



INSTITUTE OF  
PAPER CHEMISTRY  
*Appleton Wisconsin*

# BASE-LINE

(JULY-AUGUST, 1972)

**CONTINUOUS BASE-LINE STUDY (MODIFIED)**  
**(MILL LINERBOARD DATA FOR JULY AND AUGUST, 1972)**

Project 2694-1

Report Thirty-Four

A Progress Report

to

**FOURDRINIER KRAFT BOARD INSTITUTE, INC.**

This material is intended only for the internal use of authorized persons within Fourdrinier Kraft Board Institute member companies

October 27, 1972

BASE-LINE  
JULY-AUGUST, 1972

THE INSTITUTE OF PAPER CHEMISTRY

Appleton, Wisconsin

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THE INSTITUTE OF PAPER CHEMISTRY

Appleton, Wisconsin

CONTINUOUS BASE-LINE STUDY (MODIFIED)  
(MILL LINERBOARD DATA FOR JULY AND AUGUST, 1972)

SUMMARY

PART I: SUMMARY OF MOISTURE CONTENT DATA  
(MAY-AUGUST, 1972)

Linerboard Grade Wt.		Moisture Content			
		May	June	July	August
26 Lb.	Max. <sup>a</sup>	6.5	6.0	6.2	6.2
	Min. <sup>a</sup>	3.1	1.0	0.6	0.6
	Av. <sup>b</sup>	4.6 (19)	4.6 (19)	4.5 (21)	4.4 (18)
33 Lb.	Max. <sup>a</sup>	6.5	6.4	6.1	6.2
	Min. <sup>a</sup>	2.9	3.2	3.0	3.1
	Av. <sup>b</sup>	4.6 (29)	4.6 (23)	4.6 (25)	4.5 (24)
38 Lb.	Max. <sup>a</sup>	6.3	6.1	6.8	6.4
	Min. <sup>a</sup>	3.3	3.2	3.5	3.5
	Av. <sup>b</sup>	4.8 (25)	4.9 (23)	5.0 (25)	4.9 (23)
42 Lb.	Max. <sup>a</sup>	6.9	6.7	6.9	6.8
	Min. <sup>a</sup>	3.6	3.9	3.9	3.4
	Av. <sup>b</sup>	5.3 (35)	5.4 (37)	5.3 (40)	5.3 (36)
69 Lb.	Max. <sup>a</sup>	7.6	7.6	7.5	7.5
	Min. <sup>a</sup>	3.9	4.9	4.2	4.1
	Av. <sup>b</sup>	5.9 (30)	6.0 (28)	5.9 (31)	5.9 (30)
90 Lb.	Max. <sup>a</sup>	8.4	7.9	8.1	8.5
	Min. <sup>a</sup>	5.0	3.9	4.3	4.1
	Av. <sup>b</sup>	6.2 (19)	6.0 (21)	6.2 (17)	6.2 (17)

<sup>a</sup>Current machine average.

<sup>b</sup>Current F.K.I. average, number of machines is indicated in parentheses.

PART II: SUMMARY OF ADJUSTED BASIS WEIGHT DATA  
(MAY-AUGUST, 1972)

Linerboard Grade Wt.		Adjusted Basis Weight, lb./M ft. <sup>2</sup>			
		May	June	July	August
26 Lb.	Max. <sup>a</sup>	28.0	27.4	27.4	27.5
	Min. <sup>a</sup>	25.9	26.2	26.0	26.2
	Av. <sup>b</sup>	26.9 (19)	26.8 (20)	26.8 (22)	26.8 (19)
33 Lb.	Max. <sup>a</sup>	34.5	34.0	34.8	34.7
	Min. <sup>a</sup>	32.8	32.3	32.7	33.0
	Av. <sup>b</sup>	33.6 (30)	33.5 (25)	33.6 (27)	33.7 (26)
38 Lb.	Max. <sup>a</sup>	40.2	39.8	40.2	39.9
	Min. <sup>a</sup>	37.3	37.8	37.7	37.9
	Av. <sup>b</sup>	38.7 (25)	38.6 (24)	38.7 (25)	38.8 (23)
42 Lb.	Max. <sup>a</sup>	43.8	43.7	43.7	44.2
	Min. <sup>a</sup>	41.8	41.7	41.9	42.0
	Av. <sup>b</sup>	42.6 (37)	42.6 (39)	42.6 (42)	42.7 (38)
69 Lb.	Max. <sup>a</sup>	71.0	70.9	71.1	70.9
	Min. <sup>a</sup>	68.7	68.6	68.8	68.7
	Av. <sup>b</sup>	69.8 (32)	69.8 (29)	69.7 (33)	69.7 (32)
90 Lb.	Max. <sup>a</sup>	92.1	92.2	91.8	92.0
	Min. <sup>a</sup>	88.8	89.3	89.5	89.0
	Av. <sup>b</sup>	90.9 (20)	90.8 (22)	90.5 (18)	90.6 (19)

<sup>a</sup> Current machine average.

<sup>b</sup> Current F.K.I. average, number of machines is indicated in parentheses.

PART III: SUMMARY OF CALIPER DATA  
 (MAY-AUGUST, 1972)

Linerboard Grade Wt.		Caliper, pt.			
		May	June	July	August
26 Lb.	Max. <sup>a</sup>	9.1	9.3	9.3	9.3
	Min. <sup>a</sup>	6.9	7.1	6.8	7.1
	Av. <sup>b</sup>	7.9 (19)	7.9 (19)	7.9 (21)	7.9 (18)
33 Lb.	Max. <sup>a</sup>	10.5	10.6	10.8	10.9
	Min. <sup>a</sup>	8.5	8.9	8.3	8.6
	Av. <sup>b</sup>	9.7 (29)	9.7 (23)	9.8 (26)	9.7 (24)
38 Lb.	Max. <sup>a</sup>	11.8	11.6	11.8	12.0
	Min. <sup>a</sup>	9.6	9.8	9.5	10.0
	Av. <sup>b</sup>	10.7 (25)	10.7 (23)	10.9 (25)	10.9 (22)
42 Lb.	Max. <sup>a</sup>	13.2	13.2	13.4	13.3
	Min. <sup>a</sup>	10.9	10.8	10.8	10.7
	Av. <sup>b</sup>	11.9 (36)	11.9 (38)	12.0 (41)	12.0 (37)
69 Lb.	Max. <sup>a</sup>	21.7	22.0	21.4	22.1
	Min. <sup>a</sup>	17.7	17.9	17.6	17.8
	Av. <sup>b</sup>	19.5 (31)	19.6 (28)	19.4 (32)	19.8 (31)
90 Lb.	Max. <sup>a</sup>	27.6	27.8	27.6	26.9
	Min. <sup>a</sup>	22.8	22.8	23.5	23.5
	Av. <sup>b</sup>	25.5 (20)	25.3 (21)	25.3 (17)	25.6 (19)

<sup>a</sup>Current machine average.

<sup>b</sup>Current F.K.I. average, number of machines is indicated in parentheses.

PART IV: SUMMARY OF BURSTING STRENGTH DATA  
(MAY-AUGUST, 1972)

Linerboard Grade Wt.		Bursting Strength, p.s.i.g.			
		May	June	July	August
26 Lb.	Max. <sup>a</sup>	86	84	89	92
	Min. <sup>a</sup>	64	63	64	65
	Av. <sup>b</sup>	73 (20)	72 (20)	72 (22)	73 (19)
33 Lb.	Max. <sup>a</sup>	104	99	106	99
	Min. <sup>a</sup>	78	80	79	78
	Av. <sup>b</sup>	88 (31)	87 (27)	88 (27)	88 (26)
38 Lb.	Max. <sup>a</sup>	111	116	123	117
	Min. <sup>a</sup>	91	91	93	91
	Av. <sup>b</sup>	101 (26)	99 (24)	99 (26)	100 (23)
42 Lb.	Max. <sup>a</sup>	123	121	122	119
	Min. <sup>a</sup>	101	102	102	101
	Av. <sup>b</sup>	108 (37)	108 (39)	108 (42)	107 (38)
69 Lb.	Max. <sup>a</sup>	160	160	158	164
	Min. <sup>a</sup>	136	136	135	133
	Av. <sup>b</sup>	145 (32)	145 (29)	144 (33)	144 (32)
90 Lb.	Max. <sup>a</sup>	186	198	197	189
	Min. <sup>a</sup>	162	163	161	161
	Av. <sup>b</sup>	174 (20)	174 (22)	174 (18)	174 (19)

<sup>a</sup>Current machine average.

<sup>b</sup>Current F.K.I. average, number of machines is indicated in parentheses.

## INTRODUCTION

The continuous base-line study (modified) is a compilation of monthly averages of mill test data obtained routinely on six major grade weights of linerboard manufactured in the member mills of F.K.B.I., Inc. Mill data are included for moisture content, basis weight, caliper, and bursting strength tests made on the production of individual machines which produced at least 500 tons of one or more of the following six major grade weights during a given month: 26, 33, 38, 42, 69, and 90 lb. At the Institute, the as-reported basis weight, corresponding to the as-reported moisture content, is adjusted to a moisture content of 7.8%. Both the as-reported and the adjusted basis weight averages are included in the report.

## PRESENTATION OF DATA

For the six major grade weights of linerboard referred to earlier, mill test averages for moisture content, basis weight (reported and adjusted), caliper, and bursting strength are compiled in the following tables.

Table Number	Description
I - II	Mill Test Averages on 26-lb. Linerboard
III - IV	Mill Test Averages on 33-lb. Linerboard
V - VI	Mill Test Averages on 38-lb. Linerboard
VII - VIII	Mill Test Averages on 42-lb. Linerboard
IX - X	Mill Test Averages on 69-lb. Linerboard
XI - XII	Mill Test Averages on 90-lb. Linerboard

