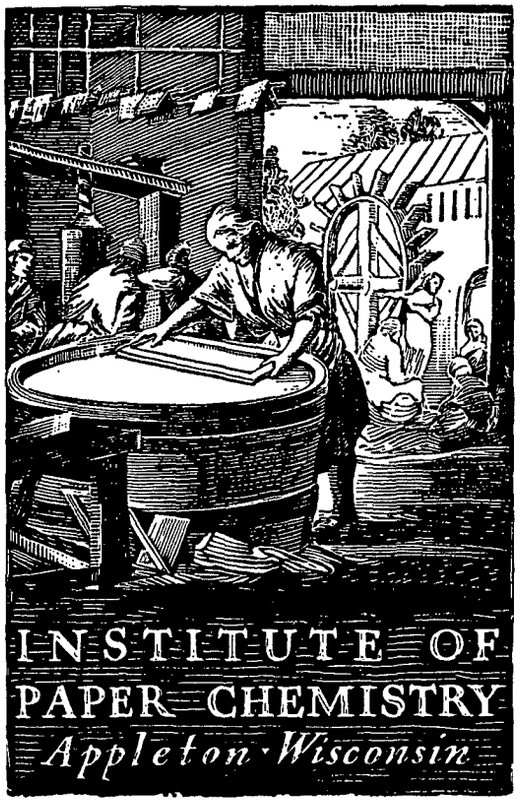
BASE-LINE

MAY-JUNE, 1972



CONTINUOUS BASE-LINE STUDY (MODIFIED)

(MILL LINERBOARD DATA FOR MAY AND JUNE, 1972)

Project 2694-1

Report Thirty-Three

A Progress Report

to

FOURDRINIER KRAFT BOARD INSTITUTE, INC.

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August 25, 1972

THE INSTITUTE OF PAPER CHEMISTRY

Appleton, Wisconsin

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(MILL LINERBOARD DATA FOR MAY AND JUNE, 1972)

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THE INSTITUTE OF PAPER CHEMISTRY

Appleton, Wisconsin

CONTINUOUS BASE-LINE STUDY (MODIFIED)
(MILL LINERBOARD DATA FOR MAY AND JUNE, 1972)

SUMMARY

PART I: SUMMARY OF MOISTURE CONTENT DATA (MARCH-JUNE, 1972)

Linerboard Grade Wt.		Moisture Content March	April	May	June
26 Lb.	Max.[a]	6.1	6.1	6.5	6.0
	Min.[a]	3.2	2.0	3.1	1.0
	Av.[b]	4.6 (17)	4.5 (16)	4.6 (19)	4.6 (19)
33 Lb.	Max.[a]	6.1	6.5	6.5	6.4
	Min.[a]	2.7	2.7	2.9	3.2
	Av.[b]	4.6 (23)	4.6 (20)	4.6 (29)	4.6 (23)
38 Lb.	Max.[a]	6.8	6.7	6.3	6.1
	Min.[a]	3.6	3.1	3.3	3.2
	Av.[b]	4.9 (21)	5.1 (23)	4.8 (25)	4.9 (23)
42 Lb.	Max.[a]	7.2	6.8	6.9	6.7
	Min.[a]	3.8	4.0	3.6	3.9
	Av.[b]	5.2 (34)	5.3 (34)	5.3 (35)	5.4 (37)
69 Lb.	Max.[a]	8.0	7.3	7.6	7.6
	Min.[a]	4.1	3.7	3.9	4.9
	Av.[b]	5.9 (29)	5.8 (28)	5.9 (30)	6.0 (28)
90 Lb.	Max.[a]	8.3	8.0	8.4	7.9
	Min.[a]	3.8	4.2	5.0	3.9
	Av.[b]	6.2 (20)	6.0 (18)	6.2 (19)	6.0 (21)

[a] Current machine average.

[b] Current F.K.I. average, number of machines is indicated in parentheses.

PART II: SUMMARY OF ADJUSTED BASIS WEIGHT DATA (MARCH-JUNE, 1972)

Linerboard Grade Wt.		Adjusted Basis Weight, lb./M ft.^{2} March	April	May	June
26 Lb.	Max.[a]	28.0	27.9	28.0	27.4
	Min.[a]	25.8	26.0	25.9	26.2
	Av.[b]	26.8 (18)	26.8 (16)	26.9 (19)	26.8 (20)
33 Lb.	Max.[a]	34.7	35.0	34.5	34.0
	Min.[a]	32.8	33.0	32.8	32.3
	Av.[b]	33.6 (23)	33.8 (21)	33.6 (30)	33.5 (25)
38 Lb.	Max.[a]	39.7	39.7	40.2	39.8
	Min.[a]	38.1	38.0	37.3	37.8
	Av.[b]	38.7 (22)	38.7 (24)	38.7 (25)	38.6 (24)
42 Lb.	Max.[a]	43.3	43.9	43.8	43.7
	Min.[a]	42.0	41.9	41.8	41.7
	Av.[b]	42.6 (37)	42.7 (36)	42.6 (37)	42.6 (39)
69 Lb.	Max.[a]	70.7	70.9	71.0	70.9
	Min.[a]	68.8	68.5	68.7	68.6
	Av.[b]	69.7 (32)	69.8 (29)	69.8 (32)	69.8 (29)
90 Lb.	Max.[a]	92.6	92.5	92.1	92.2
	Min.[a]	87.7	88.1	88.8	89.3
	Av.[b]	90.8 (22)	90.8 (19)	90.9 (20)	90.8 (22)

[a] Current machine average.

[b] Current F.K.I. average, number of machines is indicated in parentheses.

PART III: SUMMARY OF CALIPER DATA (MARCH-JUNE, 1972)

Linerboard Grade Wt.		Caliper, pt. March	April	May	June
26 Lb.	Max.[a]	8.7	8.5	9.1	9.3
	Min.[a]	7.0	7.0	6.9	7.1
	Av.[b]	7.8 (17)	7.8 (16)	7.9 (19)	7.9 (19)
33 Lb.	Max.[a]	10.8	10.6	10.5	10.6
	Min.[a]	8.4	8.6	8.5	8.9
	Av.[b]	9.6 (24)	9.7 (21)	9.7 (29)	9.7 (23)
38 Lb.	Max.[a]	12.1	11.5	11.8	11.6
	Min.[a]	9.6	10.0	9.6	9.8
	Av.[b]	11.0 (22)	10.9 (23)	10.7 (25)	10.7 (23)
42 Lb.	Max.[a]	13.2	13.7	13.2	13.2
	Min.[a]	11.0	11.1	10.9	10.8
	Av.[b]	12.0 (36)	12.0 (35)	11.9 (36)	11.9 (38)
69 Lb.	Max.[a]	22.3	21.2	21.7	22.0
	Min.[a]	18.3	18.3	17.7	17.9
	Av.[b]	19.6 (31)	19.5 (28)	19.5 (31)	19.6 (28)
90 Lb.	Max.[a]	27.8	27.8	27.6	27.8
	Min.[a]	22.9	22.7	22.8	22.8
	Av.[b]	25.4 (21)	25.1 (18)	25.5 (20)	25.3 (21)

[a] Current machine average.

[b] Current F.K.I. average, number of machines is indicated in parentheses.

PART IV: SUMMARY OF BURSTING STRENGTH DATA (MARCH-JUNE, 1972)

Linerboard Grade Wt.		Bursting Strength, p.s.i.g. March	April	May	June
26 Lb.	Max.[a]	88	86	86	84
	Min.[a]	67	65	64	63
	Av.[b]	74 (18)	75 (16)	73 (20)	72 (20)
33 Lb.	Max.[a]	100	98	104	99
	Min.[a]	79	79	78	80
	Av.[b]	87 (25)	88 (21)	88 (31)	87 (25)
38 Lb.	Max.[a]	111	119	111	116
	Min.[a]	92	90	91	91
	Av.[b]	98 (23)	100 (24)	101 (26)	99 (24)
42 Lb.	Max.[a]	120	121	123	121
	Min.[a]	100	100	101	102
	Av.[b]	107 (37)	107 (36)	108 (37)	108 (39)
69 Lb.	Max.[a]	168	157	160	160
	Min.[a]	134	136	136	136
	Av.[b]	144 (32)	144 (29)	145 (32)	145 (29)
90 Lb.	Max.[a]	216	206	186	198
	Min.[a]	162	161	162	163
	Av.[b]	174 (22)	174 (19)	174 (20)	174 (22)

[a] Current machine average.

