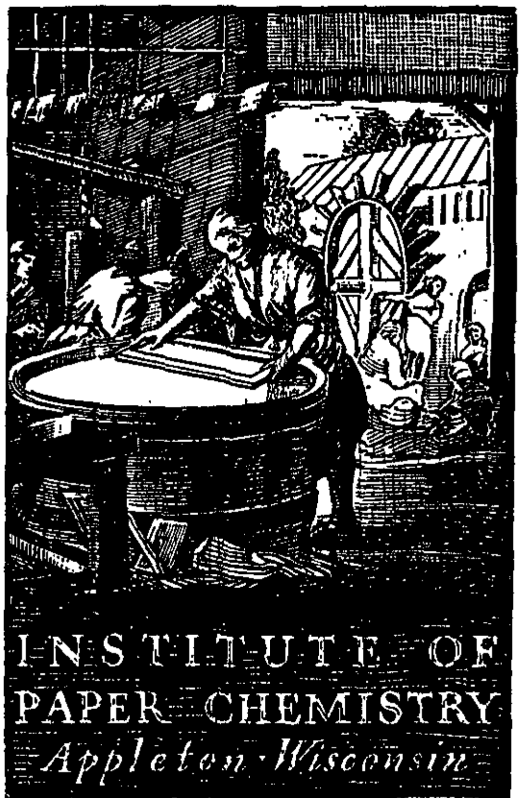


CONTINUOUS BASELINE STUDY

Project 1108-13

Progress Report 128

to

FOURDRINIER KRAFT BOARD INSTITUTE, INC.

March 1, 1958

THE INSTITUTE OF PAPER CHEMISTRY

Appleton, Wisconsin

CONTINUOUS BASELINE STUDY

Project 1108-13

Progress Report 128

to

FOURDRINIER KRAFT BOARD INSTITUTE, INC.

March 1, 1958

THE INSTITUTE OF PAPER CHEMISTRY

Appleton, Wisconsin

In conjunction with the F.K.I. Continuous Baseline Study, The Institute of Paper Chemistry has been directed to identify the participating mills by means of a scrambled system of code letters. Under this system, which was initiated in Progress Report 105, each mill is identified by a code letter different from that used for the previous month.

During the month of February, ninety-two different sample lots of 42-lb. Fourdrinier kraft linerboard from fifteen different F.K.I. mills were processed at The Institute of Paper Chemistry. 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	1
C	2
D	2
E	0
F	8
G	8
H	9
I	0
J	6
K	8
L	5
M	13
N	4
O	0
P	10
Q	7
S	3
Total	92

These sample lots were tested for basis weight, caliper, bursting strength, and Elmendorf tear. The average strength results for each mill may be seen in Table II and are graphically presented in Figures 1 to 5. 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 is based on the results for the previous twelve months excluding the current period. Hence, in the case of the current report, it covers the period from February 1, 1957 to January 31, 1958. 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 also 43.1 lb. Hence, the F.K.I. index for basis weight determined in percent as indicated above is 100.0% and signifies that the current average basis weight is the same as the cumulative average.

A comparison of the results in Table II and Figure 1 shows that the average basis weight results for all mills except B conform to the 42-lb. specification set forth in Rule 41. Mills H and Q had the highest average basis weight, 44.0 lb. or approximately 4.8% higher than the 42-lb. specification. Mill B had the lowest average basis weight of 40.7 lb., which was approximately 3.1% 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	+2.1
B	-3.1
C	+1.7
D	+2.1
E	--
F	+1.2
G	+2.9
H	+4.8
I	--
J	+4.0
K	+4.0
L	+3.3
M	+1.4
N	+4.3
O	--
P	+1.9
Q	+4.8
S	+3.8

A comparison of the average basis weight data for the previous period with the current F.K.I. average indicated that the basis weight results have decreased slightly from 43.2 lb. to 43.1 lb.

A comparison of the average caliper values for the various mills (see Figure 2) shows that the current mill averages varied from a low of 11.9 points for Mills L, P, and S to a high of 14.1 points for Mill M. The current F.K.I. average is 12.6 points, slightly lower than the cumulative F.K.I. average of 12.7 points, as indicated by the F.K.I. index of 99.2%.

The average bursting strength values obtained for each mill are graphically presented in Figure 3. It may be observed in Table II and Figure 3 that the current mill averages for bursting strength ranged from a low of 102 for Mill D to a high of 119 for Mill L. The current F.K.I. average bursting strength is 111 p.s.i. g., which is the same as the cumulative F.K.I. average.

A graphic comparison of the Elmendorf tear results for the various mills is given in Figures 4 and 5. The data of Table II show that Mill K had the highest average machine direction tear value of 374 g./sheet, and that Mills F and G had the lowest value of 295 g./sheet. It may be further noted in Table II that Mill P had the highest cross-machine direction tear value of 402 g./sheet and that Mill G had the lowest value of 344 g./sheet. It may be noted that the current F.K.I. average for machine-direction Elmendorf tear is slightly lower than the cumulative and the corresponding average for cross-machine direction Elmendorf tear is the same as the cumulative.

A comparison of the F.K.I. indexes indicates that, for the current period, the current F.K.I. averages for basis weight, bursting strength, and cross-machine direction Elmendorf tear are the same as their cumulative F.K.I. average whereas the current F.K.I. averages for caliper and machine direction Elmendorf tear are slightly lower than their cumulative F.K.I. averages.

In order to compare the variation within a given mill, the test results for each particular mill have been tabulated in Tables III to XX for Mills A and S, respectively.

The results obtained on special drum stock are presented in Table XXI.

In addition to the current and cumulative average, 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 for the previous twelve months excluding the current period. 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 are a convenient means for comparing the current mill results either with the previous results for that particular mill or with the cumulative F.K.I. results. The reports also present a comparison of the test data obtained at the mills with test data obtained at The Institute of Paper Chemistry. These test data are presented and discussed on subsequent pages of this report.

It may be noted in Tables III through XXI that the test data include information about 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		
B	1[a]		
C	2[a]		
D	2		
E	No samples submitted.		
F	8		
G	8		
H	9		
I	No samples submitted.		
J	6		

(Continued on the following page)

Mill Code	No. of Sample Lots W.F.	D.F.	Misc.
K	8		
L	5		
M	12[a]		1[b]
N	4		
O	No samples submitted.		
P	10		
Q	7		
S	3[a]		
R[c]	No samples submitted.		

[a] One side only.
[b] Unidentified.
[c] Drum linerboard.

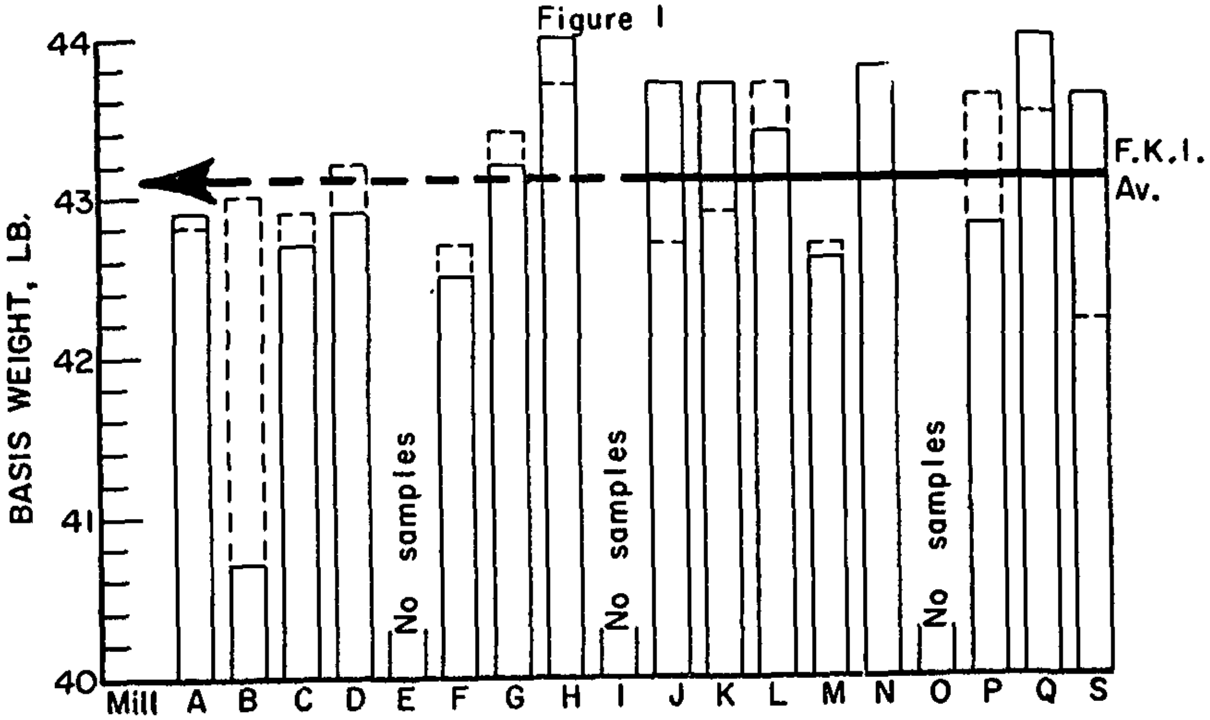
The results indicate that the majority of the participating mills are using a water finish on their 42-lb. linerboard.

