	36	36	0	336[a]	349	+13	391[a]	405	+14
0.1	13.1	12.7	-0.4	110	111	+1	32	36	+4	329[a]	343	+14	383[a]	393	+10
0.3	13.0	12.5	-0.5	114	116	+2	36	43	+7	361	376	+15	420[a]	418	- 2
0.2	12.6	12.4	-0.2	114	114	0	35	39	+4	328	341	+13	411[a]	407	- 4
0.9	12.7	12.5	-0.2	113	121	+8	34	41	+7	337[a]	343	+ 6	414[a]	406	- 8
0.2	12.8	12.5	-0.3	114	114	0	35	39	+4	339	349	+10	401	406	+ 5

e specimens which tore beyond the 3/8-inch limit.

ted from the totals of the individual readings.

TABLE XX

SUMMARY OF INDIVIDUAL TEST LOTS--JUNE 1 THROUGH JUNE 30, 1952

Institute Data versus Mill Data

File No.	Mill Code	Finish	Date Made	Mch. No.	Basis Weight, lb.			Caliper, points			Bursting Strength p.s.i. gage			G. E. Puncture, units			Elme		
					IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill	In
Mill A--42-lb. Linerboard																			
151109	A-350	WF1S	6/ 4/52	2	44.0	43.3	-0.7	12.6	12.4	-0.2	116	112	-4	37	36	-1	345[a]	345	
151110	A-351	WF1S	6/ 4/52	2	44.0	43.3	-0.7	12.8	12.4	-0.4	117	110	-7	36	36	0	336[a]	349	
151171	A-352	WF1S	6/ 8/52	1	42.3	42.4	+0.1	13.1	12.7	-0.4	110	111	+1	32	36	+4	329[a]	343	
151172	A-353	WF1S	6/13/52	2	44.4	44.1	-0.3	13.0	12.5	-0.5	114	116	+2	36	43	+7	361	376	
151204	A-354	WF1S	6/15/52	2	42.3	42.1	-0.2	12.6	12.4	-0.2	114	114	0	35	39	+4	328	341	
151205	A-355	WF1S	6/15/52	2	42.2	43.1	+0.9	12.7	12.5	-0.2	113	121	+8	34	41	+7	337[a]	343	
Current Mill Average:					43.2	43.0	-0.2	12.8	12.5	-0.3	114	114	0	35	39	+4	339	349	

[a] This average includes the readings for one or more specimens which tore beyond the 3/8-inch limit.

Note: All "current mill average" data are calculated from the totals of the individual readings.

TABLE XXI

(OF INDIVIDUAL TEST LOTS--JUNE 1 THROUGH JUNE 30, 1952 (continued)

Institute Data versus Mill Data

f.	Caliper, points			Bursting Strength, p.s.i. gage			G. E. Puncture, units			Elmendorf Tear, g./sheet In			Elmendorf Tear, g./sheet Across		
	IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill	Diff.
						Mill B--42-lb. Linerboard									
2	13.2	13.2	0.0	105	107	+2	31	28	-3	338	313	-25	387[a]	365	-22
5	13.5	13.2	-0.3	110	107	-3	32	28	-4	321[a]	303	-18	382[a]	356	-26
L	13.2	13.2	0.0	106	108	+2	31	27	-4	337	299	-38	389[a]	368	-21
)	13.3	13.2	-0.1	106	108	+2	32	27	-5	323[a]	325	+ 2	381[a]	389	+ 8
)	13.9	13.4	-0.5	105	102	-3	31	30	-1	343	300	-43	368[a]	366	- 2
)	13.9	13.4	-0.5	100	102	+2	30	29	-1	309[a]	298	-11	355[a]	367	+12
)	13.9	13.3	-0.6	98	102	+4	30	29	-1	331[a]	303	-28	348[a]	356	+ 8
	14 2	13.4	-0.8	95	103	+8	30	30	0	309[a]	311	+ 2	356[a]	367	+11
	14.0	13.5	-0.5	102	101	-1	31	30	-1	309	307	- 2	371[a]	343	-28
	13.8	13.5	-0.3	101	104	+3	30	29	-1	321[a]	293	-28	359[a]	338	-21
	14.0	13.6	-0.4	102	106	+4	31	29	-2	341[a]	296	-45	358[a]	352	- 6
	13.9	13.6	-0.3	102	105	+3	31	30	-1	353[a]	305	-48	393[a]	349	-44
	14.0	14.0	0.0	111	112	+1	32	29	-3	328[a]	319	- 9	382[a]	383	+ 1
	13.8	13.9	+0.1	109	113	+4	32	29	-3	339[a]	321	-18	364[a]	367	+ 3
	14.2	14.1	-0.1	113	111	-2	32	29	-3	345[a]	316	-29	398[a]	380	-18
	14.0	13.9	-0.1	110	111	+1	31	29	-2	328	331	+ 3	389[a]	398	+ 9
	14.0	13.8	-0.2	106	108	+2	31	28	-3	335[a]	299	-36	381[a]	362	-19
	14.0	13.8	-0.2	107	109	+2	31	28	-3	322[a]	323	+ 1	383[a]	363	-20
	13.8	13.8	0.0	109	108	-1	32	29	-3	327	297	-30	387[a]	365	-22
	14.0	13.9	-0.1	108	108	0	32	28	-4	337	292	-45	378[a]	369	- 9
	13.8	13.6	-0.2	105	107	+ 2	31	29	-2	330	308	-22	375	365	-10

specimens which tore beyond the 3/8-inch limit.

: from the totals of the individual readings.

