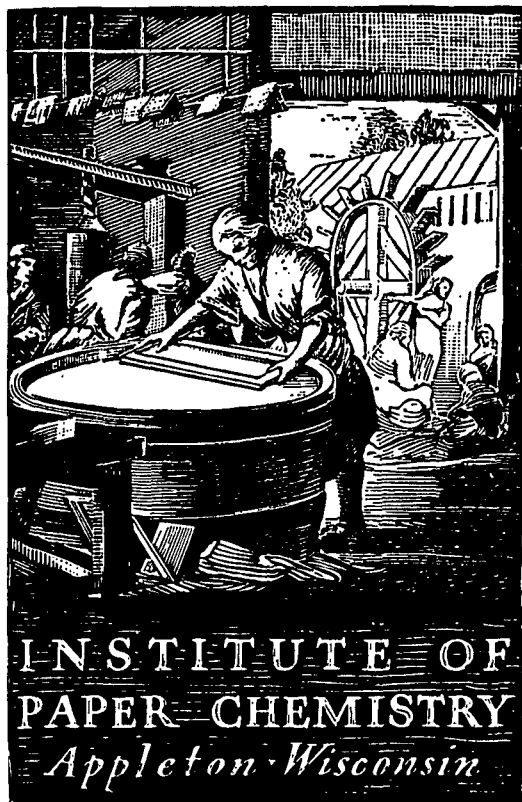


BASE-LINE
JULY-AUGUST, 1976



**CONTINUOUS BASE-LINE STUDY (MODIFIED)
(MILL LINERBOARD DATA FOR JULY AND
AUGUST, 1976)**

Project 2694-1

**Report Fifty-eight
A Progress Report
to**

FOURDRINIER KRAFT BOARD INSTITUTE, INC.

October 27, 1976

BASE-LINE
JULY-AUGUST, 1976

THE INSTITUTE OF PAPER CHEMISTRY

Appleton, Wisconsin

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(MILL LINERBOARD DATA FOR JULY AND AUGUST, 1976)

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

October 27, 1976

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THE INSTITUTE OF PAPER CHEMISTRY

Appleton, Wisconsin

CONTINUOUS BASE-LINE STUDY (MODIFIED)
(MILL LINERBOARD DATA FOR JULY AND AUGUST, 1976)

SUMMARY

PART I: SUMMARY OF MOISTURE CONTENT DATA
(MAY-AUGUST, 1976)

Linerboard Grade Wt.		Moisture Content			
		May	June	July	August
26 Lb	Max. ^a	6.7	6.4	6.9	6.5
	Min. ^a	0.4	0.4	2.3	0.5
	Av. ^b	4.4 (19)	4.3 (19)	4.7 (17)	4.3 (20)
33 Lb	Max. ^a	6.5	6.4	6.6	6.5
	Min. ^a	1.5	1.7	1.5	1.4
	Av. ^b	4.8 (27)	4.7 (26)	4.6 (26)	4.6 (29)
38 Lb	Max. ^a	6.4	6.3	6.4	6.0
	Min. ^a	2.1	2.3	1.8	2.1
	Av. ^b	5.2 (21)	5.0 (22)	5.1 (21)	4.8 (22)
42 Lb	Max. ^a	6.9	6.5	6.7	6.7
	Min. ^a	3.0	2.9	2.8	3.0
	Av. ^b	5.3 (41)	5.2 (42)	5.2 (42)	5.2 (43)
69 Lb	Max. ^a	7.4	7.9	8.0	7.8
	Min. ^a	3.5	3.8	3.8	3.2
	Av. ^b	5.9 (31)	5.9 (32)	6.0 (29)	5.8 (30)
90 Lb	Max. ^a	7.8	7.8	7.6	7.5
	Min. ^a	3.5	2.9	4.4	3.8
	Av. ^b	6.1 (13)	5.9 (13)	6.1 (12)	5.9 (14)

^aCurrent machine average.

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

PART II: SUMMARY OF ADJUSTED BASIS WEIGHT DATA
(MAY-AUGUST, 1976)

Linerboard Grade Wt.		Adjusted Basis Weight, lb/M ft ²			
		May	June	July	August
26 Lb	Max. ^a	27.5	27.9	27.9	27.5
	Min. ^a	25.9	25.8	25.6	25.6
	Av. ^b	26.7 (19)	26.7 (19)	26.7 (17)	26.6 (20)
33 Lb	Max. ^a	34.1	35.0	34.9	34.7
	Min. ^a	32.7	33.0	32.4	32.4
	Av. ^b	33.5 (27)	33.6 (26)	33.5 (26)	33.5 (29)
38 Lb	Max. ^a	40.7	40.2	40.2	39.2
	Min. ^a	38.1	38.0	37.8	37.5
	Av. ^b	38.7 (21)	38.8 (22)	38.5 (21)	38.6 (22)
42 Lb	Max. ^a	44.0	43.7	43.4	45.0
	Min. ^a	41.6	41.8	41.4	41.2
	Av. ^b	42.5 (41)	42.5 (42)	42.5 (42)	42.5 (43)
69 Lb	Max. ^a	70.5	70.8	70.5	70.6
	Min. ^a	68.9	68.4	68.1	67.7
	Av. ^b	69.6 (31)	69.6 (32)	69.6 (29)	69.6 (30)
90 Lb	Max. ^a	91.6	91.7	91.7	91.7
	Min. ^a	89.9	90.0	89.7	89.6
	Av. ^b	90.8 (13)	90.8 (13)	90.8 (12)	90.8 (14)

^aCurrent machine average.

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

PART III: SUMMARY OF CALIPER DATA
(MAY-AUGUST, 1976)

Linerboard Grade Wt.		Caliper, pt.			
		May	June	July	August
26 Lb	Max. ^a	8.9	8.8	9.3	8.3
	Min. ^a	7.2	7.1	7.2	6.9
	Av. ^b	8.0 (18)	8.0 (18)	8.2 (16)	7.8 (20)
33 Lb	Max. ^a	10.8	11.2	11.0	10.8
	Min. ^a	9.2	9.1	9.1	8.9
	Av. ^b	9.9 (26)	10.0 (25)	9.9 (25)	9.8 (28)
38 Lb	Max. ^a	11.6	11.9	11.9	11.8
	Min. ^a	10.0	10.1	10.0	10.0
	Av. ^b	11.0 (20)	11.0 (21)	11.1 (20)	11.0 (21)
42 Lb	Max. ^a	13.3	13.2	13.2	13.6
	Min. ^a	10.8	10.7	11.1	10.8
	Av. ^b	12.1 (40)	12.1 (41)	12.1 (41)	12.1 (41)
69 Lb	Max. ^a	21.7	21.4	21.4	21.8
	Min. ^a	17.6	17.9	18.0	18.5
	Av. ^b	19.8 (31)	19.7 (32)	19.6 (29)	19.9 (30)
90 Lb	Max. ^a	27.4	27.5	27.7	27.5
	Min. ^a	23.4	24.6	24.2	24.6
	Av. ^b	25.5 (13)	25.7 (13)	25.5 (12)	25.9 (14)

^a Current machine average.

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

PART IV: SUMMARY OF BURSTING STRENGTH DATA
(MAY-AUGUST, 1976)

Linerboard Grade Wt.		Bursting Strength, psig			
		May	June	July	August
26 Lb	Max. ^a	85	91	84	82
	Min. ^a	63	64	67	63
	Av. ^b	72 (19)	74 (19)	73 (17)	73 (20)
33 Lb	Max. ^a	106	110	104	101
	Min. ^a	78	79	77	79
	Av. ^b	87 (27)	87 (26)	88 (26)	87 (29)
38 Lb	Max. ^a	117	120	114	113
	Min. ^a	90	90	89	90
	Av. ^b	98 (21)	98 (22)	97 (21)	98 (22)
42 Lb	Max. ^a	127	128	121	125
	Min. ^a	99	99	98	100
	Av. ^b	105 (41)	105 (42)	105 (42)	105 (43)
69 Lb	Max. ^a	161	160	152	154
	Min. ^a	129	134	133	132
	Av. ^b	142 (31)	142 (32)	142 (29)	141 (30)
90 Lb	Max. ^a	186	187	179	180
	Min. ^a	161	159	157	154
	Av. ^b	172 (13)	169 (13)	168 (12)	168 (14)