TABLE I  
AVERAGES OF ROUTINE MILL QUALITY CONTROL DATA FOR 26 LB. FOURDRINIER KRAFT LINERBOARD  
JULY, 1972

CODE	MOISTURE CONTENT, PERCENT				BASIS WT., LB./ M SQ. FT.				ADJ. BASIS WT.,*A LB./ M SQ. FT.				CALIPER, PT.				BURSTING STRENGTH, P.S.I.G.			
	MACHINE DATA				MACHINE DATA				MACHINE DATA				MACHINE DATA				MACHINE DATA			
	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C
B1	3.4	4.0	85.0	77.3	26.1	26.6	98.1	100.4	26.2	26.7	98.1	97.8	8.2	8.2	100.0	103.8	80	80	100.0	109.6
D1	4.2	4.0	105.0	95.4	26.0	26.0	100.0	100.0	27.0	27.1	99.6	100.7	7.5	7.8	96.2	94.9	72	72	100.0	98.6
F1	3.9	3.4	114.7	88.6	25.0	25.0	100.0	96.2	26.0	26.2	99.2	97.0	7.2	7.6	94.7	91.1	81	78	103.8	111.0
G1	3.1	3.4	91.2	70.4	25.4	25.4	100.0	97.7	26.7	26.6	100.4	99.6	6.8	6.9	98.6	86.1	71	70	101.4	97.3
H1	3.1			70.4	25.4			97.7	26.7			99.6		7.4		93.7		73		100.0
K1	5.9	6.1	96.7	134.1	25.8	25.6	100.8	99.2	26.3	26.1	100.8	98.1	7.6	7.5	101.3	96.2	70	70	100.0	95.9
L1	3.7	3.6	102.8	84.1	25.4	25.9	98.1	97.7	26.5	27.0	98.1	98.9	7.2	7.4	97.3	91.1	65	66	98.5	89.0
N1	5.5	5.4	101.8	125.0	26.4	26.7	98.9	101.5	27.1	26.8	101.1	101.1	8.5	8.7	97.7	107.6	77	68	113.2	105.5
P1	3.2	3.3	97.0	72.7	26.1	26.2	99.6	100.4	27.4	27.5	99.6	102.2	8.6	8.6	100.0	108.9	72	69	104.3	98.6
Q1		5.0				26.4				27.2				8.0				74		
T1		5.7			26.0	26.9	96.6	100.0	26.4	27.0	97.8	98.5	7.9	7.3	108.2	100.0	74	74	100.0	101.4
U1		3.6				25.4				26.6				6.8				72		
V1		2.3				26.3				27.9				8.5				68		
W1	5.1	4.8	106.2	115.9	25.6	25.7	99.6	98.5	26.3	26.6	98.9	98.1	8.7	8.4	103.6	110.1	69	68	101.5	94.5
X1	4.8	4.4	109.1	109.1	26.0	26.2	99.2	100.0	26.8	27.1	98.9	100.0	7.8	8.0	97.5	98.7	89	84	106.0	121.9
Y1		4.6				26.0				27.0				8.5				76		
A2	6.2	5.7	108.8	140.9	26.7	26.4	101.1	102.7	26.8	26.5	101.1	100.0		0.0			68	69	98.6	93.2
D2	5.4	5.3	101.9	122.7	27.0	26.8	100.7	103.8	27.4	27.2	100.7	102.2	7.3	7.2	101.4	92.4	66	64	103.1	90.4
E2	5.9	5.8	101.7	134.1	26.0	26.0	100.0	100.0	26.5	26.6	99.6	98.9	8.2	8.3	98.8	103.8	82	78	105.1	112.3
G2		3.9				26.7				27.4				7.8				76		
J2		4.8				26.5				26.9				7.5				67		
L2	4.8	4.3	111.6	109.1	25.9	25.8	100.4	99.6	26.8	26.8	100.0	100.0	7.4	7.4	100.0	93.7	70	71	98.6	95.9
N2		3.8				26.4				26.6				7.8				81		
O2		2.2				25.1				26.6				7.7				80		
P2	5.5	5.7	96.5	125.0	26.4	26.1	101.1	101.5	27.1	26.8	101.1	101.1	9.3	8.9	104.5	117.7	70	73	95.9	95.9
Q2		4.8				26.0				26.8				8.5				70		
S2		4.0				26.4				26.5				6.9				77		
T2	5.0	4.8	104.2	113.6	26.0	26.1	99.6	100.0	26.8	26.9	99.6	100.0	7.8	7.6	102.6	98.7	68	69	98.6	93.2
U2	4.3	4.2	102.4	97.7	25.4	25.4	100.0	97.7	26.4	26.4	100.0	98.5	7.4	7.2	102.8	93.7	70	73	95.9	95.9
V2		6.3				26.1				26.4				8.0				65		
W2	0.6	3.2	18.8	13.6	25.4	26.8	94.8	97.7	27.4	28.1	97.5	102.2	8.3	8.2	101.2	105.1	64	72	88.9	87.7
X2	5.7	5.5	103.6	129.5	26.3	26.3	100.0	101.2	26.9	27.0	99.6	100.4	8.6	8.2	104.9	108.9	65	67	97.0	89.0
A3	4.4	4.3	102.3	100.0	26.0	26.2	99.2	100.0	27.0	27.2	99.3	100.7	8.0	8.2	97.6	101.3	75	78	96.2	102.7
B3		4.8				25.9				26.7				8.2				77		
FKI DATA																				
CUR.																				
AV.	4.5				25.9				26.8				7.9				72			
CUM.																				
AV.	4.4				26.0				26.8				7.9				73			
IND.																				
*D	102.3				99.6			100.0					100.0				98.6			

NOTE- NOTES A, B, C, AND D, ARE GIVEN IN APPENDIX.

TABLE II  
 AVERAGES OF ROUTINE MILL QUALITY CONTROL DATA FOR 26 LB. FOURDRINIER KRAFT LINERBOARD  
 AUGUST, 1972

CODE	MOISTURE CONTENT, PERCENT				BASIS WT., LB./ M SQ. FT.				ADJ. BASIS WT.,*A LB./ M SQ. FT.				CALIPER, PT.				BURSTING STRENGTH, P.S.I.G.			
	MACHINE DATA				MACHINE DATA				MACHINE DATA				MACHINE DATA				MACHINE DATA			
	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C
B1		3.9				26.5				26.6				8.2				80		
D1	4.3	4.0	107.5	97.7	26.0	26.0	100.0	100.0	27.0	27.1	99.6	100.7	7.5	7.8	96.2	94.9	71	72	98.6	97.3
F1	4.0	3.5	114.3	90.9	25.2	25.0	100.8	96.9	26.2	26.2	100.0	97.8	7.9	7.6	103.9	100.0	80	79	101.3	109.6
G1		3.4				25.4				26.6				6.8				70		
H1	3.2	3.1	103.2	72.7	25.2	25.4	99.2	96.9	26.5	26.7	99.2	98.9	7.5	7.4	101.4	94.9	74	73	101.4	101.4
K1	5.6	6.1	91.8	127.3	25.7	25.6	100.4	98.8	26.3	26.1	100.8	98.1	7.4	7.5	98.7	93.7	69	70	98.6	94.5
L1	3.3	3.6	91.7	75.0	25.6	25.8	99.2	98.5	26.8	27.0	99.2	100.0	7.1	7.4	95.9	89.9	71	66	107.6	97.3
N1	5.7	5.4	105.6	129.5	26.2	26.6	98.5	100.8	26.8	27.0	99.2	100.0	8.1	8.6	94.2	102.5	75	72	104.2	102.7
P1	3.1	3.3	93.9	70.4	26.0	26.2	99.2	100.0	27.3	27.5	99.3	101.9	8.8	8.6	102.3	111.4	74	70	105.7	101.4
Q1		5.0				26.4				27.2				8.0				74		
T1		5.7			26.0	26.8	97.0	100.0	26.4	26.9	98.1	98.5	8.2	7.4	110.8	103.8	73	74	98.6	100.0
U1		3.6				25.4				26.6				6.8				72		
V1		2.1				26.0				27.5				8.0				69		
W1		4.9				25.7				26.5				8.5				68		
X1	4.7	4.2	111.9	106.8	26.1	26.1	100.0	100.4	27.0	27.1	99.6	100.7	7.9	8.0	98.8	100.0	92	85	108.2	126.0
Y1		4.7				26.0				26.8				8.6				77		
A2	6.2	5.7	108.8	140.9	26.4	26.4	100.0	101.5	26.5	26.5	100.0	98.9					69	69	100.0	94.5
D2		5.4				26.9				27.3				7.2				65		
E2	5.8	5.8	100.0	131.8	26.1	26.0	100.4	100.4	26.7	26.6	100.4	99.6	8.0	8.3	96.4	101.3	79	79	100.0	108.2
G2		3.9				26.7				27.4				7.8				76		
J2		4.8				26.5				26.9				7.5				67		
L2	4.5	4.4	102.3	102.3	25.9	25.8	100.4	99.6	26.8	26.7	100.4	100.0	7.3	7.4	98.6	92.4	77	71	108.4	105.5
N2		3.7				26.4				26.6				7.9				80		
O2		2.2				25.1				26.6				7.7				80		
P2	5.8	5.7	101.8	131.8	26.2	26.2	100.0	100.8	26.8	26.8	100.0	100.0	9.3	9.0	103.3	117.7	69	72	95.8	94.5
Q2	4.8	4.8	100.0	109.1	26.4	26.0	101.5	101.5	27.3	26.8	101.9	101.9	8.9	8.5	104.7	112.6	68	70	97.1	93.2
S2		4.0				26.4				26.5				6.9				77		
T2	5.2	4.8	108.3	118.2	26.0	26.1	99.6	100.0	26.7	26.9	99.3	99.6	7.8	7.6	102.6	98.7	67	69	97.1	91.8
U2	4.0	4.2	95.2	90.9	25.3	25.4	99.6	97.3	26.3	26.4	99.6	98.1	7.5	7.2	104.2	94.9	70	73	95.9	95.9
V2		6.3				26.2				26.5				8.0				65		
W2	0.6	2.6	23.1	13.6	24.8	26.5	93.6	95.4	26.7	28.0	95.4	99.6	7.8	8.3	94.0	98.7	65	70	92.8	89.0
X2	5.5	5.5	100.0	125.0	26.8	26.3	101.9	103.1	27.5	26.9	102.2	102.6	8.2	8.2	100.0	103.8	69	66	104.5	94.5
A3	4.2	4.3	97.7	95.4	26.0	26.2	99.2	100.0	27.0	27.2	99.3	100.7	7.2	8.2	87.8	91.1	75	78	96.2	102.7
B3		4.7				25.9				26.8				8.3				76		
FKI DATA																				
CUR.																				
AV. 4.4																				
CUM.																				
AV. 4.4																				
IND.																				
*D 100.0																				

NOTE- NOTES A, B, C, AND D, ARE GIVEN IN APPENDIX.

TABLE III  
AVERAGES OF ROUTINE MILL QUALITY CONTROL DATA FOR 33 LB. FOURDRINIER KRAFT LINERBOARD

CODE	MOISTURE CONTENT, PERCENT				BASIS WT., LB./ M SQ. FT.				ADJ. BASIS WT.,*A LB./ M SQ. FT.				CALIPER, PT.				BURSTING STRENGTH, P.S.I.G.				
	MACHINE DATA				MACHINE DATA				MACHINE DATA				MACHINE DATA				MACHINE DATA				
	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	
B1	3.6	4.0	90.0	76.6	33.2	33.3	99.7	101.2	33.4	33.5	99.7	99.1	10.0	10.1	99.0	103.1	89	93	95.7	102.3	
D1	4.7	4.7	100.0	100.0	32.8	32.9	99.7	100.0	33.9	34.0	99.7	100.6	9.4	9.4	100.0	96.9	85	87	97.7	97.7	
E1		5.3				33.4				33.5				9.5				87			
F1	4.1	3.8	107.9	87.2	31.8	31.9	99.7	97.0	33.1	33.3	99.4	98.2	9.2	8.7	105.7	94.8	99	96	103.1	113.8	
G1	3.0	3.3	90.9	63.8	32.0	32.1	99.7	97.6	33.7	33.7	100.0	100.0	8.7	8.8	98.9	89.7	84	87	96.6	96.6	
H1	3.3	3.2	103.1	70.2	32.1	31.6	101.6	97.9	33.7	33.2	101.5	100.0	9.9	10.0	99.0	102.1	82	84	97.6	94.2	
J1	4.2	4.2	100.0	89.4	33.5	33.5	100.0	102.1	33.8	33.8	100.0	100.3	9.5	9.5	100.0	97.9	79	84	94.0	90.8	
K1	5.7	6.1	93.4	121.3	32.0	32.1	99.7	97.6	32.7	32.7	100.0	97.0	9.6	9.4	102.1	99.0	80	82	97.6	92.0	
L1	3.4	3.6	94.4	72.3	32.2	32.7	98.5	98.2	33.7	34.1	98.8	100.0	9.0	9.8	91.8	92.8	86	80	107.5	98.8	
M1		4.8				32.5				33.6				10.1				89			
N1		4.8				33.4				33.6				10.2				92			
P1	3.7	4.3	86.0	78.7	32.3	32.4	99.7	98.5	33.7	33.6	100.3	100.0	10.2	10.7	95.3	105.2	82	81	101.2	94.2	
Q1	6.1	6.1	100.0	129.8	33.2	33.2	100.0	101.2	33.8	33.8	100.0	100.3	10.5	10.0	105.0	108.2	84	86	97.7	96.6	
S1		3.6				32.8				34.3				8.9				96			
T1		4.8			33.3	33.7	98.8	101.5	33.6	34.0	98.8	99.7	10.0	9.2	108.7	103.1	89	89	100.0	102.3	
U1		4.5				32.1				33.2				8.4				87			
V1		5.0				33.0				34.0				9.9				82			
W1	5.1	5.3	96.2	108.5	32.0	32.6	98.2	97.6	32.9	33.4	98.5	97.6	10.5	10.0	105.0	108.2	85	84	101.2	97.7	
X1	5.1	4.6	110.9	108.5	33.0	33.0	100.0	100.6	34.0	34.2	99.4	100.9	9.7	9.6	101.0	100.0	106	98	108.2	121.8	
Y1		4.7				32.7				33.8				10.4				88			
A2		5.7				32.9				33.0				0.0				79			
B2		5.0				33.2				34.2				8.9				94			
E2		6.4				33.1				33.6				10.4				92			
F2	5.2			110.6	32.0			97.6	32.9			97.6	8.3			85.6	87			100.0	
G2	4.7	4.7	100.0	100.0	33.4	33.5	99.7	101.8	33.5	34.1	98.2	99.4	9.7	9.8	99.0	100.0	93	90	103.3	106.9	
J2		4.8				33.3				33.8				9.6				82			
L2	4.8	4.2	114.3	102.1	32.7	32.6	100.3	99.7	33.8	33.9	99.7	100.3	9.6	9.5	101.0	99.0	88	84	104.8	101.1	
M2		4.7				33.2	33.6	98.8	101.2	33.6	33.9	99.1	99.7	9.4	9.4	100.0	96.9	88	88	100.0	101.1
N2	4.1	4.0	102.5	87.2	33.4	33.4	100.0	101.8	33.7	33.6	100.3	100.0	10.2	9.6	106.2	105.2	93	92	101.1	106.9	
O2	3.5	3.0	116.7	74.5	32.1	31.5	101.9	97.9	33.6	33.2	101.2	99.7	10.3	9.3	110.8	106.2	93	91	102.2	106.9	
P2	5.6	6.2	90.3	119.1	33.0	32.8	100.6	100.6	33.8	33.4	101.2	100.3	10.5	10.5	100.0	108.2	91	86	105.8	104.6	
Q2	5.0	4.8	104.2	106.4	33.1	32.8	100.9	100.9	34.1	33.8	100.9	101.2	10.8	10.3	104.8	111.3	84	84	100.0	96.6	
R2	5.7	5.8	98.3	121.3	33.1	33.3	99.4	100.9	33.2	33.4	99.4	98.5					89	89	100.0	102.3	
S2	4.7	4.1	114.6	100.0	33.7	33.0	102.1	102.7	34.8	33.1	105.1	103.3	9.6	8.9	107.9	99.0	93	88	105.7	106.9	
T2	4.8	5.0	96.0	102.1	32.5	32.7	99.4	99.1	33.6	33.6	100.0	99.7	9.7	9.7	100.0	100.0	84	84	100.0	96.6	
U2		4.5				32.4				33.6				9.2				87			
V2		5.8				32.9				33.3				10.0				84			
W2	3.4	3.9	87.2	72.3	32.8	33.3	98.5	100.0	34.4	34.7	99.1	102.1	10.2	10.3	99.0	105.2	83	88	94.3	95.4	
X2	6.0	5.7	105.3	127.6	33.3	33.5	99.4	101.5	33.9	34.2	99.1	100.6	10.4	10.2	102.0	107.2	81	81	100.0	93.1	
Y2	4.7	4.8	97.9	100.0	33.2	32.5	102.2	101.2	33.3	33.4	99.7	98.8	10.1	10.0	101.0	104.1	96	91	105.5	110.3	
A3		4.8				33.0				34.1				9.9				91			
B3		5.1				32.3				33.3				9.4				95			