TABLE XXI

SUMMARY OF INDIVIDUAL TEST LOTS--JUNE 1 THROUGH JUNE 30, 1952 (continued)

Institute Data versus Mill Data

File No.	Mill Code	Finish	Date Made	Mch. No.	Basis Weight, lb.			Caliper, points			Bursting Strength, p.s.i. gage			G.-E. Puncture, units			Elmendorf Tear, g		
					IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill	Diff.
Mill B--42-lb. Linerboard																			
150982	B-595	WF1S	5/19/52	1	42.9	42.7	-0.2	13.2	13.2	0.0	105	107	+2	31	28	-3	338	313	-2
151009	B-596	WF1S	5/19/52	1	43.4	42.8	-0.6	13.5	13.2	-0.3	110	107	-3	32	28	-4	321[a]	303	-1
151010	B-597	WF1S	5/19/52	1	42.9	42.8	-0.1	13.2	13.2	0.0	106	108	+2	31	27	-4	337	299	-3
151011	B-598	WF1S	5/19/52	1	43.5	43.2	-0.3	13.3	13.2	-0.1	106	108	+2	32	27	-5	323[a]	325	+
151026	B-599	WF1S	5/26/52	1	43.0	42.7	-0.3	13.9	13.4	-0.5	105	102	-3	31	30	-1	343	300	-1
151027	B-600	WF1S	5/26/52	1	43.1	42.6	-0.5	13.9	13.4	-0.5	100	102	+2	30	29	-1	309[a]	298	-1
151028	B-601	WF1S	5/26/52	1	43.2	42.6	-0.6	13.9	13.3	-0.6	98	102	+4	30	29	-1	331[a]	303	-2
151037	B-602	WF1S	5/26/52	1	43.4	42.7	-0.7	14.2	13.4	-0.8	95	103	+8	30	30	0	309[a]	311	+
151038	B-603	WF1S	5/27/52	1	43.4	43.2	-0.2	14.0	13.5	-0.5	102	101	-1	31	30	-1	309	307	-
151029	B-604	WF1S	5/27/52	1	43.2	43.0	-0.2	13.8	13.5	-0.3	101	104	+3	30	29	-1	321[a]	293	-2
151030	B-605	WF1S	5/27/52	1	43.0	43.3	+0.3	14.0	13.6	-0.4	102	106	+4	31	29	-2	341[a]	296	-4
151031	B-606	WF1S	5/27/52	1	43.3	43.5	+0.2	13.9	13.6	-0.3	102	105	+3	31	30	-1	353[a]	305	-4
151080	B-607	WF1S	6/ 3/52	1	43.8	44.0	+0.2	14.0	14.0	0.0	111	112	+1	32	29	-3	328[a]	319	-
151081	B-608	WF1S	6/ 3/52	1	43.6	43.7	+0.1	13.8	13.9	+0.1	109	113	+4	32	29	-3	339[a]	321[a]	-1
151082	B-609	WF1S	6/ 3/52	1	43.7	44.0	+0.3	14.2	14.1	-0.1	113	111	-2	32	29	-3	345[a]	316	-2
151083	B-610	WF1S	6/ 3/52	1	43.2	43.3	+0.1	14.0	13.9	-0.1	110	111	+1	31	29	-2	328	331	+
151155	B-611	WF1S	6/10/52	1	42.3	42.2	-0.1	14.0	13.8	-0.2	106	108	+2	31	28	-3	335[a]	299	-3
151156	B-612	WF1S	6/10/52	1	42.5	42.4	-0.1	14.0	13.8	-0.2	107	109	+2	31	28	-3	322[a]	323	+
151157	B-613	WF1S	6/10/52	1	42.4	42.2	-0.2	13.8	13.8	0.0	109	108	-1	32	29	-3	327	297	-3
151158	B-614	WF1S	6/10/52	1	42.5	42.3	-0.2	14.0	13.9	-0.1	108	108	0	32	28	-4	337	292	-4
Current Mill Average:					43.1	43.0	-0.1	13.8	13.6	-0.2	105	107	+ 2	31	29	-2	330	308	-22

[a] This average includes the readings for one or more specimens which tore beyond the 3/8-inch limit.

Note: All "current mill average" data are calculated from the totals of the individual readings.

TABLE XXII

RY OF INDIVIDUAL TEST LOTS--JUNE 1 THROUGH JUNE 30, 1952 (continued)

Institute Data versus Mill Data

ff.	Caliper, points			Bursting Strength, p.s.i. gage			G. E. Puncture, units			Elmendorf Tear, g./sheet					
										In			Across		
	IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill	Diff.
				Mill C--42-lb. Linerboard											
.1	13.4	12.8	-0.6	101	110	+9	36	32	-4	366[a]	355	-11	414[a]	398	-16
0	11.8	11.8	0.0	108	113	+5	35	36	+1	349	354	+ 5	398[a]	442	+44
.1	11.8	11.6	-0.2	116	117	+1	35	36	+1	342	344	+ 2	385[a]	415	+30
0	12.9	12.7	-0.2	111	114	+3	33	35	+2	338[a]	321	-17	405[a]	393	-12
1	12.9	12.7	-0.2	111	113	+2	34	34	0	368[a]	354	-14	401[a]	402	+ 1
2	13.0	13.4	+0.4	105	108	+3	37	37	0	372	372	0	426[a]	437	+11
0	13.5	13.4	-0.1	103	109	+6	37	38	+1	387[a]	403	+16	423[a]	434	+11
1	13.0	12.9	-0.1	113	112	-1	39	40	+1	366[a]	377	+11	427[a]	462	+35
1	12.9	13.0	+0.1	107	107	0	39	40	+1	367	396	+29	415[a]	471	+56
1	13.2	12.9	-0.3	107	108	+1	35	37	+2	355[a]	385	+30	391[a]	445	+54
2	12.9	12.5	-0.4	110	111	+1	34	36	+2	357	354	- 3	387[a]	404	+17
5	13.1	12.8	-0.3	114	116	+2	34	36	+2	356[a]	337	-19	405[a]	406	+ 1
2	13.1	12.9	-0.2	113	113	0	34	34	0	361	344	-17	412[a]	399	-13
1	12.9	12.8	-0.1	107	109	+2	37	36	-1	353	354	+ 1	402[a]	414	+12
1	12.8	12.6	-0.2	105	109	+4	37	34	-3	367	365	- 2	411[a]	426	+15
2	13.4	13.3	-0.1	110	105	-5	37	35	-2	380[a]	403	+23	417[a]	435	+18
	13.5	13.3	-0.2	104	105	+1	37	36	-1	362	382	+20	409[a]	433	+24
1	13.0	12.8	-0.2	109	111	+2	36	36	0	362	365	+ 3	408	424	+16

