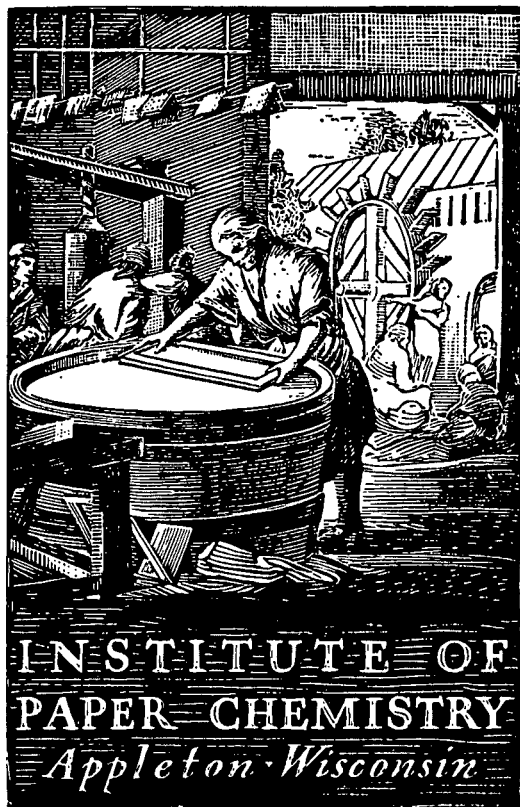


Mrs. Boren

BASE-LINE

(SEPTEMBER-OCTOBER, 1971)



INSTITUTE OF
PAPER CHEMISTRY
Appleton Wisconsin

CONTINUOUS BASE-LINE STUDY (MODIFIED)
(MILL LINERBOARD DATA FOR SEPTEMBER AND OCTOBER, 1971)

Project 2694-1

Report Twenty-Nine

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

December 22, 1971

BASE-LINE
SEPTEMBER-OCTOBER, 1971

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 SEPTEMBER AND OCTOBER, 1971)

SUMMARY

PART I: SUMMARY OF MOISTURE CONTENT DATA
(JULY-OCTOBER, 1971)

Linerboard Grade Wt.		Moisture Content			
		July	August	September	October
26 Lb.	Max. ^a	6.4	6.7	6.5	6.0
	Min. ^a	2.9	3.3	2.7	2.4
	Av. ^b	4.7 (21)	4.9 (23)	4.4 (18)	4.3 (15)
33 Lb.	Max. ^a	6.4	6.8	6.3	6.5
	Min. ^a	3.2	3.1	3.3	3.0
	Av. ^b	4.8 (25)	4.9 (23)	4.8 (24)	4.8 (23)
38 Lb.	Max. ^a	6.5	6.6	6.5	6.6
	Min. ^a	3.9	3.6	4.0	3.0
	Av. ^b	5.1 (25)	5.1 (25)	5.3 (23)	5.0 (26)
42 Lb.	Max. ^a	7.0	7.1	6.8	6.8
	Min. ^a	3.8	3.8	3.5	3.6
	Av. ^b	5.2 (38)	5.3 (37)	5.2 (39)	5.2 (32)
69 Lb.	Max. ^a	7.7	7.8	7.7	7.7
	Min. ^a	4.5	3.9	3.5	4.1
	Av. ^b	5.9 (28)	5.9 (30)	5.7 (33)	5.9 (29)
90 Lb.	Max. ^a	8.0	8.2	8.2	8.0
	Min. ^a	4.5	3.8	4.4	5.1
	Av. ^b	6.2 (16)	6.0 (15)	5.9 (19)	6.2 (16)

^aCurrent machine average.

^bCurrent F.K.I. average, number of machines is indicated in parentheses.

PART II: SUMMARY OF ADJUSTED BASIS WEIGHT DATA
(JULY-OCTOBER, 1971)

Linerboard Grade Wt.		Adjusted Basis Weight, lb./M ft. ²			
		July	August	September	October
26 Lb.	Max. ^a	28.9	27.7	26.6	27.6
	Min. ^a	26.1	26.0	25.9	26.1
	Av. ^b	26.8 (21)	26.7 (23)	26.9 (18)	26.8 (15)
33 Lb.	Max. ^a	35.1	34.1	35.1	34.9
	Min. ^a	32.8	32.8	32.9	33.0
	Av. ^b	33.7 (25)	33.6 (23)	33.8 (24)	33.7 (24)
38 Lb.	Max. ^a	40.1	40.1	40.0	40.0
	Min. ^a	37.8	37.6	37.7	38.1
	Av. ^b	38.8 (25)	38.7 (25)	38.7 (23)	38.8 (26)
42 Lb.	Max. ^a	44.5	43.9	44.5	44.2
	Min. ^a	42.0	41.9	42.0	42.0
	Av. ^b	42.8 (38)	42.8 (37)	42.7 (39)	42.8 (34)
69 Lb.	Max. ^a	71.2	71.1	72.0	73.0
	Min. ^a	68.4	68.9	68.7	68.5
	Av. ^b	69.8 (28)	69.9 (30)	70.0 (33)	70.0 (31)
90 Lb.	Max. ^a	92.5	95.0	94.2	92.8
	Min. ^a	88.0	89.0	88.6	88.9
	Av. ^b	90.6 (16)	90.9 (15)	91.3 (19)	90.9 (17)

^aCurrent machine average.

^bCurrent F.K.I. average, number of machines is indicated in parentheses.

PART III: SUMMARY OF CALIPER DATA
(JULY-OCTOBER, 1971)

Linerboard Grade Wt.		Caliper, pt.			
		July	August	September	October
26 Lb.	Max. ^a	9.9	9.0	9.0	9.5
	Min. ^a	7.0	6.8	6.8	6.6
	Av. ^b	8.0 (20)	8.0 (22)	7.8 (17)	8.0 (15)
33 Lb.	Max. ^a	10.9	11.4	11.5	11.0
	Min. ^a	8.2	8.6	8.8	8.6
	Av. ^b	9.5 (24)	9.8 (22)	9.8 (23)	9.8 (24)
38 Lb.	Max. ^a	12.7	12.6	12.8	12.4
	Min. ^a	9.5	9.5	10.0	9.9
	Av. ^b	10.8 (24)	10.8 (24)	10.9 (22)	11.0 (26)
42 Lb.	Max. ^a	13.7	13.8	13.8	13.4
	Min. ^a	10.7	10.5	10.9	10.6
	Av. ^b	12.0 (37)	11.9 (36)	12.0 (38)	11.9 (33)
69 Lb.	Max. ^a	22.4	21.7	21.7	22.4
	Min. ^a	17.6	17.5	17.9	18.0
	Av. ^b	19.7 (27)	19.7 (29)	19.6 (32)	19.7 (30)
90 Lb.	Max. ^a	27.3	27.6	27.9	26.8
	Min. ^a	23.3	23.4	23.4	23.1
	Av. ^b	25.3 (15)	25.4 (15)	25.5 (18)	25.4 (17)

^aCurrent machine average.

^bCurrent F.K.I. average, number of machines is indicated in parentheses.

PART IV: SUMMARY OF BURSTING STRENGTH DATA
(JULY-OCTOBER, 1971)

Linerboard Grade Wt.		Bursting Strength, p.s.i.g.			
		July	August	September	October
26 Lb.	Max. ^a	83	84	81	81
	Min. ^a	65	63	63	66
	Av. ^b	74 (21)	74 (23)	75 (18)	72 (16)
33 Lb.	Max. ^a	99	94	93	95
	Min. ^a	78	79	76	80
	Av. ^b	88 (25)	86 (23)	88 (24)	87 (25)
38 Lb.	Max. ^a	111	108	110	107
	Min. ^a	91	89	91	92
	Av. ^b	99 (25)	99 (25)	99 (23)	98 (27)
42 Lb.	Max. ^a	125	117	122	116
	Min. ^a	100	101	99	102
	Av. ^b	107 (38)	107 (37)	108 (39)	107 (34)
69 Lb.	Max. ^a	159	162	159	155
	Min. ^a	134	132	133	132
	Av. ^b	144 (28)	144 (30)	145 (33)	144 (31)
90 Lb.	Max. ^a	195	195	199	187
	Min. ^a	156	159	154	160
	Av. ^b	171 (16)	172 (15)	172 (19)	172 (18)

^aCurrent machine average.