FKI DATA

CUR. AV.	4.6	32.8	33.6	9.8	88
CUM. AV.	4.7	32.8	33.7	9.7	87
IND. *D	97.9	100.0	99.7	101.0	101.1

NOTE- NOTES A, B, C, AND D, ARE GIVEN IN APPENDIX.

TABLE IV  
AVERAGES OF ROUTINE MILL QUALITY CONTROL DATA FOR 33 LB. FOURDRINIER KRAFT LINERBOARD

AUGUST, 1972

CODE	MOISTURE CONTENT, PERCENT				BASIS WT., LB./ M SQ. FT.				ADJ. BASIS WT.,*A LB./ M SQ. FT.				CALIPER, PT.				BURSTING STRENGTH, P.S.I.G.			
	MACHINE DATA				MACHINE DATA				MACHINE DATA				MACHINE DATA				MACHINE DATA			
	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C
B1	4.2	3.9	107.7	89.4	33.6	33.3	100.9	102.4	33.8	33.5	100.9	100.6	10.0	10.2	98.0	103.1	95	92	103.3	109.2
D1	4.7	4.7	100.0	100.0	33.0	32.9	100.3	100.6	34.1	34.0	100.3	101.5	9.2	9.4	97.9	94.8	84	86	97.7	96.6
E1		5.3				33.4				33.5				9.4				86		
F1	4.2	3.8	110.5	89.4	31.8	31.9	99.7	97.0	33.0	33.3	99.1	98.2	8.9	8.8	101.1	91.8	99	96	103.1	113.8
G1	3.1	3.3	93.9	66.0	32.0	32.1	99.7	97.6	33.6	33.7	99.7	100.0	8.6	8.8	97.7	88.6	84	87	96.6	96.6
H1	3.2	3.3	97.0	68.1	31.9	31.7	100.6	97.2	33.5	33.3	100.6	99.7	9.4	10.0	94.0	96.9	88	83	106.0	101.1
J1	4.1	4.2	97.6	87.2	33.6	33.4	100.6	102.4	33.9	33.7	100.6	100.9	9.6	9.5	101.0	99.0	78	83	94.0	89.6
K1	5.3	6.0	88.3	112.8	32.3	32.1	100.6	98.5	33.2	32.7	101.5	98.8	9.0	9.4	95.7	92.8	85	82	103.6	97.7
L1		3.6				32.6				34.1				9.7				81		
M1		4.8				32.5				33.6				10.1				89		
N1		4.8				33.4				33.6				10.2				92		
P1	3.7	4.2	88.1	78.7	32.3	32.3	100.0	98.5	33.7	33.6	100.3	100.3	10.9	10.7	101.9	112.4	84	82	102.4	96.6
Q1	6.2	6.1	101.6	131.9	33.3	33.2	100.3	101.5	33.9	33.8	100.3	100.9	10.1	10.0	101.0	104.1	89	86	103.5	102.3
T1		4.8			33.3	33.6	99.1	101.5	33.6	33.8	99.4	100.0	10.5	9.3	112.9	108.2	86	89	96.6	98.8
U1		4.2				32.1				33.4				8.6				89		
V1	4.2	5.0	84.0	89.4	32.8	33.0	99.4	100.0	34.1	34.0	100.3	101.5	9.7	9.9	98.0	100.0	80	82	97.6	92.0
W1		5.3				32.5				33.3				10.1				84		
X1	5.3	4.5	117.8	112.8	32.9	33.0	99.7	100.3	33.8	34.2	98.8	100.6	9.6	9.6	100.0	99.0	99	100	99.0	113.8
Y1		4.8				32.8				33.9				10.4				87		
A2	6.1	5.7	107.0	129.8	33.0	32.9	100.3	100.6	33.1	33.0	100.3	98.5					84	79	106.3	96.6
E2		6.4				33.1				33.6				10.4				93		
F2		5.2				32.0				32.9				8.3				87		
G2	4.6	4.7	97.9	97.9	33.5	33.5	100.0	102.1	33.6	34.1	98.5	100.0	9.7	9.8	99.0	100.0	98	90	108.9	112.6
J2		4.8				33.3				33.8				9.6				82		
L2	4.3	4.3	100.0	91.5	32.7	32.7	100.0	99.7	33.9	33.9	100.0	100.9	9.5	9.5	100.0	97.9	86	84	102.4	98.8
M2		4.7			33.2	33.6	98.8	101.2	33.6	33.8	99.4	100.0	9.1	9.4	96.8	93.8	88	88	100.0	101.1
N2	4.4	4.0	110.0	93.6	33.3	33.4	99.7	101.5	33.6	33.7	99.7	100.0	10.5	9.7	108.2	108.2	91	92	98.9	104.6
O2	3.1	3.0	103.3	66.0	31.7	31.6	100.3	96.6	33.3	33.2	100.3	99.1	9.3	9.5	97.9	95.9	90	92	97.8	103.4
P2		5.9				32.9				33.6				10.5				88		
Q2	4.7	4.8	97.9	100.0	33.3	32.8	101.5	101.5	34.4	33.9	101.5	102.4	10.6	10.4	101.9	109.3	85	84	101.2	97.7
R2	5.6	5.7	98.2	119.1	33.2	33.3	99.7	101.2	33.3	33.4	99.7	99.1					87	89	97.8	100.0
S2	4.3	4.4	97.7	91.5	33.4	33.4	100.0	101.8	34.7	34.0	102.0	103.3	8.8	9.2	95.6	90.7	94	90	104.4	108.0
T2	4.9	5.0	98.0	104.3	32.6	32.6	100.0	99.4	33.6	33.6	100.0	100.0	9.9	9.7	102.1	102.1	83	84	98.8	95.4
U2	4.0	4.5	88.9	85.1	32.3	32.4	99.7	98.5	33.6	33.6	100.0	100.0	9.4	9.2	102.2	96.9	85	87	97.7	97.7
V2		5.8				33.0				33.4				10.1				84		
W2	3.3	3.9	84.6	70.2	32.2	33.2	97.0	98.2	33.8	34.6	97.7	100.6	10.3	10.2	101.0	106.2	88	87	101.1	101.1
X2	5.5	5.8	94.8	117.0	33.5	33.4	100.3	102.1	34.3	34.1	100.6	102.1	10.4	10.1	103.0	107.2	81	81	100.0	93.1
Y2	4.4	4.8	91.7	93.6	33.2	32.6	101.8	101.2	33.3	33.4	99.7	99.1	10.2	10.0	102.0	105.2	88	91	96.7	101.1
A3		4.8				33.0				34.1				9.9				91		
B3		5.1				32.3				33.3				9.4				95		

FKI DATA

CUR. AV.	4.4		32.8		33.7		9.7		88
CUM. AV.	4.7		32.8		33.6		9.7		87
IND. *D	93.6		100.0		100.3		100.0		101.1

NOTE- NOTES A, B, C, AND D, ARE GIVEN IN APPENDIX.