^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

JULY, 1976

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					
CODE	MACHINE DATA			MACHINE DATA			MACHINE DATA			MACHINE DATA			MACHINE DATA			MACHINE DATA					
	CUR. 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	5.7	5.3	107.5	132.6	25.6	26.1	98.1	98.5	25.6	26.2	97.7	95.9	7.9	7.8	101.3	98.8	67	70	95.7	91.8	
D1	4.5	3.3	136.4	104.6	25.7	25.4	101.2	98.8	26.6	26.7	99.6	99.6	8.2	8.0	102.5	102.5	84	86	97.7	115.1	
F1	4.0	3.7	108.1	93.0	25.3	25.3	100.0	97.3	26.3	26.4	99.6	98.5	7.8	7.8	100.0	97.5	84	80	105.0	115.1	
H1	5.4				26.2				26.3					8.1				73			
K1	5.8				26.1				26.7					8.6				78			
L1	5.5				25.7				26.4					7.7				67			
M1	5.8				26.2				26.2									69			
N1	1.7				27.2				29.0					8.9				68			
R1	3.7	3.7	100.0	86.0	27.8	27.1	102.6	106.9	27.9	27.2	102.6	104.5	8.1	8.0	101.2	101.2	78	73	106.8	106.8	
T1	4.5	4.3	111.6	111.6	25.8	25.7	100.4	99.2	26.7	26.7	100.0	100.0	7.9	7.8	101.3	98.8	73	67	109.0	100.0	
U1	4.8	2.0			25.1				26.6					8.4				75			
V1	4.1	4.6	89.1	95.3	26.1	26.5	98.5	100.4	27.1	27.4	98.9	101.5	7.9	8.1	97.5	98.8	80	78	102.6	109.6	
X1	5.6				26.8				27.4					7.8				64			
A2	4.9				25.7				26.5					8.5				73			
C2	3.8	3.8	100.0	88.4	25.7	26.1	98.5	98.8	26.8	27.2	98.5	100.4	8.4	8.0	105.0	105.0	69	71	97.2	94.5	
D2	5.1	4.9	104.1	118.6	26.2	26.2	100.0	100.8	27.0	27.0	100.0	101.1	8.7	8.2	106.1	108.8	70	71	98.6	95.9	
E2	4.5				26.4				27.4					8.4				66			
G2	6.4	6.6	97.0	148.8	26.2	26.2	100.0	100.8	26.2	26.2	100.0	98.1	8.4	8.4	100.0	105.0	76	74	102.7	104.1	
H2	4.6				25.8				26.6					8.6				84			
J2	5.9	5.8	101.7	137.2	25.8	25.9	99.6	99.2	25.9	26.0	99.6	97.0					71	76	93.4	97.3	
M2	2.3	2.7	85.2	53.5	27.0	26.8	100.7	103.8	27.1	26.9	100.7	101.5	7.9	7.9	100.0	98.8	71	72	98.6	97.3	
N2	6.9	5.5	125.4	160.5	26.8	26.0	103.1	103.1	26.9	26.1	103.1	100.7	8.8	7.9	111.4	110.0	71	74	95.9	97.3	
O2	3.2				25.8				27.1					7.4				78			
P2	4.0	5.0	80.0	93.0	25.6	25.6	100.0	98.5	26.6	26.4	100.8	99.6	7.2	7.5	96.0	90.0	69	66	104.5	94.5	
Q2	4.6				26.3				26.4					8.3				78			
R2	0.5				25.1				27.1					8.1				66			
S2	3.6	3.7	97.3	83.7	26.7	27.4	97.4	102.7	27.9	27.5	101.4	104.5	7.9	8.3	95.2	98.8	71	75	94.7	97.3	
U2	4.7	4.4	106.8	109.3	26.0	26.7	97.4	100.0	26.9	27.7	97.1	100.7	8.3	7.8	106.4	103.8	69	73	94.5	94.5	
V2	4.9	4.6	106.5	114.0	26.1	26.1	100.0	100.4	26.9	27.0	99.6	100.7	9.3	8.7	106.9	116.2	68	73	93.2	93.2	
X2	6.3				26.1				26.1					7.8				78			
B3	4.9	5.0	98.0	114.0	25.5	25.6	99.6	98.1	26.3	26.4	99.6	98.5	8.1	7.7	105.2	101.2	72	72	100.0	98.6	
FKI DATA																					
CUR.																					
AV.	4.7	26.1																			
CUM.																					
AV.	4.3	26.7																			
IND.																					
*D	109.3	100.4																			
		102.5																			
		100.0																			

FKI DATA

CUR. AV. 4.7	26.1	26.7	8.2	73
CUM. AV. 4.3	26.0	26.7	8.0	73
IND. #D 109.3	100.4	100.0	102.5	100.0

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

AUGUST, 1976

FKI DATA

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

JULY, 1976

CODE	MOISTURE CONTENT, PERCENT			BASIS WT., LB / M SQ FT			ADJ. BASIS WT., 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.	IND. #C	CUR. AV.	CUM. AV.	IND. #C	CUR. AV.	CUM. AV.	IND. #C	CUR. AV.	CUM. AV.	IND. #C	CUR. AV.	CUM. AV.	IND. #C
A1	6.1	5.8	105.2	129.8	32.4	32.8	98.8	98.8	98.2	96.4	9.4	9.6	97.9	94.0	81
B1	2.7	2.9	93.1	57.4	31.4	31.5	99.7	99.7	99.7	98.5	9.1	9.8	92.8	91.0	91
D1	4.6	4.5	102.2	97.9	32.6	32.5	100.3	99.4	100.0	100.3	10.3	9.5	108.4	103.0	104
F1	4.3	3.9	110.2	91.5	31.9	32.0	99.7	97.2	99.1	98.5	9.1	9.4	96.8	91.0	104
G1	5.6	5.6			32.9	32.9		33.7	9.5						82
H1	6.0	6.0			33.3	33.3		33.4	9.7						86
L1	5.4	5.4			32.8	32.8		33.6	9.8						79
O1	3.9	4.9	79.6	83.0	32.0	32.5	98.5	97.6	99.1	99.1	9.9	10.0	99.0	99.0	82
R1	4.6	4.0	115.0	97.9	34.0	33.5	101.5	103.6	101.5	101.5	9.8	9.9	99.0	98.0	92
T1	5.4	5.4			32.9	32.9		33.8	10.0						80
U1	5.0	5.0	100.0	106.4	32.9	32.4	101.5	100.3	101.5	100.9	10.4	9.8	106.1	104.0	82
V1	2.0	2.1	95.2	42.6	31.5	31.7	99.4	98.0	99.7	99.7	9.6	10.3	93.2	96.0	90
X1	4.0	5.0	80.0	85.1	32.4	32.8	98.8	98.8	99.7	100.3	9.5	10.0	95.0	95.0	90
Y1	3.8	3.8			33.0	33.0		34.4	10.1						82
A2	5.4	5.7	94.7	114.9	33.3	33.2	100.3	101.5	100.6	101.8	9.4	9.7	96.9	94.0	78
B2	4.6	4.6			32.8	32.8		33.9	10.9						90
C2	4.3	4.2	102.4	91.5	32.5	32.8	99.1	99.1	98.8	100.3	10.3	10.1	102.0	103.0	85
D2	6.1	5.7	107.0	129.8	33.0	33.0	100.0	100.6	99.4	100.0	10.8	10.4	103.8	108.0	80
E2	4.8	4.8			33.4	33.4		34.4	10.6						81
F2	5.9	5.8	101.7	125.5	33.2	33.2	100.0	101.2	99.7	99.1	10.7	10.6	100.9	107.0	87
G2	6.6	6.6	100.0	140.4	33.1	33.2	99.7	100.9	99.4	98.5	11.0	11.0	100.0	110.0	96
H2	4.9	4.9			32.3	32.3		33.3	10.2						92
J2	5.8	5.8	100.0	123.4	33.0	33.0	100.0	100.6	100.0	98.5					88
M2	3.2	3.4	94.1	68.1	33.1	33.2	99.7	100.9	99.7	99.1	9.3	9.9	93.9	93.0	81
N2	5.6	5.5	101.8	119.1	33.0	33.0	100.0	100.6	100.0	98.5	9.2	9.9	92.9	92.0	90
O2	4.1	4.1			32.5	32.5		33.8	9.5						96
P2	4.4	5.4	81.5	93.6	32.4	32.6	99.4	98.8	100.6	100.0	9.2	9.8	93.9	92.0	81
Q2	4.5	4.6	97.8	95.7	33.1	33.2	99.7	100.9	99.7	98.8	10.1	10.2	99.0	101.0	91
R2	1.5	1.6	93.8	31.9	31.4	31.3	100.3	95.7	100.3	99.7	10.0	10.2	98.0	100.0	83
S2	4.2	3.9	107.7	89.4	33.6	33.8	99.4	102.4	101.7	103.9	10.1	10.2	99.0	101.0	87
U2	5.4	5.4	100.0	114.9	32.8	33.5	97.9	100.0	98.0	100.3	10.7	10.3	103.9	107.0	81
V2	4.6	4.6			33.0	33.0		34.2	10.1						91
X2	6.2	6.3	98.4	131.9	32.7	32.9	99.4	99.7	99.4	97.3	10.0	9.7	103.1	100.0	104
Y2	5.8	5.7	101.8	123.4	32.6	32.7	99.7	99.4	99.4	99.1	9.7	9.6	101.0	97.0	90
Z2	3.8	3.6	105.6	80.8	33.5	33.6	99.7	102.1	99.7	100.6	9.8	9.3	105.4	98.0	77
B3	4.9	5.0	98.0	104.2	32.3	32.5	99.4	98.5	99.4	99.1	10.5	10.2	102.9	105.0	80
D3	4.7	4.7			32.4	32.4		33.5	9.7						80