ore specimens which tore beyond the 3/8-inch limit.

ted from the totals of the individual readings.

TABLE XXII

SUMMARY OF INDIVIDUAL TEST LOTS--JUNE 1 THROUGH JUNE 30, 1952 (continued)

Institute Data versus Mill Data

File No.	Mill Code	Finish	Date Made	Mch. No.	Basis Weight, lb.			Caliper, points			Bursting Strength, p.s.i. gage			G. E. Puncture, units			E	
					IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill
Mill C--42-lb. Linerboard																		
150985	C-368	W.F.	4/17/52	1	43.2	42.1	-1.1	13.4	12.8	-0.6	101	110	+9	36	32	-4	366[a]	35
150986	C-371	W.F.	5/14/52	1	43.2	43.2	0.0	11.8	11.8	0.0	108	113	+5	35	36	+1	349	35
150987	C-372	W.F.	5/14/52	1	43.4	43.3	-0.1	11.8	11.6	-0.2	116	117	+1	35	36	+1	342	34
150988	C-373	W.F.	5/15/52	1	42.2	42.2	0.0	12.9	12.7	-0.2	111	114	+3	33	35	+2	330[a]	32
150989	C-374	W.F.	5/15/52	1	42.4	42.3	-0.1	12.9	12.7	-0.2	111	113	+2	34	34	0	368[a]	35
150990	C-375	W.F.	5/20/52	1	43.2	43.4	+0.2	13.0	13.4	+0.4	105	108	+3	37	37	0	372	37
150991	C-376	W.F.	5/20/52	1	43.3	43.3	0.0	13.5	13.4	-0.1	103	109	+6	37	38	+1	387[a]	40
150992	C-377	W.F.	5/21/52	1	45.1	45.0	-0.1	13.0	12.9	-0.1	113	112	-1	39	40	+1	366[a]	37
150993	C-378	W.F.	5/21/52	1	44.8	44.9	+0.1	12.9	13.0	+0.1	107	107	0	39	40	+1	367	39
151159	C-379	W.F.	6/ 3/52	1	42.7	42.6	-0.1	13.2	12.9	-0.3	107	108	+1	35	37	+2	355[a]	38
151160	C-380	W.F.	6/ 4/52	1	42.5	42.7	+0.2	12.9	12.5	-0.4	110	111	+1	34	36	+2	357	35
151161	C-381	W.F.	6/ 9/52	1	42.6	42.1	-0.5	13.1	12.8	-0.3	114	116	+2	34	36	+2	356[a]	33
151162	C-382	W.F.	6/ 9/52	1	42.4	42.2	-0.2	13.1	12.9	-0.2	113	113	0	34	34	0	361	34
151190	C-383	W.F.	6/12/52	1	43.4	43.3	-0.1	12.9	12.8	-0.1	107	109	+2	37	36	-1	353	35
151191	C-384	W.F.	6/12/52	1	43.1	43.0	-0.1	12.8	12.6	-0.2	105	109	+4	37	34	-3	367	36
151192	C-385	W.F.	6/13/52	1	42.9	43.0	+0.1	13.4	13.3	-0.1	110	105	-5	37	35	-2	380[a]	40
151193	C-386	W.F.	6/13/52	1	42.7	42.9	+0.2	13.5	13.3	-0.2	104	105	+1	37	36	-1	362	38
Current Mill Average:					43.1	43.0	-0.1	13.0	12.8	-0.2	109	111	+2	36	36	0	362	36

[a] This average includes the readings for one or more specimens which tore beyond the 3/8-inch limit.

Note: All "current mill average" data are calculated from the totals of the individual readings.