^bCurrent 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
SEPTEMBER, 1971

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	3.7	4.4	84.1	80.4	26.8	27.0	99.2	102.7	26.9	27.2	98.9	100.4	7.6	7.8	97.4	97.4	81	81	100.0	111.0
B1		6.0				26.0				26.6				8.2			81			
C1	4.1	4.5	91.1	89.1	24.9	25.7	96.9	95.4	25.9	26.6	97.4	96.6	7.4	7.3	101.4	94.9	80	72	111.1	109.6
D1	3.2	3.4	94.1	69.6	26.3	26.6	98.9	100.8	27.6	27.8	99.3	103.0	9.0	8.9	101.1	115.4	69	67	103.0	94.5
E1		3.4				25.7				26.9				7.4			67			
G1		5.8				26.0				26.6				8.4			77			
H1	6.5	6.7	97.0	141.3	25.8	26.3	98.1	98.8	26.2	26.6	98.5	97.8	8.0	8.0	100.0	102.6	63	66	95.4	86.3
I1		2.4				25.8				26.9				7.0			69			
J1		3.7				25.6				26.7				7.9			79			
L1	3.4	4.1	82.9	73.9	24.9	25.4	98.0	95.4	26.1	26.4	98.9	97.4	7.9	7.6	103.9	101.3	76	78	97.4	104.1
N1	5.3	5.5	96.4	115.2	26.5	26.0	101.9	101.5	27.2	26.6	102.2	101.5	8.7	8.7	100.0	111.5	77	77	100.0	105.5
Q1		3.0				27.0				28.4				8.4			73			
R1	5.6	5.8	96.6	121.7	26.4	26.6	99.2	101.1	26.5	26.6	99.6	98.9					69	69	100.0	94.5
T1	3.6	3.8	94.7	78.3	26.1	25.8	101.2	100.0	27.3	27.0	101.1	101.9	7.8	7.5	104.0	100.0	73	72	101.4	100.0
U1	4.8	4.7	102.1	104.3	25.6	25.7	99.6	98.1	26.4	26.5	99.6	98.5	8.6	8.2	104.9	110.2	76	77	98.7	104.1
W1		4.5				26.0				26.9				8.6			80			
X1		5.1				25.4				26.1				6.7			70			
Z1		5.2				26.5				27.3				8.3			68			
A2		2.4				25.0				26.4				7.0			74			
B2		5.0				26.4				26.8				7.4			68			
C2	3.8	4.3	88.4	82.6	25.7	25.8	99.6	98.5	26.8	26.8	100.0	100.0	7.4	7.1	104.2	94.9	68	70	97.1	93.2
D2		3.1				25.7				27.0				8.0			74			
F2	2.7	2.9	93.1	58.7	26.2	27.4	95.6	100.4	27.6	28.9	95.5	103.0	7.9	9.9	79.8	101.3	74	67	110.4	101.4
H2	5.5	5.0	110.0	119.6	26.1	26.0	100.4	100.0	26.5	26.4	100.4	98.9	8.0	7.6	105.3	102.6	81	78	103.8	111.0
J2	5.7	3.2	178.1	123.9	27.3	25.8	105.8	104.6	27.4	26.8	102.2	102.2	6.8	7.4	91.9	87.2	76	73	104.1	104.1
K2		5.8				25.9				26.4				8.0			70			
L2	3.8	3.6	105.6	82.6	25.9	25.8	100.4	99.2	27.0	26.9	100.4	100.7	7.2	7.7	93.5	92.3	75	65	115.4	102.7
N2		5.8				26.3				26.6				8.7			67			
O2	4.8	5.1	94.1	104.3	26.6	26.5	100.4	101.9	27.5	27.3	100.7	102.6	7.8	7.8	100.0	100.0	74	75	98.7	101.4
V2	4.5	4.6	97.8	97.8	26.4	26.3	100.4	101.1	27.4	27.2	100.7	102.2	8.1	8.3	97.6	103.8	81	77	105.2	111.0
W2	4.6	4.6	100.0	100.0	26.0	26.0	100.0	99.6	26.9	26.9	100.0	100.4	8.1	8.2	98.8	103.8	78	73	106.8	106.8
Z2		3.4				26.4				26.6				7.6			81			
A3	4.5	4.4	102.3	97.8	26.1	25.9	100.8	100.0	27.0	26.8	100.7	100.7	7.3	7.5	97.3	93.6	74	70	105.7	101.4
FKI DATA																				
CUR.																				
AV. 4.4																				
CUM.																				
AV. 4.6																				
IND.																				
*D 95.6																				
100.0																				
100.4																				
100.0																				
102.7																				

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
OCTOBER, 1971

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	5.3	4.3	123.2	115.2	26.3	26.9	97.8	100.8	26.4	27.1	97.4	98.1	8.0	7.7	103.9	102.6	79	81	97.5	108.2	
B1	4.2	6.0	70.0	91.3	26.3	26.0	101.2	100.8	27.3	26.6	102.6	101.5	8.2	8.2	100.0	105.1	79	81	97.5	108.2	
C1		4.4				25.6				26.5				7.2				73			
D1	3.1	3.4	91.2	67.4	26.3	26.6	98.9	100.8	27.6	27.9	98.9	102.6	9.5	9.0	105.6	121.8	70	67	104.5	95.9	
E1	3.8	3.4	111.8	82.6	25.4	25.7	98.8	97.3	26.5	26.9	98.5	98.5	7.2	7.3	98.6	92.3	67	67	100.0	91.8	
G1		5.8				26.0				26.6				8.4				77			
H1		6.7				26.2				26.5				8.0				66			
I1		2.4				25.8				26.9				7.0				69			
J1		3.7				25.6				26.7				7.9				79			
L1		4.1				25.4				26.4				7.6				78			
N1		5.5				26.0				26.7				8.7				77			
Q1		3.0				27.0				28.4				8.4				73			
R1	5.6	5.8	96.6	121.7	26.3	26.5	99.2	100.8	26.4	26.6	99.2	98.1					68	69	98.6	93.2	
T1	3.9	3.8	102.6	84.8	26.0	25.8	100.8	99.6	27.1	27.0	100.4	100.7	8.1	7.5	108.0	103.8	71	72	98.6	97.3	
U1		4.7				25.7				26.5				8.3				77			
W1	4.8	4.5	106.7	104.3	25.3	26.0	97.3	96.9	26.1	26.9	97.0	97.0	8.6	8.6	100.0	110.2	66	80	82.5	90.4	
X1		5.1				25.4				26.1				6.7				70			
Z1		5.1				26.5				27.3				8.3				68			
A2	2.4	2.3	104.3	52.2	25.9	24.9	104.0	99.2	27.4	26.4	103.8	101.8	9.1	7.1	128.2	116.7	77	76	101.3	105.5	
B2		5.0				26.4				26.8				7.4				68			
C2	4.1	4.2	97.6	89.1	25.7	25.8	99.6	98.5	26.7	26.8	99.6	99.2	7.2	7.1	101.4	92.3	69	70	98.6	94.5	
D2		3.1				25.7				27.0				8.0				74			
F2		2.8				26.8				28.2				8.9				70			
H2	4.7	5.0	94.0	102.2	26.0	26.0	100.0	99.6	26.4	26.4	100.0	98.1	7.8	7.6	102.6	100.0	81	79	102.5	111.0	
J2		3.9				26.2				27.0				6.6	7.1	93.0	84.6	74	73	101.4	101.4
K2	6.0	5.8	103.4	130.4	25.7	25.8	99.6	98.5	26.2	26.4	99.2	97.4	8.6	8.0	107.5	110.2	68	70	97.1	93.2	
L2	3.5	3.6	97.2	76.1	25.5	25.8	98.8	97.7	26.7	26.9	99.2	99.2	6.6	7.6	86.8	84.6	69	66	104.5	94.5	
N2		5.7				26.5				26.7				8.6				67			
O2	5.1	5.0	102.0	110.9	26.4	26.5	99.6	101.1	27.2	27.3	99.6	101.1	8.2	7.8	105.1	105.1	71	75	94.7	97.3	
V2	3.9	4.5	86.7	84.8	26.2	26.2	100.0	100.4	27.3	27.2	100.4	101.5	8.4	8.2	102.4	107.7	73	79	92.4	100.0	
W2		4.5				26.0				26.9				8.2				73			
Z2		3.4				26.4				26.6				7.6				81			
A3	4.3	4.5	95.6	93.5	26.1	25.9	100.8	100.0	27.1	26.8	101.1	100.7	7.4	7.5	98.7	94.9	69	71	97.2	94.5	
FKI DATA																					
CUR.																					
AV.					4.3					26.0					26.8						
CUM.																					
AV.					4.6					26.1					26.9						
IND.																					
*D					93.5					99.6					99.6						
															102.6						

TABLE III

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

SEPTEMBER, 1971

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	4.1	4.2	97.6	85.4	32.8	33.8	97.0	100.0	33.0	34.1	96.8	97.9	9.3	9.9	93.9	95.9	93	95	97.9	106.9
B1		6.2				32.9				33.5				10.1				97		
D1	4.4	4.6	95.6	91.7	32.3	32.6	99.1	98.5	33.5	33.8	99.1	99.4	11.5	10.9	105.5	118.6	76	77	98.7	87.4
E1		3.5				32.5				34.0				9.6				84		
G1	6.3	6.5	96.9	131.2	33.4	33.0	101.2	101.8	33.9	33.5	101.2	100.6	10.5	10.7	98.1	108.2	92	90	102.2	105.7
H1	6.3	6.5	96.9	131.2	32.6	32.9	99.1	99.4	33.1	33.4	99.1	98.2	10.0	9.9	101.0	103.1	80	83	96.4	92.0
I1	4.7	3.3	142.4	97.9	34.1	32.5	104.9	104.0	34.4	33.7	102.1	102.1	9.4	8.9	105.6	96.9	91	85	107.0	104.6
J1	4.8	4.5	106.7	100.0	33.4	32.6	102.4	101.8	34.5	33.7	102.4	102.4	9.9	9.6	103.1	102.1	92	87	105.7	105.7
L1		4.3				32.0				33.2				9.0				95		
M1	5.7	5.6	101.8	118.8	33.1	33.1	100.0	100.9	33.9	33.9	100.0	100.6	8.8	8.7	101.1	90.7	87	90	96.7	100.0
O1	5.7	5.6	101.8	118.8	33.2	33.2	100.0	101.2	33.3	33.4	99.7	98.8					90	90	100.0	103.4
Q1	3.9	4.3	90.7	81.2	33.7	33.8	99.7	102.7	35.1	35.1	100.0	104.2	10.7	10.7	100.0	110.3	92	89	103.4	105.7
R1		5.7				33.0				33.2								84		
S1		5.1				32.5				33.4				10.0				88		
T1	4.5	4.7	95.7	93.8	32.9	32.6	100.9	100.3	34.1	33.8	100.9	101.2	9.9	9.2	107.6	102.1	88	87	101.1	101.1
U1		6.0				32.3				32.9				9.6				96		
W1		4.8				33.2				34.2				10.5				80		
X1		5.4				32.0				32.8				8.2				85		
Z1		5.5				33.4				34.2				10.2				81		
A2		2.7				31.6				33.3				9.0				87		
B2		5.0				33.2				33.2				9.5				88		
C2	3.5	4.3	81.4	72.9	32.4	32.7	99.1	98.8	33.9	33.9	100.0	100.6	9.5	9.3	102.2	97.9	83	83	100.0	95.4
D2	3.3	3.9	84.6	68.8	31.4	32.7	96.0	95.7	32.9	34.0	96.8	97.6	10.7	10.2	104.9	110.3	84	87	96.6	96.6
F2	5.0	5.5	90.9	104.2	33.1	33.7	98.2	100.9	34.1	34.5	98.8	101.2	10.1	10.1	100.0	104.1	83	83	100.0	95.4
G2	5.1	4.3	118.6	106.2	33.2	32.9	100.9	101.2	33.5	33.3	100.6	99.4	9.1	9.3	97.8	93.8	83	84	98.8	95.4
H2	5.5	5.5	100.0	114.6	32.6	33.1	98.5	99.4	33.0	33.5	98.5	97.9	10.1	9.7	104.1	104.1	93	96	96.9	106.9
I2		4.7				33.8				34.9				9.1				87		
J2	4.8	3.4	141.2	100.0	34.3	32.6	105.2	104.6	34.5	33.9	101.8	102.4	9.1	9.6	94.8	93.8	91	86	105.8	104.6
K2		6.0				32.2				32.8				9.9				83		
L2	3.6	3.4	105.9	75.0	32.4	32.3	100.3	98.8	33.9	33.9	100.0	100.6	8.9	9.0	98.9	91.8	89	84	106.0	102.3
M2		4.7				33.2				34.3				9.2				91		
N2	5.3	5.6	94.6	110.4	33.4	33.5	99.7	101.8	33.5	33.8	99.1	99.4	9.8	9.8	100.0	101.0	88	86	102.3	101.1
O2	6.1	5.9	103.4	127.1	33.3	33.2	100.3	101.5	33.9	33.9	100.0	100.6	9.6	9.7	99.0	99.0	90	89	101.1	103.4
R2	4.1		85.4		32.1		97.9		33.4		99.1		9.2		94.8		90		103.4	
V2	4.4	5.0	88.0	91.7	33.8	33.0	102.4	103.0	35.1	34.0	103.2	104.2	10.3	9.8	105.1	106.2	92	88	104.5	105.7
W2	4.8	4.7	102.1	100.0	33.2	32.5	102.2	101.2	34.3	33.6	102.1	101.8	10.6	10.6	100.0	109.3	93	85	109.4	106.9
X2		5.2				32.7				33.6				9.2				90		
Z2	4.4	3.8	115.8	91.7	33.4	33.4	100.0	101.8	33.7	33.6	100.3	100.0	9.4	9.3	101.1	96.9	93	94	98.9	106.9
A3	5.2	4.8	108.3	108.3	32.7	32.6	100.3	99.7	33.6	33.6	100.0	99.7	9.7	9.7	100.0	100.0	87	85	102.4	100.0
FKI DATA																				
CUR.																				
AV. 4.8																				
CUM.																				
AV. 4.8																				
IND.																				
*D 100.0																				
100.6																				
100.3																				
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