[b] 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

MAY, 1972

	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			
CODE	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	5.6	5.3	105.7	127.3	26.2	26.6	98.5	100.8	26.8	27.3	98.2	100.0	8.0	8.3	96.4	102.6	65	69	94.2	89.0
C1		4.8				25.7				26.6				8.4				68		
D1	5.1	4.2	121.4	115.9	26.4	26.1	101.1	101.5	27.2	27.2	100.0	101.5	8.3	8.2	101.2	106.4	78	78	100.0	106.8
G1		2.3				26.3				27.9				8.5				68		
I1	4.5	4.9	91.8	102.3	26.6	25.8	103.1	102.3	27.6	26.6	103.8	103.0	8.2	8.3	98.8	105.1	77	77	100.0	105.5
L1	6.5	5.7	114.0	147.7	26.4	26.3	100.4	101.5	26.5	26.4	100.4	98.9					70	68	102.9	95.9
M1	4.3	3.8	113.2	97.7	25.8	26.0	99.2	99.2	26.8	27.1	98.9	100.0	7.6	7.7	98.7	97.4	71	72	98.6	97.3
N1	4.8	4.7	102.1	109.1	26.5	25.8	102.7	101.9	27.4	26.7	102.6	102.2	8.6	8.5	101.2	110.2	75	72	104.2	102.7
O1		3.4				25.5				26.7				6.8				69		
P1		3.7				26.4				26.6				7.8				79		
Q1	4.5	4.8	93.8	102.3	26.7	26.5	100.8	102.7	27.1	26.9	100.7	101.1	7.6	7.5	101.3	97.4	67	68	98.5	91.8
S1		5.8				26.0				26.6				8.3				78		
T1	4.8	4.2	114.3	109.1	25.8	25.8	100.0	99.2	26.7	26.8	99.6	99.6	7.4	7.2	102.8	94.9	75	70	107.1	102.7
U1		6.4				26.1				26.4				8.0				66		
V1	3.4	3.6	94.4	77.3	25.4	25.9	98.1	97.7	26.6	27.1	98.2	99.2	6.9	7.4	93.2	88.5	64	67	95.5	87.7
X1	3.8	3.0	126.7	86.4	26.8	26.8	100.0	103.1	28.0	28.2	99.3	104.5	8.7	8.2	106.1	111.5	73	72	101.4	100.0
A2	3.6	4.3	83.7	81.8	26.3	26.6	98.9	101.2	26.4	26.8	98.5	98.5	8.3	8.0	103.8	106.4	84	79	106.3	115.1
B2		3.6				25.4				26.6				6.8				72		
C2		3.4				26.1				27.4				8.4				74		
D2	5.9	5.6	105.4	134.1	26.2	26.1	100.4	100.8	26.8	26.7	100.4	100.0	9.1	8.8	103.4	116.7	67	75	89.3	91.8
F2		4.9				26.3				26.4				7.6				67		
G2	3.5	3.5	100.0	79.5	24.9	25.1	99.2	95.8	26.1	26.2	99.6	97.4	7.6	7.6	100.0	97.4	79	78	101.3	108.2
H2	3.1	3.4	91.2	70.4	26.6	26.2	101.5	102.3	28.0	27.5	101.8	104.5	8.3	8.8	94.3	106.4	68	69	98.6	93.2
I2		4.3				26.2				27.2				8.1				84		
J2	4.0			90.9	26.4			101.5	26.5			98.9	6.9			88.5	77			105.5
K2	4.9	4.7	104.2	111.4	25.9	26.0	99.6	99.6	26.7	26.9	99.2	99.6	7.7	7.5	102.7	98.7	67	70	95.7	91.8
M2		5.7				26.8				27.0			7.9	7.1	111.3	101.3	73	74	98.6	100.0
P2	5.4	5.0	108.0	122.7	26.3	26.4	99.6	101.2	27.0	27.2	99.3	100.7	8.1	8.0	101.2	103.8	86	72	119.4	117.8
Q2	4.1	4.2	97.6	93.2	25.4	25.4	100.0	97.7	26.4	26.4	100.0	98.5	7.2	7.1	101.4	92.3	71	74	95.9	97.3
S2		4.5				26.0				27.0				8.4				76		
U2		3.7				26.4				27.3				7.8				78		
V2	6.1	6.1	100.0	138.6	25.4	25.6	99.2	97.7	25.9	26.1	99.2	96.6	7.2	7.6	94.7	92.3	67	71	94.4	91.8
W2		2.4				25.2				26.6				7.6				78		
FKI DATA																				
CUR. AV.	4.6				26.1				26.9				7.9				73			
CUM. AV.	4.4				26.0				26.8				7.8				73			
IND. *D	104.5				100.4				100.4				101.3				100.0			

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

JUNE, 1972

	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			
CODE	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	5.6	5.4	103.7	127.3	26.3	26.5	99.2	101.2	26.9	27.2	98.9	100.4	8.2	8.2	100.0	105.1	67	68	98.5	91.8
C1		4.8				25.7				26.6				8.4				68		
D1	4.5	4.3	104.6	102.3	26.0	26.2	99.2	100.0	26.9	27.2	98.9	100.4	7.8	8.2	95.1	100.0	73	78	93.6	100.0
G1		2.3				26.3				27.9				8.5				68		
I1	4.4	4.8	91.7	100.0	25.8	25.9	99.6	99.2	26.8	26.7	100.4	100.0	7.8	8.3	94.0	100.0	76	77	98.7	104.1
L1	5.9	5.8	101.7	134.1	26.7	26.3	101.5	102.7	26.8	26.4	101.5	100.0					71	69	102.9	97.3
M1	4.5	3.9	115.4	102.3	25.9	26.0	99.6	99.6	26.8	27.1	98.9	100.0	7.7	7.7	100.0	98.7	73	72	101.4	100.0
N1		4.7				26.0				26.8				8.6				73		
O1		3.4				25.5				26.7				6.8				69		
P1		3.8				26.4				26.6				7.8				80		
Q1		4.8				26.5				26.9				7.5				68		
S1		5.8				26.0				26.6				8.3				78		
T1	5.0	4.2	119.0	113.6	25.8	25.8	100.0	99.2	26.6	26.8	99.2	99.2	7.6	7.3	104.1	97.4	72	71	101.4	98.6
U1		6.4				26.1				26.4				8.0				66		
V1	3.1	3.6	86.1	70.4	25.3	25.9	97.7	97.3	26.6	27.1	98.2	99.2	7.1	7.4	95.9	91.0	63	67	94.0	86.3
X1		3.2				26.8				28.1				8.2				72		
A2	3.5	4.2	83.3	79.5	26.2	26.6	98.5	100.8	26.3	26.7	98.5	98.1	8.3	8.1	102.5	106.4	82	80	102.5	112.3
B2		3.6				25.4				26.6				6.8				72		
D2	5.6	5.6	100.0	127.3	26.0	26.1	99.6	100.0	26.6	26.8	99.2	99.2	9.3	8.8	105.7	119.2	67	75	89.3	91.8
G2		3.5				25.0				26.2				7.6				78		
H2	3.2	3.3	97.0	72.7	26.1	26.2	99.6	100.4	27.4	27.5	99.6	102.2	8.2	8.7	94.2	105.1	68	69	98.6	93.2
I2	5.1	4.3	118.6	115.9	26.0	26.2	99.2	100.0	26.8	27.2	98.5	100.0	7.8	8.1	96.3	100.0	84	84	100.0	115.1
J2		4.0				26.4				26.5				6.9				77		
K2	4.8	4.7	102.1	109.1	26.1	26.0	100.4	100.4	26.9	26.9	100.0	100.4	7.6	7.6	100.0	97.4	66	70	94.3	90.4
M2		5.7			27.1	26.8	101.1	104.2	27.2	27.0	100.7	101.5	8.1	7.2	112.5	103.8	74	74	100.0	101.4
P2	5.3	5.0	106.0	120.4	26.5	26.4	100.4	101.9	27.2	27.2	100.0	101.5	8.2	8.0	102.5	105.1	78	74	105.4	106.8
Q2	4.1	4.2	97.6	93.2	25.2	25.4	99.2	96.9	26.2	26.4	99.2	97.8	7.6	7.2	105.6	97.4	70	74	94.6	95.9
S2		4.5				26.1				27.0				8.5				76		
U2	4.6	3.7	124.3	104.5	27.1	26.6	101.9	104.2	27.2	27.5	98.9	101.5	7.9	7.8	101.3	101.3	71	78	91.0	97.3
V2	6.0	6.1	98.4	136.4	25.7	25.6	100.4	98.8	26.2	26.1	100.4	97.8	7.3	7.6	96.0	93.6	69	70	98.6	94.5
W2	1.0	2.4	41.7	22.7	24.5	25.2	97.2	94.2	26.3	26.6	98.9	98.1	7.7	7.6	101.3	98.7	81	78	103.8	111.0
X2	5.4			122.7	26.7			102.7	26.8			100.0	8.7			111.5	68			93.2
B3	5.3			120.4	26.8			103.1	27.2			101.5	7.2			92.3	64			87.7
FKI DATA																				
CUR. AV.	4.6				26.1				26.8				7.9				72			
CUM. AV.	4.4				26.0				26.8				7.8				73			
IND. *D	104.5				100.4				100.0				101.3				98.6			