FKI DATA					
CUR. AV.	4.6	32.7	33.5	9.9	88
CUM. AV.	4.7	32.8	33.6	10.0	87
IND. #D	97.9	99.7	99.0	101.1	

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

TABLE IV
AVERAGES OF ROUTINE MILL QUALITY CONTROL DATA FOR 33 LB FOURDRINIER KRAFT LINERBOARD
AUGUST, 1976

CODE	MOISTURE CONTENT, PERCENT				BASIS WT., LB / M SQ FT				ADJ. BASIS WT.,* LB / M SQ FT				CALIPER, PT				BURSTING STRENGTH, P S I G			
	MACHINE DATA		MACHINE DATA		MACHINE DATA		MACHINE DATA		MACHINE DATA		MACHINE DATA		MACHINE DATA		MACHINE DATA		MACHINE DATA			
	CUR. AV.	FACT. IND. #C	CUR. AV.	FACT. IND. #C	CUR. AV.	FACT. IND. #C	CUR. AV.	FACT. IND. #C	CUR. AV.	FACT. IND. #C	CUR. AV.	FACT. IND. #C	CUR. AV.	FACT. IND. #C	CUR. AV.	FACT. IND. #C	CUR. AV.	FACT. IND. #C		
A1	5.3	5.8	91.4	112.8	32.4	32.8	98.8	98.8	32.4	32.9	98.5	96.4	9.3	9.5	97.9	93.0	90	86	104.6	103.4
B1	3.1	2.8	110.7	66.0	31.6	31.5	100.3	96.3	33.2	33.2	100.0	98.8	9.5	9.7	97.9	95.0	89	90	98.9	102.3
O1	5.0	4.5	111.1	106.4	32.7	32.5	100.6	99.7	33.7	33.7	100.0	100.3	10.0	9.6	104.2	100.0	101	105	96.2	116.1
F1	4.4	4.0	110.0	93.6	32.0	32.0	100.0	97.6	33.2	33.3	99.7	98.8	9.0	9.4	95.7	90.0	98	99	99.0	112.6
G1	5.8	5.6	103.6	123.4	32.6	32.9	99.1	99.4	33.3	33.7	98.8	99.1	8.9	9.5	93.7	89.0	81	82	98.8	93.1
H1	6.0				33.3				33.4				9.7				86			
L1	5.4				32.8				33.6				9.8				79			
O1	4.0	4.8	83.3	85.1	32.4	32.5	99.7	98.8	33.7	33.6	100.3	100.3	9.8	10.0	98.0	98.0	82	83	98.8	94.2
R1	4.3	4.1	104.9	91.5	33.3	33.6	99.1	101.5	33.4	33.6	99.4	99.4	9.5	9.8	96.9	95.0	86	88	97.7	98.8
T1	5.4				32.9				33.8				10.0				80			
U1	4.7	5.0	94.0	100.0	32.4	32.5	99.7	98.8	33.5	33.5	100.0	99.7	10.2	9.9	103.0	102.0	84	82	102.4	96.6
V1	2.3	2.1	109.5	48.9	31.7	31.7	100.0	96.6	33.6	33.6	100.0	100.0	9.3	10.2	91.2	93.0	92	89	103.4	105.7
X1	4.0	5.0	80.0	85.1	32.4	32.8	98.8	98.8	33.7	33.8	99.7	100.3	9.9	10.0	99.0	95.0	93	93	100.0	106.9
Y1	3.8				33.0				34.4				10.1				82			
A2	5.1	5.6	91.1	108.5	33.1	33.2	99.7	100.9	34.1	34.1	100.0	101.5	9.0	9.6	93.8	90.0	79	78	101.3	90.8
B2	4.6				32.8				33.9				10.9				90			
C2	4.2	4.2	100.0	89.4	32.6	32.8	99.4	99.4	33.9	34.0	99.7	100.9	10.0	10.1	99.0	100.0	87	86	101.2	100.0
D2	5.9	5.7	103.5	125.5	33.0	33.0	100.0	100.6	33.7	33.8	99.7	100.3	10.1	10.5	96.2	101.0	81	81	100.0	93.1
E2	4.6	4.8	95.8	97.9	33.5	33.4	100.3	102.1	34.7	34.4	100.9	103.3	10.8	10.6	101.9	108.0	81	81	100.0	93.1
F2	5.9	5.8	101.7	125.5	33.3	33.2	100.3	101.5	33.4	33.4	100.0	99.4	10.7	10.6	100.9	107.0	90	88	102.3	103.4
G2	6.5	6.5	100.0	138.3	32.7	33.2	98.5	99.7	32.7	33.2	98.5	97.3	10.7	11.0	97.3	107.0	90	96	93.8	103.4
H2	4.9				32.3				33.3				10.2				92			
J2	5.8	5.8	100.0	123.4	33.0	33.0	100.0	100.6	33.1	33.1	100.0	98.5					88	91	96.7	101.1
M2	3.0	3.4	88.2	63.8	33.1	33.2	99.7	100.9	33.3	33.4	99.7	99.1	9.4	9.8	95.9	94.0	83	82	101.2	95.4
N2	5.4	5.5	98.2	114.9	33.1	33.0	100.3	100.9	33.2	33.1	100.3	98.8	10.7	9.8	109.2	107.0	87	88	98.9	100.0
O2	4.5	4.1	109.8	95.7	32.7	32.5	100.6	99.7	33.9	33.8	100.3	100.9	9.4	9.5	98.9	94.0	94	96	97.9	108.0
P2	4.9	5.2	94.2	104.2	32.5	32.6	99.7	99.1	33.5	33.4	100.3	99.7	9.3	9.7	95.9	93.0	82	81	101.2	94.2
Q2	4.7	4.6	102.2	100.0	33.2	33.2	100.0	101.2	33.3	33.3	100.0	99.1	10.2	10.2	100.0	102.0	87	90	96.7	100.0
R2	1.4	1.5	93.3	29.8	31.2	31.3	99.7	95.1	33.4	33.4	100.0	99.4	10.2	10.2	100.0	102.0	83	84	98.8	95.4
S2	4.2	4.0	105.0	89.4	33.6	33.8	99.4	102.4	33.7	34.5	97.7	100.3	9.8	10.2	96.1	98.0	89	90	98.9	102.3
U2	5.4	5.3	101.9	114.9	32.8	33.5	97.9	100.0	33.7	34.4	98.0	100.3	10.6	10.3	102.9	106.0	80	85	94.1	92.0
V2	4.5				33.0				34.2				10.1				91			
X2	6.2	6.3	98.4	131.9	32.7	32.8	99.7	99.7	32.7	32.8	99.7	97.3	9.6	9.8	98.0	96.0	101	104	97.1	116.1
Y2	6.0	5.8	103.4	127.6	32.8	32.7	100.3	100.0	33.5	33.5	100.0	99.7	9.4	9.7	96.9	94.0	88	86	102.3	101.1
Z2	3.4	3.6	94.4	72.3	34.2	33.6	101.8	104.3	34.5	33.9	101.8	102.7	9.7	9.4	103.2	97.0	80	81	98.8	92.0
B3	4.7	5.0	94.0	100.0	32.5	32.5	100.0	99.1	33.6	33.5	100.3	100.0	10.3	10.3	100.0	103.0	83	81	102.5	95.4
D3	4.7				32.4				33.5				9.7				80			

FKI DATA		CUR. AV.		CUM. AV.		IND. #D	
		32.7		33.5		9.8	
		32.8		33.6		10.0	
		99.7		98.0		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
JULY, 1976

