

CONTINUOUS BASE-LINE STUDY (MODIFIED)
(MILL LINERBOARD DATA FOR JANUARY,
FEBRUARY, MARCH, 1979)
Project 2694-1
Report Seventy-one
A Progress Report
to
FOURDRINIER KRAFT BOARD GROUP
OF THE
AMERICAN PAPER INSTITUTE
May 31, 1979



BASE-LINE
1st Quarter, 1979

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THE INSTITUTE OF PAPER CHEMISTRY

Appleton, Wisconsin

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May 31, 1979

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THE INSTITUTE OF PAPER CHEMISTRY

Appleton, Wisconsin

CONTINUOUS BASE-LINE STUDY (MODIFIED)
(MILL LINERBOARD DATA FOR JANUARY, FEBRUARY, MARCH, 1979)

SUMMARY

PART I: SUMMARY OF MOISTURE CONTENT DATA
(DECEMBER, 1978-MARCH, 1979)

Linerboard Grade Wt.		Moisture Content			
		December	January	February	March
26 Lb	Max. ^a	6.8	6.6	6.9	6.6
	Min. ^a	1.3	3.5	3.3	3.6
	Av. ^b	4.6 (22)	5.0 (20)	5.0 (18)	5.0 (17)
33 Lb	Max. ^a	6.4	6.2	6.4	6.4
	Min. ^a	2.1	2.0	2.3	2.1
	Av. ^b	4.7 (22)	4.8 (24)	4.9 (22)	5.0 (24)
38 Lb	Max. ^a	6.5	6.4	6.8	6.6
	Min. ^a	4.0	4.2	4.2	4.2
	Av. ^b	5.2 (21)	5.4 (19)	5.4 (20)	5.3 (20)
42 Lb	Max. ^a	7.3	7.1	7.1	6.7
	Min. ^a	3.3	4.1	3.8	3.4
	Av. ^b	5.5 (39)	5.6 (41)	5.6 (42)	5.5 (43)
69 Lb	Max. ^a	8.1	7.9	8.2	8.2
	Min. ^a	3.7	4.4	4.8	4.2
	Av. ^b	6.1 (29)	6.2 (30)	6.4 (30)	6.3 (30)
90 Lb	Max. ^a	7.4	7.1	7.2	7.5
	Min. ^a	4.6	4.5	4.9	5.1
	Av. ^b	6.0 (12)	6.3 (10)	6.2 (11)	6.2 (14)

^aCurrent machine average.

^bCurrent FKBG average, number of machines is indicated in parentheses.

PART II: SUMMARY OF ADJUSTED BASIS WEIGHT DATA
(DECEMBER, 1978-MARCH, 1979)

Linerboard Grade Wt.		Adjusted Basis Weight, lb/M ft ²			
		December	January	February	March
26 Lb	Max. ^a	27.9	27.6	27.5	27.3
	Min. ^a	25.8	25.6	26.0	25.8
	Av. ^b	26.6 (22)	26.5 (20)	26.5 (18)	26.6 (17)
33 Lb	Max. ^a	34.9	35.0	34.6	34.6
	Min. ^a	33.0	32.9	33.0	33.0
	Av. ^b	33.5 (22)	33.6 (24)	33.6 (22)	33.5 (24)
38 Lb	Max. ^a	39.3	39.5	39.4	39.5
	Min. ^a	38.0	37.9	38.0	38.0
	Av. ^b	38.5 (21)	38.5 (19)	38.6 (20)	38.5 (20)
42 Lb	Max. ^a	43.2	43.6	43.2	43.4
	Min. ^a	42.0	41.9	41.8	41.7
	Av. ^b	42.4 (39)	42.4 (41)	42.4 (42)	42.4 (43)
69 Lb	Max. ^a	70.4	70.1	70.2	70.8
	Min. ^a	68.8	68.7	68.5	68.5
	Av. ^b	69.4 (29)	69.4 (30)	69.4 (30)	69.4 (30)
90 Lb	Max. ^a	91.6	91.8	92.6	92.0
	Min. ^a	89.7	88.9	89.5	89.4
	Av. ^b	90.7 (12)	90.4 (10)	90.7 (11)	90.5 (14)

^aCurrent machine average.

^bCurrent FKBG average, number of machines is indicated in parentheses.

PART III: SUMMARY OF CALIPER DATA
(DECEMBER, 1978-MARCH, 1979)

Linerboard Grade Wt.		Caliper, pt.			
		December	January	February	March
26 Lb	Max. ^a	9.4	9.2	8.8	9.2
	Min. ^a	7.2	7.5	6.9	6.9
	Av. ^b	8.0 (21)	8.0 (19)	8.1 (18)	8.0 (17)
33 Lb	Max. ^a	11.0	11.5	11.1	11.1
	Min. ^a	9.4	9.0	9.1	9.0
	Av. ^b	10.0 (20)	9.9 (22)	9.8 (20)	9.9 (23)
38 Lb	Max. ^a	12.2	11.8	12.0	12.4
	Min. ^a	10.3	9.9	10.4	10.1
	Av. ^b	11.0 (19)	11.0 (18)	11.1 (19)	11.1 (19)
42 Lb	Max. ^a	13.1	13.1	13.0	13.0
	Min. ^a	11.1	11.1	11.1	10.9
	Av. ^b	12.0 (37)	12.1 (39)	12.1 (40)	12.1 (42)
69 Lb	Max. ^a	21.3	21.5	21.7	22.0
	Min. ^a	17.8	18.3	18.1	18.2
	Av. ^b	19.6 (27)	19.8 (28)	19.9 (28)	19.8 (29)
90 Lb	Max. ^a	27.0	27.6	28.1	27.6
	Min. ^a	23.6	23.9	23.4	23.6
	Av. ^b	25.3 (11)	25.3 (9)	25.7 (10)	25.6 (14)

^aCurrent machine average.

^bCurrent FKBG average, number of machines is indicated in parentheses.

PART IV: SUMMARY OF BURSTING STRENGTH DATA
(DECEMBER, 1978-MARCH, 1979)

Linerboard Grade Wt.		Bursting Strength, psig			
		December	January	February	March
26 Lb	Max. ^a	81	82	80	81
	Min. ^a	62	60	64	62
	Av. ^b	72 (22)	71 (20)	71 (18)	71 (17)
33 Lb	Max. ^a	99	104	95	95
	Min. ^a	78	76	77	78
	Av. ^b	86 (22)	85 (24)	84 (22)	86 (24)
38 Lb	Max. ^a	116	111	107	106
	Min. ^a	90	88	85	87
	Av. ^b	97 (21)	97 (19)	96 (20)	96 (20)
42 Lb	Max. ^a	118	117	118	112
	Min. ^a	97	96	97	96
	Av. ^b	105 (39)	104 (41)	104 (42)	104 (43)
69 Lb	Max. ^a	164	154	158	151
	Min. ^a	129	129	129	130
	Av. ^b	141 (29)	140 (30)	140 (30)	140 (30)
90 Lb	Max. ^a	180	174	182	185
	Min. ^a	161	160	152	159
	Av. ^b	170 (12)	167 (10)	167 (11)	170 (14)

^aCurrent machine average.

^bCurrent FKBG 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.G. 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. Note that the moisture content at the as-reported basis weight (not shown in tables) does not necessarily agree with the moisture content indicated in the report as measured at the reel. This is because some mills measure their basis weight at other than reel or standard conditions. The as-reported basis weight is included in the tables for reference only and should not be used for comparison purposes.

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-III	Mill Test Averages on 26-lb Linerboard
IV-V-VI	Mill Test Averages on 33-lb Linerboard
VII-VIII-IX	Mill Test Averages on 38-lb Linerboard
X-XI-XII	Mill Test Averages on 42-lb Linerboard
XIII-XIV-XV	Mill Test Averages on 69-lb Linerboard
XVI-XVII-XVIII	Mill Test Averages on 90-lb Linerboard

TABLE I
AVERAGES OF ROUTINE MILL QUALITY CONTROL DATA FOR 26 LB FOURDRINIER KRAFT LINERBOARD
JANUARY, 1979

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			1.3				26.1				27.9					8.6			62		
C1			4.4				26.8				26.9					8.3			66		
D1	5.7	5.5	103.6	123.9	25.8	25.8	100.0	99.2	26.4	26.4	100.0	99.2	7.6	7.4	102.7	95.0	65	67	97.0	90.3	
G1	5.3	5.1	103.9	115.2	26.5	26.5	100.0	101.9	27.2	27.3	99.6	102.2	9.2	8.6	107.0	115.0	66	68	97.0	91.7	
H1			6.3				26.0				26.1					7.1			76		
L1	5.9	5.2	113.5	128.3	25.1	25.5	98.4	96.5	25.6	26.3	97.3	96.2	7.6	7.8	97.4	95.0	75	75	100.0	104.2	
M1	4.9	5.5	89.1	106.5	25.8	26.0	99.2	99.2	26.6	26.7	99.6	100.0		8.7			71	70	101.4	98.6	
N1			2.5				25.2				26.6					7.6			76		
O1	4.9	4.8	102.1	106.5	26.2	26.4	99.2	100.8	26.3	26.5	99.2	98.9	8.1	8.1	100.0	101.2	74	70	105.7	102.8	
P1			4.7				25.9				26.8					8.0			71		
S1	5.7	4.8	118.8	123.9	25.7	25.6	100.4	98.8	26.3	26.4	99.6	98.9	8.1	8.1	100.0	101.2	66	71	93.0	91.7	
T1	4.9	5.1	96.1	106.5	26.0	26.0	100.0	100.0	26.8	26.8	100.0	100.8	8.1	9.0	90.0	101.2	72	69	104.3	100.0	
U1			5.7				26.0				26.1					7.5			62		
W1	3.7	4.0	92.5	80.4	26.6	26.5	100.4	102.3	26.7	26.6	100.4	100.4	7.5	7.7	97.4	93.8	68	71	95.8	94.4	
X1	6.1	6.8	89.7	132.6	25.8	25.6	100.8	99.2	26.3	25.9	101.5	98.9	8.0	8.1	98.8	100.0	81	78	103.8	112.5	
Y1	4.7	4.2	111.9	102.2	26.7	25.9	103.1	102.7	27.6	26.9	102.6	103.8	7.9	7.7	102.6	98.8	71	73	97.3	98.6	
C2	3.7	3.9	94.9	80.4	26.4	27.2	97.0	101.5	26.5	27.3	97.1	99.6	8.1	8.8	92.0	101.2	66	71	93.0	91.7	
E2			6.3				26.4				26.5					7.1			74		
F2			5.3				26.9				27.6					8.1			68		
G2	3.6	3.2	112.5	78.3	26.0	26.1	99.6	100.0	26.1	26.2	99.6	98.1	7.8	7.7	101.3	97.5	65	72	90.3	90.3	
I2			3.2				25.0				26.3					6.9			73		
J2	6.6	6.3	104.8	143.5	26.0	26.0	100.0	100.0	26.1	26.1	100.0	98.1	7.5	7.0	107.1	93.8	66	64	103.1	91.7	
M2	5.3	5.4	98.1	115.2	26.3	26.1	100.8	101.2	26.4	26.2	100.8	99.2	8.1	8.2	98.8	101.2	70	69	101.4	97.2	
N2	4.9	4.4	111.4	106.5	25.3	25.6	98.8	97.3	26.1	26.5	98.5	98.1	7.8	7.9	98.7	97.5	74	76	97.4	102.8	
O2	4.4	4.1	107.3	95.6	25.6	25.3	101.2	98.5	26.5	25.3	100.8	99.6	7.7	7.6	101.3	96.2	81	77	105.2	112.5	
Q2			5.6				26.2				26.3								76		
R2	6.4			139.1	25.9			99.6	26.0			97.7	7.5			93.8	60			83.3	
T2	4.5	4.4	102.3	97.8	26.4	26.0	101.5	101.5	27.4	27.0	101.5	103.0	7.8	7.5	104.0	97.5	73	74	98.6	101.4	
U2	5.4	5.5	98.2	117.4	25.5	25.6	99.6	98.1	26.2	26.2	100.0	98.5	8.1	8.3	97.6	101.2	75	79	94.9	104.2	
Y2			6.0				26.9				27.4					9.3			64		
B3			3.9				26.0				27.1					7.9			79		
C3	3.5	4.0	87.5	76.1	25.4	25.6	99.2	97.7	26.6	26.6	100.0	100.0	8.8	8.3	106.0	110.0	82	84	97.6	113.9	
FKBG DATA																					
CUR.																					
AV.		5.0				26.0				26.5				8.0				71			
CUM.																					
AV.		4.6				26.0				26.6				8.0				72			
IND.																					
*D		108.7				100.0				99.6				100.0				98.6			