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

MAY, 1972

	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			
CODE	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	5.6	5.5	101.8	116.7	33.5	33.6	99.7	102.1	34.3	34.4	99.7	101.8	9.6	10.2	94.1	99.0	81	82	98.8	92.0
C1		5.3				32.6				33.4				10.0				84		
D1		4.7				32.9				34.0				9.9				91		
F1	5.8	5.8	100.0	120.8	33.1	33.3	99.4	100.9	33.2	33.4	99.4	98.5					91	90	101.1	103.4
G1		5.0				33.0				34.0				9.9				82		
H1		4.8				32.5				33.6				10.1				89		
I1	5.9	5.2	113.5	122.9	32.3	32.4	99.7	98.5	33.0	33.3	99.1	97.9	9.3	9.5	97.9	95.9	95	96	99.0	108.0
K1		3.6				32.8				34.3				8.9				96		
L1	6.0	5.5	109.1	125.0	33.1	32.8	100.9	100.9	33.2	32.9	100.9	98.5					79	79	100.0	89.8
M1	4.6	4.7	97.9	95.8	32.6	32.9	99.1	99.4	33.7	34.0	99.1	100.0	9.0	9.4	95.7	92.8	86	87	98.8	97.7
N1	4.5	4.8	93.8	93.8	32.7	32.8	99.7	99.7	33.9	33.8	100.3	100.6	10.3	10.3	100.0	106.2	85	83	102.4	96.6
O1	3.0	3.4	88.2	62.5	31.9	32.2	99.1	97.2	33.6	33.7	99.7	99.7	8.7	8.8	98.9	89.7	88	86	102.3	100.0
P1	3.9	4.0	97.5	81.2	33.3	33.4	99.7	101.5	33.6	33.7	99.7	99.7	9.8	9.5	103.2	101.0	90	92	97.8	102.3
Q1		4.8				33.3				33.8				9.6				82		
S1	6.5	6.4	101.6	135.4	33.0	33.1	99.7	100.6	33.5	33.6	99.7	99.4	10.2	10.5	97.1	105.2	97	91	106.6	110.2
T1	4.5	4.1	109.8	93.8	32.8	32.6	100.6	100.0	34.0	33.9	100.3	100.9	9.5	9.4	101.1	97.9	85	84	101.2	96.6
U1	4.2	6.2	67.7	87.5	33.7	32.8	102.7	102.7	33.8	33.3	101.5	100.3	10.0	10.0	100.0	103.1	80	84	95.2	90.9
V1	3.3	3.6	91.7	68.8	32.1	32.7	98.2	97.9	33.7	34.2	98.5	100.0	9.5	9.8	96.9	97.9	78	81	96.3	88.6
X1	4.3	3.9	110.2	89.6	33.0	33.6	98.2	100.6	34.3	35.0	98.0	101.8	10.1	10.4	97.1	104.1	90	88	102.3	102.3
Z1		5.0				33.2				34.2				8.9				94		
A2	3.8	4.1	92.7	79.2	33.2	33.4	99.4	101.2	33.4	33.7	99.1	99.1	10.2	10.0	102.0	105.2	92	93	98.9	104.5
B2		4.5				32.1				33.2				8.4				87		
C2	3.2	3.6	88.9	66.7	31.4	31.9	98.4	95.7	33.0	33.4	98.8	97.9	9.7	10.2	95.1	100.0	82	85	96.5	93.2
D2	6.2			129.2	32.8			100.0	33.4			99.1	10.5			108.2	86			97.7
E2		4.7			33.1	33.8	97.9	100.9	33.4	34.0	98.2	99.1	9.2	9.4	97.9	94.8	88	89	98.9	100.0
F2		5.3				33.4				33.5				9.5				87		
G2	4.0	3.8	105.3	83.3	31.9	31.9	100.0	97.2	33.2	33.3	99.7	98.5	8.5	8.7	97.7	87.6	100	96	104.2	113.6
H2	3.9	4.5	86.7	81.2	32.5	32.4	100.3	99.1	33.9	33.6	100.9	100.6	10.4	10.8	96.3	107.2	84	80	105.0	95.4
I2	4.7	4.8	97.9	97.9	33.4	33.0	101.2	101.8	34.5	34.0	101.5	102.4	9.8	9.7	101.0	101.0	104	98	106.1	118.2
J2	4.1			85.4	33.0			100.6	33.1			98.2	8.9			91.8	88			100.0
K2	4.9	5.0	98.0	102.1	32.8	32.7	100.3	100.0	33.8	33.6	100.6	100.3	10.1	9.7	104.1	104.1	82	84	97.6	93.2
L2	5.0	4.8	104.2	104.2	32.4	32.3	100.3	98.8	33.4	33.4	100.0	99.1	10.4	9.9	105.0	107.2	93	90	103.3	105.7
M2		4.8				34.3				34.5			9.8	9.1	107.7	101.0	87	90	96.7	98.9
P2	5.9	6.0	98.3	122.9	33.1	33.2	99.7	100.9	33.8	33.8	100.0	100.3	9.8	10.0	98.0	101.0	96	86	111.6	109.1
Q2	4.0	5.0	80.0	83.3	32.8	32.1	102.2	100.0	34.1	33.1	103.0	101.2	9.4	9.1	103.3	96.9	83	91	91.2	94.3
R2	4.2	4.3	97.7	87.5	33.8	33.4	101.2	103.0	34.1	33.7	101.2	101.2	9.7	9.4	103.2	100.0	80	84	95.2	90.9
S2		4.6				32.6				33.8				10.4				87		
U2	4.1	4.7	87.2	85.4	33.5	33.2	100.9	102.1	33.6	34.2	98.2	99.7	9.4	9.8	95.9	96.9	93	87	106.9	105.7
V2	6.0	6.1	98.4	125.0	32.2	32.2	100.0	98.2	32.8	32.7	100.3	97.3	9.3	9.6	96.9	95.9	84	82	102.4	95.4
W2	2.9	2.9	100.0	60.4	31.4	31.5	99.7	95.7	33.1	33.2	99.7	98.2	9.7	9.2	105.4	100.0	104	89	116.8	118.2
X2	4.9			102.1	33.1			100.9	33.2			98.5	9.7			100.0	94			106.8
FKI DATA																				
CUR. AV.	4.6				32.8				33.6				9.7				88			
CUM. AV.	4.8				32.8				33.7				9.7				88			
IND. *D	95.8				100.0				99.7				100.0				100.0			

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

JUNE, 1972

	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		
CODE	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	5.9	5.5	107.3	125.5	33.3	33.6	99.1	101.5	34.0	34.4	98.8	100.9	10.4	10.1	103.0	107.2	81	82	98.8	92.0
C1		5.3				32.6				33.4				10.0				84		
D1		4.8				32.9				34.0				9.8				90		
F1	5.6	5.8	96.6	119.1	33.2	33.3	99.7	101.2	33.3	33.4	99.7	98.8					86	90	95.6	97.7
G1		5.0				33.0				34.0				9.9				82		
H1		4.8				32.5				33.6				10.1				89		
I1	4.7	5.3	88.7	100.0	32.1	32.4	99.1	97.9	33.2	33.2	100.0	98.5	9.2	9.4	97.9	94.8	95	96	99.0	108.0
K1		3.6				32.8				34.3				8.9				96		
L1	6.0	5.6	107.1	127.6	32.9	32.9	100.0	100.3	33.0	33.0	100.0	97.9					80	79	101.3	90.9
M1	4.7	4.7	100.0	100.0	32.9	32.9	100.0	100.3	34.0	34.0	100.0	100.9	9.0	9.4	95.7	92.8	87	87	100.0	98.9
N1		4.8				32.8				33.8				10.3				84		
O1	3.2	3.4	94.1	68.1	32.1	32.2	99.7	97.9	33.7	33.7	100.0	100.0	9.0	8.8	102.3	92.8	88	86	102.3	100.0
P1	3.9	4.0	97.5	83.0	33.3	33.4	99.7	101.5	33.6	33.7	99.7	99.7	9.8	9.6	102.1	101.0	89	92	96.7	101.1
Q1		4.8				33.3				33.8				9.6				82		
S1		6.4				33.1				33.6				10.5				92		
T1	4.7	4.2	111.9	100.0	32.8	32.6	100.6	100.0	33.9	33.9	100.0	100.6	9.6	9.4	102.1	99.0	85	84	101.2	96.6
U1	5.1	6.0	85.0	108.5	33.5	32.8	102.1	102.1	33.6	33.3	100.9	99.7	10.3	10.0	103.0	106.2	85	84	101.2	96.6
V1	3.2	3.6	88.9	68.1	31.9	32.7	97.6	97.2	33.5	34.2	98.0	99.4	9.2	9.8	93.9	94.8	80	80	100.0	90.9
X1	3.5	4.0	87.5	74.5	32.4	33.5	96.7	98.8	33.9	34.9	97.1	100.6	10.0	10.4	96.2	103.1	87	88	98.9	98.9
Z1		5.0				33.2				34.2				8.9				94		
A2	3.9	4.0	97.5	83.0	33.3	33.4	99.7	101.5	33.5	33.6	99.7	99.4	10.1	10.1	100.0	104.1	90	93	96.8	102.3
B2		4.5				32.1				33.2				8.4				87		
C2		3.4				31.7				33.2				10.1				83		
D2		6.2				32.8				33.4				10.5				86		
E2		4.7			33.2	33.7	98.5	101.2	33.5	33.9	98.8	99.4	9.6	9.4	102.1	99.0	86	89	96.6	97.7
F2		5.3				33.4				33.5				9.5				87		
G2	4.3	3.8	113.2	91.5	31.9	31.9	100.0	97.2	33.1	33.3	99.4	98.2	8.9	8.7	102.3	91.8	93	96	96.9	105.7
H2	4.0	4.4	90.9	85.1	32.5	32.4	100.3	99.1	33.8	33.6	100.6	100.3	10.4	10.8	96.3	107.2	81	81	100.0	92.0
I2	5.4	4.7	114.9	114.9	33.1	33.0	100.3	100.9	34.0	34.1	99.7	100.9	9.5	9.6	99.0	97.9	99	98	101.0	112.5
J2		4.1				33.0				33.1				8.9				88		
K2	4.7	5.0	94.0	100.0	32.5	32.7	99.4	99.1	33.6	33.6	100.0	99.7	9.6	9.7	99.0	99.0	82	84	97.6	93.2
L2	4.6	4.8	95.8	97.9	33.4	32.3	103.4	101.8	33.5	33.4	100.3	99.4	10.0	10.0	100.0	103.1	90	91	98.9	102.3
M2		4.8			33.1	34.3	96.5	100.9	33.4	34.5	96.8	99.1	9.8	9.2	106.5	101.0	87	89	97.8	98.9
P2	6.4	6.0	106.7	136.2	33.1	33.2	99.7	100.9	33.6	33.8	99.4	99.7	10.2	10.0	102.0	105.2	88	87	101.1	100.0
Q2		4.5				32.4				33.6				9.2				87		
R2	4.0	4.3	93.0	85.1	33.3	33.4	99.7	101.5	33.6	33.8	99.4	99.7	9.3	9.5	97.9	95.9	82	84	97.6	93.2
S2		4.6				32.7				33.8				10.4				87		
U2	4.5	4.7	95.7	95.7	33.7	33.4	100.9	102.7	33.8	34.2	98.8	100.3	9.4	9.8	95.9	96.9	96	88	109.1	109.1
V2	6.3	6.1	103.3	134.0	31.8	32.2	98.8	97.0	32.3	32.8	98.5	95.8	9.1	9.5	95.8	93.8	85	82	103.6	96.6
W2	3.2	2.9	110.3	68.1	31.6	31.5	100.3	96.3	33.2	33.2	100.0	98.5	9.9	9.3	106.4	102.1	90	90	100.0	102.3
X2	4.7	4.9	95.9	100.0	33.8	33.1	102.1	103.0	33.9	33.2	102.1	100.6	10.6	9.7	109.3	109.3	89	94	94.7	101.1
FKI DATA																				
CUR. AV.	4.6				32.8				33.5				9.7				87			
CUM. AV.	4.7				32.8				33.7				9.7				88			
IND. *D	97.9				100.0				99.4				100.0				98.9			