TABLE V  
AVERAGES OF ROUTINE MILL QUALITY CONTROL DATA FOR 38 LB. FOURDRINIER KRAFT LINERBOARD  
JULY, 1972

CODE	MOISTURE CONTENT, PERCENT				BASIS WT., LB./ M SQ. FT.				ADJ. BASIS WT.,*A LB./ M SQ. FT.				CALIPER, PT.				BURSTING STRENGTH, P.S.I.G.				
	MACHINE DATA				MACHINE DATA				MACHINE DATA				MACHINE DATA				MACHINE DATA				
	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	
B1	3.9	4.0	97.5	78.0	38.1	38.4	99.2	100.8	38.3	38.6	99.2	98.7	10.8	11.2	96.4	100.0	102	102	100.0	103.0	
C1		4.6				37.9				39.3				10.5			100				
D1	5.7	5.5	103.6	114.0	38.0	38.0	100.0	100.5	38.9	39.0	99.7	100.2	10.7	10.6	100.9	99.1	99	99	100.0	100.0	
E1	5.3	5.3	100.0	106.0	38.5	38.6	99.7	101.8	38.5	38.7	99.5	99.2	10.6	11.1	95.5	98.1	100	96	104.2	101.0	
F1	4.2	4.0	105.0	84.0	36.7	36.9	99.4	97.1	38.1	38.4	99.2	98.2	10.2	10.0	102.0	94.4	108	106	101.9	109.1	
G1	3.6	4.1	87.8	72.0	36.8	37.2	98.9	97.4	38.5	38.7	99.5	99.2	10.1	10.2	99.0	93.5	99	98	101.0	100.0	
H1	3.9	4.4	88.6	78.0	37.5	37.5	100.0	99.2	39.1	38.9	100.5	100.8	11.6	11.6	100.0	107.4	95	95	100.0	96.0	
I1		5.7				37.4				38.3				10.4			107				
J1		3.8				38.3				38.6				11.0			92				
L1	4.7	5.2	90.4	94.0	38.0	37.9	100.3	100.5	39.3	39.0	100.8	101.3	10.8	10.8	100.0	100.0	93	91	102.2	93.9	
M1		4.1				37.0				38.6				11.8			96				
O1	5.1	5.3	96.2	102.0	39.1	39.1	100.0	103.4	40.2	40.2	100.0	103.6	11.3	10.4	108.6	104.6	99	101	98.0	100.0	
P1	4.9	5.4	90.7	98.0	37.3	37.5	99.5	98.7	38.5	38.5	100.0	99.2	11.6	12.0	96.7	107.4	94	94	100.0	94.9	
Q1	6.8	6.4	106.2	136.0	38.0	38.2	99.5	100.5	38.4	38.7	99.2	99.0	11.3	11.4	99.1	104.6	96	94	102.1	97.0	
R1		5.1				37.4				38.5				11.1			106				
S1	5.5	5.4	101.8	110.0	37.9	37.9	100.0	100.3	38.8	38.9	99.7	100.0	11.8	11.3	104.4	109.2	95	100	95.0	96.0	
T1		0.0				38.4				38.7				10.3			100				
U1		5.6				37.3				38.2				9.8			101				
W1		5.0				37.4				38.5				11.4			95				
X1	5.8	5.2	111.5	116.0	38.0	38.2	99.5	100.5	38.8	39.3	98.7	100.0	10.0	10.1	99.0	92.6	123	111	110.8	124.2	
Y1	5.2	4.8	108.3	104.0	38.1	37.5	101.6	100.8	39.2	38.7	101.3	101.0	10.8	10.8	100.0	100.0	97	98	99.0	98.0	
Z1	5.5	5.0	110.0	110.0	38.4	38.5	99.7	101.6	39.4	39.7	99.2	101.5	10.2	10.3	99.0	94.4	94	95	98.9	94.9	
B2		5.3				38.0				39.0				10.7			98				
F2	6.0		120.0		37.0	0.0		97.9	37.7			97.2	9.5		88.0		99			100.0	
G2		4.3				38.5				39.5				10.7			102				
I2		4.3				37.8				39.2				10.3			109				
L2	4.9	4.4	111.4	98.0	37.6	37.5	100.3	99.5	38.8	38.9	99.7	100.0	11.3	11.1	101.8	104.6	97	94	103.2	98.0	
M2		4.7				38.7				39.0				10.9	10.9	100.0	100.9	101	99	102.0	102.0
N2	4.7	4.7	100.0	94.0	38.3	38.4	99.7	101.3	38.6	38.7	99.7	99.5	11.7	11.4	102.6	108.3	99	99	100.0	100.0	
O2	3.5	3.3	106.1	70.0	36.5	36.5	100.0	96.6	38.2	38.3	99.7	98.4	11.4	10.9	104.6	105.6	97	98	99.0	98.0	
R2	5.7	5.7	100.0	114.0	38.2	38.1	100.3	101.0	38.3	38.2	100.3	98.7					96	99	97.0	97.0	
S2	4.6	4.4	104.5	92.0	38.4	37.8	101.6	101.6	39.7	37.8	105.0	102.3	11.6	10.0	116.0	107.4	102	103	99.0	103.0	
T2	4.3	4.7	91.5	86.0	37.2	37.6	98.9	98.4	38.6	38.8	99.5	99.5	11.3	11.2	100.9	104.6	94	93	101.1	94.9	
V2	5.9	6.0	98.3	118.0	38.2	38.1	100.3	101.0	38.3	38.6	99.2	98.7	10.4	10.9	95.4	96.3	93	97	95.9	93.9	
Y2	4.9	5.1	96.1	98.0	38.3	37.4	102.4	101.3	38.4	38.4	100.0	99.0	11.7	10.9	107.3	108.3	104	100	104.0	105.0	
Z2		6.0				38.1				38.9				11.0			104				
A3	6.1	5.3	115.1	122.0	38.7	38.4	100.8	102.4	39.4	39.4	100.0	101.5	10.9	11.2	97.3	100.9	98	99	99.0	99.0	
B3	5.0	5.4	92.6	100.0	37.4	37.1	100.8	98.9	38.5	38.1	101.0	99.2	10.2	10.6	96.2	94.4	100	108	92.6	101.0	
FKI DATA																					
CUR.																					
AV.	5.0					37.8				38.7				10.9			99				
CUM.																					
AV.	5.0					37.8				38.8				10.8			99				
IND.																					
*D	100.0					100.0				99.7				100.9			100.0				

NOTE- NOTES A, B, C, AND D, ARE GIVEN IN APPENDIX.

TABLE VI  
AVERAGES OF ROUTINE MILL QUALITY CONTROL DATA FOR 38 LB. FOURDRINIER KRAFT LINERBOARD

AUGUST, 1972

CODE	MOISTURE CONTENT, PERCENT				BASIS WT., LB./ M SQ. FT.				ADJ. BASIS WT.,*A LB./ M SQ. FT.				CALIPER, PT.				BURSTING STRENGTH, P.S.I.G.			
	MACHINE DATA				MACHINE DATA				MACHINE DATA				MACHINE DATA				MACHINE DATA			
	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C
B1	4.7	4.0	117.5	94.0	38.4	38.4	100.0	101.6	38.6	38.6	100.0	99.5	11.1	11.2	99.1	101.8	103	102	101.0	104.0
C1		4.8				38.0				39.3				10.6			101			
D1		5.5				38.0				39.0				10.6			99			
E1	5.6	5.3	105.7	112.0	39.2	38.6	101.6	103.7	39.3	38.7	101.6	101.3	10.8	11.1	97.3	99.1	97	96	101.0	98.0
F1	4.2	4.0	105.0	84.0	36.5	36.8	99.2	96.6	37.9	38.4	98.7	97.7	10.0	10.0	100.0	91.7	107	107	100.0	108.1
G1	3.5	4.0	87.5	70.0	37.0	37.2	99.5	97.9	38.7	38.7	100.0	99.7	10.0	10.2	98.0	91.7	97	99	98.0	98.0
H1	4.1	4.4	93.2	82.0	37.6	37.5	100.3	99.5	39.1	38.9	100.5	100.8	11.7	11.6	100.9	107.3	98	95	103.2	99.0
I1		5.7				37.4				38.2				10.4			107			
J1	4.5	3.8	118.4	90.0	38.1	38.3	99.5	100.8	38.4	38.6	99.5	99.0	10.9	11.0	99.1	100.0	97	92	105.4	98.0
L1	4.4	5.2	84.6	88.0	38.3	37.9	101.0	101.3	39.7	39.0	101.8	102.3	11.2	10.8	103.7	102.8	91	91	100.0	91.9
M1		4.1				37.0				38.6				11.8			96			
O1	5.6	5.2	107.7	112.0	39.0	39.1	99.7	103.2	39.9	40.2	99.2	102.8	11.0	10.8	101.8	100.9	102	100	102.0	103.0
P1	4.5	5.3	84.9	90.0	37.4	37.5	99.7	98.9	38.7	38.5	100.5	99.7	11.1	11.9	93.3	101.8	98	94	104.2	99.0
Q1	6.4	6.4	100.0	128.0	38.0	38.1	99.7	100.5	38.6	38.7	99.7	99.5	12.0	11.4	105.3	110.1	91	94	96.8	91.9
R1		5.1				37.4				38.5				11.1			106			
S1	5.6	5.5	101.8	112.0	37.8	38.0	99.5	100.0	38.7	38.9	99.5	99.7	11.0	11.4	96.5	100.9	96	99	97.0	97.0
T1						38.4				38.7				10.3			100			
U1		5.6				37.4				38.3				9.9			103			
W1		5.0				37.4				38.5				11.4			95			
X1	5.9	5.2	113.5	118.0	38.3	38.1	100.5	101.3	39.1	39.2	99.7	100.8	10.2	10.1	101.0	93.6	117	112	104.5	118.2
Y1	4.5	4.9	91.8	90.0	37.5	37.6	99.7	99.2	38.8	38.8	100.0	100.0	10.4	10.7	97.2	95.4	94	98	95.9	94.9
Z1	4.8	5.0	96.0	96.0	38.3	38.4	99.7	101.3	39.5	39.6	99.7	101.8	10.2	10.3	99.0	93.6	96	95	101.0	97.0
B2		5.3				38.0				39.0				10.7			98			
F2		6.0				37.0				37.7				9.5			99			
G2	4.5	4.3	104.6	90.0	38.5	38.5	100.0	101.8	38.6	39.5	97.7	99.5	10.7	10.7	100.0	98.2	108	102	105.9	109.1
I2		4.3				37.8				39.2				10.3			109			
L2	4.6	4.4	104.5	92.0	37.7	37.5	100.5	99.7	39.0	38.9	100.2	100.5	11.2	11.2	100.0	102.8	97	94	103.2	98.0
M2		4.7				38.7				39.0				10.9			99			
N2	4.7	4.7	100.0	94.0	38.4	38.4	100.0	101.6	38.7	38.6	100.2	99.7	11.8	11.4	103.5	108.2	100	99	101.0	101.0
O2		3.3				36.5				38.2				10.9			98			
R2	5.6	5.7	98.2	112.0	38.0	38.1	99.7	100.5	38.1	38.2	99.7	98.2					96	99	97.0	97.0
S2	4.5	4.5	100.0	90.0	38.4	38.0	101.0	101.6	39.8	38.5	103.4	102.6	10.4	10.5	99.0	95.4	101	103	98.0	102.0
T2	4.6	4.6	100.0	92.0	37.7	37.5	100.5	99.7	39.0	38.8	100.5	100.5	11.5	11.3	101.8	105.5	93	93	100.0	93.9
V2		5.9				38.2				38.6				10.8			97			
Y2	4.5	5.1	88.2	90.0	38.3	37.5	102.1	101.3	38.4	38.4	100.0	99.0	11.4	11.0	103.6	104.6	98	101	97.0	99.0
Z2		6.1				38.2				38.8				11.0			102			
A3	5.4	5.4	100.0	108.0	38.0	38.4	99.0	100.5	39.0	39.4	99.0	100.5	10.6	11.2	94.6	97.2	95	98	96.9	96.0
B3	4.9	5.3	92.4	98.0	37.0	37.2	99.5	97.9	38.1	38.2	99.7	98.2	10.4	10.5	99.0	95.4	112	106	103.7	113.1
FKI DATA																				
CUR.																				
AV.	4.9				38.0				38.8				10.9				100			
CUM.																				
AV.	5.0				37.8				38.8				10.9				99			
IND.																				
*D	98.0				100.5				100.0				100.0				101.0			

NOTE- NOTES A, B, C, AND D, ARE GIVEN IN APPENDIX.