OCTOBER, 1971

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	4.1	4.2	97.6	85.4	33.0	33.7	97.9	100.3	33.2	34.0	97.6	98.2	10.6	9.8	108.2	109.3	90	95	94.7	103.4
B1	3.5	6.2	56.4	72.9	32.7	32.9	99.4	99.4	34.2	33.5	102.1	101.2	9.9	10.1	98.0	102.1	95	97	97.9	109.2
D1	4.5	4.6	97.8	93.8	32.5	32.6	99.7	98.8	33.7	33.8	99.7	99.7	11.0	10.9	100.9	113.4	80	76	105.3	92.0
E1	3.9	3.5	111.4	81.2	32.8	32.5	100.9	99.7	34.2	34.0	100.6	101.2	9.9	9.6	103.1	102.1	81	84	96.4	93.1
G1	6.4	6.5	98.5	133.3	33.0	33.0	100.0	100.3	33.5	33.5	100.0	99.1	10.7	10.7	100.0	110.3	93	90	103.3	106.9
H1	6.5	6.5	100.0	135.4	33.2	32.9	100.9	100.9	33.7	33.3	101.2	99.7	11.0	10.0	110.0	113.4	84	83	101.2	96.6
I1		3.6			33.9	32.8	103.4	103.0	34.3	33.8	101.5	101.5	10.0	8.9	112.4	103.1	91	85	107.0	104.6
J1	4.8	4.6	104.3	100.0	33.8	32.7	103.4	102.7	34.9	33.8	103.2	103.2	9.5	9.6	99.0	97.9	88	87	101.1	101.1
L1		4.3				32.0				33.2				8.9				96		
M1	5.7	5.6	101.8	118.8	33.2	33.1	100.3	100.9	34.0	33.9	100.3	100.6	8.6	8.8	97.7	88.6	89	90	98.9	102.3
O1	5.8	5.6	103.6	120.8	33.1	33.2	99.7	100.6	33.2	33.4	99.4	98.2					88	90	97.8	101.1
Q1		4.2				33.8				35.1			10.7					89		
R1		5.7				33.0				33.2								84		
S1		5.1				32.5				33.4			10.0					88		
T1	4.7	4.6	102.2	97.9	33.0	32.7	100.9	100.3	34.1	33.9	100.6	100.9	9.6	9.2	104.3	99.0	87	88	98.9	100.0
U1		6.1				32.5				33.1			9.7					96		
W1	4.7	4.8	97.9	97.9	32.8	33.2	98.8	99.7	33.9	34.2	99.1	100.3	9.7	10.5	92.4	100.0	82	80	102.5	94.2
X1		5.4				32.0				32.8			8.2					85		
Z1		5.5				33.5				34.3			10.2					81		
A2	3.0	2.6	115.4	62.5	31.5	31.5	100.0	95.7	33.1	33.3	99.4	97.9	9.3	9.0	103.3	95.9	87	88	98.9	100.0
C2	3.9	4.2	92.8	81.2	32.5	32.7	99.4	98.8	33.9	33.9	100.0	100.3	9.4	9.3	101.1	96.9	82	83	98.8	94.2
D2		3.9				32.5				33.9			10.3					87		
F2	4.7	5.4	87.0	97.9	33.1	33.6	98.5	100.6	34.2	34.4	99.4	101.2	9.7	10.1	96.0	100.0	83	82	101.2	95.4
G2	4.2	4.3	97.7	87.5	33.3	32.9	101.2	101.2	33.6	33.2	101.2	99.4	9.8	9.3	105.4	101.0	81	84	96.4	93.1
H2	5.7	5.5	103.6	118.8	32.8	33.0	99.4	99.7	33.2	33.4	99.4	98.2	9.7	9.7	100.0	100.0	93	96	96.9	106.9
I2		4.7				33.8				34.9			9.1					87		
J2		3.7				33.0				34.0			8.6	9.3	92.5	88.6	92	87	105.7	105.7
K2	6.1	6.0	101.7	127.1	32.4	32.2	100.6	98.5	33.0	32.8	100.6	97.6	10.0	9.9	101.0	103.1	81	83	97.6	93.1
L2	3.5	3.5	100.0	72.9	32.3	32.3	100.0	98.2	33.8	33.9	99.7	100.0	9.0	9.0	100.0	92.8	89	85	104.7	102.3
M2		4.7				33.2				34.3			9.2					91		
N2		5.5				33.6				33.8			9.8					86		
O2	6.0	5.9	101.7	125.0	33.2	33.2	100.0	100.9	33.9	33.8	100.3	100.3	10.1	9.7	104.1	104.1	84	89	94.4	96.6
R2		4.1				32.1				33.4			9.2					90		
V2		4.8				33.1				34.2			9.8					90		
W2	4.9	4.7	104.2	102.1	32.7	32.6	100.3	99.4	33.7	33.6	100.3	99.7	10.6	10.6	100.0	109.3	84	86	97.7	96.6
X2		5.0				32.8				33.7			9.0					90		
Z2	3.9	3.8	102.6	81.2	33.4	33.3	100.3	101.5	33.7	33.6	100.3	99.7	9.9	9.3	106.4	102.1	94	93	101.1	108.0
A3	5.1	4.8	106.2	106.2	32.6	32.6	100.0	99.1	33.5	33.6	99.7	99.1	9.6	9.7	99.0	99.0	85	85	100.0	97.7
C3	5.2		108.3	32.5				98.8	33.4			98.8	9.8			101.0	86			98.8

FKI DATA

CUR.																				
AV.	4.8				32.9				33.7				9.8				87			
CUM.																				
AV.	4.8				32.9				33.8				9.7				87			
IND.																				
*D 100.0					100.0				99.7				101.0				100.0			