TABLE II

SUMMARY OF COMPOSITE MILL AVERAGES--FEBRUARY 1 THROUGH FEBRUARY 28, 1958

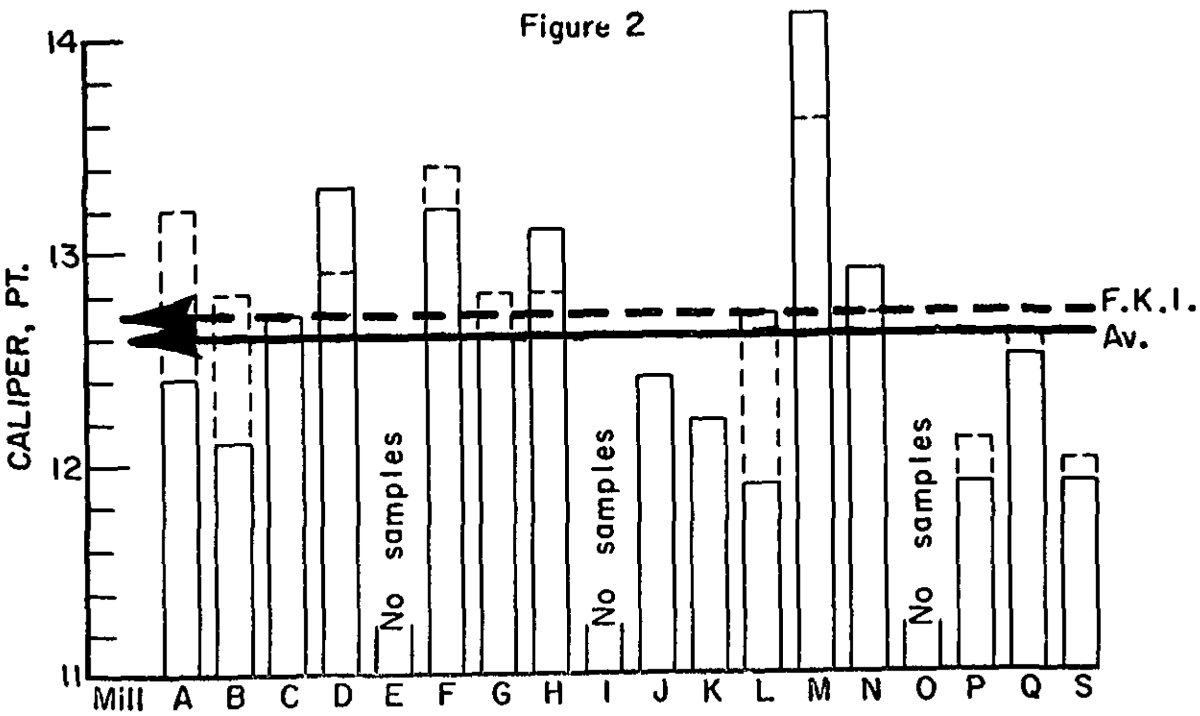
Mill	Basis Weight, lb.	Caliper, points	Bursting Strength, p.s.i. gage	Elmendorf Tear, g./sheet In Machine	Elmendorf Tear, g./sheet Cross Machine
A	42.9	12.4	109	353	371
B	40.7	12.1	108	297	362
C	42.7	12.7	116	323	391
D	42.9	13.3	102	353	378
E	No samples submitted.				
F	42.5	13.2	112	295	369
G	43.2	12.6	103	295	344
H	44.0	13.1	105	335	366
I	No samples submitted during the past 12 months.				
J	43.7	12.4	108	316	356
K	43.7	12.2	111	374	367
L	43.4	11.9	119	316	359
M	42.6	14.1	115	349	377
N	43.8	12.9	114	354	397
O	No samples submitted.				
P	42.8	11.9	110	370	402
Q	44.0	12.5	117	324	370
S	43.6	11.9	117	331	379
Current FKI Average:	43.1	12.6	111	332	372
Cumulative FKI Average:	43.1	12.7	111	334	372
FKI Index, %	100.0	99.2	100.0	99.4	100.0

Figure 1



COMPARISON OF BASIS WEIGHT RESULTS
(Period Feb. 1 - Feb. 28, 1958)

Figure 2

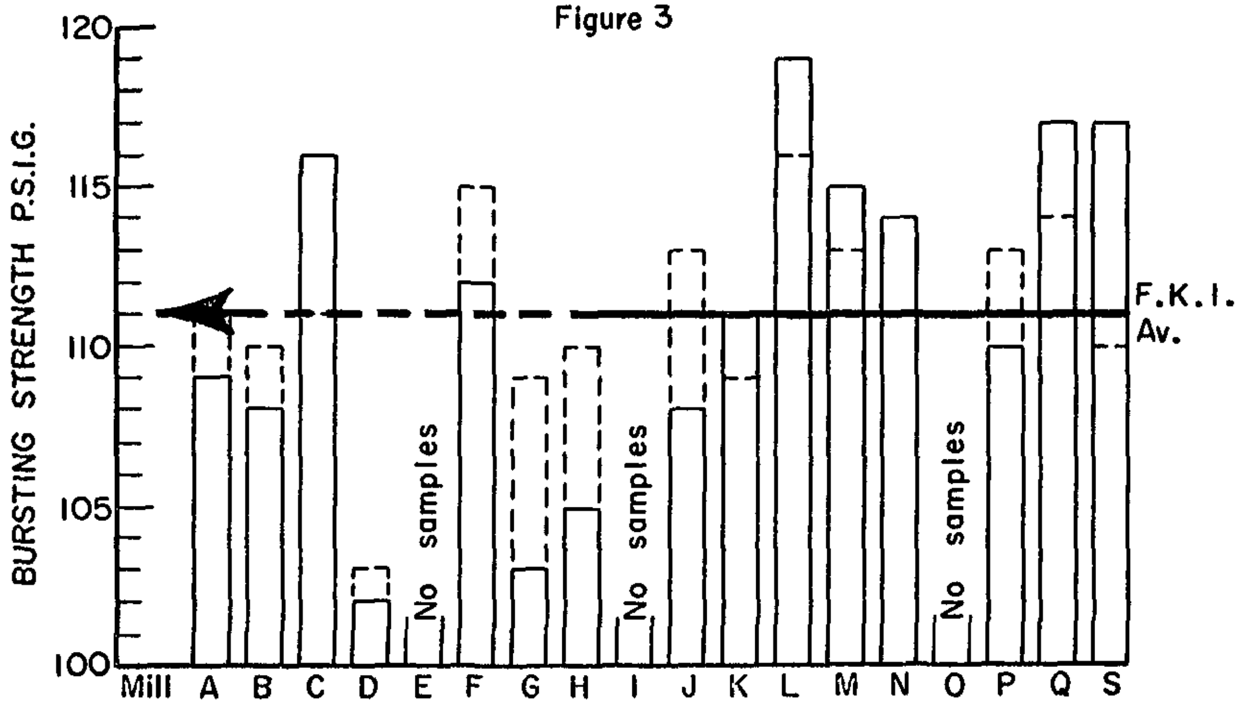


COMPARISON OF CALIPER RESULTS
(Period Feb. 1 - Feb. 28, 1958)

———— Current mill average

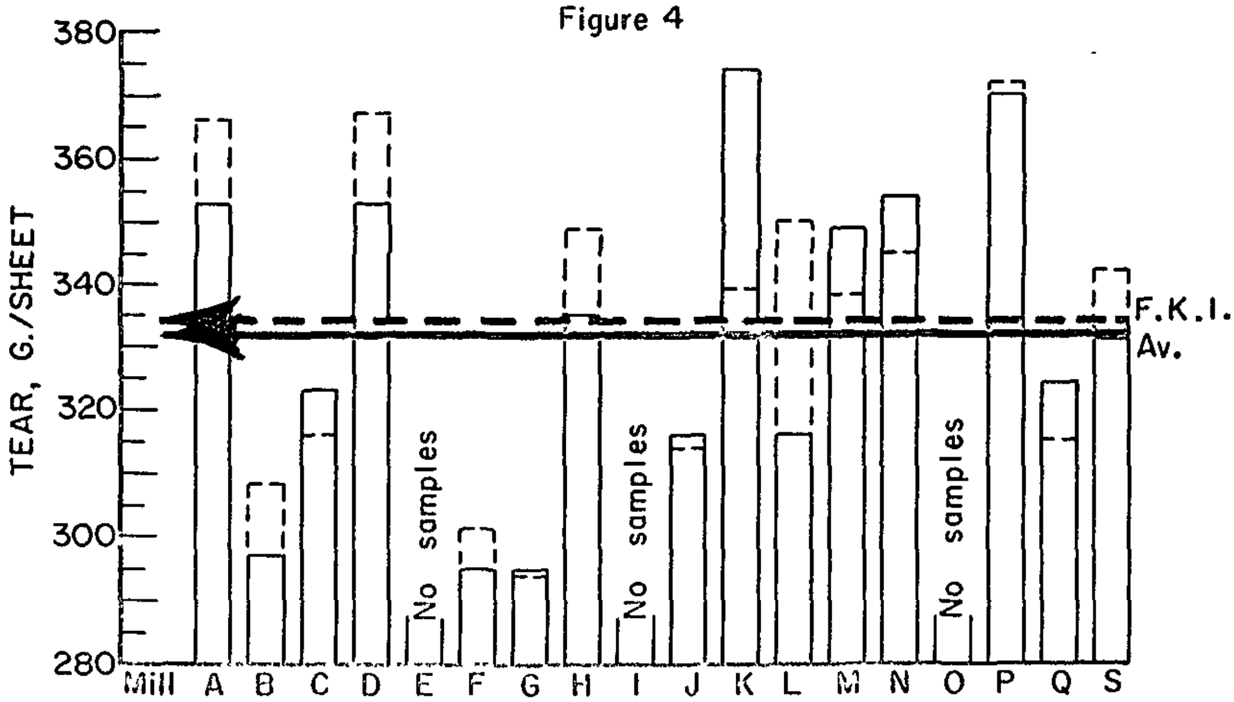
- - - - - Cumulative mill average

Figure 3



COMPARISON OF BURSTING STRENGTH RESULTS
(Period Feb. 1 - Feb. 28, 1958)