TABLE XXIII

INDIVIDUAL TEST LOTS--JUNE 1 THROUGH JUNE 30, 1952 (continued)

Institute Data versus Mill Data

Caliper, points			Bursting Strength, p.s.i. gage			G. E. Puncture, units			Elmendorf Tear, g./sheet In			Elmendorf Tear, g./sheet Across		
IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill	Diff.
Mill D--42-lb. Linerboard														
14.0	13.9	-0.1	106	110	+ 4	37			365[a]	364	- 1	424[a]	422	- 2
13.7	13.7	0.0	108	115	+ 7	38			374[a]	367	- 7	427[a]	426	- 1
13.8	13.9	+0.1	109	112	+ 3	39			382[a]	384	+ 2	426[a]	424	- 2
13.6	13.4	-0.2	103	113	+10	35			363[a]	349	-14	375[a]	404	+29
13.6	13.6	0.0	106	110	+ 4	36			367[a]	347	-20	415[a]	403	-12
14.2	13.8	-0.4	98	104	+ 6	38			424[a]	389	-35	397[a]	401	+ 4
13.7	13.4	-0.3	109	114	+ 5	38			371[a]	354	-17	409[a]	388	-21
13.2	13.1	-0.1	103	114	+11	39			395[a]	392	- 3	431[a]	457	+26
13.4	13.1	-0.3	103	109	+6	38			373[a]	369	- 4	402[a]	437	+35
13.3	12.9	-0.4	106	109	+ 3	37			366[a]	358	- 8	418[a]	413	- 5
13.1	13.0	-0.1	101	108	+ 7	38			388[a]	370	-18	405[a]	396	- 9
13.6	13.4	-0.2	105	111	+ 6	38			379	367	-12	412	416	+ 4

TABLE XXIV

Mill E--42-lb. Linerboard

13.1	12.7	-0.4	103	118	+15	32	41	+ 9	395[a]	385	-10	347[a]	375	+28
12.8	12.6	-0.2	106	104	- 2	31	37	+ 6	369[a]	358	-11	355[a]	341	-14
12.9	12.6	-0.3	105	111	+ 6	32	39	+ 7	382	372	-10	351	353	+ 7

›pecimens which tore beyond the 3/8-inch limit.

from the totals of the individual readings.

SUMMARY OF INDIVIDUAL TEST LOTS--JUNE 1 THROUGH JUNE 30, 1952 (continued)

Institute Data versus Mill Data

File No.	Mill Code	Finish	Date Made	Mch. No.	Basis Weight, lb. IPC	Basis Weight, lb. Mill	Basis Weight, lb. Diff.	Caliper, points IPC	Caliper, points Mill	Caliper, points Diff.	Bursting Strength, p.s.i. gage IPC	Bursting Strength, p.s.i. gage Mill	Bursting Strength, p.s.i. gage Diff.	G. E. Puncture, units IPC	G. E. Puncture, units Mill	G. E. Puncture, units Diff.	In IPC	In Mill	I
Mill D--42-lb. Linerboard																			
150996	D-537	W.F.	5/25/52	4	43.6	42.9	-0.7	14.0	13.9	-0.1	106	110	+ 4	37			365[a]	364	
151012	D-538	W.F.	5/26/52	4	43.6	43.6	0.0	13.7	13.7	0.0	108	115	+ 7	38			374[a]	367	
151013	D-539	W.F.	5/27/52	4	44.0	43.4	-0 6	13.8	13.9	+0.1	109	112	+ 3	39			382[a]	384	
151041	D-540	W.F.	6/ 1/52	4	44.0	43.6	-0.4	13.6	13.4	-0.2	103	113	+10	35			363[a]	349	
151042	D-541	W.F	6/ 2/52	4	43.7	43.7	0.0	13.6	13.6	0.0	106	110	+ 4	36			367[a]	347	
151111	D-542	W.F.	6/ 8/52	4	44.8	44.1	-0.7	14.2	13.8	-0.4	98	104	+ 6	38			424[a]	389	
151125	D-543	W.F.	6/ 9/52	4	44.0	43.3	-0.7	13.7	13.4	-0.3	109	114	+ 5	38			371[a]	354	
151166	D-544	W.F.	6/16/52	4	43.9	44.1	+0.2	13.2	13.1	-0.1	103	114	+11	39			395[a]	392	
151177	D-545	W.F.	6/17/52	4	43.5	43.3	-0.2	13.4	13.1	-0.3	103	109	+6	38			373[a]	369	
151184	D-546	W.F.	6/18/52	4	43.3	42.9	-0.4	13.3	12.9	-0.4	106	109	+ 3	37			366[a]	358	
151202	D-547	W.F.	6/20/52	4	43.8	44.0	+0.2	13.1	13.0	-0.1	101	108	+ 7	38			388[a]	370	
Current Mill Average:					43.8	43.5	-0.3	13.6	13.4	-0.2	105	111	+ 6	38			379	367	

TABLE XXIV

Mill E--42-lb. Linerboard																			
151008	E-338	W.F.	5/26/52	1	42.1	42.3	+0.2	13.1	12.7	-0.4	103	118	+15	32	41	+ 9	395[a]	385	
151032	E-339	W.F.	5/27/52	1	41.4	42.0	+0.6	12.8	12.6	-0.2	106	104	- 2	31	37	+ 6	369[a]	358	
Current Mill Average:					41.8	42.2	+0.4	12.9	12.6	-0.3	105	111	+ 6	32	39	+ 7	382	372	

[a] This average includes the readings for one or more specimens which tore beyond the 3/8-inch limit.

Note: All "current mill average" data are calculated from the totals of the individual readings.