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

SEPTEMBER, 1971

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		4.2				38.4				38.8				11.2				102		
B1	6.1	6.0	101.7	117.3	38.1	38.4	99.2	100.5	38.8	39.1	99.2	100.0	10.2	10.3	99.0	94.4	110	109	100.9	112.2
D1	5.6	5.5	101.8	107.7	38.5	37.7	102.1	101.6	39.4	38.7	101.8	101.5	12.8	12.2	104.9	118.5	91	93	97.8	92.8
E1	5.7	4.9	116.3	109.6	37.8	37.8	100.0	99.7	38.7	39.0	99.2	99.7	10.7	10.9	98.2	99.1	91	93	97.8	92.8
F1	4.7	4.6	102.2	90.4	37.7	38.4	98.2	99.5	39.0	39.8	98.0	100.5	10.8	10.5	102.8	100.0	101	100	101.0	103.1
G1		7.0				38.0				38.4				11.4				97		
H1	6.4	6.4	100.0	123.1	37.9	37.8	100.3	100.0	38.5	38.4	100.3	99.2	10.0	10.8	92.6	92.6	94	100	94.0	95.9
I1	4.7	3.9	120.5	90.4	39.2	37.5	104.5	103.4	39.4	38.7	101.8	101.5	10.7	10.2	104.9	99.1	106	96	110.4	108.2
J1		4.5				37.3				38.7				10.8				105		
L1		4.5				37.1				38.4				10.3				105		
M1		5.8				38.2				39.0				10.0				97		
O1	5.6	5.5	101.8	107.7	38.1	38.1	100.0	100.5	38.2	38.3	99.7	98.4					99	98	101.0	101.0
P1	5.9	5.7	103.5	113.5	36.9	37.7	97.9	97.4	37.7	38.5	97.9	97.2	10.7	10.6	100.9	99.1	105	102	102.9	107.1
S1		4.6				37.5				38.8				11.8				95		
T1	5.5	5.5	100.0	105.8	37.9	37.7	100.5	100.0	38.8	38.6	100.5	100.0	11.0	10.6	103.8	101.8	99	97	102.1	101.0
U1	5.7	5.4	105.6	109.6	37.3	37.1	100.5	98.4	38.2	38.1	100.3	98.4	10.5	10.5	100.0	97.2	104	109	95.4	106.1
V1		4.6				37.9				39.2				10.6				103		
X1		5.2				37.2				38.3				9.9				97		
Y1	6.5	5.8	112.1	125.0	38.3	38.2	100.3	101.0	38.8	39.0	99.5	100.0	11.0	10.8	101.8	101.8	101	101	100.0	103.1
Z1		5.4				38.8				39.8				11.6				96		
A2		3.1				36.7				38.5				10.5				96		
C2	4.0	4.5	88.9	76.9	37.4	37.6	99.5	98.7	38.9	39.0	99.7	100.2	10.9	10.9	100.0	100.9	93	95	97.9	94.9
D2	4.3	4.8	89.6	82.7	36.9	37.9	97.4	97.4	38.3	39.2	97.7	98.7	11.6	11.7	99.1	107.4	94	97	96.9	95.9
G2		5.6				37.9				38.4				10.8				95		
H2	5.8	5.9	98.3	111.5	37.4	38.0	98.4	98.7	37.7	38.3	98.4	97.2	10.6	10.8	98.1	98.1	104	104	100.0	106.1
I2		5.7				38.7				39.6				11.1				100		
J2		3.4				36.9				38.7				10.5				97		
L2	4.2	4.4	95.4	80.8	37.3	37.5	99.5	98.4	38.8	38.8	100.0	100.0	10.4	10.4	100.0	96.3	102	97	105.2	104.1
M2	5.5	5.6	98.2	105.8	37.7	38.1	99.0	99.5	38.6	39.0	99.0	99.5	11.1	11.0	100.9	102.8	104	97	107.2	106.1
N2	5.3	5.7	93.0	101.9	38.5	38.8	99.2	101.6	38.6	39.0	99.0	99.5	11.4	11.2	101.8	105.6	100	97	103.1	102.0
Q2	6.2	6.3	98.4	119.2	38.3	38.4	99.7	101.0	39.0	39.0	100.0	100.5	11.3	11.0	102.7	104.6	97	97	100.0	99.0
R2	4.8	4.9	98.0	92.3	38.7	38.4	100.8	102.1	40.0	39.7	100.8	103.1	10.5	10.3	101.9	97.2	92	94	97.9	93.9
V2	4.9	4.8	102.1	94.2	37.3	37.2	100.3	98.4	38.5	38.4	100.3	99.2	10.7	10.7	100.0	99.1	98	99	99.0	100.0
W2	5.0	5.2	96.2	96.2	38.5	39.2	98.2	101.6	39.7	40.4	98.3	102.3	11.6	11.0	105.4	107.4	105	98	107.1	107.1
X2		4.8				37.5				38.8				10.7				98		
Z2		5.7				37.6				38.4				10.6				101		
A3	4.7	4.4	106.8	90.4	38.3	38.4	99.7	101.0	38.6	38.7	99.7	99.5	11.1	11.2	99.1	102.8	103	102	101.0	105.1
	5.1	4.0	127.5	98.1	37.6	37.5	100.3	99.2	38.7	39.0	99.2	99.7	11.2	11.3	99.1	103.7	94	94	100.0	95.9
FKI DATA																				
CUR.																				
AV. 5.3					37.9					38.7					10.9					
CUM.																				
AV. 5.2					37.9					38.8					10.8					
IND.																				
*D 101.9					100.0					99.7					100.9					

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
OCTOBER, 1971

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	4.4	4.2	104.8	84.6	38.3	38.4	99.7	101.0	38.5	38.7	99.5	99.2	11.4	11.2	101.8	105.6	100	102	98.0	102.0	
B1	4.9	6.0	81.7	94.2	38.2	38.3	99.7	100.8	39.4	39.0	101.0	101.5	10.1	10.3	98.0	93.5	107	109	98.2	109.2	
D1	5.4	5.5	98.2	103.8	37.4	37.8	98.9	98.7	38.4	38.8	99.0	99.0	12.4	12.3	100.8	114.8	95	92	103.3	96.9	
E1	5.3	5.0	106.0	101.9	37.9	37.8	100.3	100.0	38.9	39.0	99.7	100.2	10.9	10.8	100.9	100.9	92	93	98.9	93.9	
F1		4.6				38.4				39.7				10.4				101			
G1		7.0				38.0				38.3				11.4				96			
H1	6.6	6.4	103.1	126.9	38.2	37.8	101.0	100.8	38.7	38.4	100.8	99.7	11.0	10.8	101.8	101.8	99	100	99.0	101.0	
I1		4.2				38.0				38.9				11.4	10.3	110.7	105.6	102	98	104.1	104.1
J1	4.5	4.5	100.0	86.5	38.5	37.3	103.2	101.6	39.9	38.7	103.1	102.8	10.7	10.8	99.1	99.1	106	104	101.9	108.2	
K1	5.1			98.1	37.4			98.7	38.5			99.2	11.1			102.8	106			108.2	
L1	3.9	4.5	86.7	75.0	37.1	37.1	100.0	97.9	38.7	38.4	100.8	99.7	10.5	10.3	101.9	97.2	105	105	100.0	107.1	
M1	5.7	5.8	98.3	109.6	38.3	38.2	100.3	101.0	39.2	39.0	100.5	101.0	9.9	10.0	99.0	91.7	96	97	99.0	98.0	
O1	5.6	5.5	101.8	107.7	38.0	38.1	99.7	100.3	38.1	38.2	99.7	98.2					100	98	102.0	102.0	
P1	5.7	5.8	98.3	109.6	37.5	37.6	99.7	98.9	38.4	38.4	100.0	99.0	11.0	10.6	103.8	101.8	106	102	103.9	108.2	
S1		4.5				37.6				38.9				11.8				95			
T1	5.4	5.6	96.4	103.8	37.7	37.7	100.0	99.5	38.7	38.6	100.2	99.7	10.8	10.6	101.9	100.0	96	97	99.0	98.0	
U1		5.4				37.3				38.3				10.5				108			
V1		4.6				37.9				39.2				10.6				103			
X1		5.2				37.2				38.3				9.9				97			
Y1		5.9				38.2				39.0				10.9				101			
Z1		5.5				38.8				39.8				11.4				93			
A2	3.0	3.1	96.8	57.7	36.4	36.6	99.4	96.0	38.3	38.4	99.7	98.7	10.6	10.5	101.0	98.1	95	96	99.0	96.9	
C2	4.1	4.4	93.2	78.8	37.4	37.6	99.5	98.7	38.9	39.0	99.7	100.2	10.7	10.9	98.2	99.1	94	95	98.9	95.9	
D2	4.9	4.6	106.5	94.2	37.4	37.8	98.9	98.7	38.6	39.1	98.7	99.5	11.4	11.7	97.4	105.6	95	97	97.9	96.9	
G2		5.2				38.0				38.5				10.8				94			
H2	5.6	5.9	94.9	107.7	37.8	37.9	99.7	99.7	38.1	38.2	99.7	98.2	11.3	10.8	104.6	104.6	99	105	94.3	101.0	
I2		5.6				38.7				39.6				11.1				100			
J2		3.4				37.0				38.7				10.3				98			
L2	4.5	4.4	102.3	86.5	37.5	37.4	100.3	98.9	38.8	38.8	100.0	100.0	10.2	10.4	98.1	94.4	99	98	101.0	101.0	
M2	5.7	5.6	101.8	109.6	37.9	38.0	99.7	100.0	38.8	38.9	99.7	100.0	11.3	11.0	102.7	104.6	100	98	102.0	102.0	
N2	4.6	5.6	82.1	88.5	38.5	38.8	99.2	101.6	38.6	39.0	99.0	99.5	10.8	11.2	96.4	100.0	99	97	102.1	101.0	
O2	6.2	6.3	98.4	119.2	38.2	38.4	99.5	100.8	38.8	39.0	99.5	100.0	11.7	11.1	105.4	108.3	96	97	99.0	98.0	
Q2	4.8	4.8	100.0	92.3	38.5	38.4	100.3	101.6	39.8	39.7	100.2	102.6	10.2	10.3	99.0	94.4	97	94	103.2	99.0	
R2		4.8				37.2				38.4				10.7				98			
V2	5.1	5.0	102.0	98.1	38.9	39.1	99.5	102.6	40.0	40.3	99.2	103.1	12.1	11.1	109.0	112.0	93	101	92.1	94.9	
W2	4.8	4.8	100.0	92.3	37.4	37.5	99.7	98.7	38.6	38.8	99.5	99.5	10.8	10.7	100.9	100.0	94	97	96.9	95.9	
X2		5.7				37.6				38.4				10.6				101			
Z2	4.5	4.5	100.0	86.5	38.3	38.4	99.7	101.0	38.6	38.7	99.7	99.5	11.2	11.2	100.0	103.7	100	102	98.0	102.0	
A3	4.8	4.3	111.6	92.3	37.6	37.5	100.3	99.2	38.8	38.9	99.7	100.0	11.4	11.3	100.9	105.6	93	94	98.9	94.9	
C3	5.0			96.2	37.4			98.7	38.5			99.2	11.4			105.6	97			99.0	
FKI DATA																					
CUR.																					
AV. 5.0																					
CUM.																					
AV. 5.2																					
IND.																					
*D 96.2																					
37.8																					
38.8																					
11.0																					
98																					
37.9																					
38.8																					
10.8																					
98																					
99.7																					
100.0																					
101.8																					
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
SEPTEMBER, 1971