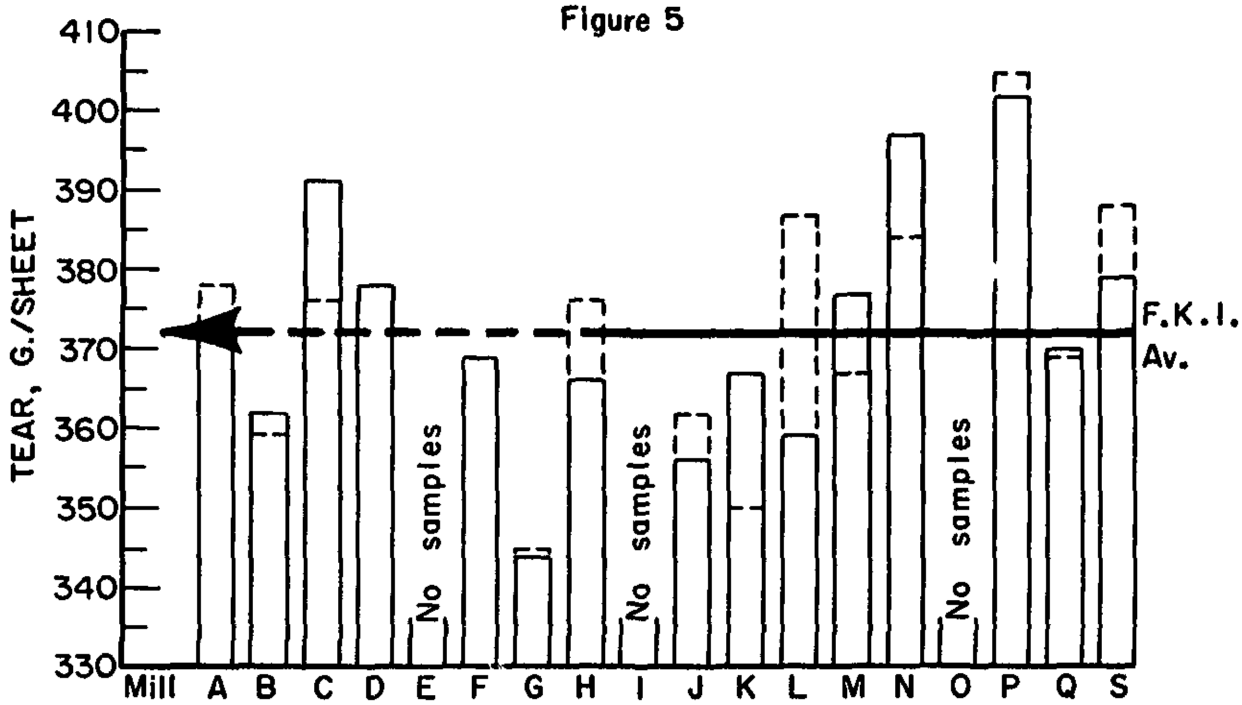
Figure 4



COMPARISON OF TEAR RESULTS, Machine Direction
(Period Feb. 1 - Feb. 28, 1958)

——— Current mill average
- - - - - Cumulative mill average

Figure 5



COMPARISON OF TEAR RESULTS, Cross-Machine Direction
(Period Feb. 1 - Feb. 28, 1958)

——— Current mill average
- - - - - Cumulative mill average

SUMMARY OF INSTITUTE DATA--FEBRUARY 1 THROUGH FEBRUARY 28, 1958

TABLE III

MILL A -- 42-LB. LINERBOARD

File No.	Finish	Date Recd.	Date Made	Mch. No.	Basis Weight, lb.			Caliper, points			Bursting Strength, p.s.i. gage			Elmendorf Tear, g./sheet, In			Elmendorf Tear, g./sheet, Across		
					Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.
176863	W.	2/ 3/58	1/10/58	4	44.0	40.8	42.7	12.1	11.6	11.9	130	100	116	384	312	357[a]	416	336	371[a]
176864	W.	2/ 3/58	1/16/58	4	42.6	41.6	42.0	12.5	12.0	12.2	121	94	108	384	320	357	400	320	363[a]
177018	W	2/ 7/58	1/28/58	4	44.0	42.2	43.2	12.8	12.1	12.3	123	82	107	400	320	344[a]	416	336	376[a]
177019	W.	2/ 7/58	1/30/58	4	44.0	41.8	42.5	12.8	11.8	12.2	136	79	108	432	296	343[a]	432	336	367[a]
177223	W.	2/24/58	2/11/58	2	44.4	42.0	43.4	14.0	12.9	13.5	124	88	106	400	304	349	416	336	375[a]
177224	W	2/24/58	2/13/58	4	44.6	41.4	43.2	12.7	11.9	12.4	128	86	110	400	328	369[a]	400	344	376[a]
Current Mill Average.							42.9			12.4			109			353			371
Cumulative Mill Average							42.8			13.2			111			366			378
Mill Factor, %							100.2			93.9			98.2			96.4			98.1
Mill Index, %							99.5			97.6			98.2			105.7			99.7

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

SUMMARY OF INSTITUTE DATA--FEBRUARY 1 THROUGH FEBRUARY 28, 1958 (continued)

TABLE IV

MILL B -- 42-LB. LINERBOARD

File No.	Finish	Date Recd.	Date Made	Mch. No.	Basis Weight, lb.			Caliper, points			Bursting Strength, p.s.i. gage			Elmendorf Tear, g./sheet In			Elmendorf Tear, g./sheet Across		
					Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.
177055	WF1S	2/10/58	2/ 4/58	1	42.0	39.6	40.7	12.8	11.1	12.1	138	84	108	336	264	297[a]	392	336	362[a]
Current Mill Average:							40.7			12.1			108			297			362
Cumulative Mill Average:							43.0			12.8			110			308			359
Mill Factor, %							94.7			94.5			98.2			96.4			100.8
Mill Index, %							94.4			95.3			97.3			88.9			97.3

TABLE V

MILL C -- 42-LB. LINERBOARD

File No.	Finish	Date Recd.	Date Made	Mch. No.	Basis Weight, lb.			Caliper, points			Bursting Strength, p.s.i. gage			Elmendorf Tear, g./sheet In			Elmendorf Tear, g./sheet Across		
					Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.
177071	WF1S	2/11/58	2/ 6/58	1	44.0	42.2	42.9	13.1	12.3	12.8	135	95	114	376	256	328	448	336	394[a]
177072	WF1S	2/11/58	2/ 7/58	1	43.4	42.0	42.4	13.1	12.1	12.7	133	94	118	400	256	317	480	336	388[a]
Current Mill Average:							42.7			12.7			116			323			391
Cumulative Mill Average:							42.9			12.6			111			316			376
Mill Factor, %							99.5			100.8			104.5			102.2			104.0
Mill Index, %							99.1			100.0			104.5			96.7			105.1

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

SUMMARY OF INSTITUTE DATA--FEBRUARY 1 THROUGH FEBRUARY 28, 1958 (continued)

TABLE VI

MILL D -- 42-LB. LINERBOARD

File No.	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.	Elmendorf Tear, g./sheet In Max.	Elmendorf Tear, g./sheet In Min.	Elmendorf Tear, g./sheet In Av.	Elmendorf Tear, g./sheet Across Max.	Elmendorf Tear, g./sheet Across Min.	Elmendorf Tear, g./sheet Across Av.
176862	S.F.	2/ 3/58	1/23/58	7	43.0	41.2	42.2	13.9	12.8	13.4	120	78	99	480	296	347[a]	416	336	367[a]
177070	S.F.	2/11/58	2/ 4/58	7	44.4	42.6	43.6	13.5	12.9	13.2	130	82	106	408	320	358[a]	440	344	390[a]
Current Mill Average							42.9			13.3			102			353			378
Cumulative Mill Average							43.2			12.9			103			367			378
Mill Factor, %							99.3			103.1			99.0			96.2			100.0
Mill Index, %							99.5			104.7			91.9			105.7			101.6

TABLE VII

MILL E -- 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.

SUMMARY OF INSTITUTE DATA--FEBRUARY 1 THROUGH FEBRUARY 28, 1958 (continued)

TABLE VIII

MILL F -- 42-LB. LINERBOARD

File No.	Finish	Date Recd.	Date Made	Mch. No.	Basis Weight, lb.			Caliper, points			Bursting Strength, p.s.i. gage			Elmendorf Tear, g./sheet In			Elmendorf Tear, g./sheet Across		
					Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.
176366	W.F.	2/ 3/58	12/17/57	1	43.8	42.4	43.5	14.3	12.8	13.6	133	79	113	368	240	288[a]	456	352	395[a]
176367	W.F.	2/ 3/58	12/22/57	1	43.8	41.8	42.6	13.8	13.0	13.5	129	86	111	368	272	313	432	352	380[a]
176368	W.F.	2/ 3/58	1/ 8/58	1	41.4	40.4	41.0	13.4	11.9	12.7	136	80	105	304	256	272	384	304	349[a]
176369	W.F.	2/ 3/58	1/12/58	1	42.0	41.0	41.6	13.6	12.8	13.1	127	90	108	320	256	272	360	320	335[a]
177066	W.F.	2/11/58	1/15/58	1	43.8	42.0	42.9	13.9	12.4	13.2	136	95	116	360	264	315[a]	416	352	377[a]
177067	W.F.	2/11/58	1/20/58	1	43.8	42.0	42.9	14.0	12.5	13.0	144	91	113	368	248	296[a]	392	328	360[a]
177131	W.F.	2/17/58	1/24/58	1	43.0	41.8	42.2	13.3	12.7	13.1	132	95	110	336	248	288[a]	376	328	357[a]
177132	W.F.	2/17/58	1/29/58	1	44.0	43.0	43.6	14.2	12.8	13.3	137	94	118	368	264	320	432	352	400[a]
Current Mill Average.							42.5			13.2			112			295			369
Cumulative Mill Average:							42.7			13.4			115			301			369
Mill Factor, %							99.5			98.5			97.4			98.0			100.0
Mill Index, %							98.6			103.9			100.9			88.3			99.2

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

SUMMARY OF INSTITUTE DATA--FEBRUARY 1 THROUGH FEBRUARY 28, 1958 (continued)

TABLE IX

MILL G -- 42-LB. LINERBOARD

File No.	Finish	Date Recd.	Date Made	Mch. No.	Basis Weight, lb.			Caliper, points			Bursting Strength, p.s.i. gage			Elmendorf Tear, g./sheet					
														In			Across		
					Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.
176986	W.F.	2/ 6/58	1/ 3/58	1	44.0	41.8	42.6	13.0	12.0	12.6	118	54	97	368	240	291	384	304	335[a]
176937	W.F.	2/ 6/58	1/ 7/58	1	43.8	40.4	42.5	13.0	12.0	12.5	113	75	97	368	240	309	408	320	346[a]
177059	W.F.	2/11/58	1/15/58	1	43.4	41.4	42.5	12.8	12.0	12.3	116	72	100	320	248	282[a]	416	296	334[a]
177060	W.F.	2/11/58	1/21/58	1	43.6	41.6	42.8	12.7	11.8	12.2	112	81	97	336	232	279[a]	384	304	343[a]
177061	W.F.	2/11/58	1/27/58	1	44.0	42.4	43.6	13.1	12.2	12.7	119	81	103	312	240	278[a]	416	288	337[a]
177214	W.F.	2/21/58	2/ 4/58	1	45.0	43.2	44.0	13.3	12.2	12.9	119	95	109	368	272	323	416	296	359[a]
177225	W.F.	2/24/58	2/10/58	1	44.2	42.6	43.5	13.1	12.2	12.6	128	95	112	352	240	296[a]	368	304	338[a]
177220	W.F.	2/24/58	2/17/58	1	44.8	42.8	43.8	13.2	12.2	12.8	125	80	109	320	264	299[a]	400	320	357[a]
Current Mill Average							43.2			12.6			103			295			344
Cumulative Mill Average:							43.4			12.8			109			294			345
Mill Factor, %							99.5			98.4			94.5			100.3			99.7
Mill Index, %							100.2			99.2			92.8			88.3			92.5