TABLE XXV

OF INDIVIDUAL TEST LOTS--JUNE 1 THROUGH JUNE 30, 1952 (continued)

Institute Data versus Mill Data

Caliper, points			Bursting Strength, p.s.i. gage			G. E. Puncture, units			Elmendorf Tear, g./sheet					
									In			Across		
IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill	Diff.
Mill F--42-lb. Linerboard														
15.4	14.7	-0.7	98	106	+8	38	40	+2	381[a]	359	-22	400[a]	404	+ 4
14.5	14.0	-0.5	101	109	+8	38	40	+2	393[a]	359	-34	421[a]	419	- 2
15.1	14.9	-0.2	99	106	+7	38	42	+4	383	373	-10	429[a]	439	+10
14.5	14.2	-0.3	106	109	+3	37	41	+4	386[a]	387	+ 1	442[a]	446	+ 4
13.5	13.4	-0.1	100	105	+5	36	39	+3	367[a]	367	0	407[a]	420	+13
14.6	14.2	-0.4	101	107	+6	37	40	+3	382	369	-13	420	425	+ 5

TABLE XXVI

Mill G--42-lb. Linerboard

13.5	12.9	-0.6	100	104	+4	34	34	0	351	307	-44	375[a]	354	-21
13.3	13.0	-0.3	102	105	+3	34	34	0	359[a]	321	-38	355[a]	359	+ 4
12.4	12.2	-0.2	113	118	+5	31	39	+8	322[a]	315	- 7	373[a]	351	-22
12.4	12.1	-0.3	111	114	+3	32	39	+7	347	305	-42	367[a]	351	-16
14.0	13.7	-0.3	107	106	-1	37	44	+7	374[a]	334	-40	407[a]	378	-29
13.2	13.1	-0.1	105	110	+5	37	41	+4	369[a]	336	-33	379[a]	377	- 2
13.6	13.2	-0.4	112	113	+1	36	41	+5	377[a]	353	-24	384	374	-10
13.4	13.0	-0.4	109	114	+5	35	39	+4	371[a]	330	-41	418[a]	382	-36
13.2	12.9	-0.3	107	110	+3	35	39	+4	359	325	-34	382	366	-16

e specimens which tore beyond the 3/8-inch limit.

ed from the totals of the individual readings.

TABLE XXV

SUMMARY OF INDIVIDUAL TEST LOTS--JUNE 1 THROUGH JUNE 30, 1952 (continued)

Institute Data versus Mill Data

File No.	Mill Code	Finish	Date Made	Mch. No.	Basis Weight, lb.			Caliper, points			Bursting Strength, p.s.i. gage			G. E. Puncture, units			Kimendo g./ In		
					IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill	Diff
Mill F--42-lb. Linerboard																			
150980	F-33	--	5/15/52	--	43.4	43.6	+0.2	15.4	14.7	-0.7	98	106	+8	38	40	+2	381[a]	359	-2
151056	F-34	W.F.	5/20/52	--	44.0	44.7	+0.7	14.5	14.0	-0.5	101	109	+8	38	40	+2	393[a]	359	-3
151057	F-35	W.F.	5/21/52	--	44.1	44.6	+0.5	15.1	14.9	-0.2	99	106	+7	38	42	+4	383	373	-1
151058	F-36	W.F.	5/22/52	--	44.2	44.5	+0.3	14.5	14.2	-0.3	106	109	+3	37	41	+4	386[a]	387	+
151091	F-37	W.F.	5/29/52	--	43.2	44.0	+0.8	13.5	13.4	-0.1	100	105	+5	36	39	+3	367[a]	367	
Current Mill Average:					43.8	44.3	+0.5	14.6	14.2	-0.4	101	107	+6	37	40	+3	382	369	-1

TABLE XXVI

Mill G--42-lb. Linerboard

151035	G-420	WFL	5/29/52	1	43.8	43.7	-0.1	13.5	12.9	-0.6	100	104	+4	34	34	0	351	307	-4
151036	G-421	WFL	5/29/52	1	44.1	43.9	-0.2	13.3	13.0	-0.3	102	105	+3	34	34	0	359[a]	321	-3
151130	G-422	WFL	6/ 7/52	1	42.4	42.4	0.0	12.4	12.2	-0.2	113	118	+5	31	39	+8	322[a]	315	-
151131	G-423	WFL	6/ 7/52	1	42.3	42.1	-0.2	12.4	12.1	-0.3	111	114	+3	32	39	+7	347	305	-4
151145	G-424	WFL	6/10/52	1	44.2	43.6	-0.6	14.0	13.7	-0.3	107	106	-1	37	44	+7	374[a]	334	-4
151146	G-425	WFL	6/10/52	1	44.5	43.6	-0.9	13.2	13.1	-0.1	105	110	+5	37	41	+4	369[a]	336	-3
151188	G-426	WFL	6/19/52	1	43.3	43.3	0.0	13.6	13.2	-0.4	112	113	+1	36	41	+5	377[a]	353	-2
151189	G-427	WFL	6/19/52	1	43.7	43.4	-0.3	13.4	13.0	-0.4	109	114	+5	35	39	+4	371[a]	330	-4
Current Mill Average:					43.5	43.2	-0.3	13.2	12.9	-0.3	107	110	+3	35	39	+4	359	325	-3

[a] This average includes the readings for one or more specimens which tore beyond the 3/8-inch limit.

Note: All "current mill average" data are calculated from the totals of the individual readings.

TABLE XXVII

Y OF INDIVIDUAL TEST LOTS--JUNE 1 THROUGH JUNE 30, 1952 (continued)

Institute Data versus Mill Data

,	Caliper, points			Bursting Strength, p.s.i. gage			G. E. Puncture, units			Elmendorf Tear, g./sheet In			Elmendorf Tear, g./sheet Across		
f.	IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill	Diff.
				Mill H--42-lb. Linerboard											
6	12.3	12.4	+0.1	101	102	+1	36	34	-2	370	363	- 7	401[a]	396	- 5
2	12.2	12.2	0.0	106	108	+2	35	35	0	387[a]	373	-14	401[a]	413	+12
4	12.8	12.6	-0.2	108	104	-4	32	31	-1	357[a]	323	-34	404[a]	385	-19
6	12.0	12.1	+0.1	111	109	-2	33	34	+1	392[a]	356	-36	387[a]	399	+12
7	12.6	12.6	0.0	105	104	-1	35	34	-1	357[a]	350	- 7	431[a]	409	-22
5	12.4	12.4	0.0	106	106	0	34	34	0	373	353	-20	405	401	- 4

TABLE XXVIII

				Mill I--42-lb. Linerboard											
4	12.7	12.4	-0.3	102	109	+7	31	29	-2	313	347	+34	354[a]	411	+57
4	13.1	12.7	-0.4	108	110	+2	32	30	-2	355[a]	340	-15	378[a]	396	+18
5	12.9	12.5	-0.4	105	110	+5	32	29	-3	334	344	+10	366	404	+38

ore specimens which tore beyond the 3/8-inch limit.

ted from the totals of the individual readings.