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	4.5	4.5	100.0	84.9	42.1	42.2	99.8	100.7	42.3	42.7	99.1	98.8	12.1	12.2	99.2	100.8	108	109	99.1	100.9
B1	5.8	6.0	96.7	109.4	41.9	42.4	98.8	100.2	42.8	43.3	98.8	100.0	11.2	11.2	100.0	93.3	122	119	102.5	114.0
D1	5.5	5.3	103.8	103.8	41.5	41.7	99.5	99.3	42.5	42.9	99.1	99.3	13.8	13.4	103.0	115.0	99	100	99.0	92.5
E1	5.3	4.9	108.2	100.0	41.5	41.5	100.0	99.3	42.6	42.8	99.5	99.5	11.8	11.9	99.2	98.3	104	106	98.1	97.2
F1	4.8	5.0	96.0	90.6	41.3	41.5	99.5	98.8	42.7	42.7	100.0	99.8	11.3	11.4	99.1	94.2	108	109	99.1	100.9
G1		7.0				42.0				42.4				12.4				108		
H1	6.5	6.4	101.6	122.6	41.9	41.7	100.5	100.2	42.5	42.3	100.5	99.3	12.0	12.0	100.0	100.0	104	108	96.3	97.2
I1	5.2	4.2	123.8	98.1	43.1	41.7	103.4	103.1	43.3	42.8	101.2	101.2	12.1	11.8	102.5	100.8	112	105	106.7	104.7
J1	4.8	4.5	106.7	90.6	43.1	41.0	105.1	103.1	44.5	42.5	104.7	104.0	12.2	12.1	100.8	101.7	112	112	100.0	104.7
K1		5.3				41.3				42.4				11.7				110		
L1	4.0	4.6	87.0	75.5	40.6	40.8	99.5	97.1	42.3	42.3	100.0	98.8	11.4	11.5	99.1	95.0	112	112	100.0	104.7
M1	5.8	5.7	101.8	109.4	41.9	41.9	100.0	100.2	42.8	42.9	99.8	100.0	11.3	11.2	100.9	94.2	103	104	99.0	96.3
O1	5.6	5.5	101.8	105.7	41.9	42.0	99.8	100.2	42.0	42.2	99.5	98.1					107	104	102.9	100.0
P1	6.2	5.8	106.9	117.0	41.3	41.4	99.8	98.8	42.0	42.3	99.3		12.1	11.7	103.4	100.8	110	106	103.8	102.8
Q1	5.2	5.4	96.3	98.1	42.3	42.4	99.8	101.2	43.5	43.4	100.2	101.6	12.9	13.1	98.5	107.5	110	108	101.8	102.8
S1		4.9				41.5				42.8				12.6				108		
T1	5.9	5.8	101.7	111.3	41.6	41.7	99.8	99.5	42.5	42.6	99.8	99.3	11.7	11.6	100.9	97.5	105	105	100.0	98.1
U1	5.0	5.3	94.3	94.3	41.2	41.0	100.5	98.6	42.4	42.1	100.7	99.1	11.5	11.6	99.1	95.8	113	113	100.0	105.6
V1	4.6	4.5	102.2	86.8	41.5	41.6	99.8	99.3	43.0	43.1	99.8	100.5	11.3	11.4	99.1	94.2	111	109	101.8	103.7
W1	4.5	4.7	95.7	84.9	41.5	41.8	99.3	99.3	43.0	43.2	99.5	100.5	13.2	12.9	102.3	110.0	111	108	102.8	103.7
X1	4.6	5.4	85.2	86.8	41.4	41.0	101.0	99.0	42.8	42.1	101.7	100.0	10.9	11.1	98.2	90.8	107	108	99.1	100.0
Y1	6.1	5.8	105.2	115.1	41.9	41.9	100.0	100.2	42.7	42.8	99.8	99.8	11.9	11.6	102.6	99.2	107	107	100.0	100.0
Z1		6.0				42.5				43.3				12.4				105		
A2	3.5	3.6	97.2	66.0	40.4	40.7	99.3	96.6	42.3	42.5	99.5	98.8	11.7	11.8	99.2	97.5	107	105	101.9	100.0
C2	3.9	4.4	88.6	73.6	41.2	41.5	99.3	98.6	42.9	43.0	99.8	100.2	12.3	12.1	101.6	102.5	102	104	98.1	95.3
D2	5.0	5.2	96.2	94.3	40.9	42.0	97.4	97.8	42.1	43.1	97.7	98.4	12.5	12.8	97.6	104.2	104	104	100.0	97.2
E2		6.5				42.8				43.2				12.7				98		
F2	5.3	5.6	94.6	100.0	41.8	42.3	98.8	100.0	42.9	43.3	99.1	100.2	12.8	12.9	99.2	106.7	107	109	98.2	100.0
G2	5.2	5.1	102.0	98.1	43.0	42.2	101.9	102.9	43.4	42.7	101.6	101.4	11.1	11.8	94.1	92.5	100	102	98.0	93.4
H2	5.8	6.0	96.7	109.4	41.9	41.9	100.0	100.2	42.3	42.4	99.8	98.8	12.2	11.9	102.5	101.7	109	110	99.1	101.9
I2		6.0				42.7				43.5				12.3				106		
J2	4.8	3.5	137.1	90.6	43.4	41.8	103.8	103.8	43.8	43.0	101.9	102.3	11.4	11.6	98.3	95.0	113	106	106.6	105.6
L2	4.3	4.5	95.6	81.1	41.2	41.4	99.5	98.6	42.8	42.9	99.8	100.0	11.8	11.5	102.6	98.3	110	107	102.8	102.8
M2	5.6	5.7	98.2	105.7	41.5	42.1	98.6	99.3	42.5	43.0	98.8	99.3	12.1	12.1	100.0	100.8	111	106	104.7	103.7
N2	5.7	6.1	93.4	107.5	42.3	42.2	100.2	101.2	42.4	42.4	100.0	99.1	12.2	12.4	98.4	101.7	102	103	99.0	95.3
O2	6.8	6.9	98.6	128.3	42.3	42.3	100.0	101.2	42.8	42.7	100.2	100.0	12.7	12.1	105.0	105.8	103	104	99.0	96.8
P2		5.1				41.3				42.5				13.0				108		
Q2	5.8	5.4	107.4	109.4	41.9	42.1	99.5	100.2	42.8	43.2	99.1	100.0	11.3	11.2	100.9	94.2	105	105	100.0	98.1
R2	5.0	5.1	98.0	94.3	41.2	41.2	100.0	98.6	42.4	42.5	99.8	99.1	12.0	12.0	100.0	100.0	106	109	97.2	99.1
S2		5.0				41.4				42.7				12.8				117		
T2	4.7	4.8	97.9	88.7	41.8	42.1	99.3	100.0	43.2	43.4	99.5	100.9	11.5	12.0	95.8	95.8	107	106	100.9	100.0
U2	6.5	6.0	108.3	122.6	41.8	41.7	100.2	100.0	42.4	42.5	99.8	99.1	11.4	11.5	99.1	95.0	111	111	103.6	107.5
V2	5.7	5.8	98.3	107.5	42.2	42.0	100.5	101.0	43.2	42.9	100.7	100.9	12.5	12.0	104.2	104.2	107	107	100.0	100.0
W2	5.1	5.1	100.0	96.2	41.3	41.4	99.8	98.8	42.5	42.7	99.5	99.3	11.9	11.6	102.6	99.2	109	105	103.8	101.9
X2	5.4	5.6	96.4	101.9	41.7	41.4	100.7	99.8	42.8	42.4	100.9	100.0	11.7	12.0	97.5	97.5	104	104	100.0	97.2
Y2	5.2	4.9	106.1	98.1	41.4	41.3	100.2	99.0	42.6	42.6	100.0	99.5	12.3	12.0	102.5	102.5	105	107	98.1	98.1
Z2	5.0	4.8	104.2	94.3	42.4	42.4	100.0	101.4	42.8	42.8	100.0	100.0	12.3	12.3	100.0	102.5	105	107	98.1	98.1
FKI DATA																				
CUR.																				
AV. 5.2																				
CUM.																				
AV. 5.3																				
IND.																				
*D 98.1																				
100.0																				
99.8																				
100.0																				