TABLE VII  
AVERAGES OF ROUTINE MILL QUALITY CONTROL DATA FOR 42 LB. FOURDRINIER KRAFT LINERBOARD

JULY, 1972

CODE	MOISTURE CONTENT, PERCENT				BASIS WT., LB./ M SQ. FT.				ADJ. BASIS WT.,*A LB./ M SQ. FT.				CALIPER, PT.				BURSTING STRENGTH, P.S.T.G.				
	MACHINE DATA				MACHINE DATA				MACHINE DATA				MACHINE DATA				MACHINE DATA				
	CUR. AV.	CUM. AV.	FACT. #B	IND. #C	CUR. AV.	CUM. AV.	FACT. #B	IND. #C	CUR. AV.	CUM. AV.	FACT. #B	IND. #C	CUR. AV.	CUM. AV.	FACT. #B	IND. #C	CUR. AV.	CUM. AV.	FACT. #B	IND. #C	
A1	5.8	5.1	113.7	111.5	41.4	41.4	100.0	99.0	42.3	42.6	99.3	99.1	12.8	12.7	100.8	107.6	113	118	95.8	105.6	
B1	4.4	4.6	95.6	84.6	42.3	42.2	100.2	101.2	42.5	42.5	100.0	99.5	12.3	12.3	100.0	103.4	106	108	98.1	99.1	
C1	4.7	4.8	97.9	90.4	41.2	41.4	99.5	98.6	42.6	42.8	99.5	99.8	11.6	11.4	101.8	97.5	107	108	99.1	100.0	
D1	5.6	5.8	96.6	107.7	41.7	41.8	99.8	99.8	42.7	42.7	100.0	100.0	11.8	11.6	101.7	99.2	104	106	98.1	97.2	
E1	5.5	5.8	94.8	105.8	42.5	42.3	100.5	101.7	42.6	42.4	100.5	99.8	11.4	12.1	94.2	95.8	106	102	103.9	99.1	
F1	4.0	4.2	95.2	76.9	40.5	40.7	99.5	96.9	42.2	42.3	99.8	98.8	11.2	11.2	100.0	94.1	115	112	102.7	107.5	
G1	3.9	4.2	92.8	75.0	40.9	41.2	99.3	97.8	42.6	42.8	99.5	99.8	11.2	11.5	97.4	94.1	106	109	97.2	99.1	
H1	4.4	5.0	88.0	84.6	41.5	41.5	100.0	99.3	43.0	42.7	100.7	100.7	12.7	12.7	100.0	106.7	105	104	101.0	98.1	
I1	5.7	6.1	93.4	109.6	41.3	41.2	100.2	98.8	42.2	42.0	100.5	98.8	12.8	11.9	107.6	107.6	119	112	106.2	111.2	
J1	4.6	4.4	104.5	88.5	42.5	42.7	99.5	101.7	42.9	43.1	99.5	100.5	12.1	11.8	102.5	101.7	102	102	100.0	95.3	
L1	4.8	5.2	92.3	92.3	41.8	41.6	100.5	100.0	43.2	42.8	100.9	101.2	11.9	11.9	100.0	100.0	105	104	101.0	98.1	
M1		4.2				42.4				44.1				12.8				109			
O1	5.8	5.9	98.3	111.5	42.8	42.9	99.8	102.4	43.7	43.8	99.8	102.3	12.0	12.0	100.0	100.8	108	107	100.9	100.9	
PI	5.8	5.4	107.4	111.5	41.4	41.5	99.8	99.0	42.3	42.5	99.5	99.1	12.0	12.9	93.0	100.8	102	102	100.0	95.3	
Q1	6.9	6.9	100.0	132.7	41.8	42.2	99.0	100.0	42.2	42.6	99.1	98.8	12.5	12.5	100.0	105.0	104	103	101.0	97.2	
R1		5.2				41.2				42.4				12.2				109			
S1	5.7	5.5	103.6	109.6	42.0	41.8	100.5	100.5	43.0	42.9	100.2	100.7	13.3	12.4	107.2	111.8	104	107	97.2	97.2	
T1		4.8				41.6	42.4	98.1	99.5	42.0	42.7	98.4	98.4	11.9	11.4	104.4	100.0	111	110	100.9	103.7
U1	5.0	5.0	100.0	96.2	41.2	41.2	100.0	98.6	42.5	42.5	100.0	99.5	11.3	10.9	103.7	95.0	108	108	100.0	100.9	
V1	5.7	5.5	103.6	109.6	41.7	42.0	99.3	99.8	42.6	43.1	98.8	99.8	12.5	12.8	97.6	105.0	109	108	100.9	101.9	
X1	6.1	5.6	108.9	117.3	42.3	42.2	100.2	101.2	43.1	43.2	99.8	100.9	11.0	11.0	100.0	92.4	122	119	102.5	114.0	
Y1	5.6	5.0	112.0	107.7	41.8	41.4	101.0	100.0	42.8	42.7	100.2	100.2	11.8	11.6	101.7	99.2	106	106	100.0	99.1	
Z1	6.4	6.0	106.7	123.1	42.2	42.2	100.0	101.0	42.8	43.0	99.5	100.2	11.2	11.2	100.0	94.1	104	105	99.0	97.2	
B2	5.5	5.4	101.8	105.8	42.0	41.7	100.7	100.5	43.0	42.8	100.5	100.7	12.4	12.0	103.3	104.2	104	103	101.0	97.2	
C2	5.0	4.8	104.2	96.2	41.4	41.5	99.8	99.0	42.7	42.9	99.5	100.0	11.4	11.5	99.1	95.8	108	109	99.1	100.9	
E2	6.8	6.7	101.5	130.8	42.1	42.1	100.0	100.7	42.6	42.6	100.0	99.8	12.1	11.9	101.7	101.7	109	108	100.9	101.9	
F2	5.8	5.9	98.3	111.5	41.1	41.6	98.8	98.3	42.0	42.4	99.0	98.4	11.1	11.4	97.4	93.3	106	110	96.4	99.1	
G2	5.3	4.5	117.8	101.9	42.2	42.4	99.5	101.0	42.3	43.6	97.0	99.1	12.7	12.1	105.0	106.7	117	110	106.4	109.3	
H2		5.1				41.3				42.6				12.0				110			
I2	4.1	4.6	89.1	78.8	41.4	41.6	99.5	99.0	43.1	43.1	100.0	100.9	10.8	11.3	95.6	90.8	112	112	100.0	104.7	
K2		4.8				41.4				42.8				12.8				117			
L2	4.8	4.4	109.1	92.3	41.5	41.4	100.2	99.3	42.9	42.9	100.0	100.5	12.5	12.3	101.6	105.0	105	103	101.9	98.1	
M2		5.2				41.6	42.4	98.1	99.5	42.0	42.7	98.4	98.4	12.0	12.0	100.0	100.8	107	108	99.1	100.0
N2	5.0	4.9	102.0	96.2	42.3	42.4	99.8	101.2	42.7	42.8	99.8	100.0	12.5	12.3	101.6	105.0	104	105	99.0	97.2	
O2	3.9	4.0	97.5	75.0	40.8	40.7	100.2	97.6	42.5	42.3	100.5	99.5	12.5	11.9	105.0	105.0	108	107	100.9	100.9	
Q2	4.6	4.7	97.9	88.5	41.9	41.8	100.2	100.2	43.4	43.2	100.5	101.6	13.4	13.2	101.5	112.6	112	108	103.7	104.7	
R2	5.7	5.6	101.8	109.6	42.1	42.2	99.8	100.7	42.2	42.2	100.0	98.8					103	105	98.1	96.3	
S2	5.2	4.8	108.3	100.0	42.1	42.0	100.2	100.7	43.3	42.2	102.6	101.4	11.6	11.6	100.0	97.5	110	109	100.9	102.8	
T2		4.4		84.6		41.3		98.8		42.8		100.2		12.2		102.5	106			0.0	99.1
V2	5.7	6.1	93.4	109.6	42.2	41.9	100.7	101.0	42.3	42.4	99.8	99.1	12.0	12.0	100.0	100.8	104	105	99.0	97.2	
W2	5.5	5.4	101.8	105.8	41.7	42.1	99.0	99.8	42.7	43.2	98.8	100.0	13.1	12.8	102.3	110.1	105	107	98.1	98.1	
X2	6.6	6.0	110.0	126.9	42.5	42.6	99.8	101.7	43.1	43.4	99.3	100.9	12.3	12.1	101.6	103.4	104	106	98.1	97.2	
Y2	5.0	5.3	94.3	96.2	42.2	41.4	101.9	101.0	42.3	42.4	99.8	99.1	12.7	12.2	104.1	106.7	109	107	101.9	101.9	
Z2	6.1	6.2	98.4	117.3	41.7	41.8	99.8	99.8	42.5	42.5	100.0	99.5	12.1	12.0	100.8	101.7	107	107	100.0	100.0	
A3	6.2	5.8	106.9	119.2	41.8	41.8	100.0	100.0	42.5	42.7	99.5	99.5	11.6	12.2	95.1	97.5	105	107	98.1	98.1	
B3	5.3	5.2	101.9	101.9	40.8	41.0	99.5	97.6	41.9	42.2	99.3	98.1	11.5	11.7	98.3	96.6	118	114	103.5	110.3	
FKI DATA																					
CUR.																					
AV.	5.3				41.7				42.6				12.0				108				
CUM.																					
AV.	5.2				41.8				42.7				11.9				107				
IND.																					
#D	101.9				99.8				99.8				100.8				100.9				

NOTE- NOTES A, B, C, AND D, ARE GIVEN IN APPENDIX.