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

SUMMARY OF INSTITUTE DATA--FEBRUARY 1 THROUGH FEBRUARY 28, 1958 (continued)

TABLE X

MILL H -- 42-LB. LINERBOARD

File No	Finish	Date Recd.	Date Made	Mch. No.	Basis Weight, lb.			Caliper, points			Bursting Strength, p.s.i. gage			Elmendorf Tear, g./sheet In			Elmendorf Tear, g./sheet Across		
					Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.
176961	W.F.	2/ 5/58	1/29/58	-	44.2	42.4	43.2	13.1	12.3	12.8	127	80	107	344	272	305[a]	400	304	347[a]
176962	W.F.	2/ 5/58	1/30/58	-	45.2	44.2	44.8	14.1	13.2	13.7	121	82	99	352	312	326[a]	384	344	359[a]
176963	W.F.	2/ 5/58	1/31/58	-	45.0	43.4	44.2	13.2	12.5	12.9	130	84	108	376	304	339[a]	432	344	378[a]
177092	W.F.	2/14/58	2/ 5/58	-	44.6	43.6	44.0	13.7	12.5	13.1	125	85	106	416	288	335[a]	416	336	375[a]
177093	W.F.	2/14/58	2/ 6/58	-	45.6	43.8	44.3	13.7	12.8	13.1	121	99	108	384	312	349[a]	432	336	383[a]
177094	W.F.	2/14/58	2/ 7/58	-	45.6	43.8	44.5	13.5	12.0	12.8	121	88	103	392	288	337[a]	416	336	372[a]
177128	W.F.	2/17/58	2/12/58	-	44.4	43.6	44.1	13.7	13.0	13.2	125	91	106	400	320	344	432	320	379[a]
177129	W.F.	2/17/58	2/13/58	-	44.0	43.6	43.9	13.6	12.2	13.0	127	92	110	376	336	353[a]	384	304	347[a]
177130	W.F.	2/17/58	2/14/58	-	44.0	42.0	43.5	13.3	12.2	12.8	119	87	100	368	272	323[a]	384	320	353[a]
Current Mill Average							44.0			13.1			105			335			366
Cumulative Mill Average							43.7			12.8			110			349			376
Mill Factor, %							100.7			102.3			95.5			96.0			97.3
Mill Index, %							102.1			103.1			94.6			100.3			98.4

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

SUMMARY OF INSTITUTE DATA--FEBRUARY 1 THROUGH FEBRUARY 28, 1958 (continued)

TABLE XI

MILL I -- 42-LB. LINERBOARD

File No.	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.	Elmendorf Tear, g./sheet In Max.	Min.	Av.	Across Max.	Min.	Av.
No samples submitted.																			

TABLE XII

MILL J -- 42-LB. LINERBOARD

File No.	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.	Elmendorf Tear, g./sheet In Max.	Min.	Av.	Across Max.	Min.	Av.
176359	W F.	2/ 3/58	1/24/58	1	45.0	43.8	44.1	12.8	11.7	12.2	132	85	110	376	248	319[a]	368	312	332[a]
176360	W F	2/ 3/58	1/24/58	1	43.8	42.4	43.1	13.1	11.8	12.6	145	85	109	352	272	315[a]	416	320	360[a]
176931	W F	2/ 4/58	1/25/58	2	44.4	43.5	44.0	14.2	12.0	13.0	122	77	103	360	288	315	400	344	375[a]
176932	W F	2/ 4/58	1/25/58	2	44.6	43.4	44.0	13.3	12.0	12.9	127	92	105	416	304	335	415	320	365[a]
177057	W F.	2/10/58	2/ 1/58	1	44.2	42.4	43.6	12.5	10.3	11.8	147	83	111	352	264	306	384	320	350[a]
177058	W F.	2/10/58	2/ 1/58	1	43.8	43.0	43.6	12.5	10.8	11.7	136	70	111	336	264	306[a]	376	312	351[a]
Current Mill Average:							43.7			12.4			108			316			356
Cumulative Mill Average:							42.7			12.4			113			314			362
Mill Factor, %							102.3			100.0			95.6			100.6			98.3
Mill Index, %							101.4			97.6			97.3			94.6			95.7

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

SUMMARY OF INSTITUTE DATA--FEBRUARY 1 THROUGH FEBRUARY 28, 1958 (continued)

TABLE XIII

MILL K -- 42-LB. LINERBOARD

File No.	Finish	Date Recd.	Date Made	Mch. No.	Basis Weight, lb.			Caliper, points			Bursting Strength, p.s.i. gage			Elmendorf Tear, g./sheet, In			Elmendorf Tear, g./sheet, Across		
					Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.
176925	W.F	2/ 3/58	1/13/58	-	44.0	42.0	43.4	13.0	12.0	12.4	122	83	105	432	320	379[a]	384	320	346[a]
176926	W.F	2/ 3/58	1/13/58	-	46.0	43.8	45.0	13.1	12.0	12.4	127	83	111	560	368	415[a]	408	344	379[a]
176921	W F	2/ 3/58	1/20/58	-	45.2	43.6	44.5	13.0	12.0	12.5	137	88	115	440	312	367[a]	416	344	377[a]
176922	W.F.	2/ 3/58	1/20/58	-	46.0	44.0	44.7	12.9	12.0	12.5	133	96	117	480	328	373[a]	496	320	374[a]
176923	W F.	2/ 3/58	1/22/58	-	43.6	41.8	42.4	12.8	10.4	11.9	121	33	104	448	312	379[a]	400	320	354[a]
176924	W.F.	2/ 3/58	1/22/58	-	44.4	42.4	43.8	13.0	12.0	12.5	134	83	112	432	312	383[a]	416	320	380[a]
177195	W.F.	2/19/58	2/ 7/58	-	43.8	41.8	43.1	11.8	10.1	11.1	127	95	112	368	296	332[a]	400	304	346[a]
177196	W F.	2/19/58	2/ 7/58	-	44.0	41.6	43.1	12.6	11.2	11.9	129	94	111	424	304	363[a]	424	344	381[a]
Current Mill Average.							43.7			12.2			111			374			367
Cumulative Mill Average:							42.9			12.2			109			339			350
Mill Factor, %							101.9			100.0			101.8			110.3			104.9
Mill Index, %							101.4			96.1			100.0			112.0			98.7

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

SUMMARY OF INSTITUTE DATA--FEBRUARY 1 THROUGH FEBRUARY 28, 1958 (continued)

TABLE XIV

MILL L -- 42-LB. LINERBOARD

File No.	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.	Elmendorf Tear, g./sheet In Max.	Min.	Av.	Across Max.	Min.	Av.
176917	W.F.	2/ 3/58	1/23/58	-	43.6	42.4	43.1	12.3	11.1	11.8	136	106	119	304	248	283[a]	384	304	343[a]
176918	W.F.	2/ 3/58	1/24/58	-	44.6	43.0	43.8	12.2	11.5	11.9	134	102	119	344	272	296	368	304	333[a]
176919	W.F.	2/ 3/58	1/25/58	-	43.6	41.6	42.6	12.0	11.0	11.5	137	96	114	352	288	319[a]	384	304	354[a]
176920	W.F.	2/ 3/58	1/27/58	-	44.8	43.6	44.1	12.8	11.9	12.3	142	107	124	392	296	351[a]	416	360	394[a]
177215	W.F.	2/21/58	1/29/58	-	45.0	41.4	43.5	12.4	11.1	11.8	135	102	120	384	304	331[a]	472	336	373[a]
Current Mill Average:							43.4			11.9			119			316			359
Cumulative Mill Average:							43.7			12.7			116			350			387
Mill Factor, %							99.3			93.7			102.6			90.3			92.8
Mill Index, %							100.7			93.7			107.2			94.6			96.5

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

SUMMARY OF INSTITUTE DATA--FEBRUARY 1 THROUGH FEBRUARY 28, 1958 (continued)

TABLE XV

MILL M -- 42-LB. LINERBOARD

File No.	Finish	Date Recd.	Date Made	Mch. No.	Basis Weight, lb.			Caliper, points			Bursting Strength, p.s.i. gage			Elmendorf Tear, g./sheet					
														In			Across		
					Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.
176861	WF1S	2/ 3/58	1/22/58	2	42.6	41.2	42.0	14.8	13.2	14.0	132	96	112	448	304	369[a]	448	328	387[a]
176927	WF1S	2/ 3/58	1/22/58	2	44.0	42.2	43.1	15.8	14.3	15.1	130	74	111	432	304	352[a]	448	328	385[a]
176928	WF1S	2/ 3/58	1/25/58	2	42.8	41.8	42.2	14.7	12.3	13.8	137	88	107	432	304	372[a]	376	312	353[a]
176929	WF1S	2/ 3/58	1/26/58	2	44.4	43.0	43.8	15.2	14.2	14.8	142	82	114	360	272	320[a]	416	336	382[a]
176930	WF1S	2/ 3/58	1/27/58	2	43.0	41.6	42.2	14.0	13.3	13.7	137	98	115	376	296	329[a]	416	320	375[a]
177062	WF1S	2/11/58	1/29/58	2	43.2	41.4	42.5	15.0	13.3	14.4	134	87	110	432	288	353[a]	432	352	375[a]
177063	WF1S	2/11/58	1/30/58	2	42.4	40.4	41.5	14.3	13.2	13.9	138	94	117	368	304	336[a]	432	320	369[a]
177064	WF1S	2/11/58	1/31/58	2	44.2	42.0	43.4	14.8	13.5	14.0	145	95	118	400	304	335[a]	424	336	387[a]
177065	WF1S	2/11/58	2/ 1/58	2	43.4	42.0	42.5	14.5	13.2	14.0	140	98	119	432	312	368[a]	416	352	393[a]
177095	WF1S	2/14/58	2/ 9/58	2	43.8	42.0	42.8	14.5	13.0	13.8	145	95	119	408	320	363[a]	432	320	387[a]
177096	----	2/14/58	2/10/58	2	43.8	42.4	43.5	14.3	13.5	13.9	148	98	120	464	304	362[a]	416	320	376[a]
177097	WF1S	2/14/58	2/11/58	2	42.4	41.0	41.9	14.0	13.1	13.6	139	100	120	464	312	353[a]	392	336	371[a]
177194	WF1S	2/19/58	2/12/58	2	44.0	41.6	42.8	14.5	13.9	14.1	134	90	114	368	288	325[a]	400	320	355[a]
Current Mill Average:							42.6			14.1			115			349			377
Cumulative Mill Average:							42.7			13.6			113			338			367
Mill Factor, %							99.8			103.7			101.8			103.3			102.7
Mill Index, %							98.8			111.0			103.6			104.5			101.3