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
OCTOBER, 1971

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			
	AV.	AV.	*B	*C	AV.	AV.	*B	*C	AV.	AV.	*B	*C	AV.	AV.	*B	*C	AV.	AV.	*B	*C
A1	4.3	4.5	95.6	81.1	42.1	42.2	99.8	100.7	42.3	42.7	99.1	98.8	12.1	12.2	99.2	100.8	108	110	98.2	100.9
B1	5.5	5.9	93.2	103.8	42.3	42.3	100.0	101.2	43.4	43.2	100.5	101.4	11.0	11.2	98.2	91.7	116	119	97.5	108.4
D1		5.3				41.8				42.9				13.5				99		
E1	5.2	4.9	106.1	98.1	41.8	41.5	100.7	100.0	43.0	42.8	100.5	100.5	11.9	11.9	100.0	99.2	104	106	98.1	97.2
F1	4.6	5.0	92.0	86.8	41.2	41.5	99.3	98.6	42.6	42.7	99.8	99.5	11.3	11.3	100.0	94.2	108	109	99.1	100.9
G1	6.7	7.0	95.7	126.4	42.1	42.0	100.2	100.7	42.6	42.4	100.5	99.5	11.8	12.4	95.2	98.3	108	108	100.0	100.9
H1	6.5	6.5	100.0	122.6	41.8	41.7	100.2	100.0	42.4	42.3	100.2	99.1	12.0	12.0	100.0	100.0	106	108	98.1	99.1
I1		4.6			43.0	42.0	102.4	102.9	43.3	42.9	100.9	101.2	12.3	11.8	104.2	102.5	109	106	102.8	101.9
J1	4.3	4.5	95.6	81.1	42.6	41.2	103.4	101.9	44.2	42.7	103.5	103.3	12.0	12.1	99.2	100.0	108	111	97.3	100.9
K1	5.2	5.3	98.1	98.1	41.3	41.3	100.0	98.8	42.5	42.4	100.2	99.3	12.3	11.7	105.1	102.5	107	110	97.3	100.0
L1		4.6				40.8				42.3				11.5				112		
M1	5.9	5.7	103.5	111.3	42.0	41.9	100.2	100.5	42.9	42.8	100.2	100.2	11.2	11.2	100.0	93.3	104	104	100.0	97.2
O1	5.6	5.5	101.8	105.7	42.1	42.0	100.2	100.7	42.2	42.2	100.0	98.6					105	104	101.0	98.1
P1	6.3	5.9	106.8	118.9	41.3	41.4	99.8	98.8	42.0	42.3	99.3	98.1	11.9	11.8	100.8	99.2	107	106	100.9	100.0
Q1	5.3	5.4	98.1	100.0	42.3	42.4	99.8	101.2	43.4	43.5	99.8	101.4	12.8	13.0	98.5	106.7	108	108	100.0	100.9
S1	4.2	4.9	85.7	79.2	42.4	41.5	102.2	101.4	44.1	42.8	103.0	103.0	12.8	12.5	102.4	106.7	109	107	101.9	101.9
T1		5.8				41.7				42.6				11.6				105		
U1	5.0	5.3	94.3	94.3	41.0	41.0	100.0	98.1	42.2	42.2	100.0	98.6	11.6	11.6	100.0	96.7	110	113	97.3	102.8
V1	4.6	4.5	102.2	86.8	41.7	41.6	100.2	99.8	43.2	43.1	100.2	100.9	11.0	11.4	96.5	91.7	112	109	102.8	104.7
W1	4.8	4.7	102.1	90.6	41.7	41.8	99.8	99.8	43.1	43.2	99.8	100.7	13.4	12.9	103.9	111.7	108	109	99.1	100.9
X1	4.3	5.3	81.1	81.1	41.0	41.0	100.0	98.1	42.6	42.1	101.2	99.5	10.6	11.0	96.4	88.3	107	108	99.1	100.0
Y1	6.3	5.9	106.8	118.9	41.9	41.9	100.0	100.2	42.6	42.8	99.5	99.5	11.8	11.6	101.7	98.3	108	107	100.9	100.9
Z1		6.1				42.5				43.3				12.5				105		
A2	3.6	3.6	100.0	67.9	40.5	40.7	99.5	96.9	42.4	42.5	99.8	99.1	12.1	11.8	102.5	100.8	108	105	102.8	100.9
C2	4.2	4.4	95.4	79.2	41.4	41.4	100.0	99.0	43.0	43.0	100.0	100.5	11.8	12.1	97.5	98.3	103	104	99.0	96.3
D2	5.3	5.1	103.9	100.0	41.2	41.8	98.6	98.6	42.3	43.0	98.4	98.8	12.6	12.7	99.2	105.0	103	104	99.0	96.3
E2		6.5				42.8				43.2				12.7				98		
F2		5.6				42.2				43.3				12.9				109		
G2	4.2	5.0	84.0	79.2	42.8	42.3	101.2	102.4	43.2	42.7	101.2	100.9	11.3	11.7	96.6	94.2	102	102	100.0	95.3
H2	5.9	6.0	98.3	111.3	41.7	41.9	99.5	99.8	42.1	42.3	99.5	98.4	11.8	11.9	99.2	98.3	106	110	96.4	99.1
I2		6.0				42.7				43.5				12.3				106		
J2		3.9			43.4	42.2	102.8	103.8	43.4	43.2	100.5	101.4	11.0	11.4	96.5	91.7	112	107	104.7	104.7
L2		4.5				41.4				42.9				11.5				107		
M2	5.9	5.7	103.5	111.3	42.1	42.0	100.2	100.7	43.0	43.0	100.0	100.5	12.5	12.1	103.3	104.2	108	106	101.9	100.9
N2	5.2	6.0	86.7	98.1	43.0	42.2	101.9	102.9	43.1	42.4	101.6	100.7	12.1	12.4	97.6	100.8	104	102	102.0	97.2
O2	6.8	6.9	98.6	128.3	42.3	42.3	100.0	101.2	42.8	42.7	100.2	100.0	12.8	12.2	104.9	106.7	103	104	99.0	96.3
P2		5.1				41.3				42.5				13.1				108		
Q2	6.1	5.5	110.9	115.1	42.1	42.1	100.0	100.7	42.9	43.1	99.5	100.2	11.2	11.2	100.0	93.3	106	105	101.0	99.1
R2		5.0				41.2				42.4				12.0				108		
S2		5.0				41.4				42.6				12.8				116		
T2	5.5	4.8	114.6	103.8	41.4	42.1	98.3	99.0	42.4	43.4	97.7	99.1	11.5	11.9	96.6	95.8	109	106	102.8	101.9
U2		6.1				41.8				42.5				11.5				112		
V2	6.0	5.7	105.3	113.2	42.2	42.0	100.5	101.0	43.0	42.9	100.2	100.5	12.5	12.1	103.3	104.2	106	107	99.1	99.1
W2	5.3	5.0	106.0	100.0	41.4	41.4	100.0	99.0	42.5	42.7	99.5	99.3	11.8	11.6	101.7	98.3	104	106	98.1	97.2
X2	5.4	5.6	96.4	101.9	41.6	41.5	100.2	99.5	42.7	42.5	100.5	99.8	12.1	12.0	100.8	100.8	103	104	99.0	96.3
Y2		4.9				41.3				42.7				12.0				106		
Z2	4.7	4.8	97.9	88.7	42.4	42.4	100.0	101.4	42.8	42.8	100.0	100.0	12.2	12.3	99.2	101.7	106	106	100.0	99.1
FKI DATA																				
CUR.																				
AV. 5.2																				
CUM.																				
AV. 5.3																				
IND.																				
*D 98.1																				
100.2																				
100.0																				
99.2																				
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
SEPTEMBER, 1971

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	3.7	3.9	94.9	63.8	69.6	69.3	100.4	101.4	69.9	70.0	99.8	100.0	21.7	21.1	102.8	110.7	152	146	104.1	105.6
B1	6.2	6.5	95.4	106.9	69.1	69.0	100.1	100.7	70.3	70.0	100.4	100.6	19.7	19.4	101.5	100.5	151	150	100.7	104.9
E1	5.0	4.8	104.2	86.2	67.7	68.0	99.6	98.7	69.7	70.2	99.3	99.7	20.4	20.3	100.5	104.1	147	147	100.0	102.1
F1	5.3	5.2	101.9	91.4	68.2	68.6	99.4	99.4	70.0	70.5	99.3	100.1	18.0	18.2	98.9	91.8	147	148	99.3	102.1
G1	7.3	7.2	101.4	125.9	69.6	69.5	100.1	101.4	69.9	70.0	99.8	100.0	19.9	19.3	103.1	101.5	144	150	96.0	100.0
H1	6.5	6.8	95.6	112.1	68.7	68.6	100.1	100.1	69.7	69.4	100.4	99.7	20.0	19.2	104.2	102.0	140	151	92.7	97.2
I1	5.2	5.0	104.0	89.6	70.7	68.7	102.9	103.1	71.1	70.0	101.6	101.7	19.4	19.9	97.5	99.0	150	146	102.7	104.2
J1	4.7	4.0	117.5	81.0	69.6	67.4	103.3	101.4	72.0	70.2	102.6	103.0	19.5	19.6	99.5	99.5	153	155	98.7	106.2
K1	6.0	5.8	103.4	103.4	68.4	68.4	100.0	99.7	69.8	69.9	99.8	99.8	19.3	18.7	103.2	98.5	146	147	99.3	101.4
L1	3.5	4.3	81.4	60.3	66.8	67.2	99.4	97.4	69.9	69.7	100.3	100.0	17.9	18.6	96.2	91.3	152	149	102.0	105.6
M1	6.7	6.8	98.5	115.5	67.9	68.4	99.3	99.0	68.7	69.1	99.4	98.3	19.7	19.4	101.5	100.5	139	138	100.7	96.5
O1	5.8	6.2	93.5	100.0	68.7	68.5	100.3	100.1	68.9	68.8	100.1	98.6					154	147	104.8	106.9
P1		6.6				68.6				69.5				20.0				136		
Q1		5.6				69.0				70.7				22.1				147		
V1	4.7	4.6	102.2	81.0	67.9	67.9	100.0	99.0	70.2	70.3	99.8	100.4	19.4	19.6	99.0	99.0	147	141	104.2	102.1
W1		5.4				68.9				70.7				22.5				146		
X1	4.6	4.9	93.9	79.3	68.1	67.6	100.7	99.3	70.5	69.7	101.1	100.8	19.0	18.4	103.3	96.9	148	148	100.0	102.8
Y1	6.8	6.8	100.0	117.2	68.6	68.7	99.8	100.0	69.4	69.5	99.8	99.3	20.0	19.6	102.0	102.0	146	146	100.0	101.4
A2	4.4	4.3	102.3	75.9	66.6	67.2	99.1	97.1	69.1	69.7	99.1	98.8	19.7	19.5	101.0	100.5	149	144	103.5	103.5
D2	5.2	5.6	92.8	89.6	67.6	68.8	98.2	98.5	69.5	70.5	98.6	99.4	20.3	21.2	95.8	103.6	138	140	98.6	95.8
F2	5.2	5.2	100.0	89.6	69.1	69.3	99.7	100.7	71.0	71.2	99.7	101.6	21.2	20.6	102.9	108.2	137	142	96.5	95.1
G2	6.0	6.1	98.4	103.4	69.9	69.3	100.9	101.9	70.5	69.9	100.8	100.8	18.8	19.2	97.9	95.9	141	141	100.0	97.9
H2	5.9	6.7	88.0	101.7	68.7	68.9	99.7	100.1	69.2	69.4	99.7	99.0	18.1	19.1	94.8	92.3	159	152	104.6	110.4
I2		6.6				70.0				70.9				20.5				140		
J2	4.7	3.9	120.5	81.0	71.3	68.4	104.2	103.9	71.5	70.3	101.7	102.3	19.0	19.0	100.0	96.9	151	145	104.1	104.9
M2	6.0	6.0	100.0	103.4	68.6	69.1	99.3	100.0	70.0	70.4	99.4	100.1	19.7	20.0	98.5	100.5	140	139	100.7	97.2
N2	6.3	6.2	101.6	108.6	69.4	69.4	100.0	101.2	69.6	69.8	99.7	99.6	20.8	20.7	100.5	106.1	143	143	100.0	99.3
O2	7.7	7.6	101.3	132.8	69.6	69.6	100.0	101.4	69.7	69.8	99.8	99.7	20.9	20.2	103.5	106.6	141	142	99.3	97.9
P2		5.3				68.0				69.8				21.3				146		
Q2	6.6	6.5	101.5	113.8	69.4	69.4	100.0	101.2	70.3	70.3	100.0	100.6	18.8	18.7	100.5	95.9	144	144	100.0	100.0
S2	6.2	6.1	101.6	106.9	69.1	68.1	101.5	100.7	70.3	69.3	101.4	100.6	18.7	18.5	101.1	95.4	159	153	103.9	110.4
T2	5.7	5.3	107.5	98.3	69.0	68.9	100.1	100.6	70.6	70.7	99.8	101.0	19.7	19.9	99.0	100.5	137	140	97.8	95.1
U2	5.9	6.4	92.2	101.7	68.6	68.9	99.5	100.0	70.0	69.9	100.1	100.1	19.4	19.6	99.0	99.0	142	142	100.0	98.6
V2	6.6	6.3	104.8	113.8	69.4	69.0	100.6	101.2	70.3	70.1	100.3	100.6	20.1	19.1	105.2	102.6	147	147	100.0	102.1
W2	5.9	5.8	101.7	101.7	68.1	68.2	99.8	99.3	69.5	69.7	99.7	99.4	19.0	19.3	98.4	96.9	134	136	98.5	93.0
X2	6.4	6.2	103.2	110.3	67.8	67.8	100.0	98.8	68.8	68.9	99.8	98.4	19.8	20.2	98.0	101.0	133	133	100.0	92.4
Y2	7.1	7.2	98.6	122.4	69.4	69.5	99.8	101.2	70.0	70.0	100.0	100.1	19.4	19.3	100.5	99.0	142	142	100.0	98.6
Z2	5.4	5.3	101.9	93.1	69.6	69.6	100.0	101.4	70.2	70.1	100.1	100.4	19.6	19.6	100.0	100.0	143	142	100.7	99.3
FKI DATA																				
CUR.																				
AV. 5.7																				
CUM.																				
AV. 5.8																				
IND.																				
*D 98.3																				
100.3																				
100.1																				
100.0																				
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
OCTOBER, 1971