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				
CODE	MACHINE DATA				MACHINE DATA				MACHINE DATA				MACHINE DATA							
	CUR. AV.	CUM. AV.	IND. #C	FACT. #B	CUR. AV.	CUM. AV.	IND. #C	FACT. #B	CUR. AV.	CUM. AV.	IND. #C	FACT. #B	CUR. AV.	CUM. AV.	IND. #C	FACT. #B	CUR. AV.	CUM. AV.	IND. #C	
A1	6.1	5.9	103.4	122.0	37.8	38.2	99.0	99.5	37.8	38.4	98.4	97.7	11.4	11.0	103.6	102.7	93	96	96.9	94.9
D1	5.6	5.4	103.7	112.0	37.9	37.7	100.5	99.7	38.8	38.7	100.2	100.2	10.6	10.1	105.0	95.5	114	117	97.4	116.3
F1	4.3	4.2	102.4	86.0	36.9	37.0	99.7	97.1	38.3	38.5	99.5	99.0	10.0	10.6	94.3	90.1	105	107	98.1	107.1
G1	6.2	6.2			38.0	38.0			38.6				10.8				95			
H1	6.1	6.1	100.0	122.0	38.2	38.4	99.5	100.5	38.3	38.5	99.5	99.0	11.1	10.9	101.8	100.0	98	98	100.0	100.0
K1	5.6	5.6			38.0	38.3			38.3				11.4				96			
O1	4.3	5.0	86.0	86.0	36.8	37.4	98.4	96.8	38.2	38.6	99.0	98.7	11.1	11.4	97.4	100.0	94	94	100.0	95.9
P1	5.8	5.6	103.6	116.0	37.4	37.4	100.0	98.4	38.2	38.3	99.7	98.7	11.4	11.3	100.9	102.7	93	96	96.9	94.9
Q1	5.1	5.2	98.1	102.0	39.2	39.2	100.0	103.2	39.3	39.4	99.7	101.6	10.1	10.9	92.7	91.0	98	96	102.1	100.0
R1	5.5	4.4	125.0	110.0	38.5	39.2	98.2	101.3	38.6	39.3	98.2	99.7	11.0	11.0	100.0	99.1	96	98	98.0	98.0
S1	6.2	6.2			38.3	39.0			39.0				10.6				92			
T1	5.4	5.4			38.0	39.0			39.0				11.2				92			
U1	5.2	4.9	106.1	104.0	37.7	37.4	100.8	99.2	38.8	38.5	100.8	100.2	11.9	10.8	110.2	107.2	93	92	101.1	94.9
V1	2.7	2.7			36.7	36.7			38.7				10.8				104			
X1	4.5	5.4	83.3	90.0	37.4	37.9	98.7	98.4	38.7	38.9	99.5	100.0	11.1	11.4	97.4	100.0	99	101	98.0	101.0
Z1	4.1	4.1			38.9	39.0			39.0				10.7				97			
C2	4.8	4.5	106.7	96.0	38.0	37.9	100.3	100.0	39.3	39.2	100.2	101.6	11.8	11.4	103.5	106.3	97	98	99.0	99.0
D2	6.4	6.0	106.7	128.0	37.9	38.0	99.7	99.7	38.5	38.7	99.5	99.5	10.9	11.0	99.1	98.2	89	93	95.7	90.8
F2	5.8	5.7	101.8	116.0	38.2	38.2	100.0	100.5	38.3	38.3	100.0	99.0	11.7	11.5	101.7	105.4	96	97	99.0	98.0
H2	4.6	4.6			36.9	36.9			38.2				11.3				102			
J2	5.7	5.7	100.0	114.0	38.0	38.0	100.0	100.0	38.1	38.1	100.0	98.4					96	100	96.0	98.0
M2	3.8	3.8	100.0	76.0	38.1	38.3	99.5	100.3	38.3	38.5	99.5	99.0	10.7	11.4	93.8	96.4	93	94	98.9	94.9
N2	5.8	5.4	107.4	116.0	38.1	38.0	100.3	100.3	38.2	38.1	100.3	98.7	11.8	11.0	107.3	106.3	106	98	108.2	108.2
O2	5.2	5.2			37.7	37.7			38.8				10.8				101			
P2	4.9	5.3	92.4	98.0	37.4	37.4	100.0	98.4	38.6	38.5	100.2	99.7	10.4	11.1	93.7	93.7	91	93	97.8	92.8
Q2	4.9	5.0	98.0	98.0	38.3	38.2	100.3	100.8	38.4	38.3	100.3	99.2	11.1	11.3	98.2	100.0	111	98	113.3	113.3
S2	4.0	4.0			38.6	38.6			39.0				11.4				104			
U2	5.5	5.4	101.8	110.0	36.9	37.9	97.4	97.1	37.8	38.8	97.4	97.7	11.7	11.5	101.7	105.4	90	93	96.8	91.8
V2	3.7	3.7			37.9	37.9			39.6				10.9				100			
W2	1.8	3.3	54.5	36.0	37.7	37.4	100.8	99.2	40.2	39.3	102.3	103.9	10.2	10.8	94.4	91.9	100	98	102.0	102.0
A3	4.8	4.8			37.8	37.8			39.0				11.0				99			
B3	4.7	5.0	94.0	94.0	37.2	37.4	99.5	97.9	38.5	38.6	99.7	99.5	11.3	11.4	99.1	101.8	91	93	97.8	92.8
H3	4.2	4.2			37.0	37.0			38.4				11.2				90			

FKI DATA

CUR.																				
AV.	5.1																			
CUM.																				
AV.	5.0																			
IND.																				
#D 102.0																				