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

SUMMARY OF INSTITUTE DATA--FEBRUARY 1 THROUGH FEBRUARY 28, 1958 (continued)

TABLE XVI

MILL N -- 42-LB. LINERBOARD

File No.	Finish	Date Recd.	Date Made	Scn. No.	Basis Weight, lb. Max.	Min.	Av.	Caliper, points Max.	Min.	Av.	Bursting Strength, p.s.i. gage Max.	Min.	Av.	Elmendorf Tear, g./sheet In Max.	Min.	Av.	Across Max.	Min.	Av.
177068	W.F.	2/11/58	2/ 2/58	2	44.0	43.4	43.8	13.1	12.3	12.8	136	72	110	448	272	345[a]	440	272	389[a]
177069	W.F.	2/11/58	2/ 3/58	2	44.2	43.8	43.9	13.1	12.5	12.8	132	89	111	440	312	374[a]	464	368	414[a]
177221	W.F.	2/24/58	2/14/58	2	44.0	43.2	43.7	13.3	12.8	13.0	138	97	116	416	288	356	448	368	395[a]
177222	W.F.	2/24/58	2/15/58	2	44.4	43.0	43.9	13.0	12.6	12.9	148	94	118	392	312	342	415	360	391[a]
Current Mill Average							43.8			12.9			114			354			397
Cumulative Mill Average.							43.1			12.7			111			345			384
Mill Factor, %							101.6			101.6			102.7			102.6			103.4
Mill Index, %							101.6			101.6			102.7			106.0			106.7

TABLE XVII

MILL O -- 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.

SUMMARY OF INSTITUTE DATA--FEBRUARY 1 THROUGH FEBRUARY 28, 1958 (continued)

TABLE XVIII

MILL P -- 42-LB. [illegible]BOARD

File No.	Finish	Date Recd.	Date Made	Mch. No.	Basis Weight, lb.			Caliper, points			Bursting Strength, p.s.i. gage			Elmendorf Tear, g./sheet					
														In			Across		
					Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.
176964	W.B.	2/ 5/58	1/24/58	-	42.6	41.3	42.2	11.8	11.0	11.3	124	92	109	416	320	351[a]	408	344	385
176965	W.B.	2/ 5/58	1/26/58	-	44.2	43.2	43.3	13.1	12.2	12.7	125	90	109	448	336	386[a]	456	384	417[a]
176966	W.B.	2/ 5/58	1/27/58	-	44.0	42.2	43.3	12.5	12.0	12.1	130	90	112	480	352	396[a]	448	384	417[a]
176967	W.B.	2/ 5/58	1/27/58	-	43.6	42.0	42.7	12.7	11.4	[illegible]	130	90	109	408	352	377	448	384	415[a]
176968	W.B.	2/ 5/58	1/27/58	-	44.4	42.6	43.4	12.3	11.5	11.9	120	84	107	400	320	369[a]	456	352	416[a]
177226	W.B.	2/24/58	2/ 6/58	-	42.6	40.0	41.6	12.0	11.0	11.4	126	100	113	384	280	355[a]	512	328	397[a]
177227	W.B.	2/24/58	2/11/58	-	43.8	41.8	42.8	12.7	11.2	11.9	125	85	107	440	304	382[a]	424	320	386[a]
177228	W.B.	2/24/58	2/12/58	-	44.4	41.6	42.9	12.2	11.2	11.8	133	87	111	432	320	369[a]	448	352	383[a]
177234	W.B.	2/25/58	2/13/58	-	43.8	41.6	42.6	12.8	11.0	11.9	125	86	108	392	320	360[a]	432	360	395[a]
177235	W.B.	2/25/58	2/18/58	-	44.0	41.0	42.4	13.0	11.5	12.2	131	95	111	400	312	353[a]	456	352	408[a]
Current Mill Average							42.8			11.9			110			370			402
Cumulative Mill Average							43.6			12.1			113			372			405
Mill Factor, %							98.2			98.3			97.3			99.5			99.3
Mill Index, %							99.3			98.7			99.1			110.8			108.1

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

SUMMARY OF INSTITUTE DATA--FEBRUARY 1 THROUGH FEBRUARY 28, 1958 (continued)

TABLE XIX

MILL Q -- 42-LB. LINERBOARD

File No.	Finish	Date Recd.	Date Made	Mch. No.	Basis Weight, lb.			Caliper, points			Bursting Strength, p.s.i. gage			Elmendorf Tear, g./sheet In			Elmendorf Tear, g./sheet Across		
					Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.
177050	W.F.	2/10/58	1/27/58	1	44.0	43.2	43.7	12.8	12.0	12.4	131	86	112	358	280	328[a]	376	296	345[a]
177051	W.F.	2/10/58	1/27/58	1	45.2	43.0	44.2	13.5	12.5	13.0	133	86	111	368	296	331[a]	416	328	378[a]
177052	W.F.	2/10/58	1/27/58	1	44.4	43.6	44.0	13.1	12.2	12.7	140	84	117	376	304	335[a]	408	312	365[a]
177053	W.F	2/10/58	2/ 2/58	2	44.8	43.2	44.0	12.4	11.8	12.1	140	102	122	352	288	321[a]	416	360	388[a]
177054	W F	2/10/58	2/ 2/58	2	44.2	43.4	43.9	12.4	11.8	12.1	143	107	127	336	280	317[a]	432	328	375[a]
177218	W F	2/24/58	2/12/58	1	45.6	43.2	44.3	13.2	12.2	12.7	136	84	112	360	280	313[a]	424	312	355[a]
177219	W F	2/24/58	2/14/58	2	44.2	43.6	43.8	12.9	12.1	12.5	130	101	118	368	296	320[a]	416	344	381[a]
Current Mill Average							44.0			12.5			117			324			370
Cumulative Mill Average							43.5			12.6			114			315			369
Mill Factor, %							101.1			99.2			102.6			102.9			100.3
Mill Index, %							102.1			98.4			105.4			97.0			99.5

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

SUMMARY OF INSTITUTE DATA--FEBRUARY 1 THROUGH FEBRUARY 28, 1958 (continued)

TABLE XX

MILL S -- 42-LB. LINERBOARD

File No.	Finish	Date Recd.	Date Made	Mch. No.	Basis Weight, lb.			Caliper, points			Bursting Strength, p.s.i. gage			Elmendorf Tear, g./sheet In			Elmendorf Tear, g./sheet Across		
					Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.
176365	WF1S	2/ 3/58	1/23/58	2	45.6	43.2	44.3	12.2	11.9	12.0	128	105	118	360	296	327	400	352	379[a]
177056	WF1S	2/10/58	2/ 2/58	2	44.2	42.4	43.2	12.0	10.2	11.1	128	94	114	344	280	311	384	336	365[a]
177089	WF1S	2/12/58	2/ 8/58	2	43.8	42.4	43.3	12.8	12.0	12.4	134	106	117	384	320	355[a]	440	360	394[a]
Current Mill Average:							43.6			11.9			117			331			379
Cumulative Mill Average							42.2			12.0			110			342			388
Mill Factor, %							103.3			99.2			106.4			96.8			97.7
Mill Index, %							101.2			93.7			105.4			99.1			101.9

TABLE XXI

MILL R -- 47-LB. DRUM LINERBOARD

No samples submitted.

[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 XXII, the atmospheric conditions used prior to and during the testing period were relatively uniform for the mills which reported this information. However, the conditioning periods varied considerably.

TABLE XXII

Mill Code	Preconditioning R.H., %	Preconditioning Temp., °F.	Preconditioning Time, hr.	Conditioning R.H., %	Conditioning Temp., °F.	Conditioning Time, hr.
A		None		52-53	73-74	--
B	47	74	24	48	74	--
C		None		52	68	--
D	50	73	24		None	
E		No samples submitted.				
F		None		40-60	75-82	--
G	43-56	68-74	0.5	50	73	24-48
H	34-36	77-78	8	50-53	72-73	16
I		No samples submitted.				
J	50	73	24	50	73	24
K		None		50	73	0.5
L	34	78	48	50	73	48
M	50	72	24		None	
N		None		50	73	24
O		No samples submitted.				
P		None		52	70-71	48
Q		None		50	73	24
S	50-51	70-76	24	50-51	73-76	24

A summary of the Institute and mill test results for the current period is shown in Table XXIII, and a comparison of differences between Institute and mill test results is given in Table XXIV for the current period and the two previous periods. The comparisons are given in Tables XXV to XLII, for the 42-lb. liner samples. A comparison of the special drum stock is given in Table XLIII. In all the comparisons given in Tables XXV to XLIII, the Institute's test values have been used as the reference line.

A comparison of the test data in Tables XXIII and XXIV reveals the level of agreement between mill and Institute data for basis weight, caliper, bursting strength, and Elmendorf tear. Table XXIII shows the average difference between Institute and mill test results for all sample lots submitted by each mill for the current period. In addition, the maximum difference encountered in comparing the Institute and mill test results for a given sample lot is shown. In Table XXIV, the average differences shown for each test in Table XXIII 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 XXIV that the maximum variation between the average basis weight results of the Institute and those of a given mill on corresponding samples is two per cent for the current period. By comparison, the maximum percentage variation noted for the previous two periods was five per cent. Further, it may be noted that the average basis weight results for Mills G, J, and M are higher than those for the Institute, the average results for Mills D, L, and S are the same and the average results for the other mills are lower. None of the variations appear to be excessive.