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	5.1	3.9	130.8	87.9	68.9	69.3	99.4	100.3	69.2	70.0	98.8	99.0	20.9	21.1	99.0	106.6	146	147	99.3	101.4	
B1	6.1	6.4	95.3	105.2	69.3	69.0	100.4	100.9	70.5	70.0	100.7	100.8	18.6	19.5	95.4	94.9	148	150	98.7	102.8	
E1	4.9	4.8	102.1	84.5	67.8	68.0	99.7	98.7	69.9	70.1	99.7	100.0	20.3	20.3	100.0	103.6	144	147	98.0	100.0	
F1	5.1	5.2	98.1	87.9	68.3	68.5	99.7	99.4	70.3	70.4	99.8	100.6	18.0	18.2	98.9	91.8	146	148	98.6	101.4	
G1		7.2				69.6				70.0				19.6				147			
H1	6.7	6.8	98.5	115.5	68.5	68.6	99.8	99.7	69.3	69.4	99.8	99.1	20.0	19.3	103.6	102.0	146	150	97.3	101.4	
I1		5.0			70.3	69.0	101.9	102.3	70.5	70.2	100.4	100.8	19.2	19.8	97.0	98.0	152	146	104.1	105.6	
J1	4.1	4.1	100.0	70.7	70.2	67.7	103.7	102.2	73.0	70.4	103.7	104.4	20.1	19.6	102.6	102.6	153	154	99.4	106.2	
K1		5.8				68.4				69.9				18.8				147			
L1		4.3				67.2				69.8				18.5				149			
M1	7.0	6.8	102.9	120.7	68.2	68.4	99.7	99.3	68.8	69.1	99.6	98.4	19.3	19.4	99.5	98.5	138	138	100.0	95.8	
O1	6.1	6.1	100.0	105.2	68.8	68.4	100.6	100.1	69.0	68.7	100.4	98.7					150	147	102.0	104.2	
P1		6.6				68.6				69.5				20.0				136			
Q1		5.6				69.0				70.7				22.1				147			
V1	4.8	4.6	104.3	82.8	68.3	67.9	100.6	99.4	70.6	70.3	100.4	101.0	19.3	19.6	98.5	98.5	145	142	102.1	100.7	
W1		5.4				68.9				70.7				22.5				146			
X1		4.9				67.6				69.8				18.4				148			
Y1	6.9	6.8	101.5	119.0	68.7	68.7	100.0	100.0	69.4	69.5	99.8	99.3	19.9	19.6	101.5	101.5	146	146	100.0	101.4	
A2	4.1	4.4	93.2	70.7	66.9	67.1	99.7	97.4	69.6	69.6	100.0	99.6	19.9	19.4	102.6	101.5	146	144	101.4	101.4	
D2	4.9	5.5	89.1	84.5	67.8	68.7	98.7	98.7	69.9	70.4	99.3	100.0	20.3	21.1	96.2	103.6	136	139	97.8	94.4	
F2	5.1	5.2	98.1	87.9	69.0	69.2	99.7	100.4	71.0	71.2	99.7	101.6	22.4	20.6	108.7	114.3	137	141	97.2	95.1	
G2	5.5	5.9	93.2	94.8	69.7	69.3	100.6	101.4	70.3	69.9	100.6	100.6	18.6	19.2	96.9	94.9	141	141	100.0	97.9	
H2	6.5	6.6	98.5	112.1	68.5	69.0	99.3	99.7	69.0	69.4	99.4	98.7	18.9	19.0	99.5	96.4	152	153	99.3	105.6	
I2		6.6				70.1				71.0				20.5				140			
J2		4.2				69.9	69.0	101.3	101.7	70.2	70.6	99.4	100.4	18.7	18.9	98.9	95.4	154	146	105.5	106.9
M2	6.2	6.0	103.3	106.9	69.0	69.1	99.8	100.4	70.2	70.4	99.7	100.4	20.0	19.9	100.5	102.0	139	139	100.0	96.5	
N2	6.3	6.2	101.6	108.6	69.2	69.4	99.7	100.7	69.4	69.8	99.4	99.3	20.7	20.8	99.5	105.6	135	143	94.4	93.8	
O2	7.7	7.6	101.3	132.8	69.7	69.6	100.1	101.4	69.8	69.7	100.1	99.8	21.2	20.3	104.4	108.2	142	142	100.0	98.6	
P2		5.4				68.0				69.8				21.4				146			
Q2	7.2	6.4	112.5	124.1	69.2	69.4	99.7	100.7	69.7	70.4	99.0	99.7	18.6	18.7	99.5	94.9	146	144	101.4	101.4	
R2	6.2		106.9		68.5		99.7		69.7		99.7			19.6		100.0		146		101.4	
S2	6.1	6.1	100.0	105.2	69.0	68.1	101.3	100.4	70.2	69.3	101.3	100.4	18.9	18.6	101.6	96.4	155	154	100.6	107.6	
T2	5.4	5.4	100.0	93.1	68.2	68.9	99.0	99.3	70.0	70.7	99.0	100.1	19.7	19.8	99.5	100.5	139	140	99.3	96.5	
U2	6.3	6.3	100.0	108.6	68.5	68.8	99.6	99.7	69.6	69.9	99.6	99.6	19.3	19.5	99.0	98.5	142	142	100.0	98.6	
V2	6.5	6.2	104.8	112.1	69.5	69.0	100.7	101.2	70.5	70.2	100.4	100.8	20.5	19.2	106.8	104.6	150	148	101.4	104.2	
W2	6.1	5.8	105.2	105.2	68.4	68.1	100.4	99.6	69.6	69.6	100.0	99.6	19.0	19.4	97.9	96.9	136	136	100.0	94.4	
X2	6.8	6.2	109.7	117.2	67.8	67.8	100.0	98.7	68.5	68.9	99.4	98.0	20.5	20.2	101.5	104.6	132	133	99.2	91.7	
Y2	7.2	7.1	101.4	124.1	69.5	69.5	100.0	101.2	70.0	70.0	100.0	100.1	19.3	19.3	100.0	98.5	142	142	100.0	98.6	
Z2	5.6	5.4	103.7	96.6	69.4	69.6	99.7	101.0	70.0	70.2	99.7	100.1	19.8	19.6	101.0	101.0	141	142	99.3	97.9	
B3	4.5			77.6	68.7			100.0	71.2			101.8	20.6			105.1	143			99.3	
FKI DATA																					
CUR.																					
AV. 5.9																					
CUM.																					
AV. 5.8																					
IND																					
*D 101.7																					
100.1																					
100.1																					
100.5																					
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
SEPTEMBER, 1971

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		5.0				89.9				91.1				27.9				172		
E1	5.4	5.2	103.8	90.0	89.5	89.1	100.4	100.0	91.8	91.6	100.2	100.9	26.8	26.7	100.4	105.5	176	179	98.3	102.9
H1		6.7				90.3				91.4				25.0				193		
I1	5.8	5.3	109.4	96.7	91.2	89.3	102.1	101.9	91.6	91.2	100.4	100.6	24.9	24.8	100.4	98.0	182	178	102.2	106.4
J1	4.4			73.3	90.1			100.7	93.4			102.6	24.4			96.1	190			111.1
K1	5.8	5.9	98.3	96.7	89.9	89.0	101.0	100.4	91.9	90.9	101.1	101.0	25.5	25.0	102.0	100.4	167	173	96.5	97.7
L1		3.9				86.9				90.5				24.3				191		
O1	5.9	5.9	100.0	98.3	88.3	89.1	99.1	98.6	88.6	89.5	99.0	97.4					180	172	104.6	105.3
X1		5.2				87.8				90.4				24.0				178		
Y1	7.2	7.1	101.4	120.0	89.3	90.1	99.1	99.8	89.9	90.8	99.0	98.8	27.0	25.6	105.5	106.3	172	174	98.8	100.6
Z1		7.1				91.3				92.0				25.7				168		
A2	4.5	4.1	109.8	75.0	87.5	87.0	100.6	97.8	90.6	90.5	100.1	99.6	25.8	25.8	100.0	101.6	165	166	99.4	96.5
D2	5.0	5.6	89.3	83.3	87.3	89.3	97.8	97.5	89.9	91.4	98.4	98.8	26.1	26.6	98.1	102.8	165	165	100.0	96.5
F2	5.4	5.3	101.9	90.0	89.4	90.4	98.9	99.9	91.7	92.8	98.8	100.8	27.9	27.2	102.6	109.8	154	160	96.2	90.0
J2	5.1	4.1	124.4	85.0	92.5	89.3	103.6	103.4	93.2	91.8	101.5	102.4	25.8	25.7	100.4	101.6	178	178	100.0	104.1
M2	6.2	6.3	98.4	103.3	90.1	90.0	100.1	100.7	91.6	91.4	100.2	100.6	26.1	26.2	99.6	102.8	172	175	98.3	100.6
Q2	7.4	7.0	105.7	123.3	90.5	89.9	100.7	101.1	90.9	90.6	100.3	99.9	24.8	24.2	102.5	97.6	171	172	99.4	100.0
S2	6.0	6.3	95.2	100.0	89.4	88.8	100.7	99.9	91.2	90.1	101.2	100.2	24.5	24.6	99.6	96.4	199	181	109.9	116.4
T2	4.9	5.7	86.0	81.7	91.4	91.1	100.3	102.1	94.2	93.2	101.1	103.5	25.5	24.3	104.9	100.4	161	164	98.2	94.2
U2	6.3	6.4	98.4	105.0	89.3	89.6	99.7	99.8	90.7	90.9	99.8	99.7	24.9	24.8	100.4	98.0	160	162	98.8	93.6
V2	6.9	6.6	104.5	115.0	89.7	89.5	100.2	100.2	90.6	90.6	100.0	99.6	24.9	24.4	102.0	98.0	187	177	105.6	109.4
W2	5.7	5.9	96.6	95.0	88.7	88.8	99.9	99.1	90.7	90.7	100.0	99.7	25.2	25.0	100.8	99.2	160	163	98.2	93.6
X2		6.2				87.5				89.0				25.8				163		
Y2	8.2	8.1	101.2	136.7	90.5	90.6	99.9	101.1	90.1	90.2	99.9	99.0	23.4	23.5	99.6	92.1	165	165	100.0	96.5
Z2	5.9	5.6	105.4	98.3	90.9	90.6	100.3	101.6	91.7	91.3	100.4	100.8	25.8	26.0	99.2	101.6	170	165	103.0	99.4
FKI DATA																				
CUR.																				
AV.	5.9				89.8				91.3				25.5				172			
CUM.																				
AV.	6.0				89.5				91.0				25.4				171			
IND.																				
*D	98.3				100.3				100.3				100.4				100.6			