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

MAY, 1972

	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			
CODE	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
C1		5.0				37.4				38.5				11.4				95		
D1	5.8	5.2	111.5	113.7	38.2	38.4	99.5	101.0	39.0	39.5	98.7	100.5	11.0	11.3	97.3	100.9	102	99	103.0	103.0
F1	5.5	5.7	96.5	107.8	38.3	38.1	100.5	101.3	38.4	38.2	100.5	99.0					103	99	104.0	104.0
H1		4.1				37.0				38.6				11.8				96		
I1	5.8	5.4	101.8	107.8	37.4	37.2	100.5	98.9	38.3	38.2	100.3	98.7	10.7	10.5	101.9	98.2	107	108	99.1	108.1
K1	5.6	5.5	101.8	109.8	38.0	38.0	100.0	100.5	38.9	38.9	100.0	100.2	11.2	11.2	100.0	102.8	98	100	98.0	99.0
M1	5.4	5.5	98.2	105.9	37.7	38.0	99.2	99.7	38.7	38.9	99.5	99.7	10.3	10.6	97.2	94.5	100	98	102.0	101.0
O1	3.3	4.3	76.7	64.7	37.1	37.3	99.5	98.1	38.9	38.8	100.2	100.2	10.2	10.3	99.0	93.6	98	98	100.0	99.0
P1	4.7	4.7	100.0	92.2	38.4	38.4	100.0	101.6	38.7	38.7	100.0	99.7	11.8	11.3	104.4	108.2	96	100	96.0	97.0
S1		7.1				38.0				38.3				11.4				96		
T1	4.6	4.3	107.0	90.2	37.6	37.5	100.3	99.5	38.9	38.9	100.0	100.2	11.2	11.1	100.9	102.8	95	94	101.1	96.0
U1	5.0	6.2	80.6	98.0	38.6	38.0	101.6	102.1	38.7	38.6	100.2	99.7	10.0	11.0	90.9	91.7	98	97	101.0	99.0
V1	4.5	5.2	86.5	88.2	37.8	37.9	99.7	100.0	39.2	39.0	100.5	101.0	10.6	10.9	97.2	97.2	91	91	100.0	91.9
W1		4.3				37.8				39.2				10.3				109		
Y1		5.9				38.2				39.0				11.0				103		
Z1		5.4				37.7				38.7				11.0				97		
A2	4.0	4.1	97.6	78.4	38.3	38.4	99.7	101.3	38.5	38.7	99.5	99.2	10.9	11.3	96.5	100.0	102	102	100.0	103.0
B2	6.3	5.4	116.7	123.5	37.4	37.3	100.3	98.9	38.0	38.3	99.2	97.9	9.9	9.8	101.0	90.8	107	99	108.1	108.1
C2	3.6	4.4	81.8	70.6	37.1	37.6	98.7	98.1	38.8	38.9	99.7	100.0	11.4	11.7	97.4	104.6	100	95	105.3	101.0
E2		4.7				38.7				39.0				10.9				99		
F2	5.5	5.2	105.8	107.8	38.5	38.7	99.5	101.8	38.6	38.8	99.5	99.5	11.7	11.0	106.4	107.3	96	97	99.0	97.0
G2	4.2	4.0	105.0	82.4	36.9	36.9	100.0	97.6	38.3	38.4	99.7	98.7	10.2	10.1	101.0	93.6	110	105	104.8	111.1
H2	5.2	5.4	96.3	102.0	37.2	37.6	98.9	98.4	38.2	38.6	99.0	98.4	11.5	12.2	94.3	105.5	93	93	100.0	93.9
I2	5.6	5.2	107.7	109.8	38.3	38.2	100.3	101.3	39.2	39.3	99.7	101.0	10.4	10.1	103.0	95.4	111	111	100.0	112.1
J2	4.0			78.4	37.2			98.4	37.3			96.1	9.6			88.1	106			107.1
K2	4.5	4.7	95.7	88.2	37.3	37.6	99.2	98.7	38.6	38.9	99.2	99.5	11.3	11.2	100.9	103.7	92	93	98.9	92.9
L2	5.3	5.0	106.0	103.9	37.3	37.3	100.0	98.7	38.3	38.4	99.7	98.7	11.2	10.9	102.8	102.8	108	99	109.1	109.1
M2						38.6				38.9			10.6	10.1	105.0	97.2	100	101	99.0	101.0
N2	5.2	4.9	106.1	102.0	38.2	38.5	99.2	101.0	39.3	39.7	99.0	101.3	10.1	10.3	98.0	92.7	96	94	102.1	97.0
O2		5.7				37.5				38.4				10.6				106		
P2		6.4				38.1				38.7				11.4				94		
R2		3.8				38.3				38.6				11.0				92		
S2	5.1	4.7	108.5	100.0	37.7	37.4	100.8	99.7	38.8	38.7	100.2	100.0	10.2	10.9	93.6	93.6	99	98	101.0	100.0
T2	5.3	5.8	91.4	103.9	39.1	39.3	99.5	103.4	40.2	40.2	100.0	103.6	10.4	11.3	92.0	95.4	101	106	95.3	102.0
U2	4.2	4.3	97.7	82.4	38.4	38.2	100.5	101.6	38.5	39.4	97.7	99.2	10.6	10.7	99.1	97.2	106	101	105.0	107.1
W2	3.3	3.2	103.1	64.7	36.4	36.5	99.7	96.3	38.2	38.3	99.7	98.4	11.0	10.7	102.8	100.9	107	97	110.3	108.1
Y2		4.6				38.0				39.3				10.4				102		
A3		5.1				37.4				38.5				11.1				106		

FKI DATA				
CUR. AV.	4.8	37.8	38.7	10.7	101
CUM. AV.	5.1	37.8	38.8	10.9	99
IND. *D	94.1	100.0	99.7	98.2	102.0

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

JUNE, 1972

	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			
CODE	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
C1		5.0				37.4				38.5				11.4				95		
D1	6.1	5.3	115.1	122.0	38.3	38.4	99.7	101.3	39.0	39.4	99.0	100.5	10.4	11.3	92.0	95.4	91	100	91.0	91.9
F1	5.8	5.7	101.8	116.0	37.9	38.1	99.5	100.3	38.0	38.2	99.5	97.9					98	99	99.0	99.0
H1		4.1				37.0				38.6				11.8				96		
I1	4.9	5.4	90.7	98.0	36.7	37.2	98.6	97.1	37.8	38.2	99.0	97.4	10.6	10.6	100.0	97.2	105	108	97.2	106.1
K1	5.6	5.4	103.7	112.0	37.6	38.0	98.9	99.5	38.5	38.9	99.0	99.2	11.3	11.2	100.9	103.7	96	100	96.0	97.0
M1		5.5				38.0				39.0				10.6				99		
O1	3.6	4.2	85.7	72.0	36.6	37.3	98.1	96.8	38.3	38.8	98.7	98.7	10.0	10.2	98.0	91.7	100	98	102.0	101.0
P1	4.6	4.7	97.9	92.0	38.3	38.4	99.7	101.3	38.6	38.7	99.7	99.5	11.6	11.3	102.6	106.4	97	99	98.0	98.0
T1	4.9	4.3	114.0	98.0	37.6	37.5	100.3	99.5	38.8	38.9	99.7	100.0	11.2	11.1	100.9	102.8	94	94	100.0	94.9
U1	5.5	6.0	91.7	110.0	38.3	38.1	100.5	101.3	38.4	38.6	99.5	99.0	10.5	10.9	96.3	96.3	100	97	103.1	101.0
V1	4.2	5.2	80.8	84.0	37.9	37.9	100.0	100.3	39.4	39.0	101.0	101.5	10.4	10.9	95.4	95.4	91	91	100.0	91.9
W1		4.3				37.8				39.2				10.3				109		
Y1		5.9				38.2				39.0				11.0				103		
Z1	5.1	5.4	94.4	102.0	38.7	37.7	102.6	102.4	39.8	38.7	102.8	102.6	10.0	11.0	90.9	91.7	98	97	101.0	99.0
A2	4.0	4.1	97.6	80.0	38.3	38.4	99.7	101.3	38.5	38.7	99.5	99.2	10.8	11.3	95.6	99.1	104	101	103.0	105.0
B2		5.6				37.3				38.2				9.8				101		
C2	3.8	4.4	86.4	76.0	37.3	37.5	99.5	98.7	38.9	38.9	100.0	100.2	11.6	11.7	99.1	106.4	95	95	100.0	96.0
E2		4.7				38.7				39.0				10.9				99		
F2	5.5	5.3	103.8	110.0	38.7	38.7	100.0	102.4	38.8	38.8	100.0	100.0	11.6	11.0	105.4	106.4	95	96	99.0	96.0
G2	4.1	4.0	102.5	82.0	36.7	36.9	99.4	97.1	38.2	38.4	99.5	98.4	9.8	10.0	98.0	89.9	109	106	102.8	110.1
H2	5.2	5.4	96.3	104.0	37.5	37.6	99.7	99.2	38.6	38.5	100.2	99.5	10.9	12.1	90.1	100.0	95	93	102.2	96.0
I2	5.9	5.2	113.5	118.0	38.0	38.2	99.5	100.5	38.8	39.3	98.7	100.0	10.1	10.1	100.0	92.7	111	111	100.0	112.1
J2	4.9	4.0	122.5	98.0	38.3	37.2	103.0	101.3	38.4	37.3	102.9	99.0	10.4	9.6	108.3	95.4	100	106	94.3	101.0
K2	4.5	4.7	95.7	90.0	37.5	37.6	99.7	99.2	38.8	38.8	100.0	100.0	11.3	11.2	100.9	103.7	92	93	98.9	92.9
L2	4.7	5.1	92.2	94.0	38.2	37.3	102.4	101.0	38.3	38.4	99.7	98.7	11.0	10.9	100.9	100.9	102	100	102.0	103.0
M2					38.0	38.6	98.4	100.5	38.4	38.9	98.7	99.0	10.8	10.2	105.9	99.1	99	100	99.0	100.0
N2	4.8	5.0	96.0	96.0	38.3	38.5	99.5	101.3	39.6	39.7	99.7	102.1	10.3	10.3	100.0	94.5	95	94	101.1	96.0
O2	5.9	5.7	103.5	118.0	37.0	37.5	98.7	97.9	37.8	38.4	98.4	97.4	9.8	10.5	93.3	89.9	116	106	109.4	117.2
P2		6.4				38.2				38.7				11.4				94		
R2		3.8				38.3				38.6				11.0				92		
S2	5.0	4.8	104.2	100.0	37.8	37.5	100.8	100.0	38.9	38.7	100.5	100.2	10.6	10.8	98.1	97.2	96	98	98.0	97.0
T2		5.4				39.3				40.3				10.8				105		
U2		4.3				38.3				39.4				10.7				102		
W2	3.2	3.3	97.0	64.0	36.4	36.5	99.7	96.3	38.2	38.3	99.7	98.4	11.5	10.8	106.5	105.5	93	99	93.9	93.9
Y2		4.5				38.0				39.4				10.4				101		
A3		5.1				37.4				38.5				11.1				106		