TABLE VIII  
 AVERAGES OF ROUTINE MILL QUALITY CONTROL DATA FOR 42 LB. FOURDRINIER KRAFT LINERBOARD  
 AUGUST, 1972

CODE	MOISTURE CONTENT, PERCENT				BASIS WT., LB./ M SQ. FT.				ADJ. BASIS WT.,*A LB./ M SQ. FT.				CALIPER, PT.				BURSTING STRENGTH, P.S.I.G.			
	MACHINE DATA				MACHINE DATA				MACHINE DATA				MACHINE DATA				MACHINE DATA			
	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C
A1		5.2			41.4			42.5				12.7				116				
B1	4.9	4.5	108.9	94.2	42.3	42.3	100.0	101.2	42.5	42.5	100.0	99.5	12.2	12.3	99.2	102.5	106	108	98.1	99.1
C1	4.5	4.7	95.7	86.5	41.4	41.4	100.0	99.0	42.9	42.8	100.2	100.5	11.9	11.5	103.5	100.0	108	108	100.0	100.9
D1	6.0	5.8	103.4	115.4	41.7	41.8	99.8	99.8	42.5	42.7	99.5	99.5	11.7	11.6	100.9	98.3	104	106	98.1	97.2
E1	6.0	5.8	103.4	115.4	42.4	42.3	100.2	101.4	42.5	42.4	100.2	99.5	11.5	12.0	95.8	96.6	104	103	101.0	97.2
F1	4.4	4.1	107.3	84.6	40.5	40.6	99.8	96.9	42.0	42.3	99.3	98.4	11.2	11.2	100.0	94.1	110	112	98.2	102.8
G1	3.4	4.2	81.0	65.4	40.8	41.2	99.0	97.6	42.8	42.8	100.0	100.2	10.7	11.4	93.8	89.9	108	109	99.1	100.9
H1	4.2	5.0	84.0	80.8	41.6	41.5	100.2	99.5	43.2	42.8	100.9	101.2	12.5	12.7	98.4	105.0	105	104	101.0	98.1
I1	6.0	6.0	100.0	115.4	41.2	41.2	100.0	98.6	42.0	42.0	100.0	98.4	11.4	12.0	95.0	95.8	115	113	101.8	107.5
J1	4.5	4.5	100.0	86.5	42.5	42.6	99.8	101.7	42.9	43.0	99.8	100.5	12.2	11.9	102.5	102.5	101	102	99.0	94.4
L1	4.5	5.2	86.5	86.5	41.8	41.6	100.5	100.0	43.3	42.8	101.2	101.4	12.1	11.9	101.7	101.7	105	104	101.0	98.1
M1		4.2			42.4			44.1					12.8				109			
O1	6.0	5.9	101.7	115.4	42.7	42.9	99.5	102.2	43.5	43.8	99.3	101.9	12.1	11.9	101.7	101.7	107	107	100.0	100.0
P1	4.5	5.5	81.8	86.5	41.2	41.4	99.5	98.6	42.7	42.5	100.5	100.0	12.2	12.7	96.1	102.5	104	102	102.0	97.2
Q1	6.8	6.9	98.6	130.8	41.8	42.2	99.0	100.0	42.3	42.6	99.3	99.1	12.5	12.5	100.0	105.0	103	103	100.0	96.3
R1		5.2			41.2			42.4					12.2				109			
S1	5.9	5.5	107.3	113.5	41.8	41.9	99.8	100.0	42.7	42.9	99.5	100.0	12.3	12.5	98.4	103.4	105	107	98.1	98.1
T1		4.8			41.6	42.4	98.1	99.5	42.0	42.7	98.4	98.4	12.0	11.4	105.3	100.8	110	110	100.0	102.8
U1	4.8	5.0	96.0	92.3	41.1	41.3	99.5	98.3	42.5	42.6	99.8	99.5	11.3	11.0	102.7	95.0	110	108	101.8	102.8
V1	5.5	5.6	98.2	105.8	41.8	42.0	99.5	100.0	42.8	43.0	99.5	100.2	12.1	12.7	95.3	101.7	110	108	101.8	102.8
X1	6.1	5.6	108.9	117.3	42.0	42.2	99.5	100.5	42.8	43.1	99.3	100.2	11.5	11.0	104.5	96.6	119	119	100.0	111.2
Y1	5.4	5.0	108.0	103.8	41.7	41.5	100.5	99.8	42.8	42.7	100.2	100.2	12.0	11.6	103.4	100.8	102	106	96.2	95.3
Z1	6.4	6.2	103.2	123.1	42.2	42.2	100.0	101.0	42.8	43.0	99.5	100.2	11.2	11.2	100.0	94.1	106	105	101.0	99.1
B2	5.4	5.4	100.0	103.8	42.0	41.7	100.7	100.5	43.1	42.8	100.7	100.9	12.1	12.1	100.0	101.7	105	103	101.9	98.1
C2	4.9	4.9	100.0	94.2	41.4	41.5	99.8	99.0	42.7	42.8	99.8	100.0	11.3	11.4	99.1	95.0	106	109	97.2	99.1
E2		6.7			42.1			42.6					12.0				108			
F2		5.9			41.5			42.4					11.4				109			
G2		4.6			42.4			43.4					12.1				111			
H2		5.2			41.4			42.6					12.0				112			
I2	4.1	4.6	89.1	78.8	41.3	41.6	99.3	98.8	43.0	43.1	99.8	100.7	10.8	11.2	96.4	90.8	109	112	97.3	101.9
K2		4.8			41.4			42.8					12.8				117			
L2	4.7	4.5	104.4	90.4	41.5	41.4	100.2	99.3	42.9	42.9	100.0	100.5	12.2	12.3	99.2	102.5	108	103	104.8	100.9
M2		5.2			41.8	42.3	98.8	100.0	42.0	42.7	98.4	98.4	12.1	12.0	100.8	101.7	106	108	98.1	99.1
N2	5.2	4.9	106.1	100.0	42.3	42.4	99.8	101.2	42.7	42.8	99.8	100.0	12.6	12.3	102.4	105.9	103	105	98.1	96.3
O2	4.2	4.0	105.0	80.8	42.1	40.7	103.4	100.7	43.7	42.3	103.3	102.3	12.1	12.0	100.8	101.7	105	108	97.2	98.1
Q2	4.7	4.7	100.0	90.4	41.8	41.8	100.0	100.0	43.2	43.2	100.0	101.2	13.3	13.2	100.8	111.8	107	108	99.1	100.0
R2	5.6	5.6	100.0	107.7	42.1	42.2	99.8	100.7	42.2	42.2	100.0	98.8					102	105	97.1	95.3
S2	4.7	4.9	95.9	90.4	42.8	42.1	101.7	102.4	44.2	42.5	104.0	103.5	11.4	11.6	98.3	95.8	109	109	100.0	101.9
T2	4.5	4.4	102.3	86.5	41.5	41.3	100.5	99.3	43.0	42.8	100.5	100.7	12.4	12.2	101.6	104.2	106	106	100.0	99.1
V2	5.6	6.0	93.3	107.7	41.9	42.0	99.8	100.2	42.0	42.4	99.0	98.4	12.8	12.0	106.7	107.6	105	105	100.0	98.1
W2	5.6	5.4	103.7	107.7	41.5	42.1	98.6	99.3	42.5	43.2	98.4	99.5	12.9	12.8	100.8	108.4	105	107	98.1	98.1
X2	6.3	6.1	103.3	121.2	42.7	42.6	100.2	102.2	43.4	43.4	100.0	101.6	12.4	12.1	102.5	104.2	106	105	101.0	99.1
Y2	5.2	5.2	100.0	100.0	42.5	41.5	102.4	101.7	42.6	42.4	100.5	99.8	12.3	12.2	100.8	103.4	106	107	99.1	99.1
Z2	6.3	6.3	100.0	121.2	42.0	41.8	100.5	100.5	42.7	42.5	100.5	100.0	12.1	12.0	100.8	101.7	105	107	98.1	98.1
A3	6.5	5.8	112.1	125.0	41.7	41.8	99.8	99.8	42.3	42.7	99.1	99.1	12.0	12.1	99.2	100.8	104	107	97.2	97.2
B3	5.2	5.2	100.0	100.0	40.9	41.0	99.8	97.8	42.0	42.2	99.5	98.4	11.7	11.7	100.0	98.3	118	114	103.5	110.3
FKI DATA																				
CUR.																				
AV. 5.3																				
CUM.																				
AV. 5.2																				
IND.																				
*D 101.9																				
100.0																				
100.0																				
100.8																				
100.0																				

NOTE- NOTES A, B, C, AND D, ARE GIVEN IN APPENDIX.

TABLE IX

## AVERAGES OF ROUTINE MILL QUALITY CONTROL DATA FOR 69 LB. FOURDRINIER KRAFT LINERBOARD

JULY, 1972

CODE	MOISTURE CONTENT, PERCENT				BASIS WT., LB./ M SQ. FT.				ADJ. BASIS WT.,*A LB./ M SQ. FT.				CALIPER, PT.				BURSTING STRENGTH, P.S.I.G.			
	MACHINE DATA				MACHINE DATA				MACHINE DATA				MACHINE DATA				MACHINE DATA			
	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C
A1	6.0	6.0	100.0	103.4	67.5	68.9	98.0	98.2	68.8	70.2	98.0	98.4	18.7	18.8	99.5	95.4	157	154	101.9	109.0
B1	5.8	4.9	118.4	100.0	69.2	69.1	100.1	100.7	69.6	69.4	100.3	99.6	21.4	21.3	100.5	109.2	145	147	98.6	100.7
C1	4.8	5.2	92.3	82.8	68.0	68.4	99.4	99.0	70.2	70.3	99.8	100.4	18.6	18.2	102.2	94.9	147	147	100.0	102.1
E1	6.0	6.2	96.8	103.4	69.8	69.2	100.9	101.6	70.0	69.4	100.9	100.1	19.8	20.5	96.6	101.0	143	139	102.9	99.3
F1	4.2	3.8	110.5	72.4	66.6	66.7	99.8	96.9	69.2	69.6	99.4	99.0	17.6	18.1	97.2	89.8	157	154	101.9	109.0
H1	5.2	5.2	100.0	89.6	68.3	68.2	100.1	99.4	70.2	70.1	100.1	100.4	19.7	20.4	96.6	100.5	142	140	101.4	98.6
I1	6.6	7.1	93.0	113.8	69.0	68.8	100.3	100.4	69.9	69.4	100.7	100.0	19.4	19.0	102.1	99.0	158	143	110.5	109.7
J1	5.9	5.5	107.3	101.7	70.1	69.7	100.6	102.0	70.7	70.3	100.6	101.1	19.4	19.0	102.1	99.0	140	141	99.3	97.2
L1	5.2	5.1	102.0	89.6	67.8	67.8	100.0	98.7	69.7	69.7	100.0	99.7	18.5	20.7	89.4	94.4	144	144	100.0	100.0
O1	6.8	6.7	101.5	117.2	70.3	70.0	100.4	102.3	71.1	70.8	100.4	101.7	19.9	20.0	99.5	101.5	143	142	100.7	99.3
Q1	7.1	7.6	93.4	122.4	69.5	69.7	99.7	101.2	70.0	69.8	100.3	100.1	20.7	20.9	99.0	105.6	143	142	100.7	99.3
R1	5.4	5.7	94.7	93.1	69.1	68.3	101.2	100.6	69.3	69.7	99.4	99.1	19.8	19.3	102.6	101.0	144	146	98.6	100.0
S1	6.1	6.2	98.4	105.2	68.4	68.9	99.3	99.6	69.7	70.0	99.6	99.7	20.8	20.0	104.0	106.1	137	139	98.6	95.1
T1		4.7			68.9	69.8	98.7	100.3	69.9	70.2	99.6	100.0	20.0	19.2	104.2	102.0	148	148	100.0	102.8
U1		5.0				67.9				70.0				18.6			147			
V1	6.1	5.6	108.9	105.2	68.2	68.6	99.4	99.3	69.5	70.2	99.0	99.4	19.9	20.6	96.6	101.5	140	139	100.7	97.2
X1	6.3	6.2	101.6	108.6	69.6	69.1	100.7	101.3	70.7	70.3	100.6	101.1	19.0	19.1	99.5	96.9	153	153	100.0	106.2
Y1	5.9	5.7	103.5	101.7	68.3	68.1	100.3	99.4	69.7	69.7	100.0	99.7	18.8	19.2	97.9	95.9	135	136	99.3	93.8
Z1	7.3	7.0	104.3	125.9	69.0	69.3	99.6	100.4	69.4	69.9	99.3	99.3	18.7	18.6	100.5	95.4	142	144	98.6	98.6
C2	5.4	5.5	98.2	93.1	68.4	68.5	99.8	99.6	70.2	70.2	100.0	100.4	19.4	19.4	100.0	99.0	136	140	97.1	94.4
B2	6.3	6.3	100.0	108.6	68.4	68.0	100.6	99.6	69.5	69.0	100.7	99.4	20.4	20.3	100.5	104.1	135	134	100.7	93.8
E2	7.5	7.4	101.4	129.3	69.4	69.6	99.7	101.0	69.6	69.8	99.7	99.6	18.6	19.4	95.9	94.9	143	144	99.3	99.3
F2	5.9	6.3	93.6	101.7	67.6	68.5	98.7	98.4	69.0	69.6	99.1	98.7	18.9	19.4	97.4	96.4	136	141	96.4	94.4
G2		4.4				69.5				71.5				19.6			152			
H2	6.9	6.6	104.5	119.0	68.9	69.3	99.4	100.3	69.6	70.2	99.1	99.6	19.1	19.2	99.5	97.4	143	146	97.9	99.3
I2	4.6	4.9	93.9	79.3	67.6	68.1	99.3	98.4	70.0	70.3	99.6	100.1	19.6	19.8	99.0	100.0	142	143	99.3	98.6
K2	4.9	5.1	96.1	84.5	67.4	68.1	99.0	98.1	69.5	70.2	99.0	99.4	19.2	20.1	95.5	98.0	145	144	100.7	100.7
M2		5.2			68.7	69.7	98.6	100.0	69.0	70.0	98.6	98.7	20.2	19.7	102.5	103.1	145	146	99.3	100.7
N2	5.6	5.4	103.7	96.6	69.8	69.7	100.1	101.6	70.4	70.3	100.1	100.7	19.8	19.6	101.0	101.0	138	141	97.9	95.8
O2	4.2	4.6	91.3	72.4	66.8	66.9	99.8	97.2	69.4	69.3	100.1	99.3	18.6	19.9	93.5	94.9	144	145	99.3	100.0
Q2		5.2				68.0				69.9				22.2			144			
R2	5.9	6.0	98.3	101.7	69.0	68.9	100.1	100.4	69.2	69.1	100.1	99.0					142	148	95.9	98.6
S2	5.7	5.2	109.6	98.3	69.0	69.4	99.4	100.4	70.6	69.6	101.4	101.0	19.0	18.2	104.4	96.9	152	152	100.0	105.6
V2	6.6	6.8	97.0	113.8	68.9	68.8	100.1	100.3	69.1	69.3	99.7	98.8	19.8	19.5	101.5	101.0	143	147	97.3	99.3
X2		6.9				70.0				70.7				18.7			145			
Y2		6.2				68.5				69.7				19.6			146			
Z2	7.4	7.2	102.8	127.6	68.7	68.7	100.0	100.0	69.0	69.1	99.8	98.7	20.6	20.1	102.5	105.1	145	148	98.0	100.7
A3	6.3	6.1	103.3	108.6	68.4	68.8	99.4	99.6	69.5	70.1	99.1	99.4	18.5	19.5	94.9	94.4	144	148	97.3	100.0
FKI DATA																				
CUR.																				
AV.	5.9				68.6				69.7				19.4				144			
CUM.																				
AV.	5.8				68.7				69.9				19.6				144			
IND.																				
*D	101.7				99.8				99.7				99.0				100.0			

NOTE- NOTES A, B, C, AND D, ARE GIVEN IN APPENDIX.