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
OCTOBER, 1971

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		5.3				90.2				92.6				27.0				174		
E1	5.2	5.2	100.0	86.7	88.8	89.1	99.7	99.2	91.3	91.6	99.7	100.3	26.6	26.7	99.6	105.1	173	178	97.2	101.2
H1		6.7				90.3				91.4				25.0				193		
I1		5.3			91.1	89.6	101.7	101.8	92.4	91.3	101.2	101.5	25.5	24.9	102.4	100.8	187	179	104.5	109.4
J1		4.4				90.1				93.4				24.4				190		
K1		5.9				89.1				91.0				25.0				172		
L1		4.0				86.9				90.5				24.3				191		
O1	5.8	5.9	98.3	96.7	89.5	89.0	100.5	100.0	89.8	89.4	100.4	98.7					171	173	98.8	100.0
X1		5.2				87.8				90.4				24.0				178		
Y1	7.4	7.1	104.2	123.3	89.9	90.0	99.9	100.4	90.3	90.6	99.7	99.2	26.4	25.8	102.3	104.3	170	173	98.3	99.4
Z1		7.1				91.3				92.0				25.7				168		
A2		4.3				87.1				90.4				25.6				166		
D2	5.3	5.6	94.6	88.3	90.4	89.1	101.4	101.0	92.8	91.3	101.6	102.0	26.8	26.6	100.8	105.9	165	165	100.0	96.5
F2	5.3	5.3	100.0	88.3	89.4	90.3	99.0	99.9	91.8	92.7	99.0	100.9	26.5	27.2	97.4	104.7	160	160	100.0	93.6
J2		4.5				90.1				92.0			23.1	25.5	90.6	91.3	179	179	100.0	104.7
M2	6.7	6.3	106.3	111.7	90.2	90.0	100.2	100.8	91.3	91.4	99.9	100.3	25.8	26.2	98.5	102.0	172	174	98.8	100.6
Q2	7.1	7.0	101.4	118.3	90.3	89.9	100.4	100.9	91.0	90.7	100.3	100.0	24.3	24.3	100.0	96.0	173	171	101.2	101.2
R2	6.2			103.3	89.3			99.8	90.8			99.8	26.1			103.2	171			100.0
S2	6.1	6.3	96.8	101.7	88.6	88.9	99.7	99.0	90.2	90.3	99.9	99.1	25.1	24.6	102.0	99.2	187	183	102.2	109.4
T2		5.6				91.1				93.3				24.4				163		
U2	6.1	6.4	95.3	101.7	89.2	89.5	99.7	99.7	90.8	90.9	99.9	99.8	24.4	24.8	98.4	96.4	161	162	99.4	94.2
V2	6.7	6.6	101.5	111.7	89.5	89.5	100.0	100.0	90.6	90.6	100.0	99.6	25.7	24.4	105.3	101.6	184	178	103.4	107.6
W2	6.0	5.9	101.7	100.0	89.1	88.8	100.3	99.6	90.9	90.7	100.2	99.9	25.5	25.1	101.6	100.8	162	163	99.4	94.7
X2	6.4	6.2	103.2	106.7	87.6	87.5	100.1	97.9	88.9	89.0	99.9	97.7	26.1	25.8	101.2	103.2	164	163	100.6	95.9
Y2	8.0	8.1	98.8	133.3	90.6	90.6	100.0	101.2	90.4	90.3	100.1	99.3	23.4	23.4	100.0	92.5	165	165	100.0	96.5
Z2	5.1	5.6	91.1	85.0	90.5	90.6	99.9	101.1	91.3	91.4	99.9	100.3	25.6	26.0	98.5	101.2	169	166	101.8	98.8
B3	5.5			91.7	88.8			99.2	91.0			100.0	25.9			102.4	174			101.8
FKI DATA																				
CUR.																				
AV. 6.2																				
CUM.																				
AV. 6.0																				
IND.																				
*D 103.3																				
100.1																				
99.9																				
100.4																				
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
SEPTEMBER AND OCTOBER, 1971

Code	Conditioning Environment				Testing Environment
	Are Quality Samples Conditioned Before Testing?	Time	R.H., %	Temp., °F.	Are Quality Samples Tested Under Controlled Conditions of Temperature & Humidity?
A1	Yes	5-20 min.	--	--	Yes: $72 \pm 1^\circ\text{F.}; 50 \pm 5\% \text{ R.H.}$
B1	No	--	--	--	Yes: $73 \pm 2^\circ\text{F.}; 50 \pm 2\% \text{ R.H.}$
C1	No	--	--	--	Yes: $73 \pm 3.5^\circ\text{F.}; 50 \pm 2\% \text{ R.H.}$
D1	No	--	--	--	Yes: $73 \pm 3^\circ\text{F.}; 50 \pm 2\% \text{ R.H.}$
E1	Yes	10 min.	--	--	Yes: $72 \pm 2^\circ\text{F.}; 50 \pm 2\% \text{ R.H.}$
F1	No	--	--	--	No
G1	No	--	--	--	Yes: $72 \pm 2^\circ\text{F.}; 55 \pm 5\% \text{ R.H.}$
H1	No	--	--	--	No
I1	Yes	Note ^a	--	--	Yes: $72 \pm 2^\circ\text{F.}; 50 \pm 2\% \text{ R.H.}$
J1	Yes	15 min.	--	--	Yes: $73 \pm 3.5^\circ\text{F.}; 50 \pm 2\% \text{ R.H.}$
K1	No	--	--	--	Yes: $73 \pm 2^\circ\text{F.}; 50 \pm 5\% \text{ R.H.}$
L1	No	--	--	--	No
M1	No	--	--	--	Yes: $73 \pm 2^\circ\text{F.}; 50 \pm 2\% \text{ R.H.}$
N1	No	--	--	--	Yes: $73 \pm 2^\circ\text{F.}; 50 \pm 2\% \text{ R.H.}$
O1	No	--	--	--	No
P1	No	--	--	--	No
Q1	No	--	--	--	Yes: $70 \pm 2^\circ\text{F.}; 50 \pm 2\% \text{ R.H.}$
R1	No	--	--	--	No
S1	No	--	--	--	No
T1	No	--	--	--	No
U1	No	--	--	--	No
V1	No	--	--	--	Yes: $73 \pm 3.5^\circ\text{F.}; 50 \pm 2\% \text{ R.H.}$
W1	No	--	--	--	No
X1	No	--	--	--	No
Y1	No	--	--	--	No
Z1	No data submitted for September and October				No
A2	No	--	--	--	No
B2	No data submitted for September and October				No
C2	No	--	--	--	Yes: $73 \pm 3^\circ\text{F.}; 50 \pm 1\% \text{ R.H.}$
D2	No	--	--	--	No
E2	No data submitted for September and October				No
F2	No	--	--	--	Yes: $70 \pm 2^\circ\text{F.}; 50 \pm 2\% \text{ R.H.}$
G2	Yes	Note ^b	--	--	Yes: $73 \pm 2^\circ\text{F.}; 50 \pm 2\% \text{ R.H.}$
H2	Yes	15 min.	--	--	Yes: $73 \pm 2^\circ\text{F.}; 50 \pm 1\% \text{ R.H.}$
I2	No data submitted for September and October				No
J2	Yes	Note ^a	--	--	Yes: $72 \pm 2^\circ\text{F.}; 50 \pm 2\% \text{ R.H.}$
K2	No	--	--	--	Yes: $73 \pm 2^\circ\text{F.}; 50 \pm 2\% \text{ R.H.}$
L2	No	--	--	--	Yes: $73 \pm 3.5^\circ\text{F.}; 50 \pm 2\% \text{ R.H.}$
M2	No	--	--	--	Yes: $73 \pm 2^\circ\text{F.}; 50 \pm 2\% \text{ R.H.}$
N2	No	--	--	--	No
O2	No	--	--	--	No
P2	No data submitted for September and October				No
Q2	No	--	--	--	No
R2	No	--	--	--	Yes: $73 \pm 2^\circ\text{F.}; 50 \pm 5\% \text{ R.H.}$
S2	No	--	--	--	No
T2	No	--	--	--	Yes: $73 \pm 3^\circ\text{F.}; 50 \pm 2\% \text{ R.H.}$
U2	No	--	--	--	No
V2	No	--	--	--	No
W2	No	--	--	--	Yes: $73 \pm 3^\circ\text{F.}; 50 \pm 5\% \text{ R.H.}$
X2	No	--	--	--	Yes: $73 \pm 2^\circ\text{F.}; 50 \pm 2\% \text{ R.H.}$
Y2	No	--	--	--	No
Z2	No	--	--	--	Yes: $73 \pm 3^\circ\text{F.}; 50 \pm 2\% \text{ R.H.}$
A3	No	--	--	--	No
B3	No	--	--	--	No
C3	No	--	--	--	No

^aSamples were brought to equilibrium at standard temperature and humidity.

^bSamples are rapidly conditioned to 73°F. and $50\% \text{ R.H.}$ by air blast.

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A handwritten signature in dark ink, appearing to read "R C McKee", written in a cursive style.

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

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

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

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

^aCMA = current machine average for a specific physical property of a specific linerboard grade weight obtained during a given month on a specific machine.

^bCFKIA = current FKI average for a specific physical property of a specific linerboard grade weight obtained during a given month.

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