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

TABLE II
AVERAGES OF ROUTINE MILL QUALITY CONTROL DATA FOR 26 LB FOURDRINIER KRAFT LINERBOARD

FEBRUARY, 1979

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		1.3				26.1				27.9				8.6				62		
C1		4.4				26.8				26.9				8.3				66		
D1	5.8	5.6	103.6	126.1	25.9	25.8	100.4	99.6	26.5	26.4	100.4	99.6	7.3	7.4	98.6	91.2	65	67	97.0	90.3
G1	5.4	5.1	105.9	117.4	26.8	26.5	101.1	103.1	27.5	27.3	100.7	103.4	8.8	8.6	102.3	110.0	66	67	98.5	91.7
H1		6.3				26.0				26.1				7.1				76		
L1	5.0	5.3	94.3	108.7	25.2	25.5	98.8	96.9	26.0	26.2	99.2	97.7	7.9	7.8	101.3	98.8	71	75	94.7	98.6
M1	4.9	5.5	89.1	106.5	26.2	26.0	100.8	100.8	27.0	26.6	101.5	101.5	8.7	8.7	100.0	108.8	69	71	97.2	95.8
N1		2.5				25.2				26.6				7.6				77		
O1	4.7	4.8	97.9	102.2	26.1	26.3	99.2	100.4	26.2	26.4	99.2	98.5	8.3	8.1	102.5	103.8	72	70	102.8	100.0
P1	4.7	4.7	100.0	102.2	25.8	25.9	99.6	99.2	26.7	26.8	99.6	100.4	8.2	8.0	102.5	102.5	71	71	100.0	98.6
S1	4.8	5.0	96.0	104.3	25.6	25.6	100.0	98.5	26.4	26.4	100.0	99.2	8.2	8.1	101.2	102.5	69	70	98.6	95.8
T1	5.3	5.1	103.9	115.2	26.0	26.0	100.0	100.0	26.7	26.8	99.6	100.4	8.7	8.9	97.8	108.8	69	69	100.0	95.8
U1		5.7				26.0				26.1				7.5				62		
W1	3.8	4.0	95.0	82.6	26.6	26.5	100.4	102.3	26.7	26.6	100.4	100.4	7.7	7.7	100.0	96.2	73	71	102.8	101.4
X1	5.8	6.6	87.9	126.1	25.8	25.6	100.8	99.2	26.4	26.0	101.5	99.2	8.7	8.1	107.4	108.8	78	78	100.0	108.3
Y1	4.9	4.3	114.0	106.5	26.0	26.0	100.0	100.0	26.8	27.0	99.2	100.8	7.7	7.8	98.7	96.2	73	74	98.6	101.4
C2	3.8	3.9	97.4	82.6	27.2	27.2	100.0	104.6	27.3	27.3	100.0	102.6	8.4	8.8	95.4	105.0	67	71	94.4	93.0
E2		6.3				26.4				26.5				7.1				74		
F2		5.4				27.0				27.7				8.2				67		
G2	3.6	3.3	109.1	78.3	26.0	26.1	99.6	100.0	26.1	26.2	99.6	98.1	7.8	7.7	101.3	97.5	65	71	91.5	90.3
J2		3.1				25.0				26.3				7.2				73		
K2	6.9	6.4	107.8	150.0	26.1	26.0	100.4	100.4	26.2	26.1	100.4	98.5	6.9	7.2	95.8	86.2	64	65	98.5	88.9
M2	5.5	5.4	101.8	119.6	26.1	26.1	100.0	100.4	26.2	26.2	100.0	98.5	8.4	8.2	102.4	105.0	71	69	102.9	98.6
N2	5.1	4.4	115.9	110.9	25.7	25.5	100.8	98.8	26.4	26.4	100.0	99.2	8.0	7.9	101.3	100.0	80	75	106.7	111.1
O2		4.1				25.3				26.3				7.6				77		
Q2		5.3				26.3				26.4								80		
R2		6.4				25.9				26.0				7.5				60		
T2		4.4				26.1				27.1				7.6				74		
U2	6.1	5.5	110.9	132.6	25.5	25.6	99.6	98.1	26.0	26.2	99.2	97.7	8.4	8.3	101.2	105.0	70	78	89.7	97.2
Y2		6.0				26.9				27.4				9.3				64		
B3		3.8				25.9				27.0				7.9				79		
C3	3.3	4.0	82.5	71.7	25.5	25.5	100.0	98.1	26.7	26.6	100.4	100.4	8.3	8.4	98.8	103.8	79	84	94.0	109.7
FKBG DATA																				
CUR.																				
AV. 5.0																				
CUM. 26.0																				
AV. 4.6																				
IND. 26.0																				
*D 108.7																				
100.0																				
99.6																				
101.2																				
98.6																				

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

TABLE III
AVERAGES OF ROUTINE MILL QUALITY CONTROL DATA FOR 26 LB FOURDRINIER KRAFT LINERBOARD

CODE	MOISTURE CONTENT, PERCENT				BASIS WT., LB / M SQ FT				ADJ. BASIS WT.,*A LB / M SQ FT				CALIPER, PT				BURSTING STRENGTH, P S I G			
	MACHINE DATA				MACHINE DATA				MACHINE DATA				MACHINE DATA				MACHINE DATA			
	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C
A1			1.3				26.1				27.9				8.6			62		
C1			4.4				26.8				26.9				8.3			66		
D1	5.9	5.6	105.4	125.5	25.9	25.8	100.4	99.6	26.4	26.4	100.0	99.2	7.5	7.4	101.4	93.8	66	67	98.5	91.7
G1	5.1	5.2	98.1	108.5	26.5	26.5	100.0	101.9	27.3	27.2	100.4	102.6	9.1	8.6	105.8	113.8	65	67	97.0	90.3
H1			6.3				26.0				26.1				7.1			76		
L1			5.2				25.4				26.2				7.8			74		
M1	4.9	5.4	90.7	104.2	26.2	26.0	100.8	100.8	27.0	26.7	101.1	101.5	8.6	8.7	98.8	107.5	72	70	102.8	100.0
N1			2.5				25.2				26.6				7.6			77		
O1	4.5	4.8	93.8	95.7	26.1	26.3	99.2	100.4	26.2	26.4	99.2	98.5	7.8	8.1	96.3	97.5	74	70	105.7	102.8
P1	5.1	4.7	108.5	108.5	26.0	25.9	100.4	100.0	26.8	26.8	100.0	100.8	8.2	8.0	102.5	102.5	73	71	102.8	101.4
S1	4.9	4.9	100.0	104.2	25.6	25.6	100.0	98.5	26.4	26.4	100.0	99.2	8.1	8.1	100.0	101.2	70	70	100.0	97.2
T1	5.0	5.1	98.0	106.4	26.0	26.0	100.0	100.0	26.8	26.8	100.0	100.8	9.2	8.8	104.5	115.0	67	69	97.1	93.0
U1			5.8				26.0				26.1				7.4			62		
W1	3.9	4.0	97.5	83.0	26.8	26.5	101.1	103.1	26.9	26.6	101.1	101.1	7.5	7.7	97.4	93.8	69	71	97.2	95.8
X1	5.9	6.5	90.8	125.5	25.7	25.6	100.4	98.8	26.2	26.0	100.8	98.5	8.5	8.2	103.6	106.2	75	78	96.2	104.2
Y1	4.9	4.3	114.0	104.2	25.8	26.0	99.2	99.2	26.6	27.0	98.5	100.0	7.7	7.8	98.7	96.2	69	74	93.2	95.8
C2			3.9				27.1				27.2				8.7			70		
E2			6.3				26.4				26.5				7.1			74		
F2			5.6				27.2				27.8				8.2			68		
G2	3.6	3.3	109.1	76.6	26.0	26.0	100.0	100.0	26.1	26.2	99.6	98.1	7.8	7.7	101.3	97.5	65	70	92.8	90.3
I2			3.1				25.0				26.3				7.2			73		
J2	6.6	6.5	101.5	140.4	26.0	26.0	100.0	100.0	26.1	26.1	100.0	98.1	6.9	7.1	97.2	86.2	67	65	103.1	93.0
M2			5.4				26.1				26.2				8.2			70		
N2	5.0	4.5	111.1	106.4	25.8	25.6	100.8	99.2	26.6	26.4	100.8	100.0	7.9	7.9	100.0	98.8	81	75	108.0	112.5
O2			4.1				25.3				26.3				7.6			78		
Q2			5.3				26.3				26.4							80		
R2	6.3	6.4	98.4	134.0	26.1	25.9	100.8	100.4	26.2	26.0	100.8	98.5	6.9	7.5	92.0	86.2	62	60	103.3	86.1
T2			4.4				26.1				27.1				7.6			74		
U2	6.3	5.6	112.5	134.0	25.4	25.6	99.2	97.7	25.8	26.2	98.5	97.0	8.2	8.3	98.8	102.5	77	77	100.0	106.9
Y2			6.0				26.9				27.4				9.3			64		
B3			3.8				25.7				26.8				7.9			79		
C3	3.9	3.9	100.0	83.0	25.5	25.5	100.0	98.1	26.6	26.6	100.0	100.0	8.4	8.4	100.0	105.0	80	83	96.4	111.1
H3				83.0		27.2		104.6		27.3		102.6		8.4		105.0		71		98.6
FKBG DATA																				
CUR.																				
AV. 5.0																				
CUM.																				
AV. 4.7																				
IND.																				
*D 106.4																				
100.0																				
99.6																				
100.0																				
98.6																				