FKI DATA

CUR. AV.	4.9	37.7	38.6	10.7	99
CUM. AV.	5.0	37.8	38.8	10.9	99
IND. *D	98.0	99.7	99.5	98.2	100.0

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

MAY, 1972

	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		
CODE	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		4.8				41.4				42.8				12.8				117		
B1	5.9	5.9	100.0	113.5	42.6	42.6	100.0	101.9	43.5	43.4	100.2	101.6	11.9	12.2	97.5	100.0	111	105	105.7	103.7
D1	6.1	5.7	107.0	117.3	41.8	41.8	100.0	100.0	42.6	42.8	99.5	99.5	12.0	12.2	98.4	100.8	107	107	100.0	100.0
E1	5.3	4.7	112.8	101.9	41.5	41.7	99.5	99.3	42.6	43.1	98.8	99.5	11.7	11.4	102.6	98.3	109	109	100.0	101.9
F1	5.7	5.6	101.8	109.6	42.3	42.1	100.5	101.2	42.4	42.3	100.2	99.1					104	106	98.1	97.2
G1	5.2	5.5	94.5	100.0	41.6	42.1	98.8	99.5	42.8	43.2	99.1	100.0	13.0	12.9	100.8	109.2	106	108	98.1	99.1
H1		4.2				42.4				44.1				12.8				109		
I1	5.6	5.2	107.7	107.7	40.9	41.1	99.5	97.8	41.9	42.2	99.3	97.9	11.9	11.6	102.6	100.0	109	114	95.6	101.9
J1		4.9				41.4				42.7				12.1				107		
K1	5.6	5.6	100.0	107.7	41.8	41.9	99.8	100.0	42.8	42.9	99.8	100.0	12.4	12.3	100.8	104.2	105	108	97.2	98.1
M1		5.8				41.8				42.7				11.6				106		
N1	4.8	4.6	104.3	92.3	41.6	41.8	99.5	99.5	43.0	43.3	99.3	100.5	13.2	13.1	100.8	110.9	107	109	98.2	100.0
O1	3.6	4.4	81.8	69.2	41.1	41.3	99.5	98.3	43.0	42.8	100.5	100.5	10.9	11.5	94.8	91.6	110	109	100.9	102.8
P1	4.8	5.0	96.0	92.3	42.4	42.4	100.0	101.4	42.8	42.8	100.0	100.0	12.4	12.2	101.6	104.2	104	105	99.0	97.2
R1	5.7	6.0	95.0	109.6	40.9	41.7	98.1	97.8	41.8	42.5	98.4	97.7	11.6	11.4	101.8	97.5	104	111	93.7	97.2
S1		6.7				42.1				42.6				11.8				108		
T1	4.7	4.3	109.3	90.4	41.5	41.4	100.2	99.3	42.9	43.0	99.8	100.2	12.4	12.2	101.6	104.2	103	103	100.0	96.3
U1	5.7	6.2	91.9	109.6	42.3	41.8	101.2	101.2	42.4	42.4	100.0	99.1	12.0	12.0	100.0	100.8	105	105	100.0	98.1
V1	5.0	5.1	98.0	96.2	41.5	41.6	99.8	99.3	42.7	42.8	99.8	99.8	11.4	12.0	95.0	95.8	103	104	99.0	96.3
W1	4.8	4.6	104.3	92.3	41.7	41.6	100.2	99.8	43.1	43.1	100.0	100.7	11.3	11.3	100.0	95.0	114	111	102.7	106.5
X1	5.6	5.4	103.7	107.7	41.8	42.3	98.8	100.0	42.8	43.4	98.6	100.0	12.9	12.9	100.0	108.4	107	107	100.0	100.0
Y1	6.3	6.2	101.6	121.2	41.9	41.8	100.2	100.2	42.6	42.6	100.0	99.5	12.0	12.0	100.0	100.8	108	107	100.9	100.9
Z1	5.5	5.4	101.8	105.8	41.7	41.6	100.2	99.8	42.7	42.7	100.0	99.8	12.1	12.0	100.8	101.7	103	103	100.0	96.3
A2	4.5	4.6	97.8	86.5	42.2	42.3	99.8	101.0	42.4	42.6	99.5	99.1	12.2	12.3	99.2	102.5	109	109	100.0	101.9
B2	6.1	4.9	124.5	117.3	41.5	41.2	100.7	99.3	42.2	42.4	99.5	98.6	11.2	10.8	103.7	94.1	110	108	101.8	102.8
C2	6.1	5.0	122.0	117.3	41.1	41.6	98.8	98.3	41.8	42.8	97.7	97.7	12.6	12.7	99.2	105.9	104	104	100.0	97.2
E2		5.2			41.9	42.5	98.6	100.2	42.3	42.8	98.8	98.8	11.8	12.1	97.5	99.2	108	108	100.0	100.9
F2	6.2	5.8	106.9	119.2	42.2	42.3	99.8	101.0	42.3	42.4	99.8	98.8	12.3	12.1	101.6	103.4	102	102	100.0	95.3
G2	4.2	4.2	100.0	80.8	40.5	40.7	99.5	96.9	42.1	42.3	99.5	98.4	11.2	11.2	100.0	94.1	110	112	98.2	102.8
H2	5.1	5.5	92.7	98.1	41.9	41.4	101.2	100.2	43.1	42.4	101.6	100.7	12.0	13.0	92.3	100.8	104	101	103.0	97.2
I2	5.6	5.6	100.0	107.7	41.9	42.2	99.3	100.2	42.9	43.2	99.3	100.2	11.0	11.1	99.1	92.4	121	119	101.7	113.1
J2	4.5			86.5	42.2			101.0	42.3			98.8	11.5			96.6	107			100.0
L2	5.3	5.3	100.0	101.9	41.2	41.3	99.8	98.6	42.3	42.5	99.5	98.8	12.6	12.1	104.1	105.9	108	107	100.9	100.9
M2		4.8			41.9	42.6	98.4	100.2	42.1	42.8	98.4	98.4	11.8	11.3	104.4	99.2	111	110	100.9	103.7
N2	6.1	5.9	103.4	117.3	42.1	42.2	99.8	100.7	42.9	43.1	99.5	100.2	11.0	11.2	98.2	92.4	105	105	100.0	98.1
O2	6.1	6.0	101.7	117.3	41.2	41.3	99.8	98.6	41.9	42.1	99.5	97.9	11.3	12.0	94.2	95.0	123	110	111.8	115.0
P2	6.9	6.9	100.0	132.7	42.0	42.2	99.5	100.5	42.4	42.6	99.5	99.1	12.3	12.6	97.6	103.4	104	103	101.0	97.2
R2	4.4	4.5	97.8	84.6	42.6	42.6	100.0	101.9	43.0	43.0	100.0	100.5	12.4	11.6	106.9	104.2	101	102	99.0	94.4
S2	4.7	4.9	95.9	90.4	41.4	41.4	100.0	99.0	42.8	42.7	100.2	100.0	12.0	11.6	103.4	100.8	105	106	99.0	98.1
T2	5.6	6.0	93.3	107.7	42.8	42.9	99.8	102.4	43.8	43.7	100.2	102.3	11.8	12.2	96.7	99.2	106	108	98.1	99.1
U2		4.4				42.2				43.4				12.1				110		
W2	4.2	3.9	107.7	80.8	40.7	40.6	100.2	97.4	42.3	42.3	100.0	98.8	12.2	11.9	102.5	102.5	114	106	107.5	106.5
Y2	4.7	4.8	97.9	90.4	41.4	41.4	100.0	99.0	42.8	42.8	100.0	100.0	11.4	11.4	100.0	95.8	108	108	100.0	100.9
Z2		4.9				41.4				42.8				12.7				118		
A3		5.2				41.2				42.4				12.1				109		
FKI DATA																				
CUR. AV.	5.3				41.7				42.6				11.9				108			
CUM. AV.	5.2				41.8				42.8				11.9				107			
IND. *D	101.9				99.8				99.5				100.0				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