The maximum variation in caliper for the current period is six per cent. The maximum variation for the previous two periods was seven per cent.

Compared with the Institute's results, the test result for Mill G is the same and the test results for the rest of the mills are lower. The variation of six per cent associated with Mill B appears to be excessive.

It may be noted in Table XXIV that the bursting strength results exhibited a maximum variation of six per cent for the current period. The average results for Mills D, G, H, J, K, N, and P are higher than those for the Institute, and the results for the other mills are lower. None of the variations appear to be inordinately large with the possible exception of that for Mill C.

It may be seen in Tables XXIII and XXIV that the average machine direction tear results for Mills C, G, K, M, N, P, and Q are higher than those for the Institute, the average result for Mill J is the same as that for the Institute and the results for the other mills are lower. The maximum variation for the current period is twenty-two per cent. For the current period only the variation of twenty-two per cent noted for Mill B 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, G, K, L, M, N, P, and Q are higher than those for the Institute, the average result for Mill J is the same as that for the Institute, and the average results for the other mills are lower. The maximum variation for the current period is ten per cent. The variation associated with the result for Mill M appears to be large enough to be questioned; otherwise, agreement between mill and Institute results is very good.

TABLE XXII.

SUMMARY OF TEST RESULT COMPARISONS (AVERAGE MILL AND INSTITUTE RESULTS)

Mills*	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	S
No. Samples Compared	6	4	2	2	0	8	8	9	0	6	8	5	13	4	0	10	7	3
Basis Weight																		
Institute	42.9	40.7	42.7	42.9		42.5	43.2	44.0		43.7	43.7	43.4	42.6	43.3		42.8	44.0	43.6
Mill	42.7	40.2	42.3	42.9		41.8	43.3	43.9		43.8	43.2	43.4	43.4	43.7		42.2	43.1	43.6
Av. Diff.**	-0.2	-0.5	-0.4	0.0		-0.7	+0.1	-0.1		+0.1	-0.5	0.0	+0.8	-0.1		-0.6	-0.9	0.0
Max. Diff.***	-0.4	-0.5	-0.5	-0.1		-1.4	+0.7	±0.5		+0.2	-1.3	+0.8	+1.3	-0.3		-1.0	-1.3	-0.3
Caliper																		
Institute	12.4	12.1	12.7	13.3		13.2	12.6	13.1		12.4	12.2	11.9	14.1	12.9		11.9	12.5	11.9
Mill	12.1	11.4	12.5	13.2		12.9	12.6	12.5		12.0	12.0	11.7	13.7	12.6		11.5	12.4	11.5
Av. Diff.**	-0.3	-0.7	-0.2	-0.1		-0.3	0.0	-0.6		-0.4	-0.2	-0.2	-0.4	-0.3		-0.4	-0.1	-0.4
Max. Diff.***	-0.6	-0.7	-0.3	-0.2		-0.7	±0.2	-0.7		-0.5	-0.6	-0.3	-0.8	-0.3		-0.5	-0.3	-0.6
Bursting Strength																		
Institute	109	108	116	102		112	103	105		108	111	119	115	114		110	117	117
Mill	107	107	109	106		109	106	106		113	113	118	114	118		112	114	115
Av. Diff.**	-2	-1	-7	+4		-3	+3	+1		+5	+2	-1	-1	+4		+2	-3	-2
Max. Diff.***	-5	-1	-9	+5		-7	+8	+4		+9	+8	-6	-6	+7		+10	-11	-6
Tearing Strength, in																		
Institute	353	297	323	353		295	295	335		316	374	316	349	354		370	324	331
Mill	341	233	350	337		280	305	305		316	383	312	372	375		380	328	302
Av. Diff.**	-12	-64	+27	-16		-15	+10	-30		0	+9	-4	+23	+21		+10	+4	-29
Max. Diff.***	-28	-64	+34	-32		-61	+30	-62		+14	-52	-22	+55	+35		+29	+31	-56
Tearing Strength, across																		
Institute	371	362	391	378		369	344	366		356	367	359	377	397		402	370	379
Mill	372	343	406	395		361	355	345		356	396	380	414	432		417	386	366
Av. Diff.**	+1	-19	+15	+17		-8	+11	-21		0	+29	+21	+37	+35		+15	+16	-13
Max. Diff.***	+21	-19	+20	+39		-51	+25	-52		+20	+48	+35	+60	+57		+34	+54	-42

* Comparison based on averages involved 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 XXIV

COMPARISON OF INSTITUTE-MILL DIFFERENCES BY PERIODS
Average Differences, per cent

Mill	Period	Basis Weight	Caliper	Burst	Tear, in	Tear, across
A	Current	-0.5	-2	-2	-3	+0.3
	127th	-0.7	-3	-4	-4	+0.3
	126th	-0.7	-5	-2	-9	-2
B	Current	-1	-6	-0.9	-22	-5
	127th	-5	-7	-1	-6	+3
	126th	-2	-5	-3	-1	+5
C	Current	-0.9	-2	-6	+8	+4
	127th	—	—	—	—	—
	126th	-1	-2	-3	+5	+10
D	Current	0	-0.8	+4	-5	+4
	127th	-0.5	-2	0	-4	+1
	126th	-2	+2	+3	+0.6	+11
E	Current	—	—	—	—	—
	127th	-0.5	-2	-6	-15	-9
	126th	—	—	—	—	—
F	Current	-2	-2	-3	-5	-2
	127th	-2	-3	-4	-6	+0.3
	126th	-2	-2	-2	-3	+2
G	Current	+0.2	0	+3	+3	+3
	127th	-0.2	+0.8	+1	+4	+4
	126th	0	+0.8	+0.9	+7	+2
H	Current	-0.2	-5	+1	-9	-6
	127th	+2	-3	+3	-3	+0.3
	126th	-0.5	-2	0	-3	+1
I	Current	—	—	—	—	—
	127th	—	—	—	—	—
	126th	—	—	—	—	—

Mill	Period	Basis Weight	Caliper	Burs	Tear, in	Tear, across
J	Current	+0.2	-3	+5	0	0
	127th	+0.7	-3	+4	-2	0
	126th	0	-3	+3	-3	-3
K	Current	-1	-2	-2	+2	+8
	127th	—	—	—	—	—
	126th	-2	-2	0	+6	+9
L	Current	0	-2	-0.8	-1	+6
	127th	-0.7	+0.8	-3	-7	-3
	126th	-0.9	-0.8	-2	-11	-5
M	Current	+2	-3	-0.9	+7	+10
	127th	+2	-3	-5	+3	+12
	126th	+2	-0.7	-8	+6	+13
N	Current	-0.2	-2	+4	+6	+9
	127th	-0.2	-5	-0.9	+2	+9
	126th	+0.5	-2	0	+8	+17
O	Current	—	—	—	—	—
	127th	-2	-5	0	-2	+0.5
	126th	-2	-4	-3	-5	-3
P	Current	-1	-3	+2	+3	+4
	127th	-0.7	-4	+2	+4	+6
	126th	-2	-5	+0.9	+2	+3
Q	Current	-2	-0.8	-3	+1	+4
	127th	-0.9	-2	+0.9	+2	+5
	126th	-2	-2	-3	0	-0.5
S	Current	0	-3	-2	-9	-3
	127th	+0.9	-4	-5	-4	+4
	126th	-1	-5	-2	-11	-7

COMPARISON OF INSTITUTE AND MILL DATA--FEBRUARY 1 THROUGH FEBRUARY 28, 1958

TABLE XXV

MILL A -- 42-LB. LINERBOARD

File No.	Finish	Date Made	Mch No.	Basis Weight, lb.			Caliper, points			Bursting Strength, p.s.i. gage			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.
176863	W.	1/10/58	4	42.7	42.8	+0.1	11.9	11.6	-0.3	116	117	+1	357[a]	362	+ 5	371[a]	392	+21
176864	A.	1/16/58	4	42.0	42.1	+0.1	12.2	11.9	-0.3	108	106	-2	357	354	- 3	363[a]	384	+21
177018	[illegible]	1/28/58	4	43.2	42.8	-0.4	12.3	12.1	-0.2	107	105	-2	344[a]	335	- 9	376[a]	363	-13
177019	[illegible]	1/30/58	4	42.5	42.3	-0.2	12.2	11.8	-0.4	108	106	-2	343[a]	325	-18	367[a]	353	-14
177223	A.	2/11/58	2	43.4	43.2	-0.2	13.5	12.9	-0.6	106	105	-1	349	321	-28	375[a]	372	- 3
177224	W.	2/13/58	4	43.2	42.9	-0.3	12.4	12.1	-0.3	110	105	-5	369[a]	351	-18	376[a]	365	-11
Current Mill Average				42.9	42.7	-0.2	12.4	12.1	-0.3	109	107	-2	353	341	-12	371	372	+ 1

[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.

COMPARISON OF INSTITUTE AND MILL DATA--FEBRUARY 1 THROUGH FEBRUARY 28, 1958 (continued)

TABLE XXVI

MILL B -- 42-LB. LINERBOARD

File No.	Finish	Date Made	Mch. No.	Basis Weight, lb.			Caliper, points			Bursting Strength, p.s.i. gage			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.
177055	F1S	2/4/58	1	40.7	40.2	-0.5	12.1	11.4	-0.7	108	107	-1	297[a]	233	-64	362[a]	343	-19
Current Mill Average				40.7	40.2	-0.5	12.1	11.4	-0.7	108	107	-1	297	233	-64	362	343	-19

TABLE XXVII

MILL C -- 42-LB. LINERBOARD

File No.	Finish	Date Made	Mch. No.	Basis Weight, lb.			Caliper, points			Bursting Strength, p.s.i. gage			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.
177071	MF1S	2/6/58	1	42.9	42.4	-0.5	12.8	12.5	-0.3	114	110	-4	328	349	+21	394[a]	404	+10
177072	MF1S	2/7/58	1	42.4	42.2	-0.2	12.7	12.5	-0.2	118	109	-9	317	351	+34	388[a]	408	+20
Current Mill Average				42.7	42.3	-0.4	12.7	12.5	-0.2	116	109	-7	323	350	+27	391	406	+15

[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.