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

JANUARY, 1979

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	2.0	2.2	90.9	41.7	32.9	32.2	102.2	100.3	35.0	34.2	102.3	104.5	9.8	10.6	92.4	99.0	82	81	101.2	95.3
C1	4.9					33.2				33.3				9.6				87		
D1	6.2	5.8	106.9	129.2	32.8	32.8	100.0	100.0	33.4	33.5	99.7	99.7	9.5	9.5	100.0	96.0	81	82	98.8	94.2
F1	4.8					32.6				33.6				9.4				86		
L1	5.5	5.4	101.8	114.6	32.1	32.4	99.1	97.9	32.9	33.2	99.1	98.2	9.6	9.7	99.0	97.0	95	90	105.6	110.5
M1	4.8	5.1	94.1	100.0	32.8	32.8	100.0	100.0	33.9	33.8	100.3	101.2	11.5	11.3	101.8	116.2	77	81	95.1	89.5
N1	2.9					32.0				33.7				9.5				90		
O1	4.8	4.9	98.0	100.0	33.2	33.2	100.0	101.2	33.3	33.3	100.0	99.4	9.9	10.0	99.0	100.0	87	85	102.4	101.2
P1	5.7	5.2	109.6	118.8	32.6	32.6	100.0	99.4	33.3	33.6	99.1	99.4	9.8	10.2	96.1	99.0	85	84	101.2	98.8
S1	4.6	4.8	95.8	95.8	32.6	32.5	100.3	99.4	33.7	33.6	100.3	100.6	10.1	10.0	101.0	102.0	76	83	91.6	88.4
T1	5.0					32.9				33.8				10.4				84		
V1	5.8					33.7				34.0				10.4				90		
W1	4.2	4.6	91.3	87.5	33.2	33.1	100.3	101.2	33.4	33.3	100.3	99.7	9.5	9.5	100.0	96.0	82	81	101.2	95.3
X1	5.6					32.6				33.5				10.5				94		
Y1	4.8	4.5	106.7	100.0	33.2	32.6	101.8	101.2	34.3	33.8	101.5	102.4	9.5	9.8	96.9	96.0	88	88	100.0	102.3
Z1	2.9					33.5				33.8				9.5				80		
C2	5.0	4.6	108.7	104.2	33.2	33.4	99.4	101.2	33.3	33.6	99.1	99.4	10.4	10.4	100.0	105.0	78	82	95.1	90.7
E2	6.4					33.1				33.2				9.2				89		
F2	6.0	5.6	107.1	125.0	34.0	33.9	100.3	103.6	34.7	34.7	100.0	103.6	10.4	10.2	102.0	105.0	79	80	98.8	91.9
G2	3.9	3.7	105.4	81.2	33.1	33.1	100.0	100.9	33.2	33.2	100.0	99.1	9.7	9.8	99.0	98.0	82	86	95.3	95.3
H2	5.4					32.6				33.4				9.2				81		
I2	3.6	4.0	90.0	75.0	31.7	31.9	99.4	96.6	33.2	33.2	100.0	99.1		8.9			104	92	113.0	120.9
M2	6.1	6.2	98.4	127.1	33.0	33.0	100.0	100.6	33.1	33.0	100.3	98.8	9.8	9.8	100.0	99.0	85	87	103.6	98.8
N2	4.6					32.2				33.3				9.8				89		
O2	4.5	4.8	93.8	93.8	32.4	32.2	100.6	98.8	33.6	33.3	100.9	100.3	9.0	9.2	97.8	90.9	91	95	95.8	105.8
Q2	5.7	5.7	100.0	118.8	33.3	33.1	100.6	101.5	33.4	33.2	100.6	99.7					86	86	100.0	100.0
R2	6.2	6.0	103.3	129.2	32.9	33.7	99.1	100.3	33.0	33.3	99.1	98.5	9.9	9.2	107.6	100.0	81	84	96.4	94.2
T2	4.8	5.0	96.0	100.0	32.9	32.7	100.6	100.3	34.0	33.7	100.9	101.5	10.1	10.5	96.2	102.0	81	80	101.2	94.2
J2	6.2	5.7	108.8	129.2	32.4	32.4	100.0	98.8	33.0	33.1	99.7	98.5	9.9	10.1	98.0	100.0	87	93	93.5	101.2
V2	5.3	5.6	94.6	110.4	32.5	33.2	97.9	99.1	33.4	34.0	98.2	99.7	9.0	9.3	96.8	90.9	86	92	93.5	100.0
W2	3.8			79.2	33.3			101.5	34.7			103.6	9.8			94.0	79			91.9
Y2		6.0				33.6			34.2					11.3			79			
A3		5.0				33.6			34.6					10.9			85			
B3	4.5	3.9	115.4	93.8	32.4	32.3	100.3	98.8	33.6	33.7	99.7	100.3	10.1	10.0	101.0	102.0	86	93	92.5	100.0
C3	5.0	4.8	104.2	104.2	32.5	32.4	100.3	99.1	33.5	33.4	100.3	100.0	11.3	10.6	106.6	114.1	94	98	95.9	109.3
D3	2.9	3.0	96.7	60.4	32.9	32.2	102.2	103.3	34.6	33.8	102.4	103.3	9.8	10.4	94.2	99.0	85	86	98.8	98.8
FKBG DATA																				
CUR.																				
AV. 4.8																				
CUM.																				
AV. 4.8																				
IND.																				
*D 100.0																				
100.0																				
100.3																				
100.0																				
98.8																				

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

TABLE V
AVERAGES OF ROUTINE MILL QUALITY CONTROL DATA FOR 33 LB FOURDRINIER KRAFT LINERBOARD
FEBRUARY, 1979

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	2.3	2.2	104.5	47.9	32.3	32.2	100.3	98.5	34.2	34.2	100.0	102.1	10.7	10.5	101.9	108.1	80	81	98.8	93.0
C1		4.9				33.2				33.4				9.6				87		
D1	5.9	6.0	98.3	122.9	32.8	32.8	100.0	100.0	33.5	33.5	100.0	100.0	9.3	9.5	97.9	93.9	82	82	100.0	95.3
F1		4.9				32.7				33.7				9.5				85		
L1	5.5	5.5	100.0	114.6	32.7	32.3	99.7	98.2	33.0	33.1	99.7	98.5	9.7	9.7	100.0	98.0	92	90	102.2	107.0
M1		4.8				32.8				33.9				11.5				77		
N1		2.9				32.0				33.7				9.5				91		
O1	4.8	4.9	98.0	100.0	33.1	33.2	99.7	100.9	33.2	33.3	99.7	99.1	9.8	10.0	98.0	99.0	88	85	103.5	102.3
P1	5.2	5.3	98.1	108.3	32.6	32.6	100.0	99.4	33.5	33.5	100.0	100.0	10.0	10.0	100.0	101.0	82	84	97.6	95.3
S1		4.8				32.5				33.6				10.0				83		
T1		5.0				32.9				33.8				10.4				84		
V1	5.4	5.8	93.1	112.5	33.4	33.7	99.1	101.8	33.7	34.0	99.1	100.6	9.6	10.4	92.3	97.0	83	90	92.2	96.5
W1	4.6	4.6	100.0	95.8	33.1	33.1	100.0	100.9	33.3	33.3	100.0	99.4	9.4	9.5	98.9	94.9	82	81	101.2	95.3
X1		5.6				32.6				33.5				10.5				94		
Y1	5.1	4.5	113.3	106.2	32.6	32.6	100.0	99.4	33.5	33.8	99.1	100.0	9.7	9.7	100.0	98.0	85	88	96.6	98.8
Z1		2.9				33.6				33.9				9.7				81		
C2	4.0	4.7	85.1	83.3	34.4	33.4	103.0	104.9	34.5	33.6	102.7	103.0	10.7	10.4	102.9	108.1	83	81	102.5	96.5
E2		6.4				33.1				33.2				9.2				89		
F2	6.3	5.7	110.5	131.2	34.1	34.0	100.3	104.0	34.6	34.7	99.7	103.3	10.3	10.2	101.0	104.0	78	80	97.5	90.7
G2	3.9	3.8	102.6	81.2	33.1	33.1	100.0	100.9	33.2	33.2	100.0	99.1	9.7	9.8	99.0	98.0	82	85	96.5	95.3
H2		5.4				32.6				33.4				9.2				81		
I2	3.1	4.0	77.5	64.6	31.5	31.8	99.0	96.0	33.1	33.2	99.7	98.8		9.0			86	93	92.5	100.0
M2	6.1	6.2	98.4	127.1	33.1	33.0	100.3	100.9	33.2	33.0	100.6	99.1	9.6	9.8	98.0	97.0	83	83	100.0	96.5
N2	4.9	4.6	106.5	102.1	33.5	32.2	104.0	102.1	34.5	33.3	103.6	103.0	10.0	9.8	102.0	101.0	95	89	106.7	110.5
O2	4.8	4.7	102.1	100.0	32.4	32.2	100.6	98.8	33.5	33.3	100.6	100.0	9.1	9.2	98.9	91.9	93	95	97.9	108.1
Q2	5.7	5.7	100.0	118.8	33.4	33.1	100.9	101.8	33.5	33.2	100.9	100.0					85	86	98.8	98.8
R2	6.4	6.1	104.9	133.3	33.0	33.1	99.7	100.6	33.1	33.2	99.7	98.8	9.4	9.4	100.0	94.9	83	84	98.8	96.5
T2	4.9	5.0	98.0	102.1	32.8	32.7	100.3	100.0	33.8	33.8	100.0	100.9	10.0	10.5	95.2	101.0	77	80	96.2	89.5
J2	6.0	5.7	105.3	125.0	32.4	32.4	100.0	98.8	33.0	33.1	99.7	98.5	9.7	10.0	97.0	98.0	84	92	91.3	97.7
Y2		5.4				32.8				33.7				9.2				89		
A2	4.0	3.8	105.3	83.3	32.8	33.1	98.5	100.0	34.1	34.7	98.3	101.8	9.3	9.8	94.9	93.9	78	79	98.7	90.7
Y2		6.1				33.6				34.2				11.5				79		
A3		5.0				33.6				34.6				10.9				85		
B3	4.0	3.9	102.6	83.3	32.0	32.2	99.4	97.6	33.3	33.5	99.4	99.4	9.6	10.0	96.0	97.0	84	92	91.3	97.7
C3	4.6	4.9	93.9	95.8	32.3	32.4	99.7	98.5	33.4	33.4	100.0	99.7	11.1	10.7	103.7	112.1	95	97	97.9	110.5
D3		3.0				32.6				34.2				10.0				87		
FKBG DATA																				
CUR.					32.8				33.6				9.8				84			
CUM.																				
AV.					32.8				33.5				9.9				86			
IND.																				
*D 102.1					100.0				100.3				99.0				97.7			