TABLE X  
 AVERAGES OF ROUTINE MILL QUALITY CONTROL DATA FOR 69 LB. FOURDRINIER KRAFT LINERBOARD  
 AUGUST, 1972

CODE	MOISTURE CONTENT, PERCENT				BASIS WT., LB./ M SQ. FT.				ADJ. BASIS WT.,*A LB./ M SQ. FT.				CALIPER, PT.				BURSTING STRENGTH, P.S.I.G.				
	MACHINE DATA				MACHINE DATA				MACHINE DATA				MACHINE DATA				MACHINE DATA				
	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	
A1	6.1	6.0	101.7	105.2	67.7	68.9	98.2	98.5	68.9	70.2	98.1	98.6	18.4	18.8	97.9	93.9	153	154	99.4	106.2	
B1	5.7	5.0	114.0	98.3	69.1	69.1	100.0	100.6	69.5	69.4	100.1	99.4	21.2	21.3	99.5	108.2	146	147	99.3	101.4	
C1	5.0	5.2	96.2	86.2	68.6	68.4	100.3	99.9	70.7	70.3	100.6	101.1	18.7	18.2	102.7	95.4	149	147	101.4	103.5	
E1		6.3				69.2				69.4				20.4				139			
F1	4.1	3.8	107.9	70.7	66.1	66.7	99.1	96.2	68.7	69.5	98.8	98.3	17.8	18.0	98.9	90.8	154	155	99.4	106.9	
H1	6.1	5.2	117.3	105.2	68.8	68.2	100.9	100.1	70.1	70.1	100.0	100.3	20.4	20.4	100.0	104.1	142	140	101.4	98.6	
I1		6.8				68.9				69.6				19.2				150			
J1	5.8	5.5	105.4	100.0	69.5	69.8	99.6	101.2	70.1	70.4	99.6	100.3	19.3	19.1	101.0	98.5	137	141	97.2	95.1	
L1	5.0	5.2	96.2	86.2	68.1	67.8	100.4	99.1	70.2	69.7	100.7	100.4	19.9	20.4	97.5	101.5	146	144	101.4	101.4	
O1	6.9	6.7	103.0	119.0	69.7	70.0	99.6	101.4	70.4	70.8	99.4	100.7	20.3	19.8	102.5	103.6	139	142	97.9	96.5	
Q1	7.5	7.5	100.0	129.3	69.0	69.6	99.1	100.4	69.2	69.8	99.1	99.0	20.7	20.9	99.0	105.6	140	142	98.6	97.2	
R1	5.5	5.6	98.2	94.8	69.5	68.4	101.6	101.2	69.7	69.7	100.0	99.7	20.0	19.4	103.1	102.0	144	146	98.6	100.0	
S1	6.4	6.2	103.2	110.3	68.7	68.9	99.7	100.0	69.7	70.1	99.4	99.7	19.8	20.1	98.5	101.0	138	139	99.3	95.8	
T1		4.7				68.9	69.7	98.8	100.3	69.9	70.1	99.7	100.0	19.8	19.3	102.6	101.0	149	148	100.7	103.5
U1	4.8	4.9	98.0	82.8	67.5	68.0	99.3	98.2	69.7	70.1	99.4	99.7	19.6	18.6	105.4	100.0	147	148	99.3	102.1	
V1	6.1	5.7	107.0	105.2	68.3	68.6	99.6	99.4	69.6	70.1	99.3	99.6	20.1	20.6	97.6	102.6	138	139	99.3	95.8	
X1	6.4	6.2	103.2	110.3	69.1	69.2	99.8	100.6	70.1	70.4	99.6	100.3	19.2	19.0	101.0	98.0	155	153	101.3	107.6	
Y1	5.3	5.7	93.0	91.4	68.0	68.1	99.8	99.0	69.8	69.7	100.1	99.8	19.7	19.1	103.1	100.5	134	136	98.5	93.0	
Z1	7.3	7.1	102.8	125.9	69.3	69.3	100.0	100.9	69.7	69.8	99.8	99.7	18.7	18.5	101.1	95.4	142	144	98.6	98.6	
B2	6.5	5.5	118.2	112.1	68.4	68.4	100.0	99.6	69.4	70.2	98.9	99.3	19.8	19.4	102.1	101.0	133	140	95.0	92.4	
C2	5.7	6.3	90.5	98.3	68.4	68.0	100.6	99.6	70.0	69.0	101.4	100.1	19.4	20.4	95.1	99.0	138	134	103.0	95.8	
E2		7.4				69.5				69.8				19.1				143			
F2		6.3				68.4				69.6				19.3				141			
G2	4.9	4.4	111.4	84.5	69.3	69.5	99.7	100.9	69.5	71.5	97.2	99.4	19.6	19.6	100.0	100.0	164	152	107.9	113.9	
H2	6.9	6.6	104.5	119.0	69.0	69.3	99.6	100.4	69.7	70.2	99.3	99.7	19.2	19.1	100.5	98.0	141	146	96.6	97.9	
I2	4.6	4.9	93.9	79.3	67.7	68.1	99.4	98.5	70.1	70.2	99.8	100.3	19.9	19.8	100.5	101.5	137	143	95.8	95.1	
K2		5.0				68.0				70.1				20.0				144			
M2		5.2				68.7	69.6	98.7	100.0	69.0	70.0	98.6	98.7	20.2	19.7	102.5	103.1	144	146	98.6	100.0
N2	5.7	5.4	105.6	98.3	69.7	69.7	100.0	101.4	70.3	70.3	100.0	100.6	19.9	19.6	101.5	101.5	140	140	100.0	97.2	
O2	4.5	4.5	100.0	77.6	66.8	67.0	99.7	97.2	69.2	69.3	99.8	99.0	21.1	19.8	106.6	107.6	141	145	97.2	97.9	
Q2	4.8	5.2	92.3	82.8	68.7	67.8	101.3	100.0	70.9	69.8	101.6	101.4	22.1	22.1	100.0	112.8	144	143	100.7	100.0	
R2	5.7	5.9	96.6	98.3	69.0	69.0	100.0	100.4	69.2	69.2	100.0	99.0					145	148	98.0	100.7	
S2	5.6	5.4	103.7	96.6	69.2	69.2	100.0	100.7	70.9	69.9	101.4	101.4	18.4	18.5	99.4	93.9	150	152	98.7	104.2	
V2	6.7	6.8	98.5	115.5	68.9	68.8	100.1	100.3	69.1	69.3	99.7	98.8	20.5	19.5	105.1	104.6	146	147	99.3	101.4	
X2	7.0	6.9	101.4	120.7	69.6	70.0	99.4	101.3	70.2	70.7	99.3	100.4	19.9	18.7	106.4	101.5	139	145	95.9	96.5	
Y2		6.2				68.5				69.7				19.6				146			
Z2	7.3	7.3	100.0	125.9	68.7	68.6	100.1	100.0	69.1	69.0	100.1	98.8	20.3	20.1	101.0	103.6	145	147	98.6	100.7	
A3	6.4	6.1	104.9	110.3	68.8	68.7	100.1	100.1	69.8	70.0	99.7	99.8	18.8	19.4	96.9	95.9	141	148	95.3	97.9	
FKI DATA																					
CUR.																					
AV.	5.9				68.6				69.7				19.8				144				
CUM.																					
AV.	5.8				68.7				69.9				19.6				144				
IND.																					
*D	101.7				99.8				99.7				101.0				100.0				

NOTE- NOTES A, B, C, AND D, ARE GIVEN IN APPENDIX.

TABLE XI  
AVERAGES OF ROUTINE MILL QUALITY CONTROL DATA FOR 90 LB. FOURDRINIER KRAFT LINERBOARD  
JULY, 1972

CODE	MOISTURE CONTENT, PERCENT				BASIS WT., LB./ M SQ. FT.				ADJ. BASIS WT.,*A LB./ M SQ. FT.				CALIPER, PT.				BURSTING STRENGTH, P-S-I-G.				
	MACHINE DATA				MACHINE DATA				MACHINE DATA				MACHINE DATA				MACHINE DATA				
	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	
A1	5.8	6.1	95.1	95.1	89.9	89.7	100.2	100.6	91.8	91.3	100.5	101.1	25.6	25.0	102.4	100.8	193	187	103.2	111.6	
B1	6.0	6.0	100.0	98.4	91.0	90.5	100.6	101.8	91.5	91.0	100.5	100.8	27.8	27.6	100.7	109.4	178	179	99.4	102.9	
F1	4.3	3.8	113.2	70.5	86.9	86.8	100.1	97.2	90.2	90.4	99.8	99.3	23.5	23.4	100.4	92.5	197	198	99.5	113.9	
H1		5.3				88.8				91.1				26.5				166			
I1	7.0			114.8	89.6			100.2	90.4			99.6	25.0			98.4	161			93.1	
L1	5.4	5.4	100.0	88.5	87.3	88.9	98.2	97.6	89.6	91.2	98.2	98.7	26.5	26.8	98.9	104.3	173	175	98.8	100.0	
R1	5.3	5.8	91.4	86.9	90.6	89.2	101.6	101.3	90.9	90.9	100.0	100.1	24.4	25.7	94.9	96.1	171	173	98.8	98.8	
S1		6.4				90.1				91.4				26.3				173			
T1		5.1				91.2				91.8				24.7				179			
U1		5.8				88.8				90.7				25.1				180			
V1	6.4	6.0	106.7	104.9	89.5	89.8	99.7	100.1	90.9	91.5	99.3	100.1	26.7	27.0	98.9	105.1	166	164	101.2	96.0	
Y1	5.9	5.8	101.7	96.7	89.4	88.9	100.6	100.0	91.2	90.9	100.3	100.4	25.0	25.0	100.0	98.4	166	163	101.8	96.0	
Z1	8.1	7.7	105.2	132.8	89.8	90.9	98.8	100.4	89.5	90.9	98.4	98.6	24.0	24.4	98.4	94.5	176	174	101.1	101.7	
B2	6.7	6.4	104.7	109.8	88.4	87.2	101.4	98.9	89.5	88.5	101.1	98.6	26.3	25.9	101.5	103.5	172	163	105.5	99.4	
C2		5.2				90.7				93.2				25.1				164			
F2		6.4				89.4				90.7				24.6				160			
G2		4.4				90.1				93.4				24.4				190			
H2	7.9	7.7	102.6	129.5	90.4	90.6	99.8	101.1	90.3	90.7	99.6	99.4	23.5	23.2	101.3	92.5	173	167	103.6	100.0	
K2	5.2	5.6	92.8	85.2	87.8	88.7	99.0	98.2	90.3	90.8	99.4	99.4	24.2	25.8	93.8	95.3	172	172	100.0	99.4	
M2		5.8				89.2	90.7	98.3	99.8	90.4	91.4	98.9	99.6	25.0	25.1	99.6	98.4	183	181	101.1	105.8
N2		5.5				90.7				91.5				25.8				167			
O2	4.7	4.8	97.9	77.0	87.6	87.5	100.1	98.0	90.6	90.3	100.3	99.8	26.0	25.8	100.8	102.4	164	170	96.5	94.8	
R2	5.5	5.8	94.8	90.2	90.0	89.4	100.7	100.7	90.3	89.7	100.7	99.4					176	174	101.1	101.7	
S2		5.4				89.8				90.0				24.2				182			
V2	7.6	6.9	110.1	124.6	90.1	89.5	100.7	100.8	90.4	90.2	100.2	99.6	24.7	24.3	101.6	97.2	164	190	86.3	94.8	
X2		7.3				91.0				91.4				25.9				172			
Y2		6.2				89.3				90.8				26.1				171			
Z2	7.5	7.7	97.4	123.0	89.6	89.7	99.9	100.2	89.9	89.8	100.1	99.0	27.0	26.4	102.3	106.3	169	173	97.7	97.7	
A3	6.4	6.4	100.0	104.9	89.2	89.4	99.8	99.8	90.6	90.7	99.9	99.8	24.6	25.1	98.0	96.8	182	182	100.0	105.2	
FKI DATA																					
CUR.																					
AV. 6.2																					
CUM.																					
AV. 6.1																					
IND.																					
*D 101.6																					

NOTE- NOTES A, B, C, AND D, ARE GIVEN IN APPENDIX.