TABLE XXVII

SUMMARY OF INDIVIDUAL TEST LOGS--JUNE 1 THROUGH JUNE 30, 1952 (continued)

Institute Data versus Mill Data

File No.	Mill Code	Finish	Date Made	Mch. No.	Basis Weight, lb. IPC	Basis Weight, lb. Mill	Basis Weight, lb. Diff.	Caliper, points IPC	Caliper, points Mill	Caliper, points Diff.	Bursting Strength, p.s.i. gage IPC	Bursting Strength, p.s.i. gage Mill	Bursting Strength, p.s.i. gage Diff.	G.E. Puncture, units IPC	G.E. Puncture, units Mill	G.E. Puncture, units Diff.	El IPC	El Mill	El D
										Mill H--42-lb. Linerboard									
151126	H-320	WFlS	6/ 2/52	2	42.8	43.4	+0.6	12.3	12.4	+0.1	101	102	+1	36	34	-2	370	363	
151127	H-321	WFLS	6/ 3/52	2	43.2	43.4	+0.2	12.2	12.2	0.0	106	108	+2	35	35	0	387[a]	373	
151173	H-322	WFlS	6/10/52	2	42.9	43.3	+0.4	12.8	12.6	-0.2	108	104	-4	32	31	-1	357[a]	323	
151174	H-323	WFlS	6/11/52	2	42.4	43.0	+0.6	12.0	12.1	+0.1	111	109	-2	33	34	+1	392[a]	356	
151201	H-324	WFlS	6/16/52	2	43.3	44.0	+0.7	12.6	12.6	0.0	105	104	-1	35	34	-1	357[a]	350	
Current Mill Average:					42.9	43.4	+0.5	12.4	12.4	0.0	106	106	0	34	34	0	373	353	

TABLE XXVIII

										Mill I--42-lb. Linerboard									
150981	I-237	WFlS	5/21/52	1	42.6	42.2	-0.4	12.7	12.4	-0.3	102	109	+7	31	29	-2	313	347	
151090	I-238	WFlS	6/ 3/52	1	43.1	42.7	-0.4	13.1	12.7	-0.4	108	110	+2	32	30	-2	355[a]	340	
Current Mill Average:					42.8	42.5	-0.3	12.9	12.5	-0.4	105	110	+5	32	29	-3	334	344	

[a] This average includes the readings for one or more specimens which tore beyond the 3/8-inch limit.

Note: All "current mill average" data are calculated from the totals of the individual readings.

TABLE XXIX

INDIVIDUAL TEST LOTS--JUNE 1 THROUGH JUNE 30, 1952 (continued)

Institute Data versus Mill Data

Caliper, points			Bursting Strength p.s.i. gage			G. E. Puncture, units			Elmendorf Tear, g./sheet					
									In			Across		
IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill	Diff.	I+C	Mill	Diff.
Mill J--42-lb. Linerboard														
12.8	13.0	+0.2	110	115	+5	29	31	+2	371[a]	329	-42	359[a]	354	- 5
12.7	13.0	+0.3	112	112	0	30	31	+1	363[a]	337	-26	353[a]	348	- 5
13.6	14.0	+0.4	112	110	-2	31	32	+1	349[a]	377	+28	365[a]	347	-18
13.3	13.7	+0.4	109	108	-1	31	32	+1	359[a]	369	+10	349[a]	349	0
13.3	13.6	+0.3	111	110	-1	31	34	+3	353[a]	363	+10	392[a]	391	- 1
13.2	13.6	+0.4	108	108	0	31	34	+3	367[a]	357	-10	361[a]	393	+32
13.2	13.4	+0.2	114	113	-1	29	31	+2	346[a]	343	- 3	363[a]	378	+15
13.1	13.3	+0.2	114	115	+1	30	30	0	340[a]	334	- 6	377[a]	368	- 9
13.3	13.6	+0.3	107	114	+7	29	30	+1	327[a]	333	+ 6	350[a]	358	+ 8
13.4	13.6	+0.2	114	111	-3	29	30	+1	323	301	-22	363[a]	354	- 9
13.2	13.5	+0.3	111	112	+1	30	31	+1	350	344	- 6	363	364	+ 1

TABLE XXX

Mill K--42-lb. Linerboard

No samples submitted.

pecimens which tore beyond the 3/8-inch limit.

from the totals of the individual readings.