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

TABLE VI
AVERAGES OF ROUTINE MILL QUALITY CONTROL DATA FOR 33 LB FOURDRINIER KRAFT LINERBOARD
MARCH, 1979

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	2.1	2.2	95.4	43.8	32.2	32.3	99.7	98.2	34.2	34.3	99.7	102.1	10.5	10.5	100.0	106.1	84	81	103.7	97.7
C1		4.7				33.2				33.3				9.5				87		
D1	6.0	6.0	100.0	125.0	32.8	32.8	100.0	100.0	33.5	33.5	100.0	100.0	9.7	9.5	102.1	98.0	81	82	98.8	94.2
F1		4.7				32.7				33.8				9.6				84		
L1	5.6	5.5	101.8	116.7	32.3	32.3	100.0	98.5	33.1	33.1	100.0	98.8	9.8	9.8	100.0	99.0	85	91	93.4	98.8
M1		4.8				32.8				33.9				11.5				77		
N1		2.9				32.0				33.7				9.5				91		
O1	4.8	4.9	98.0	100.0	33.2	33.2	100.0	101.2	33.3	33.3	100.0	99.4	9.8	10.0	98.0	99.0	90	85	105.9	104.6
P1	5.3	5.3	100.0	110.4	32.7	32.6	100.3	99.7	33.6	33.5	100.3	100.3	10.0	10.0	100.0	101.0	86	84	102.4	100.0
S1	4.8	4.8	100.0	100.0	32.4	32.5	99.7	98.8	33.5	33.6	99.7	100.0	10.0	10.0	100.0	101.0	83	83	100.0	96.5
T1		5.0				32.9				33.8				10.4				84		
V1	5.6	5.7	98.2	116.7	33.6	33.6	100.0	102.4	33.9	33.9	100.0	101.2	9.9	10.3	96.1	100.0	94	90	104.4	109.3
W1	4.7	4.6	102.2	97.9	33.0	33.1	99.7	100.6	33.2	33.3	99.7	99.1	10.0	9.5	105.3	101.0	80	81	98.8	93.0
X1	5.1	5.6	91.1	106.2	32.4	32.6	99.4	98.8	33.3	33.5	99.4	99.4	9.6	10.5	91.4	97.0	90	94	95.7	104.6
Y1	5.1	4.5	113.3	106.2	32.5	32.7	99.4	99.1	33.4	33.8	98.8	99.7	9.5	9.7	97.9	96.0	85	88	96.6	98.8
Z1		2.9				33.7				34.0				9.7				81		
C2		4.6				33.6				33.6				10.4				81		
E2		6.4				33.1				33.2				9.2				89		
F2	6.2	5.8	106.9	129.2	34.0	34.0	100.0	103.6	34.6	34.7	99.7	103.3	10.5	10.2	102.9	106.1	78	80	97.5	90.7
G2	3.7	3.8	102.6	81.2	33.1	33.1	100.0	100.9	33.2	33.2	100.0	99.1	9.7	9.7	100.0	98.0	82	83	98.8	95.3
H2		5.4				32.6				33.4				9.2				81		
I2	4.2	3.8	110.5	87.5	31.9	31.8	100.3	97.2	33.1	33.2	99.7	98.8	10.0	9.2	108.7	101.0	85	93	91.4	98.8
M2	6.0	6.2	96.8	125.0	32.9	33.0	99.7	100.3	33.0	33.0	100.0	98.5	9.8	9.8	100.0	99.0	80	83	96.4	93.0
N2	4.9	4.7	104.2	102.1	32.1	32.3	99.4	97.9	33.1	33.4	99.1	98.8	10.0	9.8	102.0	101.0	92	90	102.2	107.0
O2	4.5	4.8	93.8	93.8	32.1	32.2	99.7	97.9	33.3	33.3	100.0	99.4	9.2	9.2	100.0	92.9	95	95	100.0	110.5
Q2	5.7	5.7	100.0	118.8	33.0	33.2	99.4	100.6	33.1	33.3	99.4	98.8					82	86	95.3	95.3
R2	6.2	6.2	100.0	129.2	33.1	33.1	100.0	100.9	33.2	33.2	100.0	99.1	9.0	9.4	95.7	90.9	83	84	98.8	96.5
T2	4.9	5.0	98.0	102.1	32.9	32.7	100.6	100.3	33.7	33.8	100.3	101.2	10.1	10.4	97.1	102.0	79	80	98.8	91.9
U2	6.4	5.8	110.3	133.3	32.5	32.4	100.3	99.1	33.0	33.1	99.7	98.5	9.7	10.0	97.0	98.0	88	91	96.7	102.3
V2	5.1	5.4	94.4	106.2	32.7	32.8	99.7	99.7	33.6	33.7	99.7	100.3	9.0	9.2	97.8	90.9	89	89	100.0	103.5
W2		3.9				33.0				34.4				9.6				78		
Y2		6.2				33.4				34.0				11.6				79		
A3		5.0				33.6				34.6				10.9				85		
B3	4.4	3.9	112.8	91.7	32.3	32.1	100.6	98.5	33.5	33.5	100.0	100.0	10.0	10.0	100.0	101.0	93	92	101.1	108.1
C3	5.0	4.8	104.2	104.2	32.5	32.4	100.3	99.1	33.5	33.4	100.3	100.0	11.1	10.8	102.8	112.1	93	97	95.9	108.1
D3		3.0				32.6				34.2				10.0				87		
H3	3.9			81.2	34.5			105.2	34.6			103.3	10.1			102.0	83			96.5
FKBG DATA																				
CUR.																				
AV.	5.0					32.8				33.5				9.9				86		
CUM.																				
AV.	4.8					32.8				33.5				9.9				86		
IND.																				
*D	104.2					100.0				100.0				100.0				100.0		

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

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

JANUARY, 1979

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
C1	5.4	5.5	98.2	105.9	38.3	38.4	99.7	101.3	38.4	38.5	99.7	99.5	10.7	10.5	101.9	97.3	96	100	96.0	99.0
D1	6.2	5.8	106.9	121.6	37.6	37.6	100.0	99.5	38.2	38.4	99.5	99.0	10.6	10.8	98.1	96.4	91	92	98.9	93.8
F1		5.1				37.5				38.6				10.7				97		
L1		5.8				37.3				38.1				11.3				98		
N1		2.9				36.4				38.3				10.6				105		
O1	5.4	5.2	103.8	105.9	38.3	38.5	99.5	101.3	38.4	38.6	99.5	99.5	11.1	11.3	98.2	100.9	93	96	96.9	95.9
R1		3.0				38.2				40.1				10.5				98		
S1	4.2	4.8	87.5	82.4	37.4	37.3	100.3	98.9	38.9	38.5	101.0	100.8	11.4	11.3	100.9	103.6	91	93	97.8	93.8
T1		5.1				37.8				39.0				11.6				96		
V1	5.5	5.7	96.5	107.8	38.4	38.7	99.2	101.6	38.7	39.1	99.0	100.2	11.8	10.9	108.2	107.3	94	98	95.9	96.9
W1	4.7	5.0	94.0	92.2	38.4	38.1	100.8	101.6	38.6	38.3	100.8	100.0	11.1	10.8	102.8	100.9	94	95	98.9	96.9
X1	5.3	6.0	88.3	103.9	37.9	37.6	100.8	100.3	38.9	38.3	101.6	100.8	11.4	11.7	97.4	103.6	111	98	113.3	114.4
Y1	5.5	5.0	110.0	107.8	38.2	37.6	101.6	101.0	39.2	38.8	101.0	101.6	11.4	11.2	101.8	103.6	97	100	97.0	100.0
B2	6.3	5.7	110.5	123.5	38.9	37.7	103.2	102.9	39.5	38.6	102.3	102.3	11.7	11.5	101.7	106.4	94	94	100.0	96.9
C2	5.2	5.5	94.5	102.0	37.8	38.4	98.4	100.0	37.9	38.5	98.4	98.2	10.9	11.2	97.3	99.1	96	95	101.0	99.0
G2	5.4	4.5	120.0	105.9	38.0	38.0	100.0	100.5	38.1	38.2	99.7	98.7	11.2	11.0	101.8	101.8	105	102	102.9	108.2
I2		4.4				36.9				38.2								106		
K2		5.2				37.5				38.6				11.0				103		
L2		5.5				38.2				38.3				11.8				102		
M2	6.4	6.6	97.0	125.5	37.9	37.9	100.0	100.3	38.0	38.0	100.0	98.4	10.8	10.6	101.9	98.2	96	91	105.5	99.0
N2	5.2	4.6	113.0	102.0	37.5	37.0	101.4	99.2	38.6	38.3	100.8	100.0	11.5	11.1	103.6	104.5	97	99	98.0	100.0
O2	5.0	5.0	100.0	98.0	37.2	37.2	100.0	98.4	38.3	38.3	100.0	99.2	10.4	10.4	100.0	94.5	103	103	100.0	106.2
Q2	5.7	5.7	100.0	111.8	38.2	38.2	100.0	101.0	38.3	38.4	99.7	99.2					93	94	98.9	95.9
T2		4.9				37.6				38.8				11.5				90		
W2	5.0	4.1	122.0	98.0	37.3	37.8	98.7	98.7	38.4	39.3	97.7	99.5	10.1	10.1	100.0	91.8	88	91	96.7	90.7
R3	4.9	4.0	122.5	96.1	37.2	37.1	100.3	98.4	38.4	38.5	99.5	99.5	10.9	10.7	101.9	99.1	97	103	94.2	100.0
C3	5.6	5.8	96.6	109.8	37.2	37.7	98.7	98.4	38.1	38.6	98.7	98.7	11.4	11.1	102.7	103.6	108	110	98.2	111.3
F3	5.1	4.9	104.1	100.0	38.4	38.7	99.2	101.6	38.5	38.8	99.2	99.7	9.9	10.9	90.8	90.0	99	99	100.0	102.1
FKBG DATA																				
CUR.																				
AV. 5.4																				
CUM.																				
AV. 5.1																				
IND.																				
*D 105.9																				
100.3																				
99.7																				
100.0																				
100.0																				