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

AUGUST, 1976

FKI DATA

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

TABLE VII
AVERAGES OF ROUTINE MILL QUALITY CONTROL DATA FOR 42 LB FOURDRINIER KRAFT LINERBOARD
JULY, 1976

MOISTURE CONTENT, PERCENT				BASIS WT.,*A LB / M SQ FT				ADJ. BASIS WT.,*A LB / M SQ FT				CALIPER, PT				BURSTING STRENGTH, P S I G				
CODE	MACHINE DATA			IND. #C	MACHINE DATA			IND. #C	MACHINE DATA			IND. #C	MACHINE DATA			IND. #C	MACHINE DATA			
	CUR. AV.	FACT. #8	AV.		CUR. AV.	FACT. #8	AV.		CUR. AV.	FACT. #8	AV.		CUR. AV.	FACT. #8	AV.		CUR. AV.	FACT. #8	AV.	
A1	6.6	6.1	108.2	126.9	41.4	41.6	99.5	99.3	41.4	41.8	99.0	97.2	11.8	12.1	97.5	97.5	101	103	98.0	95.3
B1	3.5	3.6	97.2	67.3	40.3	40.4	99.8	96.6	42.2	42.3	99.8	99.1	12.1	12.2	99.2	100.0	104	108	96.3	98.1
C1	4.5	5.5	81.8	86.5	41.5	42.3	98.1	99.5	43.0	43.3	99.3	100.9	11.8	12.1	97.5	97.5	108	111	97.3	101.9
D1	6.6	6.1	108.2	126.9	42.0	41.9	100.2	100.7	42.5	42.7	99.5	99.8	11.6	11.1	104.5	95.9	119	125	95.2	112.3
E1	5.6				42.6				42.7				12.2				108			
F1	4.8	4.4	109.1	92.3	40.9	40.9	100.0	98.1	42.2	42.4	99.5	99.1	11.5	11.8	97.4	95.0	114	112	101.8	107.5
G1	6.2	6.0	103.3	119.2	41.6	41.7	99.8	99.8	42.3	42.5	99.5	99.3	11.2	11.6	96.6	92.6	102	102	100.0	96.2
H1	6.2	6.3	98.4	119.2	42.1	42.2	99.8	101.0	42.2	42.2	100.0	99.1	12.2	12.2	100.0	100.8	106	106	100.0	100.0
I1	5.4	5.7	94.7	103.8	42.0	41.8	100.5	100.7	43.1	42.8	100.7	101.2	11.5	11.4	100.9	95.0	112	113	99.1	105.7
J1	5.7	5.6	101.8	109.6	41.2	41.3	99.8	98.8	42.1	42.3	99.5	98.8	11.4	11.6	98.3	94.2	102	105	97.1	96.2
K1	6.3	5.8	108.6	121.2	41.8	41.6	100.5	100.2	42.5	42.5	100.0	99.8	12.3	12.2	100.8	101.6	107	107	100.0	100.9
L1	4.4	5.1	86.3	84.6	40.9	41.4	98.8	98.1	42.4	42.6	99.5	99.5	12.3	12.5	98.4	101.6	103	103	100.0	97.2
M1	5.9	6.0	98.3	113.5	41.3	41.4	99.8	99.0	42.2	42.2	100.0	99.1	12.0	12.6	95.2	99.2	103	104	99.0	97.2
N1	5.2	5.2	100.0	100.0	42.4	42.4	100.0	101.7	42.5	42.5	100.0	99.8	11.1	11.6	95.7	91.7	104	104	100.0	98.1
O1	5.4	4.5	120.0	103.8	42.4	42.2	100.5	101.7	42.5	42.3	100.5	99.8	12.0	11.9	100.8	99.2	108	106	101.9	101.9
P1	6.7	6.7	100.0	128.8	41.9	42.0	99.8	100.5	42.4	42.5	99.8	99.5	11.8	11.7	100.8	97.5	103	102	101.0	97.2
Q1	5.6	5.8	96.6	107.7	41.6	41.8	99.5	99.8	42.6	42.7	99.8	100.0	12.7	12.3	103.2	105.0	101	102	99.0	95.3
R1	5.2	5.0	104.0	100.0	41.3	41.2	100.2	99.0	42.5	42.5	100.0	99.8	12.7	12.1	105.0	105.0	100	100	100.0	94.3
S1	3.5	3.0	116.7	67.3	40.8	40.7	100.2	97.8	42.7	42.8	99.8	100.2	11.9	12.2	97.5	98.3	118	111	108.3	111.3
T1	3.8	3.6	105.6	73.1	42.2	42.1	100.2	101.2	42.4	42.3	100.2	99.5	11.2	11.1	100.9	92.6	103	103	100.0	97.2
U1	4.9	5.5	89.1	94.2	41.4	41.9	98.8	99.3	42.7	43.0	99.3	100.2	12.1	12.6	96.0	100.0	107	110	97.3	100.9
V1	5.6	5.5	101.8	107.7	41.6	41.2	101.0	99.8	42.6	42.2	100.9	100.0	12.7	12.4	102.4	105.0	100	100	100.0	96.3
W1	4.2	4.3	97.7	80.8	43.3	42.6	101.6	103.8	43.4	42.7	101.6	101.9	12.1	11.7	103.4	100.0	98	104	94.2	92.4
X1	4.9	4.8	102.1	94.2	42.0	41.8	100.5	100.7	43.3	43.2	100.2	101.6	13.1	12.5	104.8	108.3	105	106	99.0	99.0
Y1	6.6	6.6	100.0	126.9	42.0	42.0	100.0	100.7	42.5	42.6	99.8	99.8	11.8	11.9	99.2	97.5	106	104	101.9	100.0
Z1	5.2				42.6				43.8				13.4				101			
A2	6.1	5.8	105.2	117.3	42.3	42.3	100.0	101.4	42.4	42.4	100.0	99.5	12.7	12.5	101.6	105.0	109	106	102.8	102.8
B2	5.5	5.0			41.7	40.9	102.0	100.0	42.7	42.9	99.5	100.2	12.8	12.3	104.1	105.8	106	108	98.1	100.0
C2	5.8	5.7	101.8	111.5	41.8	42.0	99.5	100.2	41.9	42.1	99.5	98.4	11.4	11.8	96.6	94.2	102	102	100.0	96.2
D2	4.6	5.0	92.0	88.5	41.5	41.4	100.2	99.5	43.0	42.7	100.7	100.9	11.4	11.8	96.6	94.2	102	102	100.0	96.2
E2	4.0	4.1	97.6	76.9	42.3	42.1	100.5	101.4	42.5	42.3	100.5	99.8	12.0	12.6	95.2	99.2	102	103	99.0	96.2
F2	5.5	5.6	98.2	105.8	42.0	42.0	100.0	100.7	42.1	42.1	100.0	98.8	12.6	12.2	103.3	104.1	103	104	99.0	97.2
G2	5.5	5.8	94.8	105.8	41.4	41.5	99.8	99.3	42.4	42.4	100.0	99.5	11.6	11.8	98.3	95.9	103	107	96.3	97.2
H2	5.0	4.8	104.2	96.2	41.4	41.2	100.5	99.3	42.6	42.6	100.0	100.0	11.7	12.1	96.7	96.7	102	103	99.0	96.2
I2	5.1	5.1	100.0	98.1	42.1	42.1	100.0	101.0	42.2	42.2	100.0	99.1	12.6	12.6	100.0	104.1	110	106	103.8	103.8
J2	5.6	5.4	103.7	107.7	41.5	41.4	100.2	99.5	42.5	42.5	100.0	99.8	13.2	13.1	100.8	109.1	105	104	101.0	99.0
K2	4.4				43.0				43.1				12.2				113			
L2	4.5	4.8	93.8	86.5	41.2	41.2	100.0	98.8	42.7	42.5	100.5	100.2	12.1	12.4	97.6	100.0	121	116	104.3	114.2
M2	5.4	5.3	101.9	103.8	41.5	42.2	98.3	99.5	42.6	43.4	98.2	100.0	13.0	12.6	103.2	107.4	100	102	98.0	94.3
N2	2.8	3.5	80.0	53.8	40.5	41.0	98.8	97.1	42.7	43.0	99.3	100.2	11.1	11.7	94.9	91.7	108	104	103.8	101.9
O2	6.3	6.2	101.6	121.2	41.3	41.6	99.3	99.0	42.0	42.4	99.0	98.6	12.6	12.6	100.0	104.1	101	102	99.0	95.3
P2	3.8	3.6	105.6	73.1	42.6	42.6	100.0	102.2	43.0	43.0	100.0	100.9	12.2	11.8	103.4	100.8	101	102	99.0	95.3
Q2	5.8	5.3	109.4	111.5	41.9	41.8	100.2	100.5	42.8	43.0	99.5	100.5	12.5	12.0	104.2	103.3	105	106	99.0	99.0
R2	4.9	5.0	98.0	94.2	41.1	41.4	99.3	98.6	42.4	42.6	99.5	99.5	12.6	12.6	100.0	104.1	102	102	100.0	96.2
S2	5.6	5.5	101.8	107.7	41.4	41.4	100.0	99.3	42.4	42.4	100.0	99.5	11.6	11.4	101.8	95.9	104	101	103.0	98.1
T2	5.0				41.2	41.2			42.4	42.4			12.4				101			

FKI DATA			NOTE- NOTES A, B, C, AND D, ARE GIVEN IN APPENDIX.		
CUR. AV.	CUM. AV.	IND. #D	105	106	99.0
5.2	5.2	100.0	105	106	99.0