JUNE, 1972

	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			
CODE	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		4.8				41.4				42.8				12.8				117		
B1	6.4	5.8	110.3	123.1	42.5	42.6	99.8	101.7	43.1	43.5	99.1	100.9	12.2	12.2	100.0	102.5	103	106	97.2	96.3
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	11.8	12.2	96.7	99.2	106	107	99.1	99.1
E1	5.4	4.8	112.5	103.8	41.3	41.6	99.3	98.8	42.4	43.0	98.6	99.3	11.4	11.5	99.1	95.8	108	109	99.1	100.9
F1	5.6	5.6	100.0	107.7	42.2	42.2	100.0	101.0	42.3	42.3	100.0	99.1					105	105	100.0	98.1
G1	6.2	5.4	114.8	119.2	42.3	42.0	100.7	101.2	43.0	43.1	99.8	100.7	12.3	12.9	95.3	103.4	107	108	99.1	100.0
H1		4.2				42.4				44.1				12.8				109		
I1	5.0	5.2	96.2	96.2	40.9	41.0	99.8	97.8	42.1	42.2	99.8	98.6	11.5	11.7	98.3	96.6	120	113	106.2	112.1
J1	5.3	5.0	106.0	101.9	41.4	41.3	100.2	99.0	42.5	42.6	99.8	99.5	11.7	12.1	96.7	98.3	118	106	111.3	110.3
K1	5.7	5.5	103.6	109.6	41.6	41.9	99.3	99.5	42.6	42.9	99.3	99.8	12.1	12.4	97.6	101.7	103	108	95.4	96.3
M1	5.7	5.8	98.3	109.6	41.7	41.8	99.8	99.8	42.7	42.7	100.0	100.0	11.1	11.6	95.7	93.3	104	106	98.1	97.2
N1	4.6	4.7	97.9	88.5	41.7	41.8	99.8	99.8	43.2	43.2	100.0	101.2	13.2	13.2	100.0	110.9	107	108	99.1	100.0
O1	3.9	4.3	90.7	75.0	41.0	41.3	99.3	98.1	42.7	42.8	99.8	100.0	11.2	11.5	97.4	94.1	107	109	98.2	100.0
P1	4.7	4.9	95.9	90.4	42.5	42.4	100.2	101.7	42.9	42.8	100.2	100.5	12.6	12.3	102.4	105.9	103	105	98.1	96.3
R1		5.9				41.6				42.5				11.4				110		
S1	6.7	6.7	100.0	128.8	42.1	42.1	100.0	100.7	42.6	42.6	100.0	99.8	12.0	11.8	101.7	100.8	107	108	99.1	100.0
T1	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	12.2	102.4	105.0	103	103	100.0	96.3
U1	5.5	6.2	88.7	105.8	42.3	41.9	101.0	101.2	42.4	42.4	100.0	99.3	11.9	12.0	99.2	100.0	106	105	101.0	99.1
V1	4.7	5.2	90.4	90.4	41.5	41.6	99.8	99.3	42.9	42.8	100.2	100.5	11.6	11.9	97.5	97.5	103	104	99.0	96.3
W1	4.6	4.6	100.0	88.5	41.7	41.6	100.2	99.8	43.2	43.1	100.2	101.2	10.8	11.3	95.6	90.8	115	111	103.6	107.5
X1	5.3	5.4	98.1	101.9	41.5	42.2	98.3	99.3	42.6	43.3	98.4	99.8	12.7	12.9	98.4	106.7	105	107	98.1	98.1
Y1	6.5	6.2	104.8	125.0	41.6	41.8	99.5	99.5	42.2	42.6	99.1	98.8	12.1	12.0	100.8	101.7	106	107	99.1	99.1
Z1	5.4	5.4	100.0	103.8	41.9	41.6	100.7	100.2	43.0	42.7	100.7	100.7	12.3	12.0	102.5	103.4	105	103	101.9	98.1
A2	4.6	4.6	100.0	88.5	42.2	42.2	100.0	101.0	42.4	42.6	99.5	99.3	12.2	12.3	99.2	102.5	108	108	100.0	100.9
B2	5.6	5.0	112.0	107.7	41.5	41.2	100.7	99.3	42.5	42.4	100.2	99.5	11.7	10.8	108.3	98.3	108	108	100.0	100.9
C2	4.0	5.1	78.4	76.9	41.2	41.5	99.3	98.6	42.9	42.7	100.5	100.5	12.7	12.7	100.0	106.7	105	104	101.0	98.1
E2		5.2			42.0	42.4	99.0	100.5	42.3	42.8	98.8	99.1	11.7	12.0	97.5	98.3	107	108	99.1	100.0
F2	5.8	5.8	100.0	111.5	42.4	42.3	100.2	101.4	42.5	42.4	100.2	99.5	11.7	12.1	96.7	98.3	105	102	102.9	98.1
G2	4.2	4.2	100.0	80.8	40.5	40.6	99.8	96.9	42.1	42.2	99.8	98.6	11.1	11.2	99.1	93.3	112	112	100.0	104.7
H2	5.6	5.4	103.7	107.7	41.7	41.4	100.7	99.8	42.7	42.5	100.5	100.0	12.3	12.9	95.3	103.4	103	102	101.0	96.3
I2	6.2	5.6	110.7	119.2	42.1	42.2	99.8	100.7	42.8	43.2	99.1	100.2	11.1	11.0	100.9	93.3	119	119	100.0	111.2
J2	5.0	4.5	111.1	96.2	41.9	42.2	99.3	100.2	42.0	42.3	99.3	98.4	11.6	11.5	100.9	97.5	111	107	103.7	103.7
L2	5.1	5.3	96.2	98.1	42.2	41.3	102.2	101.0	42.3	42.4	99.8	99.1	12.6	12.1	104.1	105.9	107	107	100.0	100.0
M2		4.8			42.0	42.5	98.8	100.5	42.4	42.8	99.1	99.3	11.8	11.3	104.4	99.2	112	110	101.8	104.7
N2	6.2	6.0	103.3	119.2	42.4	42.2	100.5	101.4	43.1	43.0	100.2	100.9	11.3	11.2	100.9	95.0	105	105	100.0	98.1
O2	6.3	6.0	105.0	121.2	41.0	41.3	99.3	98.1	41.7	42.1	99.0	97.6	11.2	12.0	93.3	94.1	121	111	109.0	113.1
P2	6.7	6.9	97.1	128.8	42.0	42.2	99.5	100.5	42.5	42.6	99.8	99.5	12.6	12.5	100.8	105.9	105	103	101.9	98.1
R2	5.0	4.4	113.6	96.2	42.6	42.7	99.8	101.9	43.0	43.1	99.8	100.7	12.5	11.7	106.8	105.0	102	102	100.0	95.3
S2	5.2	4.9	106.1	100.0	41.8	41.4	101.0	100.0	43.0	42.7	100.7	100.7	11.6	11.6	100.0	97.5	105	106	99.0	98.1
T2	5.9	5.9	100.0	113.5	42.8	42.9	99.8	102.4	43.7	43.8	99.8	102.3	11.8	12.1	97.5	99.2	108	107	100.9	100.9
U2		4.5				42.3				43.5				12.1				110		
W2		4.0				40.6				42.3				12.0				107		
Y2	4.5	4.8	93.8	86.5	41.3	41.4	99.8	98.8	42.8	42.8	100.0	100.2	11.5	11.4	100.9	96.6	106	108	98.1	99.1
Z2	5.6	4.9	114.3	107.7	41.3	41.4	99.8	98.8	42.3	42.7	99.1	99.1	12.6	12.8	98.4	105.9	117	118	99.2	109.3
A3		5.2				41.2				42.4				12.2				109		
FKI DATA																				
CUR. AV.	5.4				41.8				42.6				11.9				108			
CUM. AV.	5.2				41.8				42.7				11.9				107			
IND. *D	103.8				100.0				99.8				100.0				100.9			