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

TABLE VIII
AVERAGES OF ROUTINE MILL QUALITY CONTROL DATA FOR 38 LB FOURDRINIER KRAFT LINERBOARD
FEBRUARY, 1979

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
C1	5.7	5.5	103.6	109.6	38.3	38.4	99.7	101.3	38.4	38.5	99.7	99.5	10.5	10.6	99.0	95.4	93	99	93.9	94.9
O1	5.9	5.8	101.7	113.5	37.5	37.6	99.7	99.2	38.3	38.4	99.7	99.2	10.4	10.8	96.3	94.5	92	92	100.0	93.9
F1	4.9	5.1	96.1	94.2	37.3	37.5	99.5	98.7	38.5	38.6	99.7	99.7	11.5	10.7	107.5	104.5	99	97	102.1	101.0
L1	6.0	5.8	103.4	115.4	37.6	37.3	100.8	99.5	38.4	38.1	100.8	99.5	11.0	11.3	97.3	100.0	103	98	105.1	105.1
N1		2.9				36.3				38.2				10.7				106		
O1		5.2				38.4				38.5				11.3				96		
R1		3.0				38.2				40.2				10.5				98		
S1	5.0	4.8	104.2	96.2	37.4	37.3	100.3	98.9	38.5	38.5	100.0	99.7	11.6	11.3	102.6	105.4	94	92	102.2	95.9
T1	5.3	5.1	103.9	101.9	38.1	37.8	100.8	100.8	39.1	39.0	100.2	101.3	11.6	11.6	100.0	105.4	93	96	96.9	94.9
V1	5.4	5.6	96.4	103.8	38.4	38.7	99.2	101.6	38.7	39.0	99.2	100.2	10.8	11.0	98.2	98.2	96	97	99.0	98.0
W1	5.0	4.9	102.0	96.2	38.1	38.1	100.0	100.8	38.3	38.3	100.0	99.2	10.9	10.8	100.9	99.1	94	94	100.0	95.9
X1		6.0				37.8				38.6				11.8				102		
Y1	5.5	5.0	110.0	105.8	37.9	37.6	100.8	100.3	38.8	38.8	100.0	100.5	11.2	11.2	100.0	101.8	98	100	98.0	100.0
B2	6.7	5.8	115.5	128.8	38.7	37.8	102.4	102.4	39.2	38.6	101.6	101.6	12.0	11.5	104.3	109.1	92	94	97.9	93.9
C2	4.2	5.4	77.8	80.8	38.9	38.4	101.3	102.9	39.0	38.5	101.3	101.0	11.2	11.2	100.0	101.8	98	95	103.2	100.0
G2	5.4	4.6	117.4	103.8	38.0	38.0	100.0	100.5	38.1	38.1	100.0	98.7	11.2	11.1	100.9	101.8	105	102	102.9	107.1
I2		4.4				36.9				38.2								106		
K2		5.2				37.5				38.6				11.1				103		
L2		5.5				38.2				38.3				11.6				102		
M2	6.8	6.5	104.6	130.8	37.9	37.9	100.0	100.3	38.0	38.0	100.0	98.4	10.9	10.6	102.8	99.1	91	92	98.9	92.8
N2	5.0	4.7	106.4	96.2	38.3	37.1	103.2	101.3	39.4	38.3	102.9	102.1	11.2	11.1	100.9	101.8	103	99	104.0	105.1
O2	5.0	5.0	100.0	96.2	37.0	37.2	99.5	97.9	38.1	38.2	99.7	98.7	10.7	10.4	102.9	97.3	105	103	101.9	107.1
Q2	5.7	5.7	100.0	109.6	38.1	38.2	99.7	100.8	38.2	38.4	99.5	99.0					93	93	100.0	94.9
T2	4.7	4.9	95.9	90.4	37.7	37.6	100.3	99.7	39.0	38.8	100.5	101.0	11.5	11.4	100.9	104.5	90	90	100.0	91.8
W2	4.8	4.1	117.1	92.3	37.6	37.8	99.5	99.5	38.8	39.3	98.7	100.5	10.4	10.1	103.0	94.5	85	90	94.4	86.7
B3	4.7	4.1	114.6	90.4	37.2	37.0	100.5	98.4	38.5	38.5	100.0	99.7	10.6	10.7	99.1	96.4	97	102	95.1	99.0
C3	5.5	5.8	94.8	105.8	37.6	37.6	100.0	99.5	38.5	38.5	100.0	99.7	11.2	11.2	100.0	101.8	107	110	97.3	109.2
F3		4.9				38.6				38.7				10.8				100		
FKBG DATA																				
CUR.																				
AV. 5.4																				
CUM.																				
AV. 5.2																				
IND.																				
*D 103.8																				
100.3																				
100.0																				
100.9																				
98.0																				

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

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

MARCH, 1979																				
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
C1		5.5				38.4				38.6				10.6				98		
D1	6.0	5.9	101.7	115.4	37.6	37.6	100.0	99.5	38.4	38.4	100.0	99.5	10.7	10.7	100.0	97.3	91	92	98.9	93.8
F1	4.8	5.1	94.1	92.3	37.6	37.5	100.3	99.5	38.8	38.6	100.5	100.5	10.4	10.8	96.3	94.5	91	97	93.8	93.8
L1	6.0	5.9	101.7	115.4	37.4	37.3	100.3	98.9	38.1	38.1	100.0	98.7	10.9	11.2	97.3	99.1	99	100	99.0	102.1
N1		2.9				36.3				38.2				10.7				106		
O1	5.2	5.2	100.0	100.0	38.3	38.3	100.0	101.3	38.4	38.4	100.0	99.5	11.1	11.2	99.1	100.9	97	96	101.0	100.0
R1		3.0				38.2				40.2				10.5				99		
S1	4.8	4.8	100.0	92.3	37.3	37.3	100.0	98.7	38.5	38.5	100.0	99.7	11.4	11.3	100.9	103.6	95	93	102.2	97.9
T1	5.2	5.1	102.0	100.0	38.0	37.9	100.3	100.5	39.1	39.0	100.2	101.3	11.9	11.6	102.6	108.2	99	95	104.2	102.1
V1		5.6				38.7				39.0				11.0				97		
W1	5.0	4.9	102.0	96.2	38.3	38.1	100.5	101.3	38.5	38.3	100.5	99.7	11.1	10.9	101.8	100.9	94	94	100.0	96.9
X1		6.0				37.8				38.6				11.8				102		
Y1	5.3	5.0	106.0	101.9	37.5	37.7	99.5	99.2	38.5	38.8	99.2	99.7	11.2	11.2	100.0	101.8	96	99	97.0	99.0
B2	6.6	5.8	113.8	126.9	38.8	37.9	102.4	102.6	39.3	38.7	101.6	101.8	12.4	11.6	106.9	112.7	92	94	97.9	94.8
C2	4.2	5.4	77.8	80.8	39.4	38.4	102.6	104.2	39.5	38.5	102.6	102.3	11.2	11.2	100.0	101.8	99	95	104.2	102.1
G2	5.4	4.9	110.2	103.8	38.0	38.0	100.0	100.5	38.1	38.1	100.0	98.7	11.2	11.1	100.9	101.8	105	102	102.9	108.2
I2		4.4				36.9				38.2				0.0				106		
K2		5.2				37.5				38.5				11.2				102		
L2		5.5				38.2				38.3				11.3				104		
M2	6.3	6.5	96.9	121.2	37.9	37.9	100.0	100.3	38.0	38.0	100.0	98.4	10.8	10.6	101.9	98.2	92	92	100.0	94.8
N2	4.7	4.8	97.9	90.4	37.0	37.2	99.5	97.9	38.3	38.4	99.7	99.2	11.2	11.2	100.0	101.8	98	99	99.0	101.0
O2	4.9	5.0	98.0	94.2	37.0	37.1	99.7	97.9	38.1	38.2	99.7	98.7	10.6	10.4	101.9	96.4	99	103	96.1	102.1
Q2	5.7	5.7	100.0	109.6	38.0	38.2	99.5	100.5	38.1	38.4	99.2	98.7		0.0			92	93	98.9	94.8
T2	4.9	4.9	100.0	94.2	37.8	37.6	100.5	100.0	39.0	38.8	100.5	101.0	11.7	11.5	101.7	106.4	88	90	97.8	90.7
W2	5.2	4.2	123.8	100.0	37.9	37.7	100.5	100.3	39.0	39.2	99.5	101.0	10.2	10.2	100.0	92.7	87	90	96.7	89.7
B3	4.8	4.2	114.3	92.3	37.2	37.0	100.5	98.4	38.4	38.5	99.7	99.5	10.7	10.8	99.1	97.3	106	102	103.9	109.3
C3	5.9	5.8	101.7	113.5	37.8	37.6	100.5	100.0	38.6	38.5	100.2	100.0	11.4	11.2	101.8	103.6	98	110	89.1	101.0
F3	4.7	4.9	95.9	90.4	38.1	38.5	99.0	100.8	38.2	38.6	99.0	99.0	10.1	10.7	94.4	91.8	97	100	97.0	100.0
FKBG DATA																				
CUR.																				
AV. 5.3																				
CUM.																				
AV. 5.2																				
IND.																				
*D 101.9																				
100.0																				
99.7																				
100.9																				
99.0																				