TABLE VIII
AVERAGES OF ROUTINE MILL QUALITY CONTROL DATA FOR 42 LB FOURDRINIER KRAFT LINERBOARD
AUGUST, 1976

CODE	MOISTURE CONTENT, PERCENT			BASIS WT., LB / M SQ FT			ADJ. BASIS WT., 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.	IND. #C	CUR. AV.	CUM. AV.	IND. #C	CUR. AV.	CUM. AV.	IND. #C	CUR. AV.	CUM. AV.	IND. #C	CUR. AV.	CUM. AV.	IND. #C
A1	6.2	6.1	101.6	119.2	41.2	41.6	99.0	98.8	41.2	41.8	98.6	96.7	11.6	12.1	95.9
B1	3.6	3.6	100.0	69.2	40.3	40.4	99.8	96.6	42.2	42.3	98.8	99.1	11.3	12.1	93.4
C1	4.5	5.4	83.3	86.5	41.3	42.2	97.9	99.0	42.8	43.3	98.8	100.5	11.6	12.1	95.9
D1	6.4	6.1	104.9	123.1	42.0	41.9	100.2	100.7	42.6	42.7	99.8	100.0	12.2	11.2	108.9
E1	5.6	5.6	107.1	115.4	41.6	41.3	100.7	99.8	42.4	42.3	100.2	99.5	11.7	11.6	100.9
F1	4.6	4.5	102.2	88.5	40.9	40.9	100.0	98.1	42.3	42.4	99.8	99.3	11.2	11.8	94.9
G1	6.1	6.0	101.7	117.3	41.5	41.7	99.5	99.5	42.2	42.5	99.3	99.1	11.4	11.5	99.1
H1	6.2	6.3	98.4	119.2	42.2	42.1	100.2	101.2	42.3	42.2	100.2	99.3	12.1	12.2	99.2
I1	5.9	5.6	105.4	113.5	41.9	41.8	100.2	100.5	42.8	42.8	100.0	100.5	11.6	11.4	101.8
J1	6.0	5.6	107.1	115.4	41.6	41.3	100.7	99.8	42.4	42.3	100.2	99.5	11.7	11.6	100.9
K1	6.7	5.8	115.5	128.8	42.0	41.6	101.0	100.7	42.5	42.5	100.0	99.8	12.3	12.2	100.8
L1	4.3	5.0	86.0	82.7	41.2	41.3	99.8	98.8	42.8	42.6	100.5	100.5	12.4	12.5	99.2
M1	5.8	6.0	96.7	111.5	41.1	41.4	99.3	98.6	42.0	42.2	99.5	98.6	10.8	12.6	85.7
N1	5.0	5.2	96.2	96.2	42.3	42.4	99.8	101.4	42.4	42.5	99.8	99.5	11.5	11.7	98.3
O1	5.4	4.6	117.4	103.8	42.2	42.2	100.0	101.2	42.3	42.3	100.0	99.3	11.9	11.8	100.8
P1	6.7	6.7	100.0	128.8	42.0	42.0	100.0	100.7	42.5	42.5	100.0	99.8	11.9	11.7	101.7
Q1	5.6	5.7	98.2	107.7	41.5	41.8	99.3	99.5	42.5	42.7	99.5	99.8	12.7	12.4	102.4
R1	5.1	5.0	102.0	98.1	41.3	41.2	100.2	99.0	42.5	42.5	100.0	99.8	12.9	12.2	105.7
S1	3.0	3.0	100.0	57.7	40.7	40.7	100.0	97.6	42.8	42.8	100.0	100.5	12.2	12.2	105.7
T1	3.6	3.7	97.3	69.2	42.2	42.1	100.2	101.2	42.4	42.3	100.2	99.5	10.9	11.0	99.1
U1	5.5	5.5	96.4	103.8	41.6	41.9	101.0	99.8	42.7	42.2	101.2	100.2	12.6	12.4	101.6
V1	4.4	4.3	102.3	84.6	42.6	42.6	100.0	102.2	42.7	42.7	100.0	100.2	11.9	11.7	101.7
W1	4.8	4.8	100.0	92.3	42.1	41.8	100.7	101.0	43.5	43.1	100.9	102.1	12.8	12.6	101.6
X1	6.6	6.6	100.0	126.9	42.0	42.0	100.0	100.7	42.5	42.6	99.8	99.8	11.8	11.8	100.0
Y1	4.8	5.2	92.3	92.3	43.6	42.7	102.1	104.6	45.0	43.9	102.5	105.6	13.6	13.5	100.7
Z1	5.9	5.9	100.0	113.5	42.3	42.3	100.0	101.4	42.4	42.4	100.0	99.5	12.2	12.5	97.6
A2	4.6	5.0	92.0	88.5	41.1	41.0	100.2	98.6	42.5	42.3	100.5	99.8	12.1	12.4	97.6
B2	5.2	3.5	148.6	100.0	41.6	41.0	101.5	99.8	42.8	42.9	99.8	100.5	12.2	12.3	99.2
C2	5.8	5.8	100.0	111.5	42.0	42.0	100.0	100.7	42.1	42.1	100.0	98.8	11.7	11.7	100.0
D2	4.0	5.0	80.0	76.9	41.2	41.4	99.5	98.8	42.9	42.7	100.5	100.7	11.7	11.7	100.0
E2	3.6	4.1	87.8	69.2	42.0	42.1	99.8	100.7	42.2	42.3	99.8	99.1	12.9	12.5	103.2
F2	5.6	5.6	100.0	107.7	41.9	42.0	99.8	100.5	42.0	42.1	99.8	98.6	12.5	12.2	102.4
G2	5.8	5.8	100.0	111.5	41.5	41.5	100.0	99.5	42.4	42.4	100.0	99.5	11.8	11.8	100.0
H2	5.1	5.1	102.0	100.0	41.4	41.3	100.2	99.3	42.6	42.6	100.0	100.0	11.6	12.0	96.7
I2	5.3	5.1	103.9	101.9	42.1	42.1	100.0	101.0	42.2	42.2	100.0	99.1	12.6	12.6	100.0
J2	5.5	5.4	101.8	105.8	41.5	41.4	100.2	99.5	42.5	42.5	100.0	99.8	13.6	13.1	103.8
K2	4.4	4.4	91.7	84.6	41.2	41.2	100.0	98.8	42.7	42.6	100.2	100.2	11.9	12.3	96.7
L2	5.5	5.2	105.8	105.8	41.6	42.2	98.6	99.8	42.6	43.4	98.2	100.0	12.8	12.6	101.6
M2	3.2	3.4	94.1	61.5	40.5	41.0	98.8	97.1	42.5	43.0	98.8	99.8	11.1	11.7	94.9
N2	6.2	6.2	100.0	119.2	41.4	41.6	99.5	99.3	42.1	42.3	99.5	98.8	12.3	12.6	97.6
O2	3.7	3.6	102.8	71.2	42.4	42.7	99.3	101.7	42.8	43.1	99.3	100.5	12.0	11.9	100.8
P2	5.3	5.4	98.1	101.9	41.8	41.8	100.0	100.2	42.9	43.0	99.8	100.7	12.3	12.0	102.5
Q2	5.0	5.0	100.0	96.2	41.1	41.3	99.5	98.6	42.3	42.6	99.3	99.3	12.6	12.6	100.0
R2	5.6	5.5	101.8	107.7	41.4	41.4	100.0	99.3	42.4	42.4	100.0	99.5	11.9	11.5	103.5
S2	4.4	4.4	91.7	84.6	41.2	41.2	100.0	98.8	42.7	42.6	100.2	100.2	11.9	12.3	96.7
T2	5.5	5.2	105.8	105.8	41.6	42.2	98.6	99.8	42.6	43.4	98.2	100.0	12.8	12.6	101.6
U2	3.2	3.4	94.1	61.5	40.5	41.0	98.8	97.1	42.5	43.0	98.8	99.8	11.1	11.7	94.9
V2	6.2	6.2	100.0	119.2	41.4	41.6	99.5	99.3	42.1	42.3	99.5	98.8	12.3	12.6	97.6
W2	3.7	3.6	102.8	71.2	42.4	42.7	99.3	101.7	42.8	43.1	99.3	100.5	12.0	11.9	100.8
X2	5.3	5.4	98.1	101.9	41.8	41.8	100.0	100.2	42.9	43.0	99.8	100.7	12.3	12.0	102.5
Y2	5.0	5.0	100.0	96.2	41.1	41.3	99.5	98.6	42.3	42.6	99.3	99.3	12.6	12.6	100.0
Z2	5.6	5.5	101.8	107.7	41.4	41.4	100.0	99.3	42.4	42.4	100.0	99.5	11.9	11.5	103.5

FKI DATA															
CUR.	AV.	5.2													
CUM.	AV.		41.6												
IND.	AV.			41.7											
*D 100.0					99.8										
						42.5									
							12.1								
								105							
									106						
										100.0					
											99.0				