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

MAY, 1972

	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			
CODE	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	5.9	4.9	120.4	101.7	68.1	68.1	100.0	99.1	69.5	70.3	98.9	99.4	19.6	20.4	96.1	100.0	143	144	99.3	99.3
B1	6.9			119.0	70.0			101.9	70.7			101.1	18.7			95.4	145			100.7
D1	6.0	6.1	98.4	103.4	68.3	68.9	99.1	99.4	69.7	70.2	99.3	99.7	19.1	19.6	97.4	97.4	148	148	100.0	102.8
E1	5.7	5.4	105.6	98.3	68.5	68.6	99.8	99.7	70.1	70.4	99.6	100.3	19.8	19.4	102.1	101.0	136	140	97.1	94.4
F1	5.9	6.1	96.7	101.7	69.1	68.9	100.3	100.6	69.3	69.1	100.3	99.1					146	148	98.6	101.4
G1	6.0	5.6	107.1	103.4	68.3	68.8	99.3	99.4	69.7	70.5	98.9	99.7	20.1	20.7	97.1	102.6	143	139	102.9	99.3
J1	6.5	6.8	95.6	112.1	69.2	69.5	99.6	100.7	70.2	70.3	99.8	100.4	18.7	19.3	96.9	95.4	150	144	104.2	104.2
K1	6.4	6.2	103.2	110.3	68.8	69.0	99.7	100.1	69.8	70.2	99.4	99.8	19.7	20.0	98.5	100.5	138	139	99.3	95.8
N1	4.9	5.3	92.4	84.5	67.6	68.3	99.0	98.4	69.7	70.1	99.4	99.7	21.7	22.4	96.9	110.7	139	145	95.9	96.5
P1	5.5	5.4	101.8	94.8	69.7	69.6	100.1	101.4	70.3	70.2	100.1	100.6	19.6	19.6	100.0	100.0	140	141	99.3	97.2
R1	6.6	6.3	104.8	113.8	68.1	68.6	99.3	99.1	69.0	69.7	99.0	98.7	18.9	19.4	97.4	96.4	141	141	100.0	97.9
S1		7.4				69.6				69.8				19.4				144		
U1	6.7	6.8	98.5	115.5	69.4	68.6	101.2	101.0	69.6	69.3	100.4	99.6	19.0	19.5	97.4	96.9	150	147	102.0	104.2
V1		5.1				67.8				69.8				20.8				145		
W1	5.2	4.8	108.3	89.6	68.2	68.0	100.3	99.3	70.1	70.3	99.7	100.3	19.5	19.8	98.5	99.5	144	144	100.0	100.0
Y1	7.6	7.1	107.0	131.0	68.6	68.7	99.8	99.8	68.7	69.2	99.3	98.3	20.4	20.0	102.0	104.1	149	147	101.4	103.5
Z1	6.0	6.3	95.2	103.4	68.0	67.8	100.3	99.0	69.4	68.8	100.9	99.3	20.6	20.1	102.5	105.1	136	134	101.5	94.4
A2	5.6	4.6	121.7	96.6	69.2	69.2	100.0	100.7	69.5	69.7	99.7	99.4	21.1	21.2	99.5	107.6	146	148	98.6	101.4
B2	5.8	4.8	120.8	100.0	67.9	67.8	100.1	98.8	69.4	70.1	99.0	99.3	19.5	18.2	107.1	99.5	149	147	101.4	103.5
C2	5.2	5.3	98.1	89.6	68.2	68.3	99.8	99.3	70.1	70.1	100.0	100.3	20.5	20.6	99.5	104.6	142	140	101.4	98.6
E2		5.2			69.1	69.9	98.8	100.6	69.6	70.3	99.0	99.6	19.5	19.6	99.5	99.5	145	146	99.3	100.7
F2		6.2				69.3				69.5				20.6				140		
G2	3.9	3.9	100.0	67.2	66.1	66.8	99.0	96.2	68.9	69.6	99.0	98.6	17.7	18.2	97.2	90.3	160	152	105.3	111.1
I2	6.0	6.2	96.8	103.4	69.0	69.1	99.8	100.4	70.4	70.3	100.1	100.7	19.6	19.0	103.2	100.0	156	153	102.0	108.3
J2	4.9			84.5	69.6			101.3	69.8			99.8	18.6			94.9	144			100.0
L2		6.2				68.5				69.7				19.6				146		
M2		4.7			68.8	69.9	98.4	100.1	69.4	70.3	98.7	99.3	20.3	19.0	106.8	103.6	147	148	99.3	102.1
N2	7.5	6.9	108.7	129.3	68.8	69.4	99.1	100.1	69.0	70.1	98.4	98.7	18.4	18.6	98.9	93.9	144	143	100.7	100.0
P2	7.1	7.7	92.2	122.4	69.6	69.6	100.0	101.3	70.2	69.6	100.9	100.4	20.7	20.9	99.0	105.6	143	142	100.7	99.3
R2	5.0	5.7	87.7	86.2	69.9	69.6	100.4	101.7	70.5	70.2	100.4	100.8	18.9	19.0	99.5	96.4	141	141	100.0	97.9
S2	5.7	5.7	100.0	98.3	68.2	68.1	100.1	99.3	69.8	69.6	100.3	99.8	19.3	19.2	100.5	98.5	137	136	100.7	95.1
T2	6.6	6.7	98.5	113.8	70.1	70.0	100.1	102.0	71.0	70.9	100.1	101.6	19.6	20.4	96.1	100.0	141	142	99.3	97.9
U2		4.3				69.1				71.2				19.6				151		
W2	4.4	4.6	95.6	75.9	66.7	67.0	99.6	97.1	69.2	69.3	99.8	99.0	19.6	19.9	98.5	100.0	150	144	104.2	104.2
Y2	5.0	5.2	96.2	86.2	68.5	68.4	100.1	99.7	70.6	70.3	100.4	101.0	17.7	18.2	97.2	90.3	148	147	100.7	102.8
Z2	5.9	6.0	98.3	101.7	69.2	68.7	100.7	100.7	70.7	70.0	101.0	101.1	19.0	18.8	101.1	96.9	152	155	98.1	105.6
A3	5.4	5.8	93.1	93.1	68.0	68.3	99.6	99.0	69.8	69.8	100.0	99.8	19.6	19.1	102.6	100.0	146	147	99.3	101.4
FKI DATA																				
CUR. AV.	5.9				68.6				69.8				19.5				145			
CUM. AV.	5.8				68.7				69.9				19.6				144			
IND. *D	101.7				99.8				99.8				99.5				100.7			

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

JUNE, 1972

	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			
CODE	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	5.3	5.0	106.0	91.4	68.4	68.1	100.4	99.6	70.2	70.2	100.0	100.4	19.2	20.2	95.0	98.0	142	144	98.6	98.6
B1		6.9				70.0				70.7				18.7				145		
D1	6.0	6.1	98.4	103.4	68.1	68.8	99.0	99.1	69.5	70.1	99.1	99.4	18.7	19.6	95.4	95.4	146	148	98.6	101.4
E1	5.8	5.4	107.4	100.0	68.3	68.5	99.7	99.4	69.8	70.3	99.3	99.8	18.9	19.4	97.4	96.4	138	140	98.6	95.8
F1	5.9	6.0	98.3	101.7	69.0	68.9	100.1	100.4	69.2	69.1	100.1	99.0					146	148	98.6	101.4
G1	5.9	5.6	105.4	101.7	68.1	68.7	99.1	99.1	69.5	70.4	98.7	99.4	21.1	20.6	102.4	107.6	141	139	101.4	97.9
J1	6.3	6.7	94.0	108.6	68.0	69.4	98.0	99.0	69.1	70.3	98.3	98.8	18.5	19.2	96.4	94.4	149	145	102.8	103.5
K1	6.3	6.2	101.6	108.6	68.8	68.9	99.8	100.1	69.9	70.1	99.7	100.0	19.8	20.0	99.0	101.0	137	139	98.6	95.1
N1	5.3	5.2	101.9	91.4	67.7	68.1	99.4	98.5	69.5	70.0	99.3	99.4	22.0	22.2	99.1	112.2	146	143	102.1	101.4
P1	5.2	5.4	96.3	89.6	69.9	69.6	100.4	101.7	70.5	70.2	100.4	100.8	19.8	19.6	101.0	101.0	140	141	99.3	97.2
R1		6.3				68.6				69.6				19.4				141		
S1		7.4				69.6				69.8				19.4				144		
U1	6.6	6.8	97.0	113.8	68.9	68.7	100.3	100.3	69.1	69.4	99.6	98.8	19.4	19.4	100.0	99.0	154	147	104.8	106.9
V1	5.0	5.1	98.0	86.2	67.8	67.8	100.0	98.7	69.8	69.8	100.0	99.8	18.9	20.8	90.9	96.4	142	145	97.9	98.6
W1	5.5	4.8	114.6	94.8	68.4	68.1	100.4	99.6	70.1	70.3	99.7	100.3	19.3	19.8	97.5	98.5	142	144	98.6	98.6
Y1	7.6	7.2	105.6	131.0	68.5	68.7	99.7	99.7	68.6	69.1	99.3	98.1	20.1	20.1	100.0	102.6	147	147	100.0	102.1
Z1	6.4	6.3	101.6	110.3	69.3	67.8	102.2	100.9	70.3	68.9	102.0	100.6	20.9	20.2	103.5	106.6	136	134	101.5	94.4
A2	5.8	4.7	123.4	100.0	69.1	69.1	100.0	100.6	69.4	69.7	99.6	99.3	21.2	21.2	100.0	108.2	147	147	100.0	102.1
B2	5.7	4.9	116.3	98.3	68.3	67.9	100.6	99.4	69.9	70.1	99.7	100.0	20.6	18.3	112.6	105.1	150	147	102.0	104.2
C2	5.0	5.3	94.3	86.2	68.1	68.3	99.7	99.1	70.1	70.1	100.0	100.3	20.8	20.4	102.0	106.1	142	140	101.4	98.6
E2		5.2			68.9	69.8	98.7	100.3	69.0	70.2	98.3	98.7	20.8	19.6	106.1	106.1	144	146	98.6	100.0
F2		6.2				69.2				69.4				20.6				139		
G2		3.8				66.6				69.5				18.1				154		
I2	7.0	6.1	114.8	120.7	69.0	69.1	99.8	100.4	69.6	70.4	98.9	99.6	19.7	19.1	103.1	100.5	147	153	96.1	102.1
J2	5.6	4.9	114.3	96.6	69.1	69.6	99.3	100.6	69.3	69.8	99.3	99.1	17.9	18.6	96.2	91.3	160	144	111.1	111.1
L2		6.2				68.5				69.7				19.6				146		
M2		4.7				69.8				70.2				19.2				148		
N2	7.6	6.9	110.1	131.0	69.3	69.4	99.8	100.9	69.4	70.0	99.1	99.3	18.4	18.6	98.9	93.9	143	143	100.0	99.3
O2	7.1			122.4	68.8			100.1	69.4			99.3	19.0			96.9	143			99.3
P2	6.6	7.7	85.7	113.8	70.0	69.6	100.6	101.9	70.9	69.7	101.7	101.4	20.7	20.9	99.0	105.6	144	142	101.4	100.0
R2	5.1	5.6	91.1	87.9	70.2	69.6	100.9	102.2	70.8	70.2	100.8	101.3	18.9	19.0	99.5	96.4	142	141	100.7	98.6
S2	5.8	5.7	101.8	100.0	68.3	68.1	100.3	99.4	69.8	69.6	100.3	99.8	19.0	19.2	99.0	96.9	137	136	100.7	95.1
T2	6.9	6.6	104.5	119.0	69.9	70.0	99.8	101.7	70.6	70.9	99.6	101.0	19.8	20.2	98.0	101.0	141	142	99.3	97.9
U2		4.4				69.3				71.3				19.6				152		
W2		4.6				67.0				69.3				19.9				145		
Y2	4.9	5.2	94.2	84.5	68.1	68.4	99.6	99.1	70.2	70.4	99.7	100.4	18.0	18.2	98.9	91.8	147	148	99.3	102.1
Z2	5.9	6.0	98.3	101.7	68.7	68.8	99.8	100.0	70.1	70.2	99.8	100.3	18.6	18.8	98.9	94.9	155	155	100.0	107.6
A3	5.2	5.8	89.6	89.6	69.3	68.2	101.6	100.9	69.5	69.8	99.6	99.4	19.9	19.2	103.6	101.5	144	147	98.0	100.0
FKI DATA																				
CUR. AV.	6.0				68.8				69.8				19.6				144			
CUM. AV.	5.8				68.7				69.9				19.6				144			
IND. *D	103.4				100.1				99.8				100.0				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