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

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

JANUARY, 1979																				
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			
	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	5.6	5.5	101.8	105.7	41.5	41.5	100.0	99.8	42.5	42.5	100.0	100.2	12.5	13.1	95.4	104.2	102	102	100.0	97.
B1	5.6	5.8	96.6	105.7	42.4	42.6	99.5	101.9	42.8	43.0	99.5	100.9	12.5	12.6	99.2	104.2	109	104	104.8	103.8
C1	5.9	5.9	100.0	111.3	42.2	42.1	100.2	101.4	42.3	42.2	100.2	99.8	11.9	12.0	99.2	99.2	103	106	97.2	98.1
F1	5.3	5.4	98.1	100.0	41.3	41.2	100.2	99.3	42.4	42.2	100.5	100.0	11.3	11.7	96.6	94.2	103	102	101.0	98.1
I1	6.2	5.4	114.8	117.0	42.0	41.8	100.5	101.0	42.7	42.9	99.5	100.7	12.3	12.2	100.8	102.5	99	100	99.0	94.3
J1	6.0	6.2	96.8	113.2	42.7	41.8	102.2	102.5	43.6	42.5	102.6	102.8	12.3	11.9	103.4	102.5	108	108	100.0	102.8
K1		6.5				41.2				41.8				11.2				107		
L1	6.1	5.7	107.0	115.1	41.3	41.3	100.0	99.3	42.0	42.2	99.5	99.0	12.3	12.0	102.5	102.5	108	109	99.1	102.8
N1		4.0				41.1				42.8				11.6				115		
O1	5.3	5.2	101.9	100.0	42.2	42.2	100.0	101.4	42.3	42.3	100.0	99.8	12.4	12.4	100.0	103.3	103	105	98.1	98.1
P1	6.0	5.5	109.1	113.2	41.6	41.4	100.5	100.0	42.4	42.5	99.8	100.0	12.2	12.4	98.4	101.7	102	104	98.1	97.1
Q1		5.2				41.2				42.4				12.3				114		
R1	5.4	3.7	145.9	101.9	41.5	40.8	101.7	99.8	42.6	42.6	100.0	100.5	11.1	11.1	100.0	92.5	103	103	100.0	98.1
S1	4.8	5.0	96.0	90.6	41.2	41.2	100.0	99.0	42.6	42.4	100.5	100.5	12.6	12.4	101.6	105.0	98	101	97.0	93.3
V1	5.8	5.8	100.0	109.4	42.4	42.6	99.5	101.9	42.8	43.0	99.5	100.9	12.1	12.0	100.8	100.8	106	108	98.1	101.0
W1	4.9	5.2	94.2	92.4	42.0	42.2	99.5	101.0	42.2	42.4	99.5	99.5	12.1	11.9	101.7	100.8	104	106	98.1	99.0
X1	5.8	5.8	100.0	109.4	41.0	41.3	99.3	98.6	41.9	42.2	99.3	98.8	13.1	12.6	104.0	109.2	112	111	100.9	106.7
Y1	5.2	5.3	98.1	98.1	41.7	41.5	100.5	100.2	42.9	42.6	100.7	101.2	12.4	12.2	101.6	103.3	105	108	97.2	100.0
Z1		3.6				42.4				42.8				12.5				100		
A2	5.1	5.3	96.2	96.2	42.5	42.3	100.5	102.2	42.6	42.4	100.5	100.5	11.4	11.3	100.9	95.0	104	104	100.0	99.0
B2	6.4	5.7	112.3	120.8	42.0	41.4	101.4	101.0	42.6	42.4	100.5	100.5	12.5	12.7	98.4	104.2	102	103	99.0	97.1
C2	5.3	5.7	93.0	100.0	42.1	42.2	99.8	101.2	42.2	42.3	99.8	99.5	12.3	12.2	100.8	102.5	106	103	102.9	101.0
D2		5.4				41.6				42.1				11.3				104		
G2	5.6	4.9	114.3	105.7	42.2	42.2	100.0	101.4	42.3	42.3	100.0	99.8	12.4	12.6	98.4	103.3	109	107	101.9	103.8
I2	4.4	5.3	83.0	83.0	40.7	41.1	99.0	97.8	42.2	42.2	100.0	99.5		11.5			108	106	101.9	102.8
K2	5.8	5.3	109.4	109.4	41.5	41.4	100.2	99.8	42.4	42.6	99.5	100.0	12.1	12.3	98.4	100.8	114	110	103.6	108.6
L2	5.4	5.5	98.2	101.9	42.0	42.1	99.8	101.0	42.1	42.2	99.8	99.3	12.8	12.5	102.4	106.7	108	106	101.9	102.8
M2	6.7	6.7	100.0	126.4	41.8	41.9	99.8	100.5	41.9	42.0	99.8	98.8	12.1	11.9	101.7	100.8	102	102	100.0	97.1
N2	5.5	4.9	112.2	103.8	41.3	41.2	100.2	99.3	42.3	42.4	99.8	99.8	12.4	12.2	101.6	103.3	104	106	98.1	99.0
O2	5.0	5.0	100.0	94.3	41.0	41.1	99.8	98.6	42.2	42.3	99.8	99.5	11.7	11.5	101.7	97.5	106	110	96.4	101.0
P2	6.0	5.5	109.1	113.2	41.6	41.5	100.2	100.0	42.4	42.5	99.8	100.0	12.6	12.0	105.0	105.0	103	103	100.0	98.1
Q2	5.7	5.7	100.0	107.5	42.1	42.0	100.2	101.2	42.2	42.2	100.0	99.5					102	102	100.0	97.1
R2	6.4	6.1	104.9	120.8	41.8	42.0	99.5	100.5	41.9	42.1	99.5	98.8	11.5	11.6	99.1	95.8	102	102	100.0	97.1
S2	4.1	4.4	93.2	77.4	42.2	42.1	100.2	101.4	42.4	42.3	100.2	100.0	11.9	11.8	100.8	99.2	105	108	97.2	100.0
T2	4.8	5.0	96.0	90.6	41.7	41.5	100.5	100.2	43.1	42.7	100.9	101.6	12.5	12.7	98.4	104.2	97	99	98.0	92.4
U2	6.5	6.1	106.6	122.6	41.5	41.3	100.5	99.8	42.1	42.1	100.0	99.3	12.2	12.4	98.4	101.7	105	107	98.1	100.0
V2	5.6	5.6	100.0	105.7	41.4	41.5	99.8	99.5	42.4	42.5	99.8	100.0	11.8	11.9	99.2	98.3	102	101	101.0	97.1
W2	5.6	5.1	109.8	105.7	41.1	41.4	99.3	98.8	42.1	42.7	98.6	99.3	11.3	11.2	100.9	94.2	99	100	99.0	94.3
X2	5.1	5.3	96.2	96.2	41.6	41.7	99.8	100.0	42.8	42.8	100.0	100.9	11.7	11.4	102.6	97.5	105	106	99.0	100.0
Y2		6.1				43.1				43.8				14.0				98		
Z2	7.1	7.2	98.6	134.0	42.0	41.9	100.2	101.0	42.1	42.0	100.2	99.3	11.4	11.8	96.6	95.0	106	100	106.0	101.0
A3	5.0	5.0	100.0	94.3	41.9	42.0	99.8	100.7	43.2	43.3	99.8	101.9	12.3	12.9	95.3	102.5	96	98	98.0	91.4
B3	5.6	4.6	121.7	105.7	41.5	41.2	100.7	99.8	42.5	42.6	99.8	100.2	12.5	12.0	104.2	104.2	106	111	95.5	101.0
C3	6.7	6.7	100.0	126.4	41.7	41.8	99.8	100.2	42.2	42.3	99.8	99.5	12.6	12.4	101.6	105.0	117	117	100.0	111.4
O3	5.5	5.8	94.8	103.8	41.5	41.6	99.8	99.8	42.5	42.5	100.0	100.2	11.2	12.3	91.0	93.3	103	104	99.0	98.1
E3	5.8	5.1	113.7	109.4	41.3	41.0	100.7	99.3	42.2	42.2	100.0	99.5	11.4	11.2	101.8	95.0	103	104	99.0	98.1
F3	5.1	5.0	102.0	96.2	42.3	42.1	100.5	101.7	42.4	42.2	100.5	100.0	11.5	11.8	97.4	95.8	104	106	98.1	99.0
G3		3.5				41.3				43.2				12.4				108		

FKBG DATA

CUR.																				
AV.	5.6				41.7				42.4				12.1				104			
CUM.																				
AV.	5.3				41.6				42.4				12.0				105			
IND.																				
*D 105.7					100.2				100.0				100.8				99.0			

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

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

FEBRUARY, 1979

CODE	MOISTURE CONTENT, PERCENT				BASIS WT., LB / M SQ FT.				ADJ. BASIS WT.,*A LB / M SQ FT				CALIPER, PT				BURSTING STRENGTH, P S I G			
	MACHINE DATA				MACHINE DATA				MACHINE DATA				MACHINE DATA				MACHINE DATA			
	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C
A1	5.8	5.6	103.6	107.4	41.5	41.5	100.0	99.8	42.4	42.5	99.8	100.0	13.0	13.0	100.0	108.3	101	102	99.0	96.2
B1		5.6					42.4			42.8					12.5			109		
C1	6.1	5.9	103.4	113.0	42.1	42.1	100.0	101.2	42.2	42.2	100.0	99.5	11.9	12.0	99.2	99.2	102	106	96.2	97.1
F1	5.3	5.5	96.4	98.1	41.1	41.2	99.8	98.8	42.2	42.2	100.0	99.5	11.5	11.7	98.3	95.8	105	102	102.9	100.0
I1	6.5	5.5	118.2	120.4	42.6	41.8	101.9	102.4	43.2	42.9	100.7	101.9	12.5	12.2	102.4	104.2	99	100	99.0	94.3
J1		6.2					42.0			42.7					11.9			108		
K1	6.2	6.5	95.4	114.8	41.1	41.2	99.8	98.8	41.3	41.8	100.0	98.6	12.7	11.2	113.4	105.8	111	107	103.7	105.7
L1	6.1	5.8	105.2	113.0	41.1	41.3	99.5	98.8	41.8	42.2	99.0	98.6	12.2	12.1	100.8	101.7	109	108	100.9	103.8
N1		4.1					41.2			42.8					11.5			116		
O1	5.3	5.2	101.9	98.1	42.1	42.2	99.8	101.2	42.2	42.3	99.8	99.5	12.2	12.4	98.4	101.7	103	104	99.0	98.1
P1	6.2	5.7	108.8	114.8	41.6	41.5	100.2	100.0	42.3	42.5	99.5	99.8	12.4	12.3	100.8	103.3	103	103	100.0	98.1
Q1	4.9	5.2	94.2	90.7	41.3	41.2	100.2	99.3	42.6	42.4	100.5	100.5	11.8	12.3	95.9	98.3	118	114	103.5	112.4
R1	5.7	3.9	146.2	105.6	41.5	40.9	101.5	99.8	42.5	42.6	99.8	100.2	11.1	11.1	100.0	92.5	103	103	100.0	98.1
S1	4.9	5.0	98.0	90.7	41.1	41.2	99.8	98.8	42.4	42.4	100.0	100.0	12.5	12.4	100.8	104.2	102	101	101.0	97.1
V1	5.6	5.8	96.6	103.7	42.4	42.6	99.5	101.9	42.8	43.0	99.5	100.9	11.8	12.0	98.3	98.3	106	108	98.1	101.0
W1	4.9	5.2	94.2	90.7	42.0	42.2	99.5	101.0	42.2	42.4	99.5	99.5	12.3	11.9	103.4	102.5	105	106	99.0	100.0
X1	5.8	6.0	96.7	107.4	41.3	41.3	100.0	99.3	42.2	42.1	100.2	99.5	12.9	12.7	101.6	107.5	108	111	97.3	102.8
Y1	4.9	5.3	92.4	90.7	41.5	41.5	100.0	99.8	42.8	42.6	100.5	100.9	12.1	12.2	99.2	100.8	107	108	99.1	101.9
Z1		3.5					42.4			42.8					12.6			100		
A2	5.1	5.3	96.2	94.4	42.2	42.4	99.5	101.4	42.3	42.4	99.8	99.8	11.5	11.3	101.8	95.8	107	104	102.9	101.9
B2	6.7	5.8	115.5	124.1	42.0	41.5	101.2	101.0	42.5	42.4	100.2	100.2	12.7	12.7	100.0	105.8	101	102	99.0	96.2
C2	4.6	5.7	80.7	85.2	42.6	42.2	100.9	102.4	42.7	42.3	100.9	100.7	11.9	12.2	97.5	99.2	106	104	101.9	101.0
D2	5.9	5.5	107.3	109.2	42.4	41.7	101.7	101.9	42.4	42.0	101.0	100.0	12.2	11.4	107.0	101.7	97	104	93.3	92.4
G2	5.6	5.0	112.0	103.7	42.2	42.2	100.0	101.4	42.3	42.3	100.0	99.8	12.4	12.6	98.4	103.3	109	107	101.9	103.8
I2	4.3	5.2	82.7	79.6	40.7	41.0	99.3	97.8	42.2	42.2	100.0	99.5		11.6			101	106	95.3	96.2
K2	5.9	5.4	109.2	109.2	41.6	41.5	100.2	100.0	42.5	42.6	99.8	100.2	12.1	12.3	98.4	100.8	112	110	101.8	106.7
L2	5.2	5.5	94.5	96.3	41.9	42.1	99.5	100.7	42.0	42.2	99.5	99.0	12.4	12.4	100.0	103.3	107	107	100.0	101.9
M2	6.6	6.7	98.5	122.2	41.9	41.9	100.0	100.7	42.0	42.0	100.0	99.0	12.1	11.9	101.7	100.8	102	102	100.0	97.1
N2	4.9	5.0	98.0	90.7	41.5	41.2	100.7	99.8	42.8	42.4	100.9	99.0	12.5	12.3	101.6	104.2	107	106	100.9	101.9
O2	5.1	5.0	102.0	94.4	41.0	41.1	99.8	98.6	42.2	42.3	99.8	99.5	11.6	11.6	100.0	96.7	109	110	99.1	103.8
P2	5.6	5.6	100.0	103.7	41.6	41.5	100.2	100.0	42.6	42.5	100.2	100.5	12.0	12.1	99.2	100.0	102	103	99.0	97.1
Q2	5.8	5.7	101.8	107.4	42.0	42.0	100.0	101.0	42.1	42.2	99.8	99.3					103	102	101.0	98.1
R2	6.6	6.2	106.4	122.2	41.9	41.9	100.0	100.7	42.0	42.0	100.0	99.0	12.0	11.6	103.4	100.0	103	102	101.0	98.1
S2	3.8	4.4	86.4	70.4	42.1	42.1	100.0	101.2	42.3	42.3	100.0	99.8	12.0	11.8	101.7	100.0	105	108	97.2	100.0
T2	5.0	5.0	100.0	92.6	41.9	41.5	101.0	100.7	43.2	42.7	101.2	101.9	12.5	12.7	98.4	104.2	97	98	99.0	92.4
J2	6.5	6.2	104.8	120.4	41.4	41.4	100.0	99.5	42.0	42.1	99.8	99.0	12.4	12.4	100.0	103.3	100	106	94.3	95.2
V2	6.1	5.6	108.9	113.0	41.5	41.5	100.0	99.8	42.2	42.5	99.3	99.5	11.9	11.9	100.0	99.2	103	101	102.0	98.1
W2	5.6	5.1	109.8	103.7	41.3	41.4	99.8	99.3	42.3	42.6	99.3	99.8	11.3	11.2	100.9	94.2	97	100	97.0	92.4
X2	5.1	5.3	96.2	94.4	41.8	41.7	100.2	100.5	43.0	42.8	100.5	101.4	11.6	11.4	101.8	96.7	105	106	99.0	100.0
Y2		6.2					43.0			43.7					14.1			98		
Z2	7.1	7.2	98.6	131.5	42.0	42.0	100.0	101.0	42.1	42.0	100.2	99.3	11.7	11.8	99.2	97.5	103	101	102.0	98.1
A3	5.0	5.0	100.0	92.6	41.9	42.0	99.8	100.7	43.2	43.3	99.8	101.9	12.5	12.8	97.6	104.2	97	98	99.0	92.4
B3	4.5	4.6	97.8	83.3	41.2	41.2	100.0	99.0	42.7	42.6	100.2	100.7	12.3	12.1	101.6	102.5	108	110	98.2	102.8
C3	6.3	6.7	94.0	116.7	41.7	41.8	99.8	100.2	42.4	42.3	100.2	100.0	12.8	12.4	103.2	106.7	112	117	95.7	106.7
D3	6.3	5.8	108.6	116.7	41.8	41.6	100.5	100.5	42.5	42.5	100.0	100.2	12.0	12.2	98.4	100.0	104	104	100.0	99.0
E3	5.9	5.3	111.3	109.2	41.3	41.0	100.7	99.3	42.2	42.2	100.0	99.5	11.8	11.2	105.4	98.3	103	104	99.6	98.1
F3	5.0	5.0	100.0	92.6	42.0	42.1	99.8	101.0	42.1	42.2	99.8	99.3	11.1	11.8	94.1	92.5	107	106	100.9	101.9
G3		3.5					41.3			43.2					12.4			107		