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

AVERAGES OF ROUTINE MILL QUALITY CONTROL DATA FOR 69 LB FOURRINIER KRAFT LINERBOARD

JULY, 1976

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				
CODE	MACHINE DATA				MACHINE DATA				MACHINE DATA				MACHINE DATA							
	CUR. AV.	CUM. AV.	FACT. #8	IND. *C	CUR. AV.	CUM. AV.	FACT. #8	IND. *C	CUR. AV.	CUM. AV.	FACT. #8	IND. *C	CUR. AV.	CUM. AV.	FACT. #8	IND. *C				
A1	6.9	6.4	107.8	116.9	68.1	68.5	99.4	99.1	68.1	68.8	99.0	97.8	20.5	19.4	105.7	104.1	141	140	100.7	99.3
B1	3.8	3.9	97.4	64.4	66.5	66.5	100.0	96.8	69.4	69.3	100.1	99.7	19.7	19.8	99.5	100.0	141	144	97.9	99.3
C1	6.1	5.8	105.2	103.4	69.2	68.3	101.3	100.7	70.4	69.8	100.8	101.1	20.6	20.6	100.0	104.6	136	138	98.6	95.8
D1	6.8	6.8	100.0	115.2	69.1	69.1	100.0	100.6	69.9	69.9	100.0	100.4	19.3	17.8	108.4	98.0	151	160	94.4	106.3
E1	6.3	6.0	105.0	106.8	69.7	69.7	100.0	101.4	68.9	69.9	100.0	100.4	20.5	20.3	101.0	104.1	145	144	100.7	102.1
G1	5.8	5.5	105.4	98.3	68.2	68.8	99.1	99.3	69.7	70.5	98.9	100.1	19.0	19.6	96.9	96.4	133	135	98.5	93.7
H1	6.4	6.7	95.5	108.5	69.2	69.2	100.0	100.7	68.4	69.4	100.0	99.7	20.0	20.0	100.0	101.5	152	144	105.6	107.0
I1	5.8	5.6	103.6	98.5	68.9	68.7	100.3	100.3	70.4	70.4	100.0	101.1	19.5	19.3	101.0	99.0	143	150	95.3	100.7
J1	6.6	6.6			69.2	69.2			70.1	70.1			19.7	19.7			142			
N1	6.4	6.4	100.0	108.5	68.6	68.5	100.1	99.8	69.6	69.6	100.0	100.0	19.7	19.8	99.5	100.0	143	143	100.0	100.7
O1	5.3	5.6	94.6	89.8	67.5	68.1	99.1	98.2	69.3	69.7	99.4	99.6	19.9	20.2	98.5	101.0	138	140	98.6	97.2
P1	6.4	6.9	92.8	108.5	68.7	68.7	100.0	100.0	68.7	69.4	100.4	100.1	19.2	21.2	90.6	97.5	137	140	97.8	96.5
Q1	6.0	5.7	105.3	101.7	69.1	69.4	99.6	100.6	69.3	69.6	99.6	99.6	19.5	19.7	99.0	99.0	139	136	102.2	97.9
R1	6.9	6.4	107.8	116.9	69.2	69.8	99.1	100.7	68.4	70.0	99.1	99.7	19.6	19.4	101.0	99.5	142	139	102.2	100.0
S1	8.0	8.2	97.6	135.6	69.1	69.0	100.1	100.6	69.0	68.8	100.3	99.1	19.6	19.6	100.0	99.5	141	140	100.7	99.3
T1	6.5	6.5	100.0	110.2	69.1	69.1	100.0	100.6	70.1	70.1	100.0	100.7	21.0	20.8	101.0	106.6	141	140	100.7	99.3
V1	3.5	3.5			67.3	67.3			70.5	70.5			20.1	20.1			148			
W1	4.8	4.8	100.0	81.4	69.1	69.1	100.0	100.6	69.4	69.4	100.0	99.7	18.5	18.9	97.9	93.9	140	138	101.4	98.6
X1	5.8				69.3	69.3			70.8	70.8			20.7	20.7			141			
Y1	6.1	5.8	105.2	103.4	67.8	68.4	99.1	98.7	69.0	69.8	98.8	99.1	21.4	21.0	101.9	108.6	133	133	100.0	93.7
Z1	4.7	4.7	100.0	79.7	69.8	69.5	100.4	101.6	70.0	69.7	100.4	100.6	18.0	18.9	95.2	91.4	136	146	93.2	95.8
C2	7.0				68.4	68.4			69.0	69.0			21.0	21.0			150			
F2	6.0	6.2	96.8	101.7	69.4	69.6	99.7	101.0	69.6	69.8	99.7	100.0	20.0	20.0	100.0	101.5	149	146	102.0	104.9
I2	4.2	4.2			67.8	67.8			70.4	70.4			20.5	20.5			145			
J2	6.0				68.8	68.8			69.0	69.0							148			
K2	4.9	5.2	94.2	83.0	68.4	68.0	100.6	99.6	70.5	69.9	100.8	101.3	18.4	18.4	100.0	93.4	139	138	100.7	97.9
L2	5.7	6.5	87.7	96.6	68.6	68.4	100.3	99.8	70.2	69.4	101.2	100.9	19.7	19.2	102.6	100.0	150	143	104.9	105.6
N2	5.5	5.7	96.5	93.2	68.8	68.9	99.8	100.1	69.0	69.1	99.8	99.1	19.4	18.8	103.2	98.5	152	146	104.1	107.0
O2	7.2	7.0	102.8	122.0	68.9	68.7	100.3	100.3	69.4	69.3	100.1	99.7	18.9	19.1	99.0	95.9	143	148	96.6	100.7
Q2	5.7	5.6	101.8	98.6	69.1	69.3	99.7	100.6	69.3	69.5	99.7	99.6	20.0	20.0	100.0	101.5	145	140	103.6	102.1
S2	5.3				69.9	69.9			70.1	70.1			19.9	19.9			155			
T2	5.3	5.4	98.1	89.8	67.8	68.3	99.3	98.7	69.6	70.1	99.3	100.0	19.4	19.6	99.0	98.5	150	154	97.4	105.6
W2	5.4	6.1	88.5	91.5	68.0	68.5	99.3	99.0	69.8	69.8	100.0	100.3	18.5	19.2	96.4	93.9	140	139	100.7	98.6
Y2	7.1				68.9	68.9			69.5	69.5			21.2	21.2			136			
Z2	4.2	4.4	95.4	71.2	69.4	68.8	100.9	101.0	70.0	69.4	100.9	100.6	19.5	18.8	103.7	99.0	146	144	101.4	102.8
A3	7.6	7.2	105.6	128.8	68.8	68.7	100.1	100.1	68.9	69.1	99.7	99.0	19.5	19.4	100.5	99.0	145	147	98.6	102.1
B3	6.3	6.6	95.4	106.8	68.3	68.7	99.4	99.4	69.4	69.6	99.7	99.7	21.0	20.6	101.9	106.6	133	133	100.0	93.7

FKI DATA

CUR.

AV.

CUM.

AV.

IND.

*,*D

230

310

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

19.6	142
19.7	142
99.5	100.0

69.6
69.6
100.0

68.7
68.7
100.0

6.0
5.9
101.7

TABLE X

FKI DATA

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

TABLE XI
AVERAGES OF ROUTINE MILL QUALITY CONTROL DATA FOR 90 LB FOURDRINIER KRAFT LINERBOARD

JULY, 1976

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 CUR. CUM. FACT. IND. AV. #B #C	MACHINE DATA CUR. CUM. FACT. IND. AV. #B #C	MACHINE DATA CUR. CUM. FACT. IND. AV. #B #C	MACHINE DATA CUR. CUM. FACT. IND. AV. #B #C	MACHINE DATA CUR. CUM. FACT. IND. AV. #B #C	MACHINE DATA CUR. CUM. FACT. IND. AV. #B #C	MACHINE DATA CUR. CUM. FACT. IND. AV. #B #C	MACHINE DATA CUR. CUM. FACT. IND. AV. #B #C	MACHINE DATA CUR. CUM. FACT. IND. AV. #B #C	MACHINE DATA CUR. CUM. FACT. IND. AV. #B #C
B1	3.7		86.5		90.3		26.6		164	
D1	6.8		89.9		90.9		23.5		183	
E1	6.5	6.2 104.8 108.3	90.6 90.9 99.7 101.1	90.9 91.2 99.7 100.1	90.9 91.2 99.7 100.1	27.7 26.8 103.4 108.6	170 170 100.0 98.8			
G1	5.0		87.2		89.8		24.4		155	
H1	6.4		89.7		90.0		26.6		180	
I1	6.7	6.2 108.1 111.7	90.1 89.7 100.4 100.6	91.2 91.2 100.0 100.4	91.2 91.2 100.0 100.4	25.2 25.6 98.4 98.8	163 163 98.2 94.8			
M1	6.9	6.8 101.5 115.0	90.2 90.1 100.1 100.7	91.1 91.1 100.0 100.3	91.1 91.1 100.0 100.3	26.3 26.3 100.0 103.1	171 173 98.8 99.4			
O1	5.1	5.6 91.1 85.0	87.8 89.3 98.3 98.0	90.3 91.4 98.8 99.4	90.3 91.4 98.8 99.4	25.6 26.1 98.1 100.4	167 166 100.6 97.1			
Q1	6.4	6.1 104.9 106.7	90.4 90.3 100.1 100.9	90.7 90.6 100.1 99.9	90.7 90.6 100.1 99.9	25.7 27.0 95.2 100.8	158 163 96.9 91.9			
U1	6.7		89.2		90.3		23.2		149	
V1	4.6		88.8		92.0		27.2		180	
Z1	4.4	4.4 100.0 73.3	91.4 90.4 101.1 102.0	91.7 90.8 101.0 101.0	91.7 90.8 101.0 101.0	25.0 24.1 103.7 98.0	157 168 93.4 91.3			
L2	6.6	7.4 89.2 110.0	90.2 90.4 99.8 100.7	91.4 90.8 100.7 100.7	91.4 90.8 100.7 100.7	26.2 25.0 104.8 102.7	171 168 101.8 95.4			
N2	5.4	5.8 93.1 90.0	89.5 89.8 99.7 99.9	89.8 90.1 99.7 98.9	89.8 90.1 99.7 98.9	25.3 24.6 102.8 99.2	176 170 103.5 102.3			
O2	6.9	6.8 101.5 115.0	89.7 89.4 100.3 100.1	90.6 90.4 100.2 99.8	90.6 90.4 100.2 99.8	24.5 24.6 99.6 96.1	174 179 97.2 101.2			
T2	5.0	5.5 90.9 83.3	88.6 89.3 99.2 98.9	91.3 91.5 99.8 100.6	91.3 91.5 99.8 100.6	25.6 26.1 98.1 100.4	179 180 99.4 104.1			
W2	6.0	6.4 93.8 100.0	89.2 89.5 99.7 99.6	91.0 90.9 100.1 100.2	91.0 90.9 100.1 100.2	24.2 24.9 97.2 94.9	164 164 100.0 95.3			
A3	7.6	7.5 101.3 126.7	89.5 89.8 99.7 99.9	89.7 90.0 99.7 98.8	89.7 90.0 99.7 98.8	25.2 25.2 100.0 98.8	172 174 98.8 100.0			

FKI DATA

CUR.										
AV.	6.1		89.8		90.8		25.5		168	
CUM.										
AV.	6.0		89.6		90.8		25.5		172	
IND.										
#D 101.7			100.2		100.0		100.0		97.7	