TABLE XXIX

SUMMARY OF INDIVIDUAL TEST LOTS--JUNE 1 THROUGH JUNE 30, 1952 (continued)

Institute Data versus Mill Data

File No.	Mill Code	Finish	Date Made	Mch. No.	Basis Weight, lb.			Caliper, points			Bursting Strength p.s.i. gage			G. E. Puncture, units			Elmen		
					IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill	Di
Mill J--42-lb. Linerboard																			
150994	J-355	B.F.	5/ 8/52	1	42.0	41.7	-0.3	12.8	13.0	+0.2	110	115	+5	29	31	+2	371[a]	329	-
150995	J-356	B.F.	5/ 8/52	1	41.9	42.0	+0.1	12.7	13.0	+0.3	112	112	0	30	31	+1	363[a]	337	-
151033	J-357	B.F.	4/16/52	1	43.4	43.5	+0.1	13.6	14.0	+0.4	112	110	-2	31	32	+1	349[a]	377	+
151034	J-358	B.F.	5/24/52	1	43.2	43.4	+0.2	13.3	13.7	+0.4	109	108	-1	31	32	+1	359[a]	369	+
151088	J-359	B.F.	6/ 1/52	1	44.1	44.5	+0.4	13.3	13.6	+0.3	111	110	-1	31	34	+3	353[a]	363	+
151089	J-360	B.F.	6/ 1/52	1	43.8	43.8	0.0	13.2	13.6	+0.4	108	108	0	31	34	+3	367[a]	357	-
151147	J-361	B.F.	6/ 7/52	1	43.4	43.0	-0.4	13.2	13.4	+0.2	114	113	-1	29	31	+2	346[a]	343	-
151148	J-362	B.F.	6/ 7/52	--	43.4	43.3	-0.1	13.1	13.3	+0.2	114	115	+1	30	30	0	340[a]	334	-
151186	J-363	B.F.	6/14/52	1	42.7	43.2	+0.5	13.3	13.6	+0.3	107	114	+7	29	30	+1	327[a]	333	+
151187	J-364	B.F.	6/14/52	1	42.8	43.0	+0.2	13.4	13.6	+0.2	114	111	-3	29	30	+1	323	301	-
Current Mill Average:					43.1	43.1	0.0	13.2	13.5	+0.3	111	112	+1	30	31	+1	350	344	-

TABLE XXX

Mill K--42-lb. Linerboard

No samples submitted.

[a] This average includes the readings for one or more specimens which tore beyond the 3/8-inch limit.

Note: All "current mill average" data are calculated from the totals of the individual readings.

TABLE XXXII

OF INDIVIDUAL TEST LOTS--JUNE 1 THROUGH JUNE 30, 1952 (continued)

Institute Data versus Mill Data

Caliper, points			Bursting Strength, p.s.i. gage			G. E. Puncture, units			Elmendorf Tear, g./sheet					
									In			Across		
IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill	Diff.
Mill L--42-lb. Linerboard														
13.2	13.0	-0.2	102	109	+7	34			315[a]	292	-23	369[a]	346	-23
13.9	13.7	-0.2	100	106	+6	37			350[a]	307	-43	390[a]	361	-29
14.4	14.2	-0.2	96	106	+10	35			356[a]	359	+ 3	369[a]	410	+41
14.3	13.8	-0.5	107	113	+ 6	35			367[a]	384	+17	387[a]	415	+28
14.2	13.8	-0.4	113	113	0	34			379[a]	371	- 8	381[a]	400	+19
12.9	12.8	-0.1	105	106	+ 1	32			329[a]	340	+11	373[a]	391	+18
13.9	13.6	-0.3	99	103	+ 4	33			353[a]	331	-22	379[a]	360	-19
12.8	12.7	-0.1	105	107	+ 2	34			357[a]	342	-15	401[a]	378	-23
13.7	13.4	-0.3	103	108	+ 5	34			350	341	- 9	381	382	+ 1
Mill M--42-lb. Linerboard														
13.2	13.0	-0.2	104	112	+ 8	32	23	- 9	377[a]	430	+53	363[a]	431	+68
12.7	12.4	-0.3	117	124	+ 7	32	17	-15	391[a]	407	+16	368[a]	419	+51
13.2	13.2	0.0	110	116	+ 6	33	21	-12	389[a]	435	+46	395[a]	449	+54
13.1	12.6	-0.5	114	120	+ 6	32	18	-14	399[a]	385	-14	377[a]	410	+33
13.4	13.3	-0.1	106	113	+ 7	35	21	-14	378[a]	393	+15	403[a]	472	+69
13.4	13.2	-0.2	106	108	+ 2	34	19	-15	383	427	+44	391[a]	424	+33
13.2	12.9	-0.3	108	117	+ 9	32	17	-15	349[a]	341	- 8	405[a]	431	+26
13.2	13.0	-0.2	109	116	+ 7	33	20	-13	381	403	+22	386	434	+48

specimens which tore beyond the 3/8-inch limit.

i from the totals of the individual readings.

SUMMARY OF INDIVIDUAL TEST LOTS—JUNE 1 THROUGH JUNE 30, 1952 (continued)