FKBG DATA

CUR.																				
AV.	5.6				41.7				42.4				12.1				104			
CUM.																				
AV.	5.4				41.6				42.4				12.0				105			
IND.																				
*D	103.7				100.2				100.0				100.8				99.0			

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

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

CODE	MOISTURE CONTENT, PERCENT				BASIS WT., LB / M SQ FT				ADJ. BASIS WT.,*A LB / M SQ FT				CALIPER, PT				BURSTING STRENGTH, P S I G			
	MACHINE DATA				MACHINE DATA				MACHINE DATA				MACHINE DATA				MACHINE DATA			
	CUR.	CUM.	FACT.	IND.	CUR.	CUM.	FACT.	IND.	CUR.	CUM.	FACT.	IND.	CUR.	CUM.	FACT.	IND.	CUR.	CUM.	FACT.	IND.
	AV.	AV.	*B	*C	AV.	AV.	*B	*C	AV.	AV.	*B	*C	AV.	AV.	*B	*C	AV.	AV.	*B	*C
A1	5.7	5.6	101.8	105.6	41.5	41.5	100.0	99.5	42.5	42.5	100.0	100.2	13.0	13.0	100.0	108.3	102	102	100.0	97.1
B1	4.7	5.6	83.9	87.0	42.9	42.4	101.2	102.9	43.3	42.8	101.2	102.1	12.4	12.5	99.2	103.3	109	109	100.0	103.8
C1	6.1	6.0	101.7	113.0	42.1	42.1	100.0	101.0	42.2	42.2	100.0	99.5	11.8	12.0	98.3	98.3	102	106	96.2	97.1
F1	5.0	5.5	90.9	92.6	41.2	41.2	100.0	98.8	42.4	42.2	100.5	100.0	11.6	11.7	99.1	96.7	105	103	101.9	100.0
I1	6.5	5.7	114.0	120.4	42.7	41.9	101.9	102.4	43.3	42.9	100.9	102.1	12.5	12.2	102.4	104.2	99	100	99.0	94.3
J1	6.2	6.2	100.0	116.7	41.2	41.7	100.0	98.8	41.9	41.8	100.2	98.8	12.2	11.6	105.2	101.7	111	107	103.7	105.7
K1	6.3	5.8	108.6	116.7	41.1	41.2	99.8	98.6	41.8	42.1	99.3	98.6	12.1	12.1	100.0	100.8	109	109	98.2	101.9
L1	4.1	4.1	101.9	98.1	42.1	42.2	99.8	101.0	42.2	42.3	99.8	99.5	12.3	12.4	99.2	102.5	105	104	101.0	100.0
N1	5.3	5.2	101.9	98.1	42.1	42.2	99.8	101.0	42.2	42.3	99.8	99.5	12.3	12.4	99.2	102.5	105	104	101.0	100.0
O1	6.1	5.8	105.2	113.0	41.8	41.5	100.7	100.2	42.6	42.4	100.5	100.5	12.2	12.3	99.2	101.7	103	103	100.0	98.1
Q1	5.1	5.1	100.0	100.0	41.4	40.9	101.2	99.3	42.5	42.6	99.8	100.2	10.9	11.1	98.2	90.8	104	103	101.0	99.0
R1	5.4	4.0	135.0	100.0	41.4	40.9	101.2	99.3	42.5	42.6	99.8	100.2	10.9	11.1	98.2	90.8	104	103	101.0	99.0
S1	4.9	5.0	98.0	90.7	41.1	41.2	99.8	98.6	42.4	42.4	100.0	100.0	12.5	12.4	100.8	104.2	102	101	101.0	97.1
V1	5.6	5.8	96.6	103.7	42.4	42.5	99.8	101.7	42.8	42.9	99.8	100.9	11.9	12.0	99.2	99.2	111	108	102.8	105.7
W1	4.8	5.2	92.3	88.9	42.0	42.2	99.5	100.7	42.2	42.4	99.5	99.5	12.0	12.0	100.0	100.0	106	106	100.0	101.0
X1	5.1	6.0	85.0	94.4	41.4	41.3	100.2	99.3	42.6	42.1	101.2	100.5	12.5	12.7	98.4	104.2	112	111	100.9	106.7
Y1	5.0	5.2	96.2	92.6	41.8	41.5	100.7	100.2	43.1	42.7	100.9	101.6	12.1	12.2	99.2	100.8	104	108	96.3	99.0
Z1	3.4	3.6	94.4	63.0	43.0	42.4	101.4	103.1	43.4	42.8	101.4	102.4	12.8	12.6	101.6	106.7	101	100	101.0	96.2
A2	5.2	5.3	98.1	96.3	42.3	42.4	99.8	101.4	42.4	42.5	99.8	100.0	11.4	11.4	100.0	95.0	102	104	98.1	97.1
B2	6.7	5.9	113.6	124.1	42.0	41.5	101.2	100.7	42.5	42.4	100.2	100.2	13.0	12.7	102.4	108.3	102	102	100.0	97.1
C2	4.8	5.6	85.7	88.9	42.4	42.2	100.5	101.7	42.5	42.3	100.5	100.2	12.2	12.2	100.0	101.7	105	104	101.0	100.0
D2	6.3	5.5	114.5	116.7	41.7	41.9	99.5	100.0	41.7	42.0	99.3	98.3	12.4	11.5	107.8	103.3	100	103	97.1	95.2
G2	5.6	5.2	107.7	103.7	42.2	42.2	100.0	101.2	42.3	42.3	100.0	99.8	12.4	12.5	99.2	103.3	109	107	101.9	103.8
I2	5.0	5.1	98.0	92.6	40.9	41.0	99.8	98.1	42.1	42.2	99.8	99.3	12.2	11.7	104.3	101.7	102	106	96.2	97.1
K2	6.0	5.5	109.1	111.1	41.7	41.5	100.5	100.0	42.5	42.5	100.0	100.2	12.2	12.4	98.4	101.7	112	111	100.9	106.7
L2	5.3	5.4	98.1	98.1	41.9	42.1	99.5	100.5	42.0	42.2	99.5	99.0	12.5	12.4	100.8	104.2	103	107	96.3	98.1
M2	6.1	6.7	91.0	113.0	41.9	41.9	100.0	100.5	42.0	42.0	100.0	99.0	12.3	11.9	103.4	102.5	103	102	101.0	98.1
N2	5.0	5.1	98.0	92.6	41.1	41.2	99.8	98.6	42.3	42.4	99.8	99.8	12.3	12.3	100.0	102.5	106	106	100.0	101.0
O2	4.7	5.0	94.0	87.0	41.1	41.0	100.2	98.6	42.5	42.3	100.5	100.2	11.5	11.6	99.1	95.8	109	110	99.1	103.8
P2	5.4	5.6	96.4	100.0	41.6	41.6	100.0	99.8	42.7	42.6	100.2	100.7	12.7	12.1	105.0	105.8	101	103	98.0	96.2
Q2	5.7	5.7	100.0	105.6	42.0	42.0	100.0	100.7	42.1	42.2	99.8	99.3	12.2	12.2	100.0	101.7	102	102	100.0	97.1
R2	6.2	6.3	98.4	114.8	41.9	41.9	100.0	100.5	42.0	42.0	100.0	99.0	11.4	11.7	97.4	95.0	100	102	98.0	95.2
S2	4.4	4.3	102.3	81.5	42.2	42.1	100.2	101.2	42.4	42.3	100.2	100.0	12.2	11.8	103.4	101.7	104	107	97.2	99.0
T2	4.9	5.0	98.0	90.7	41.7	41.5	100.5	100.0	43.0	42.8	100.5	101.4	12.7	12.6	100.8	105.8	96	98	98.0	91.4
U2	6.6	6.2	106.4	122.2	41.5	41.4	100.2	99.5	42.0	42.1	99.8	99.0	12.0	12.4	96.8	100.0	103	106	97.2	98.1
V2	6.0	5.8	103.4	111.1	41.5	41.5	100.0	99.5	42.3	42.4	99.8	99.8	11.8	11.9	99.2	98.3	102	102	100.0	97.1
W2	5.6	5.1	109.8	103.7	41.5	41.4	100.2	99.5	42.5	42.6	99.8	100.2	11.3	11.2	100.9	94.2	98	100	98.0	93.3
X2	4.9	5.2	94.2	90.7	41.5	41.7	99.5	99.5	42.8	42.8	100.0	100.9	11.3	11.5	98.3	94.2	104	106	98.1	99.0
Y2	6.2	6.2	100.0	111.1	41.7	41.7	100.0	99.5	42.5	42.5	100.0	100.2	12.2	12.2	100.0	101.7	102	102	100.0	97.1
Z2	6.7	7.2	93.0	124.1	42.0	42.0	100.0	100.7	42.1	42.0	100.2	99.3	11.4	11.8	96.6	95.0	109	101	106.9	102.8
A3	5.1	5.0	102.0	94.4	41.9	42.0	99.8	100.5	43.1	43.2	99.8	101.6	12.6	12.7	99.2	105.0	96	97	99.0	91.4
B3	6.2	4.6	134.8	114.8	41.8	41.2	101.4	100.2	42.5	42.6	99.8	100.2	12.1	12.1	100.0	100.8	110	110	100.0	104.8
C3	6.5	6.6	98.5	120.4	41.9	41.8	100.2	100.5	42.5	42.3	100.5	100.2	12.7	12.5	101.6	105.8	107	116	92.2	101.9
D3	5.9	5.8	101.7	109.2	41.7	41.6	100.2	100.0	42.6	42.5	100.2	100.5	11.9	12.2	97.5	99.2	102	105	101.0	101.0
E3	5.9	5.4	109.2	109.2	41.3	41.1	100.5	99.0	42.2	42.2	100.0	99.5	12.0	11.2	107.1	100.0	102	104	98.1	97.1
F3	4.8	5.0	96.0	88.9	42.0	42.1	99.8	100.7	42.1	42.2	99.8	99.3	11.4	11.7	97.4	95.0	104	107	97.2	99.0
G3	3.6	3.6	100.0	100.0	41.3	41.3	100.0	100.0	43.2	43.2	100.0	100.0	12.4	12.4	100.0	100.0	108	108	100.0	100.0
FK8G DATA																				
CUR.																				
AV. 5.5																				
CUM.																				
AV. 5.4																				
IND.																				
*D 101.8																				
100.2																				
100.0																				
100.8																				
99.0																				