COMPARISON OF INSTITUTE AND MILL DATA--FEBRUARY 1 THROUGH FEBRUARY 28, 1958 (continued)

TABLE XXVIII

MILL D -- 42-LB. LINERBOARD

File No.	Finish	Date Made	Mch No.	Basis Weight, lb.			Caliper, points			Bursting Strength, p.s.i. gage			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.
176862	S F.	1/23/58	7	42.2	42.2	0.0	13.4	13.2	-0.2	99	104	+5	347[a]	315	-32	367[a]	362	- 5
177070	S F.	2/ 4/58	7	43.6	43.5	-0.1	13.2	13.2	0.0	106	109	+3	358[a]	359	+ 1	390[a]	429	+39
Current Mill Average.				42.9	42.9	0.0	13.3	13.2	-0.1	102	106	+4	353	337	-16	378	395	+17

TABLE XXIX

MILL E -- 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.

COMPARISON OF INSTITUTE AND MILL DATA--FEBRUARY 1 THROUGH FEBRUARY 28, 1958 (continued)

TABLE XXX

MILL F -- 42-LB. LINERBOARD

File No.	Finish	Date Made	Mch. No.	Basis Weight, lb.			Caliper, points			Bursting Strength, p.s.i. gage			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.
176866	W.F	12/17/57	1	43.5	42.3	-1.2	13.6	12.9	-0.7	113	108	-5	288[a]	302	+14	395[a]	364	-31
176867	W.F	12/22/57	1	42.6	41.7	-0.9	13.5	13.1	-0.4	111	114	+3	313	317	+ 4	380[a]	382	+ 2
176868	W.F.	1/ 8/58	1	41.0	41.6	+0.6	12.7	12.6	-0.1	105	106	+1	272	274	+ 2	349[a]	354	+ 5
176869	W.F.	1/12/58	1	41.6	41.6	0.0	13.1	12.7	-0.4	108	106	-2	272	264	- 8	335[a]	347	+12
177066	W.F.	1/15/58	1	42.9	41.6	-1.3	13.2	13.0	-0.2	116	109	-7	315[a]	263	-52	377[a]	353	-24
177067	W.F.	1/20/58	1	42.9	41.5	-1.4	13.0	12.9	-0.1	113	109	-4	296[a]	280	-16	360[a]	372	+12
177131	W.F.	1/24/58	1	42.2	41.6	-0.6	13.1	12.9	-0.2	110	110	0	288[a]	279	- 9	357[a]	368	+11
177132	W.F.	1/29/58	1	43.6	42.6	-1.0	13.3	12.9	-0.4	118	113	-5	320	259	-61	400[a]	349	-51
Current Mill Average.				42.5	41.8	-0.7	13.2	12.9	-0.3	112	109	-3	295	280	-15	369	361	- 8

[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.

COMPARISON OF INSTITUTE AND MILL DATA--FEBRUARY 1 THROUGH FEBRUARY 28, 1958 (continued)

TABLE XXXI

MILL G -- 42-LB. LINERBOARD

File No.	Finish	Date Made	Mch. No.	Basis Weight, lb.			Caliper, points			Bursting Strength, p.s.i. gage			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.
176986	M.F.	1/ 3/58	1	42.6	43.2	+0.6	12.6	12.5	-0.1	97	105	+8	291	306	+15	335[a]	346	+11
176987	M.F	1/ 7/58	1	42.5	43.2	+0.7	12.5	12.7	+0.2	97	104	+7	309	297	-12	346[a]	350	+ 4
177059	M.F.	1/15/58	1	42.5	42.8	+0.3	12.3	12.3	0.0	100	104	+4	282[a]	305	+23	334[a]	337	+ 3
177060	M.F	1/21/58	1	42.8	43.0	+0.2	12.2	12.3	+0.1	97	103	+6	279[a]	309	+30	343[a]	362	+19
177061	M.F	1/27/58	1	43.6	43.4	-0.2	12.7	12.5	-0.2	103	104	+1	278[a]	303	+25	337[a]	344	+ 7
177214	M.F.	2/ 4/58	1	44.0	43.7	-0.3	12.9	12.8	-0.1	109	110	+1	323	312	-11	359[a]	375	+16
177225	M.F.	2/10/58	1	43.5	43.6	+0.1	12.6	12.8	+0.2	112	108	-4	296[a]	309	+13	338[a]	363	+25
177220	M.F.	2/17/58	1	43.8	43.8	0.0	12.8	12.7	-0.1	109	108	-1	299[a]	303	+ 4	357[a]	361	+ 4
Current Mill Average				43.2	43.3	+0.1	12.6	12.6	0.0	103	106	+3	295	305	+10	344	355	+11

[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.

COMPARISON OF INSTITUTE AND MILL DATA--FEBRUARY 1 THROUGH FEBRUARY 28, 1958 (continued)

TABLE XXXII

MILL H -- 42-LB. LINERBOARD

File No.	Finish	Date Made	Mch. No.	Basis Weight, lb.			Caliper, points			Bursting Strength, p.s.i. gage			Elmendorf Tear, g./sheet					
													In			Across		
				IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill	Diff.	IPC	Mill	Diff.
176961	W.F.	1/29/58	-	43.2	43.1	-0.1	12.8	12.1	-0.7	107	105	-2	305[a]	287	-18	347[a]	337	-10
176962	W.F.	1/30/58	-	44.8	44.3	-0.5	13.7	13.2	-0.5	99	100	+1	326[a]	305	-21	359[a]	331	-28
176963	W F	1/31/58	-	44.2	44.7	+0.5	12.9	12.5	-0.4	108	108	0	339[a]	313	-26	378[a]	356	-22
177092	W F.	2/ 5/58	-	44.0	44.3	+0.3	13.1	12.4	-0.7	106	108	+2	335[a]	304	-31	375[a]	351	-24
177093	W F.	2/ 6/58	-	44.3	43.8	-0.5	13.1	12.4	-0.7	108	107	-1	349[a]	316	-33	383[a]	331	-52
177094	W F.	2/ 7/58	-	44.5	44.0	-0.5	12.8	12.3	-0.5	103	104	+1	337[a]	301	-36	372[a]	339	-33
177128	W.F.	2/12/58	-	44.1	44.4	+0.3	13.2	12.7	-0.5	106	110	+4	344	319	-25	379[a]	376	- 3
177129	W.F.	2/13/58	-	43.9	43.8	-0.1	13.0	12.5	-0.5	110	110	0	353[a]	291	-62	347[a]	340	- 7
177130	W F.	2/14/58	-	43.5	43.1	-0.4	12.8	12.2	-0.6	100	104	+4	323[a]	309	-14	353[a]	347	- 6
Current Mill Average				44.0	43.9	-0.1	13.1	12.5	-0.6	105	106	+1	335	305	-30	366	345	-21

[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.

COMPARISON OF INSTITUTE AND MILL DATA--FEBRUARY 1 THROUGH FEBRUARY 28, 1958 (continued)

TABLE XXXIII

MILL I -- 42-LB. LINERBOARD

No samples submitted

TABLE XXXIV

MILL J -- 42-LB. LINERBOARD

File No.	Finish	Date Made	Mch. No.	Basis Weight, lb.			Caliper, points			Bursting Strength, p.s.i. gage			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.
176859	W.F.	1/24/58	1	44.1	44.3	+0.2	12.2	11.8	-0.4	110	113	+3	319[a]	333	+14	332[a]	343	+11
176860	W.F.	1/24/58	1	43.1	43.3	+0.2	12.6	12.1	-0.5	109	113	+4	315[a]	323	+ 8	360[a]	347	-13
176931	W.F.	1/25/58	2	44.0	44.1	+0.1	13.0	12.5	-0.5	103	112	+9	315	313	- 2	375[a]	379	+ 4
176932	W.F.	1/25/58	2	44.0	44.2	+0.2	12.9	12.8	-0.1	105	111	+6	335	324	-11	365[a]	385	+20
177057	W.F.	2/ 1/58	1	43.6	43.6	0.0	11.8	11.5	-0.3	111	115	+4	306	310	+ 4	350[a]	348	- 2
177058	W.F.	2/ 1/58	1	43.6	43.5	-0.1	11.7	11.6	-0.1	111	117	+6	306[a]	295	-11	351[a]	332	-19
Current Mill Average:				43.7	43.8	+0.1	12.4	12.0	-0.4	108	113	+5	316	316	0	356	356	0

[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.

COMPARISON OF INSTITUTE AND MILL DATA--FEBRUARY 1 THROUGH FEBRUARY 28, 1958 (continued)

TABLE XXXV

MILL K -- 42-LB. LINERBOARD

File No.	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.	Elmendorf Tear, g./sheet In IPC	Elmendorf Tear, g./sheet In Mill	Elmendorf Tear, g./sheet In Diff.	Elmendorf Tear, g./sheet Across IPC	Elmendorf Tear, g./sheet Across Mill	Elmendorf Tear, g./sheet Across Diff.
176925	W.F.	1/13/58	-	43.4	43.1	-0.3	12.4	11.8	-0.6	105	107	+2	379[a]	357	-22	346[a]	369	+23
176926	W.F.	1/13/58	-	45.0	43.9	-1.1	12.4	11.9	-0.5	111	107	4	415[a]	363	-52	379[a]	371	- 8
176921	W.F.	1/20/58	-	44.5	43.3	-1.2	12.5	12.5	0.0	115	114	-1	367[a]	394	+27	377[a]	406	+29
176922	W.F.	1/20/58	-	44.7	43.4	-1.3	12.5	12.5	0.0	117	115	-2	373[a]	388	+15	374[a]	405	+31
176923	W.F.	1/22/58	-	42.4	42.8	+0.4	11.9	11.9	0.0	104	109	+5	379[a]	400	+21	354[a]	394	+40
176924	W.F.	1/22/58	-	43.8	43.9	+0.1	12.5	12.6	+0.1	112	114	+2	383[a]	410	+27	380[a]	407	+27
177195	W.F.	2/ 7/58	-	43.1	42.8	-0.3	11.1	11.0	-0.1	112	117	+5	332[a]	371	+39	346[a]	394	+48
177196	W.F.	2/ 7/58	-	43.1	42.5	-0.6	11.9	11.6	-0.3	111	119	+8	363[a]	384	+21	381[a]	423	+42
Current Mill Average:				43.7	43.2	-0.5	12.2	12.0	-0.2	111	113	+2	374	383	+ 9	367	396	+29

[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.