MAY, 1972

	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			
CODE	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		5.5				88.7				91.0				25.8				173		
B1	7.1	6.8	104.4	116.4	91.1	91.7	99.3	101.9	91.8	92.8	98.9	101.0	25.7	25.6	100.4	100.8	172	175	98.3	100.0
D1	5.8	6.5	89.2	95.1	89.1	89.4	99.7	99.7	91.1	90.6	100.6	100.2	25.0	25.1	99.6	98.0	183	181	101.1	106.4
E1	5.5	5.2	105.8	90.2	89.9	91.0	98.8	100.6	92.1	93.5	98.5	101.3	25.5	25.0	102.0	100.0	162	164	98.8	94.2
F1		5.9				89.5				89.8								175		
G1	6.3	5.8	108.6	103.3	89.7	90.0	99.7	100.3	91.1	91.9	99.1	100.2	26.9	27.3	98.5	105.5	167	163	102.4	97.1
J1	7.7	7.8	98.7	126.2	90.5	90.6	99.9	101.2	90.6	90.6	100.0	99.7	22.8	23.3	97.8	89.4	170	167	101.8	98.8
K1	6.2	6.5	95.4	101.6	90.0	90.1	99.9	100.7	91.5	91.4	100.1	100.7	26.4	26.4	100.0	103.5	175	173	101.2	101.7
P1	5.7	5.6	101.8	93.4	90.6	90.6	100.0	101.3	91.4	91.4	100.0	100.6	26.1	25.8	101.2	102.4	167	167	100.0	97.1
R1		6.4				89.4				90.7				24.6				161		
U1		6.9				89.5				90.2				24.3				190		
V1	5.9	5.4	109.2	96.7	88.7	88.9	99.8	99.2	90.6	91.2	99.3	99.7	25.7	27.0	95.2	100.8	174	175	99.4	101.2
Y1	8.4	7.5	112.0	137.7	90.4	89.6	100.9	101.1	89.8	89.9	99.9	98.8	26.1	26.5	98.5	102.4	181	173	104.6	105.2
Z1	6.4	6.3	101.6	104.9	87.5	87.1	100.4	97.9	88.8	88.5	100.3	97.7	26.4	25.9	101.9	103.5	167	163	102.4	97.1
A2	6.2	5.7	108.8	101.6	91.2	90.0	101.3	102.0	91.7	91.0	100.8	100.9	27.6	27.4	100.7	108.2	184	176	104.5	107.0
B2	6.1	5.5	110.9	100.0	88.9	88.4	100.6	99.4	90.5	90.6	99.9	99.6	24.5	24.5	100.0	96.1	181	182	99.4	105.2
C2	5.0	5.5	90.9	82.0	89.3	88.8	100.6	99.9	92.0	91.0	101.1	101.2	26.0	26.6	97.7	102.0	168	166	101.2	97.7
E2		5.8			90.2	90.8	99.3	100.9	90.9	91.5	99.3	100.0	24.7	25.2	98.0	96.9	178	182	97.8	103.5
G2		3.8				86.7				90.3				23.6				195		
J2	5.3			86.9	90.1			100.8	90.4			99.4	24.6			96.5	179			104.1
L2		6.2				89.3				90.8				26.1				171		
M2		5.1				91.2				91.8				24.7				179		
N2	7.6	7.6	100.0	124.6	91.3	90.7	100.7	102.1	91.5	90.8	100.8	100.7	24.4	24.3	100.4	95.7	178	173	102.9	103.5
S2	5.5	5.8	94.8	90.2	88.7	88.9	99.8	99.2	90.9	90.9	100.0	100.0	23.8	25.4	93.7	93.3	162	162	100.0	94.2
U2		4.4				90.1				93.4				24.4				190		
W2	5.0	4.8	104.2	82.0	87.7	87.5	100.2	98.1	90.3	90.3	100.0	99.3	26.3	25.5	103.1	103.1	172	168	102.4	100.0
Z2	6.3	6.2	101.6	103.3	88.4	89.5	98.8	98.9	89.8	91.1	98.6	98.8	25.3	24.9	101.6	99.2	186	187	99.5	108.1
A3	5.8	5.9	98.3	95.1	89.1	89.1	100.0	99.7	91.1	90.9	100.2	100.2	26.3	25.6	102.7	103.1	176	172	102.3	102.3
FKI DATA																				
CUR. AV.	6.2				89.6				90.9				25.5				174			
CUM. AV.	6.1				89.4				90.9				25.5				172			
IND. *D	101.6				100.2				100.0				100.0				101.2			

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

JUNE, 1972

	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			
CODE	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	5.5	109.1	98.4	88.4	88.7	99.7	98.9	90.2	91.0	99.1	99.2	26.0	25.8	100.8	102.0	172	173	99.4	99.4
B1	7.5	6.9	108.7	123.0	90.8	91.2	99.6	101.6	91.1	92.1	98.9	100.2	26.1	25.4	102.8	102.4	171	176	97.2	98.8
D1	6.5	6.4	101.6	106.6	89.3	89.4	99.9	99.9	90.6	90.7	99.9	99.7	24.9	25.0	99.6	97.6	184	181	101.6	106.4
E1		5.2				90.8				93.3				25.0				164		
F1	5.8	5.9	98.3	95.1	90.3	89.5	100.9	101.0	90.6	89.8	100.9	99.7					170	176	96.6	98.3
G1	6.2	5.9	105.1	101.6	89.7	89.9	99.8	100.3	91.2	91.7	99.4	100.3	26.4	27.1	97.4	103.5	172	163	105.5	99.4
J1	7.5	7.8	96.2	123.0	90.4	90.6	99.8	101.1	90.7	90.6	100.1	99.8	22.8	23.2	98.3	89.4	167	167	100.0	96.5
K1	6.1	6.5	93.8	100.0	90.1	90.1	100.0	100.8	91.7	91.4	100.3	100.9	25.6	26.5	96.6	100.4	172	173	99.4	99.4
P1	5.3	5.6	94.6	86.9	91.0	90.6	100.4	101.8	91.8	91.4	100.4	101.0	25.8	25.8	100.0	101.2	164	168	97.6	94.8
R1		6.4				89.4				90.7				24.6				160		
U1		6.9				89.5				90.2				24.3				190		
V1	5.1	5.4	94.4	83.6	89.6	88.9	100.8	100.2	92.2	91.2	101.1	101.4	25.4	26.9	94.4	99.6	176	175	100.6	101.7
Y1	7.9	7.6	103.9	129.5	89.4	89.7	99.7	100.0	89.3	89.9	99.3	98.2	25.7	26.5	97.0	100.8	174	173	100.6	100.6
Z1	6.6	6.3	104.8	108.2	88.5	87.1	101.6	99.0	89.7	88.5	101.4	98.7	26.3	25.8	101.9	103.1	163	163	100.0	94.2
A2	6.0	5.8	103.4	98.4	91.4	90.2	101.3	102.2	91.9	91.1	100.9	101.1	27.8	27.5	101.1	109.0	180	177	101.7	104.0
B2	5.8	5.7	101.8	95.1	88.8	88.6	100.2	99.3	90.8	90.6	100.2	99.9	25.4	24.8	102.4	99.6	170	181	93.9	98.3
C2	5.2	5.4	96.3	85.2	88.6	88.8	99.8	99.1	91.1	91.1	100.0	100.2	25.9	26.6	97.4	101.6	169	166	101.8	97.7
E2		5.8			90.7	90.7	100.0	101.4	91.2	91.4	99.8	100.3	25.2	25.1	100.4	98.8	178	182	97.8	102.9
G2	3.9	3.8	102.6	63.9	87.2	86.7	100.6	97.5	90.9	90.3	100.7	100.0	22.8	23.6	96.6	89.4	198	195	101.5	114.4
J2	5.6	5.3	105.7	91.8	89.4	90.1	99.2	100.0	89.7	90.4	99.2	98.7	23.7	24.6	96.3	92.9	184	179	102.8	106.4
L2		6.2				89.3				90.8				26.1				171		
M2		5.1				91.2				91.8				24.7				179		
N2	7.8	7.7	101.3	127.9	90.2	90.8	99.3	100.9	90.2	91.0	99.1	99.2	24.7	24.3	101.6	96.9	168	174	96.6	97.1
S2	5.6	5.8	96.6	91.8	88.7	88.9	99.8	99.2	90.8	90.9	99.9	99.9	24.2	25.2	96.0	94.9	170	162	104.9	98.3
U2		4.4				90.1				93.4				24.4				190		
W2	4.5	4.9	91.8	73.8	87.2	87.6	99.5	97.5	90.3	90.3	100.0	99.3	26.7	25.6	104.3	104.7	172	170	101.2	99.4
Z2	6.0	6.2	96.8	98.4	90.3	89.5	100.9	101.0	92.1	91.1	101.1	101.3	25.6	24.9	102.8	100.4	189	187	101.1	109.2
A3	5.0	5.9	84.7	82.0	90.3	89.1	101.3	101.0	90.6	90.9	99.7	99.7	24.7	25.8	95.7	96.9	176	172	102.3	101.7
FKI DATA																				
CUR. AV.	6.0				89.6				90.8				25.3				174			
CUM. AV.	6.1				89.4				90.9				25.5				173			
IND. *D	98.4				100.2				99.9				99.2				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

MAY AND JUNE, 1972

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

[a] Samples were brought to equilibrium at standard temperature and humidity.

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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

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

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

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

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

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

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[a] CMA = current machine average for a specific physical property of a specific linerboard grade weight obtained during a given month on a specific machine.

[b] CFKIA = current FKI average for a specific physical property of a specific linerboard grade weight obtained during a given month.

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