Institute Data versus Mill Data

File No.	Mill Code	Finish	Date Made	Mch. No.	Basis Weight, lb.			Caliper, points			Bursting Strength, p.s.i. gage			G.E. Puncture, units			E
					IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill	Diff.	
Mill L--42-lb. Linerboard																	
150983	L-91		4/29/52	1	42.2	41.3	-0.9	13.2	13.0	-0.2	102	109	+7	34			315[a] 292 -
150984	L-92		5/ 4/52	1	44.0	42.6	-1.4	13.9	13.7	-0.2	100	106	+6	37			350[a] 307 -
151084	L-93		5/24/52	1	43.6	43.4	-0.2	14.4	14.2	-0.2	96	106	+10	35			356[a] 359 +
151085	L-94		5/27/52	1	44.1	43.9	-0.2	14.3	13.8	-0.5	107	113	+ 6	35			367[a] 384 +
151142	L-95		5/16/52	1	43.8	43.8	0.0	14.2	13.8	-0.4	113	113	0	34			379[a] 371 -
151143	L-96		5/26/52	1	43.1	43.2	+0.1	12.9	12.8	-0.1	105	106	+ 1	32			329[a] 340 +
151182	L-97		6/ 8/52	1	42.3	42.2	-0.1	13.9	13.6	-0.3	99	103	+ 4	33			353[a] 331 -
151183	L-98		6/ 9/52	1	42.4	42.3	-0.1	12.8	12.7	-0.1	105	107	+ 2	34			357[a] 342 -
Current Mill Average:					43.2	42.8	-0.4	13.7	13.4	-0.3	103	108	+ 5	34			350 341 -
TABLE XXXII																	
Mill M--42-lb. Linerboard																	
150978	M-95	W.	5/18/52	2	41.5	41.6	+0.1	13.2	13.0	-0.2	104	112	+ 8	32	23	- 9	377[a] 430 +
150979	M-96	W.	5/20/52	2	42.5	41.9	-0.6	12.7	12.4	-0.3	117	124	+ 7	32	17	-15	391[a] 407 +
151039	M-97	W.	5/28/52	2	43.8	44.4	+0.6	13.2	13.2	0.0	110	116	+ 6	33	21	-12	389[a] 435 +
151040	M-98	W.	5/29/52	2	41.9	41.6	-0.3	13.1	12.6	-0.5	114	120	+ 6	32	18	-14	399[a] 385 -
151086	M-99	W.	6/ 2/52	2	43.2	43.2	0.0	13.4	13.3	-0.1	106	113	+ 7	35	21	-14	378[a] 393 +
151087	M-100	W.	6/ 2/52	4	42.6	42.9	+0.3	13.4	13.2	-0.2	106	108	+ 2	34	19	-15	383 427 +
151180	M-101	W.	6/ 9/52	2	41.5	41.6	+0.1	13.2	12.9	-0.3	108	117	+ 9	32	17	-15	349[a] 341 -
Current Mill Average:					42.4	42.5	+0.1	13.2	13.0	-0.2	109	116	+ 7	33	20	-13	381 403 +

[a] This average includes the readings for one or more specimens which tore beyond the 3/8-inch limit.

Note: All "current mill average" data are calculated from the totals of the individual readings.

TABLE XXXIII

OF INDIVIDUAL TEST LOTS--JUNE 1 THROUGH JUNE 30, 1952 (continued)

Institute Data versus Mill Data

	Caliper, points		Bursting Strength, p.s.i. gage			G. E. Puncture, units			Elmendorf Tear, g./sheet In			Elmendorf Tear, g./sheet Across		
IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill	Diff.
			Mill E--44/46-lb. Drum Linerboard											
14.1	12.9	-1.2	96	100	+4	37	40	+3	447[a]	429	-18	406[a]	376	-30
	13.3[c]			118[c]			39[c]			403[c]			381[c]	
14.3	13.7	-0.6	102	110	+8	37	40	+3	447[a]	446	- 1	396[a]	388	- 8
13.3	12.9	-0.4	109	115	+6	32	38	+6	393[a]	409	+16	383[a]	382	- 1
15.0	14.7	-0.3	94	90	-4	39	48	+9	445[a]	483	+38	392[a]	453	+61
14.6	13.6	-1.0	105	106	+1	37	39	+2	431[a]	362	-69	369[a]	317	-52
14.3	13.6	-0.7	101	104	+3	37	41	+4	433	426	- 7	389	383	- 6

e specimens which tore beyond the 3/8-inch limit.

ted from the totals of the individual readings.

TABLE XXXIII

SUMMARY OF INDIVIDUAL TEST LOTS--JUNE 1 THROUGH JUNE 30, 1952 (continued)

Institute Data *versus* Mill Data

File No.	Mill Code	Fin- ish	Date Made	Mch. No.	Basis Weight, lb. IPC	Mill	Diff.	Caliper, points IPC	Mill	Diff.	Bursting Strength, p.s.i. gage IPC	Mill	Diff.	G. E. Puncture, units IPC	Mill	Diff.	IPC	M
											Mill E--44/46-lb. Drum Linerboard							
151043	E-340	W.F.	6/ 2/52	1	48.0	47.8	-0.2	14.1	12.9	-1.2	96	100	+4	37	40	+3	447[a]	
	E-341[b]	W.F.	6/ 3/52	1		47.3[c]			13.3[c]			118[c]			39[c]			
151128	E-342	W.F.	6/ 9/52	1	47.9	46.6	-1.3	14.3	13.7	-0.6	102	110	+8	37	40	+3	447[a]	
151144	E-343	W.F.	6/10/52	1	41.1	42.2	+1.1	13.3	12.9	-0.4	109	115	+6	32	38	+6	393[a]	
151181	E-344	W.F.	6/17/52	1	48.8	49.9	+1.1	15.0	14.7	-0.3	94	90	-4	39	48	+9	445[a]	
151203	E-345	W.F.	6/20/52	1	48.1	47.8	-0.3	14.6	13.6	-1.0	105	106	+1	37	39	+2	431[a]	
Current Mill Average:					46.8	46.9	+0.1	14.3	13.6	-0.7	101	104	+3	37	41	+4	433	

[a] This average includes the readings for one or more specimens which tore beyond the 3/8-inch limit.

[b] This sample was not received by the Institute.

[c] Not included in the current mill average.

Note: All "current mill average" data are calculated from the totals of the individual readings.