TABLE XII  
AVERAGES OF ROUTINE MILL QUALITY CONTROL DATA FOR 90 LB. FOURDRINIER KRAFT LINERBOARD  
AUGUST, 1972

CODE	MOISTURE CONTENT, PERCENT				BASIS WT., LB./ M SQ. FT.				ADJ. BASIS WT.,*A LB./ M SQ. FT.				CALIPER, PT.				BURSTING STRENGTH, P.S.I.G.			
	MACHINE DATA				MACHINE DATA				MACHINE DATA				MACHINE DATA				MACHINE DATA			
	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C
A1	6.3	6.1	103.3	103.3	89.3	89.8	99.4	99.9	90.8	91.5	99.2	100.0	24.1	25.1	96.0	94.9	188	187	100.5	108.7
B1	5.4	6.0	90.0	88.5	89.5	90.6	98.8	100.1	90.0	91.0	98.9	99.1	26.7	27.7	96.4	105.1	179	178	100.6	103.5
F1	4.1	3.9	105.1	67.2	86.0	86.8	99.1	96.2	89.4	90.4	98.9	98.4	23.8	23.4	101.7	93.7	189	198	95.4	109.2
H1	4.7	5.4	87.0	77.0	88.9	88.7	100.2	99.4	91.9	91.1	100.9	101.2	26.0	26.4	98.5	102.4	168	166	101.2	97.1
I1		7.0				89.6				90.4				25.0				161		
L1	5.0	5.5	90.9	82.0	89.3	88.7	100.7	99.9	92.0	90.9	101.2	101.3	26.7	26.8	99.6	105.1	173	174	99.4	100.0
R1	5.9	5.7	103.5	96.7	90.5	89.3	101.3	101.2	90.8	90.9	99.9	100.0	26.3	25.6	102.7	103.5	169	172	98.3	97.7
S1	6.3	6.4	98.4	103.3	89.1	90.2	98.8	99.7	90.5	91.5	98.9	99.7	25.7	26.4	97.3	101.2	175	173	101.2	101.2
T1		5.1			89.0	91.2	97.6	99.6	90.2	91.8	98.2	99.3	26.4	24.7	106.9	103.9	179	179	100.0	103.5
U1		5.9				89.0				90.8				25.4				181		
V1	6.6	6.1	108.2	108.2	89.9	89.7	100.2	100.6	91.1	91.4	99.7	100.3	26.8	26.9	99.6	105.5	173	164	105.5	100.0
Y1	5.7	5.7	100.0	93.4	88.8	89.0	99.8	99.3	90.8	91.0	99.8	100.0	25.4	25.1	101.2	100.0	161	163	98.8	93.1
Z1	8.1	7.7	105.2	132.8	90.1	90.8	99.2	100.8	89.8	90.9	98.8	98.9	24.5	24.4	100.4	96.4	172	174	98.8	99.4
B2		6.4				87.3				88.6				26.0				164		
C2		5.2				90.7				93.2				25.1				164		
F2		6.4				89.3				90.7				24.5				161		
G2		4.4				90.1				93.4				24.4				190		
H2	7.7	7.7	100.0	126.2	90.5	90.6	99.9	101.2	90.6	90.7	99.9	99.8	23.5	23.2	101.3	92.5	165	168	98.2	95.4
K2		5.5				88.6				90.8				25.6				172		
M2		5.8			89.2	90.5	98.6	99.8	90.4	91.3	99.0	99.6	25.2	25.1	100.4	99.2	179	181	98.9	103.5
N2	6.0	5.4	111.1	98.4	90.7	90.8	99.9	101.4	91.5	91.6	99.9	100.8	26.9	25.8	104.3	105.9	167	167	100.0	96.5
O2	4.9	4.8	102.1	80.3	87.6	87.5	100.1	98.0	90.3	90.3	100.0	99.4	26.1	25.8	101.2	102.8	179	169	105.9	103.5
R2		5.8				89.5				89.8								174		
S2		5.4				89.8				90.0				24.2				182		
V2	5.9	7.1	83.1	96.7	90.3	89.6	100.8	101.0	90.6	90.2	100.4	99.8	24.8	24.4	101.6	97.6	180	184	97.8	104.0
X2	7.3	7.3	100.0	119.7	91.4	91.0	100.4	102.2	91.9	91.4	100.5	101.2	26.0	25.9	100.4	102.4	166	172	96.5	96.0
Y2		6.2				89.3				90.8				26.1				171		
Z2	8.5	7.7	110.4	139.3	89.7	89.6	100.1	100.3	89.0	89.7	99.2	98.0	26.8	26.5	101.1	105.5	169	173	97.7	97.7
A3	6.4	6.3	101.6	104.9	89.5	89.4	100.1	100.1	90.9	90.8	100.1	100.1	24.9	25.0	99.6	98.0	179	182	98.4	103.5
FKI DATA																				
CUR.																				
AV.	6.2				89.4				90.6				25.6				174			
CUM.																				
AV.	6.1				89.4				90.8				25.4				173			
IND.																				
*D	101.6				100.0				99.8				100.8				100.6			

NOTE- NOTES A, B, C, AND D, ARE GIVEN IN APPENDIX.

Data submitted by the participating mills relative to conditioning and testing environments are summarized in Table XIII. The procedures used in calculating adjusted basis weight, cumulative machine averages, machine factors, machine indexes, and FKI indexes are described in the Appendix.

It should be explained that the number of machines for which data are compiled in each table for a specified month varies for these reasons: a machine must have (a) produced at least 500 tons of the pertinent grade weight during the specified month, or (b) produced 500 tons of the pertinent grade weight during any one or more of the 12 months prior to the specified month (so that a cumulative average is available), to be included in a given table.

TABLE XIII  
DATA ON CONDITIONING AND TESTING ENVIRONMENTS  
JULY AND AUGUST, 1972

Code	Conditioning Environment				Testing Environment
	Are Quality Samples Conditioned Before Testing?	Time	Procedure		Are Quality Samples Tested Under Controlled Conditions of Temperature & Humidity?
			R.H., %	Temp., °F.	
A1	No	--	--	--	No
B1	Yes	5-20 min.	--	--	Yes: 72 ± 1°F.; 50 ± 5% R.H.
C1	No	--	--	--	No
D1	No	--	--	--	No
E1	No	--	--	--	Yes: 75 ± 5°F.; 50 ± 5% R.H.
F1	No	--	--	--	No
G1	No	--	--	--	Yes: 73 ± 3.5°F.; 50 ± 2% R.H.
H1	No	--	--	--	No
I1	No	--	--	--	No
J1	Yes	--	73	50	Yes: 73°F.; 50 ± 2% R.H.
K1	No	--	--	--	Yes: 73 ± 2°F.; 50 ± 2% R.H.
L1	Yes	--	--	--	Yes: 72 ± 2°F.; 50 ± 2% R.H.
M1	No data submitted for July and August				
N1	No	--	--	--	No
O1	No	--	--	--	Yes: 73 ± 4°F.; 50 ± 10% R.H.
P1	No	--	--	--	Yes: 73 ± 3°F.; 50 ± 2% R.H.
Q1	No	--	--	--	No
R1	No	--	--	--	Yes: 73 ± 3°F.; 50 ± 2% R.H.
S1	No	--	--	--	Yes: 73 ± 2°F.; 50 ± 2% R.H.
T1	Yes	Note <sup>a</sup>	--	--	Yes: 73 ± 2°F.; 50 ± 2% R.H.
U1	No	--	--	--	No
V1	No	--	--	--	Yes: 70 ± 2°F.; 50 ± 2% R.H.
W1	No	--	--	--	No
X1	No	--	--	--	Yes: 72 ± 2°F.; 50 ± 2% R.H.
Y1	No	--	--	--	Yes: 73 ± 3°F.; 50 ± 5% R.H.
Z1	No	--	--	--	No
A2	No	--	--	--	No
B2	No	--	--	--	Yes: 73 ± 2°F.; 50 ± 2% R.H.
C2	No	--	--	--	Yes: 73 ± 3°F.; 50 ± 2% R.H.
D2	Yes	7 min.	--	--	Yes: 73 ± 3°F.; 50 ± 2% R.H.
E2	No	--	--	--	Yes: 72 ± 2°F.; 55 ± 5% R.H.
F2	No	--	--	--	No
G2	Yes	15 min.	--	--	Yes: 73 ± 3.5°F.; 50 ± 2% R.H.
H2	No	--	--	--	No
I2	No	--	--	--	Yes: 73 ± 3.5°F.; 50 ± 2% R.H.
J2	No data submitted for July and August				
K2	No	--	--	--	No
L2	No	--	--	--	Yes: 73 ± 3°F.; 50 ± 1% R.H.
M2	Yes	Note <sup>a</sup>	--	--	Yes: 73 ± 2°F.; 50 ± 2% R.H.
N2	No	--	--	--	Yes: 73 ± 3°F.; 50 ± 2% R.H.
O2	No	--	--	--	No
P2	No	--	--	--	Yes: 73 ± 2°F.; 50 ± 2% R.H.
Q2	No	--	--	--	Yes: 72 ± 3.5°F.; 50 ± 2% R.H.
R2	No	--	--	--	No
S2	No	--	--	--	No
T2	No	--	--	--	No
U2	No	--	--	--	Yes: 73 ± 3.5°F.; 50 ± 2% R.H.
V2	No	--	--	--	No
W2	No	--	--	--	Yes: 70 ± 2°F.; 50 ± 2% R.H.
X2	No	--	--	--	Yes: 73 ± 4°F.; 50 ± 10% R.H.
Y2	No	--	--	--	Yes: 73 ± 3°F.; 50 ± 2% R.H.
Z2	No	--	--	--	No
A3	No	--	--	--	Yes: 72 ± 2°F.; 50 ± 1% R.H.
B3	No	--	--	--	No

<sup>a</sup>Samples were brought to equilibrium at standard temperature and humidity.

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R. C. McKee, Chairman  
Container Section

APPENDIX

NOTES A, B, C, AND D, USED IN TABULATIONS OF MILL DATA

Notes A, B, C, and D, used in the tables of mill data are given below; these notes define the procedure used in calculating adjusted basis weight, machine factor, machine index, and FKI index. It should be stressed that each formula is applicable only to a specific physical property of a specific grade weight of linerboard.

Note A: Adjusted basis weight (ABW) = reported weight (RBW) adjusted to moisture content of 7.8%:

$$ABW = RBW \left[ \frac{(100 - \text{reported moisture content, \%})}{(100 - 7.8)} \right]$$

Note B: Machine factor (%) =  $\left[ \frac{\text{Current machine average}}{\text{Cumulative machine average}} \right] \cdot 100$  where

$$\text{Cumulative machine average} = \sum \frac{\text{CMA's}^a \text{ for previous 12 months} \\ \text{excluding CMA for current month}}{12}$$

Note C: Machine index (%) =  $\left[ \frac{\text{Current machine average}}{\text{Cumulative FKI average}} \right] \cdot 100$  where

$$\text{Cumulative FKI average} = \sum \frac{\text{CFKIA's}^b \text{ for previous 12 months} \\ \text{excluding CFKIA for current month}}{12}$$

Note D: FKI index (%) =  $\left[ \frac{\text{Current FKI average}}{\text{Cumulative FKI average}} \right] \cdot 100$  where

$$\text{Current FKI average} = \sum \frac{\text{CMA's}^a \text{ for current month} \\ \text{for all machines}}{\text{Number of machines}}$$

<sup>a</sup>CMA = current machine average for a specific physical property of a specific linerboard grade weight obtained during a given month on a specific machine.

<sup>b</sup>CFKIA = current FKI average for a specific physical property of a specific linerboard grade weight obtained during a given month.

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