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

FKI DATA

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		MACHINE DATA		MACHINE DATA		MACHINE DATA		MACHINE DATA			
	CUR. AV.	CUM. #B	IND. #C	CUR. AV.	CUM. #B	IND. #C	CUR. AV.	CUM. #B	IND. #C	CUR. AV.	CUM. #B	IND. #C	CUR. AV.	CUM. #B	IND. #C	CUR. AV.	CUM. #B	IND. #C		
B1	4.0	3.7	108.1	66.7	86.8	86.4	100.5	96.9	90.4	90.3	100.1	99.4	26.4	26.5	99.6	103.5	159	165	96.4	93.0
D1	6.9	6.8	101.5	115.0	90.2	89.9	100.3	100.7	91.1	90.9	100.2	100.2	26.9	23.6	114.0	105.5	180	183	98.4	105.3
E1	6.5	6.2	104.8	108.3	90.8	90.8	100.0	101.3	91.1	91.2	99.9	100.2	27.5	26.8	102.6	107.8	173	170	101.8	101.2
G1		5.0			87.2				89.8				24.4				155			
H1					89.2				90.2				27.5				165			
I1		6.3			89.8				91.2				25.7				166			
N1	7.1	6.7	106.0	118.3	90.4	90.0	100.4	100.9	91.1	91.1	100.0	100.2	27.1	26.3	103.0	106.3	165	173	95.4	96.5
O1	4.7	5.5	85.4	78.3	87.5	89.2	98.1	97.6	90.5	91.4	99.0	99.6	26.0	26.0	100.0	102.0	168	166	101.2	98.2
Q1	6.4	6.2	103.2	106.7	90.5	90.3	100.2	101.0	90.8	90.6	100.2	99.9	25.7	26.8	95.9	100.8	162	162	100.0	94.7
U1					89.2				90.3				23.2				149			
V1		5.1			89.4				92.0				27.3				181			
Z1	4.7	4.4	106.8	78.3	90.4	90.6	99.8	100.9	90.7	90.9	99.8	99.8	24.6	24.2	101.6	96.5	154	166	92.8	90.0
12	3.8	4.4	86.4	63.3	87.9	88.5	99.3	98.1	91.7	91.8	99.9	100.9	26.3	26.0	101.2	103.1	176	166	97.8	102.9
L2	6.8	7.3	93.2	113.3	90.2	90.4	99.8	100.7	91.2	90.9	100.3	100.3	25.8	25.1	102.8	101.2	169	169	100.0	98.8
M2	5.7	5.7	100.0	95.0	89.7	89.7	100.0	100.1	90.0	90.0	100.0	99.0	25.8	24.8	104.0	101.2	167	171	97.7	97.7
N2	7.1	6.8	104.4	118.3	90.0	89.5	100.6	100.4	90.7	90.4	100.3	99.8	24.6	24.6	100.0	96.5	169	178	94.9	98.8
12	5.1	5.6	94.4	85.0	88.5	89.3	99.1	98.8	91.1	91.5	99.6	100.2	26.0	26.0	100.0	102.0	180	181	99.4	105.3
W2	6.0	6.3	95.2	100.0	89.2	89.5	99.7	99.6	91.0	90.9	100.1	100.1	24.8	24.9	99.6	97.2	168	164	102.4	98.2
W3	7.5	7.5	100.0	125.0	89.3	89.8	99.4	99.7	89.6	90.0	99.6	98.6	25.6	25.2	101.6	100.4	169	173	97.7	98.8

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

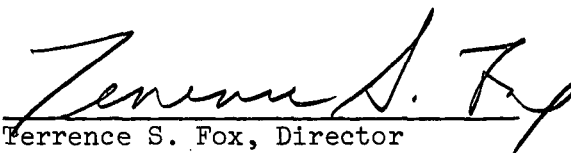
Data submitted by the participating mills relative to conditioning and testing environments are summarized in Table XIII. The procedures used in calculating adjusted basis weight, cumulative machine averages, machine factors, machine indexes, and FKI indexes are described in the Appendix.

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

TABLE XIII
DATA ON CONDITIONING AND TESTING ENVIRONMENTS
JULY AND AUGUST, 1976

Code	Conditioning Environment				Testing Environment
	Are Quality Samples Conditioned Before Testing?	Time	Temp., °F	RH, %	Are Quality Samples Tested Under Controlled Conditions of Temperature & Humidity?
A1	Yes	15 min	--	--	Yes: $73 \pm 2^\circ\text{F}$; $50 \pm 1\%$ RH
B1	No	--	--	--	No
C1	No	--	--	--	Yes: $73 \pm 3.5^\circ\text{F}$; $50 \pm 2\%$ RH
D1	No	--	--	--	Yes: $73 \pm 2^\circ\text{F}$; $50 \pm 2\%$ RH
E1	No	--	--	--	Yes: $73 \pm 3^\circ\text{F}$; $50 \pm 2\%$ RH
F1	No	--	--	--	No
G1	No	--	--	--	No
H1	No	--	--	--	No
I1	No	--	--	--	No
J1	No	--	--	--	No
K1	No data submitted for July and August				
L1	No data submitted for July and August				
M1	No data submitted for July and August				
N1	No	--	--	--	No
O1	No	--	--	--	No
P1	No	--	--	--	Yes: $73 \pm 2^\circ\text{F}$; $50 \pm 2\%$ RH
Q1	No	--	--	--	Yes: $75 \pm 5^\circ\text{F}$; $50 \pm 5\%$ RH
R1	No	--	--	--	Yes: $70 \pm 2^\circ\text{F}$; $50 \pm 2\%$ RH
S1	No	--	--	--	Yes: $73 \pm 2^\circ\text{F}$; $50 \pm 3\%$ RH
T1	No	--	--	--	No
U1	No	--	--	--	Yes: $73 \pm 4^\circ\text{F}$; $50 \pm 10\%$ RH
V1	No	--	--	--	No
W1	No	--	--	--	Yes: $73 \pm 3^\circ\text{F}$; $50 \pm 2\%$ RH
X1	No	--	--	--	Yes: $73 \pm 3.5^\circ\text{F}$; $50 \pm 2\%$ RH
Y1	Yes	10 min	--	--	Yes: $73 \pm 2^\circ\text{F}$; $50 \pm 2\%$ RH
Z1	No	--	--	--	No
A2	Yes	10 min	--	--	Yes: $73 \pm 2^\circ\text{F}$; $50 \pm 2\%$ RH
B2	No data submitted for July and August				
C2	No	--	--	--	No
D2	No	--	--	--	Yes: $73 \pm 2^\circ\text{F}$; $50 \pm 3\%$ RH
E2	No	--	--	--	Yes: $72 \pm 3.5^\circ\text{F}$; $50 \pm 5\%$ RH
F2	No	--	--	--	Yes: $73 \pm 3^\circ\text{F}$; $50 \pm 2\%$ RH
G2	Yes	20 min	--	--	Yes: $72 \pm 2^\circ\text{F}$; $50 \pm 2\%$ RH
H2	No	--	--	--	No
I2	No	--	--	--	No
J2	No	--	--	--	No
K2	No	--	--	--	No
L2	No	--	--	--	No
M2	No	--	--	--	Yes: $73 \pm 3^\circ\text{F}$; $50 \pm 2\%$ RH
N2	No	--	--	--	No
O2	No	--	--	--	Yes: $72 \pm 2^\circ\text{F}$; $50 \pm 1\%$ RH
P2	No	--	--	--	No
Q2	No	--	--	--	Yes: $73 \pm 3^\circ\text{F}$; $50 \pm 2\%$ RH
R2	No	--	--	--	No
S2	Yes	15 min	--	--	Yes: $73 \pm 3.5^\circ\text{F}$; $50 \pm 2\%$ RH
T2	No	--	--	--	No
U2	No	--	--	--	No
V2	No	--	--	--	Yes: $73 \pm 2^\circ\text{F}$; $50 \pm 2\%$ RH
W2	No	--	--	--	Yes: $70 \pm 2^\circ\text{F}$; $50 \pm 5\%$ RH
X2	Yes	20 min	--	--	Yes: $72 \pm 2^\circ\text{F}$; $50 \pm 2\%$ RH
Y2	No	--	--	--	No
Z2	Yes	--	73	50	Yes: 73°F ; $50 \pm 2\%$ RH
A3	No	--	--	--	No
B3	No	--	--	--	Yes: $73 \pm 3^\circ\text{F}$; 50% RH
C3	No	--	--	--	Yes: $73 \pm 4^\circ\text{F}$; $50 \pm 10\%$ RH
D3	No data submitted for July and August				

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A handwritten signature in cursive script, reading "Terrence S. Fox", written over a horizontal line.

Terrence S. Fox, Director
Container Division

APPENDIX

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

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

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

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

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

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

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

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

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

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

^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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