COMPARISON OF INSTITUTE AND MILL DATA--FEBRUARY 1 THROUGH FEBRUARY 28, 1958 (continued)

TABLE XXXVI

MILL L -- 42-LB. LINERBOARD

File No.	Finish	Date Made	Mch. No.	Basis Weight, lb.			Caliper, points			Bursting Strength, p.s.i. gage			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.
176917	W.F.	1/23/58	-	43.1	43.0	-0.1	11.8	11.6	-0.2	119	117	-2	283[a]	289	+ 6	343[a]	349	+ 6
176918	W F.	1/24/58	-	43.8	43.4	-0.4	11.9	11.6	-0.3	119	113	-6	296	301	+ 5	333[a]	365	+32
176919	W F	1/25/58	-	42.6	43.4	+0.8	11.5	11.5	0.0	114	116	+2	319[a]	317	- 2	354[a]	380	+26
176920	W.F.	1/27/58	-	44.1	44.0	-0.1	12.3	12.1	-0.2	124	123	-1	351[a]	343	- 8	394[a]	429	+35
177215	W.F.	1/29/58	-	43.5	43.4	-0.1	11.8	11.8	0.0	120	120	0	331[a]	309	-22	373[a]	375	+ 2
Current Mill Average				43.4	43.4	0.0	11.9	11.7	-0.2	119	118	-1	316	312	- 4	359	380	+21

[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.

COMPARISON OF INSTITUTE AND MILL DATA--FEBRUARY 1 THROUGH FEBRUARY 28, 1958 (continued)

TABLE XXXVII

MILL M -- 42-LB. LINERBOARD

File No.	Finish	Date Made	Mch. No.	Basis Weight, lb.			Caliper, points			Bursting Strength, p.s.i. gage			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.
176861	F1S	1/22/58	2	42.0	43.2	+1.2	14.0	13.5	-0.5	112	112	0	369[a]	357	-12	387[a]	416	+29
176927	F1S	1/22/58	2	43.1	44.1	+1.0	15.1	14.8	-0.3	111	110	-1	352[a]	373	+21	385[a]	430	+45
176928	F1S	1/25/58	2	42.2	42.7	+0.5	13.8	13.0	-0.8	107	107	0	372[a]	400	+28	353[a]	383	+30
176929	F1S	1/26/58	2	43.8	45.0	+1.2	14.8	14.8	0.0	114	112	-2	320[a]	367	+47	382[a]	438	+56
176930	F1S	1/27/58	2	42.2	43.5	+1.3	13.7	13.8	+0.1	115	114	-1	329[a]	354	+25	375[a]	402	+27
177062	F1S	1/29/58	2	42.5	42.7	+0.2	14.4	13.8	-0.6	110	104	-6	353[a]	373	+20	375[a]	412	+37
177063	F1S	1/30/58	2	41.5	42.3	+0.8	13.9	13.8	-0.1	117	112	-5	336[a]	391	+55	369[a]	411	+42
177064	F1S	1/31/58	2	43.4	44.4	+1.0	14.0	13.9	-0.1	118	120	+2	335[a]	377	+42	387[a]	447	+60
177065	F1S	2/ 1/58	2	42.5	43.0	+0.5	14.0	13.5	-0.5	119	115	-4	368[a]	380	+12	393[a]	424	+31
177095	F1S	2/ 9/58	2	42.8	43.7	+0.9	13.8	13.5	-0.3	119	118	-1	363[a]	354	- 9	387[a]	414	+27
177096	----	2/10/58	2	43.5	43.9	+0.4	13.9	13.7	-0.2	120	118	-2	362[a]	387	+25	376[a]	416	+40
177097	F1S	2/11/58	2	41.9	42.8	+0.9	13.6	12.8	-0.8	120	124	+4	353[a]	361	+ 8	371[a]	399	+28
[illegible]	F1S	2/12/58	2	42.8	43.0	+0.2	14.1	13.8	-0.3	114	114	0	325[a]	356	+31	355[a]	392	+37
[illegible] average				42.6	43.4	+0.8	14.1	13.7	-0.4	115	114	-1	349	372	+23	377	414	+37

[a] 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.

COMPARISON OF INSTITUTE AND MILL DATA--FEBRUARY 1 THROUGH FEBRUARY 28, 1958 (continued)

TABLE XXXVIII

MILL N -- 42-LB. LINERBOARD

File No.	Finish	Date Made	Mch. No.	Basis Weight, lb.			Caliper, points			Bursting Strength, p.s.i. gage			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.
177068	W.F.	2/ 2/58	2	43.8	43.5	-0.3	12.8	12.5	-0.3	110	117	+7	345[a]	380	+35	389[a]	446	+57
177069	W.F.	2/ 3/58	2	43.9	43.8	-0.1	12.8	12.5	-0.3	111	116	+5	374[a]	385	+11	414[a]	441	+27
177221	W.F.	2/14/58	2	43.7	43.6	-0.1	13.0	12.7	-0.3	116	120	+4	356	368	+12	395[a]	415	+20
177222	W.F.	2/15/58	2	43.9	44.1	+0.2	12.9	12.7	-0.2	118	119	+1	342	368	+26	391[a]	425	+34
Current Mill Average				43.8	43.7	-0.1	12.9	12.6	-0.3	114	118	+4	354	375	+21	397	432	+35

TABLE XXXIX

MILL O -- 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.

COMPARISON OF INSTITUTE AND MILL DATA--FEBRUARY 1 THROUGH FEBRUARY 28, 1958 (continued)

TABLE XL

MILL P -- 42-LB. LINERBOARD

File No.	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.	Elmendorf Tear, g./sheet In IPC	In Mill	In Diff.	Across IPC	Across Mill	Across Diff.
176964	W.B.	1/24/58	-	42.2	41.5	-0.7	11.3	11.1	-0.2	109	112	+ 3	351[a]	349	- 2	385	385	0
176965	W.B.	1/26/58	-	43.8	42.8	-1.0	12.7	12.2	-0.5	109	114	+ 5	386[a]	383	- 3	417[a]	451	+34
176966	W.B.	1/27/58	-	43.3	42.5	-0.8	12.1	11.7	-0.4	112	118	+ 6	396[a]	417	+21	417[a]	428	+11
176967	W.B	1/27/58	-	42.7	41.9	-0.8	11.8	11.4	-0.4	109	111	+ 2	377	401	+24	415[a]	428	+13
176968	W.B.	1/27/58	-	43.4	42.6	-0.8	11.9	11.6	-0.3	107	117	+10	369[a]	391	+22	416[a]	444	+28
177226	W.B.	2/ 6/58	-	41.6	41.4	-0.2	11.4	11.1	-0.3	113	110	- 3	355[a]	384	+29	397[a]	419	+22
177227	W.B.	2/11/58	-	42.8	42.2	-0.6	11.9	11.6	-0.3	107	109	+ 2	382[a]	368	-14	386[a]	395	+ 9
177228	W.B	2/12/58	-	42.9	42.8	-0.1	11.8	11.5	-0.3	111	107	- 4	369[a]	384	-15	383[a]	408	+25
177234	W.B.	2/13/58	-	42.6	42.1	-0.5	11.9	11.4	-0.5	108	112	+ 4	360[a]	372	+12	395[a]	392	- 3
177235	W.B.	2/18/58	-	42.4	42.3	-0.1	12.2	11.7	-0.5	111	114	+ 3	353[a]	355	+ 2	408[a]	417	+ 9
Current Mill Average				42.8	42.2	-0.6	11.9	11.5	-0.4	110	112	+ 2	370	380	+10	402	417	+15

[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.

COMPARISON OF INSTITUTE AND MILL DATA--FEBRUARY 1 THROUGH FEBRUARY 28, 1958 (continued)

TABLE XLI

MILL Q -- 42-LB. LINERBOARD

File No.	Finish	Date Made	Mch. No.	Basis Weight, lb.			Caliper, points			Bursting Strength, p.s.i. gage			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.
177050	W.F.	1/27/58	1	43.7	43.2	-0.5	12.4	12.4	0.0	112	111	- 1	328[a]	320	- 8	345[a]	370	+25
177051	W.F	1/27/58	1	44.2	43.4	-0.8	13.0	12.9	-0.1	111	110	- 1	331[a]	358	+27	378[a]	432	+54
177052	W.F	1/27/58	1	44.0	43.2	-0.8	12.7	12.7	0.0	117	111	- 6	335[a]	315	-20	365[a]	374	+ 9
177053	W.F	2/ 2/58	2	44.0	42.7	-1.3	12.1	12.1	0.0	122	115	- 7	321[a]	317	- 4	388[a]	377	-11
177054	W.F	2/ 2/58	2	43.9	42.8	-1.1	12.1	12.0	-0.1	127	116	-11	317[a]	315	- 2	375[a]	393	+18
177218	W.F.	2/12/58	1	44.3	43.5	-0.8	12.7	12.5	-0.2	112	115	+ 3	313[a]	344	+31	355[a]	383	+28
177219	W.F.	2/14/58	2	43.8	43.1	-0.7	12.5	12.2	-0.3	118	120	+ 2	320[a]	326	+ 6	381[a]	375	- 6
Current Mill Average				44.0	43.1	-0.9	12.5	12.4	-0.1	117	11[illegible]	- 3	324	328	+ 4	370	386	+16

[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.

COMPARISON OF INSTITUTE AND MILL DATA--FEBRUARY 1 THROUGH FEBRUARY 28, 1958 (continued)

TABLE XLII

MILL S -- 42-LB. LINERBOARD

File No.	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.	Elmendorf Tear, g./sheet In IPC	Elmendorf Tear, g./sheet In Mill	Elmendorf Tear, g./sheet In Diff.	Elmendorf Tear, g./sheet Across IPC	Elmendorf Tear, g./sheet Across Mill	Elmendorf Tear, g./sheet Across Diff.
176865	WF1S	1/23/58	2	44.3	44.5	+0.2	12.0	11.4	-0.6	118	112	-6	327	340	+13	379[a]	372	- 7
177056	F1S	2/ 2/58	2	43.2	42.9	-0.3	11.1	10.9	-0.2	114	116	+2	311	266	-45	365[a]	323	-42
177089	F1S	2/ 8/58	2	43.3	43.5	+0.2	12.4	12.2	-0.2	117	117	0	355[a]	299	-56	394[a]	402	+ 8
Current Mill Average				43.6	43.6	0.0	11.9	11.5	-0.4	117	115	-2	331	302	-29	379	366	-13

TABLE XLIII

MILL R -- 42-LB. DRUM 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.