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

TABLE XIII
AVERAGES OF ROUTINE MILL QUALITY CONTROL DATA FOR 69 LB FOURDRINIER KRAFT LINERBOARD

JANUARY, 1979																				
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			
	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C
B1	6.3	6.2	101.6	105.0	69.5	69.8	99.6	101.4	70.1	70.4	99.6	100.9	20.8	20.5	101.5	106.1	142	142	100.0	100.0
C1	6.6	6.6	100.0	110.0	69.0	69.0	100.0	100.7	69.2	69.2	100.0	99.6	19.5	19.3	101.0	99.5	144	149	96.6	101.4
E1	5.4	5.6	96.4	90.0	68.1	68.0	100.1	99.4	69.9	69.6	100.4	100.6	18.5	18.8	98.4	94.4	141	144	97.9	99.3
F1	6.2	6.4	96.9	103.3	68.0	68.4	99.4	99.3	69.2	69.4	99.7	99.6	19.1	19.0	100.5	97.4	139	139	100.0	97.9
I1	6.1	6.3	96.8	101.7	68.8	68.6	100.3	100.4	70.0	69.8	100.3	100.7	21.5	21.2	101.4	109.7	132	132	100.0	93.0
J1		6.1				69.2				70.4				19.7				140		
K1	6.4	6.5	98.5	106.7	67.7	67.7	100.0	98.8	68.7	68.7	100.0	98.8	21.2	19.6	108.2	108.2	146	142	102.8	102.8
L1	6.4	6.3	101.6	106.7	68.1	68.0	100.1	99.4	69.1	69.1	100.0	99.4	20.7	20.0	103.5	105.6	154	147	104.8	108.4
N1		3.7				67.4				70.3				19.7				152		
O1	5.7	5.7	100.0	95.0	69.3	69.2	100.1	101.2	69.5	69.4	100.1	100.0	20.1	20.0	100.5	102.6	138	143	96.5	97.2
P1	6.5	6.3	103.2	108.3	68.8	68.6	100.3	100.4	69.8	69.7	100.1	100.4	20.5	20.9	98.1	104.6	135	136	99.3	95.1
Q1	6.0	5.6	107.1	100.0	68.5	67.9	100.9	100.0	69.9	69.5	100.6	100.6	20.1	20.0	100.5	102.6	139	146	95.2	97.9
R1	6.6	6.4	103.1	110.0	68.5	68.5	100.0	100.0	69.4	69.6	99.7	99.8	18.3	18.4	99.4	93.4	136	141	96.4	95.8
Z1		4.6				69.2				69.8				20.2				141		
A2	5.3	5.4	98.1	88.3	69.4	69.1	100.4	101.3	69.6	69.3	100.4	100.1	18.4	17.7	104.0	93.9	145	141	102.8	102.1
B2	7.8	6.7	116.4	130.0	69.1	68.6	100.7	100.9	69.1	69.4	99.6	99.4	20.2	21.1	95.7	103.1	138	137	100.7	97.2
C2	6.3	6.8	92.6	105.0	69.5	69.3	100.3	101.4	69.7	69.5	100.3	100.3	19.7	19.4	101.5	100.5	138	136	101.5	97.2
D2		6.7				68.5				68.8				19.0				137		
I2	4.4	5.0	88.0	73.3	66.8	67.3	99.2	97.5	69.3	69.3	100.0	99.7		19.3			141	139	101.4	99.3
K2	6.1	5.5	110.9	101.7	68.7	68.0	101.0	100.3	69.9	69.7	100.3	100.6	19.9	20.0	99.5	101.5	140	142	98.6	98.6
L2	5.4	5.6	96.4	90.0	69.1	69.2	99.8	100.9	69.3	69.4	99.8	99.7	19.9	19.4	102.6	101.5	144	154	93.5	101.4
N2	5.0	5.2	96.2	83.3	67.2	67.6	99.4	98.1	69.2	69.5	99.6	99.6	20.0	19.6	102.0	102.0	140	142	98.6	98.6
Q2	5.9	5.8	101.7	98.3	68.8	69.0	99.7	100.4	69.0	69.2	99.7	99.3					138	139	99.3	97.2
S2	5.0	5.1	98.0	83.3	69.3	69.1	100.3	101.2	69.6	69.4	100.3	100.1	19.2	18.8	102.1	98.0	140	141	99.3	98.6
V2	6.3	6.8	92.6	105.0	68.2	68.4	99.7	99.6	69.3	69.2	100.1	99.7	20.2	20.1	100.5	103.1	136	134	101.5	95.8
W2	6.4	6.2	103.2	106.7	68.2	67.9	100.4	99.6	69.2	69.1	100.1	99.6	19.1	18.8	101.6	97.4	129	133	97.0	90.8
X2	7.1	7.2	98.6	118.3	68.3	68.5	99.7	99.7	68.8	68.9	99.8	99.0	18.8	18.9	99.5	95.9	147	148	99.3	103.5
Y2		6.3				68.6				69.8				21.4				128		
Z2	7.9	8.0	98.8	131.7	68.7	68.9	99.7	100.3	68.9	69.1	99.7	99.1	20.7	20.2	102.5	105.6	137	134	102.2	96.5
A3	6.5	6.5	100.0	108.3	68.5	69.3	98.8	100.0	69.5	70.3	98.9	100.0	21.3	22.1	96.4	108.7	135	136	99.3	95.1
B3	5.7	5.4	105.6	95.0	68.0	67.9	100.1	99.3	69.6	69.7	99.8	100.1	20.1	20.0	100.5	102.6	136	142	95.8	95.8
C3	7.1	7.1	100.0	118.3	69.0	69.0	100.0	100.7	69.6	69.6	100.0	100.1	20.4	19.9	102.5	104.1	144	148	97.3	101.4
D3	6.3	6.3	100.0	105.0	68.5	68.5	100.0	100.0	69.6	69.6	100.0	100.1	18.8	19.6	95.9	95.9	145	152	95.4	102.1
E3	6.0	5.6	107.1	100.0	67.8	67.6	100.3	99.0	69.2	69.2	100.0	99.6	19.1	18.9	101.6	97.4	137	139	98.6	96.5
F3	6.3	6.2	101.6	105.0	69.0	69.0	100.0	100.7	69.2	69.2	100.0	99.6	18.9	20.1	94.0	96.4	144	140	102.8	101.4
G3		3.7				67.9				70.9				20.0				144		
FKBG DATA																				
CUR.																				
AV. 6.2																				
CUM.																				
AV. 6.0																				
IND.																				
*D 103.3																				
100.0																				
99.8																				
101.0																				
98.6																				

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

TABLE XIV
AVERAGES OF ROUTINE MILL QUALITY CONTROL DATA FOR 69 LB FOURDRINIER KRAFT LINERBOARD
FEBRUARY, 1979

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.	CUM.	FACT.	IND.	CUR.	CUM.	FACT.	IND.	CUR.	CUM.	FACT.	IND.	CUR.	CUM.	FACT.	IND.	CUR.	CUM.	FACT.	IND.
	AV.	AV.	*B	*C	AV.	AV.	*B	*C	AV.	AV.	*B	*C	AV.	AV.	*B	*C	AV.	AV.	*B	*C
B1	6.6	6.2	106.4	110.0	69.5	69.8	99.6	101.4	70.1	70.4	99.6	100.9	20.7	20.5	101.0	105.1	141	142	99.3	99.3
C1	6.8	6.6	103.0	113.3	69.1	69.0	100.1	100.9	69.3	69.2	100.1	99.7	19.2	19.3	99.5	97.5	135	148	91.2	95.1
E1	5.6	5.6	100.0	93.3	67.9	68.0	99.8	99.1	69.5	69.7	99.7	100.0	18.2	18.8	96.8	92.4	145	144	100.7	102.1
F1	6.2	6.4	96.9	103.3	68.2	68.3	99.8	99.6	69.4	69.4	100.0	99.8	18.7	19.0	98.4	94.9	140	139	100.7	98.6
I1	6.4	6.3	101.6	106.7	68.3	68.7	99.4	99.7	69.3	69.8	99.3	99.7	21.7	21.2	102.4	110.2	132	132	100.0	93.0
J1		6.0				69.1				70.4				19.6				141		
K1	6.5	6.4	101.6	108.3	67.6	67.7	99.8	98.7	68.5	68.7	99.7	98.6	21.3	19.8	107.6	108.1	147	143	102.8	103.5
L1	6.4	6.4	100.0	106.7	67.9	68.0	99.8	99.1	68.9	69.1	99.7	99.1	20.4	20.0	102.0	103.6	158	148	106.8	111.3
N1		3.8				67.4				70.3				19.6				152		
O1	5.8	5.7	101.8	96.7	69.1	69.2	99.8	100.9	69.3	69.4	99.8	99.7	19.8	20.0	99.0	100.5	140	143	97.9	98.6
P1	6.6	6.4	103.1	110.0	68.9	68.7	100.3	100.6	69.8	69.8	100.0	100.4	21.0	20.7	101.4	106.6	135	136	99.3	95.1
Q1	5.8	5.7	101.8	96.7	68.7	68.0	101.0	100.3	70.2	69.6	100.9	101.0	19.8	20.0	99.0	100.5	146	146	100.0	102.8
R1	6.8	6.4	106.2	113.3	68.7	68.5	100.3	100.3	69.5	69.5	100.0	100.0	18.3	18.4	99.4	92.9	138	141	97.9	97.2
Z1		4.6				69.2				69.8				20.2				141		
A2	5.3	5.4	98.1	88.3	69.3	69.2	100.1	101.2	69.5	69.4	100.1	100.0	18.1	17.8	101.7	91.9	145	141	102.8	102.1
B2	7.7	6.8	113.2	128.3	69.1	68.7	100.6	100.9	69.2	69.4	99.7	99.6	21.5	21.1	101.9	109.1	137	137	100.0	96.5
C2	6.6	6.8	97.0	110.0	69.1	69.3	99.7	100.9	69.3	69.5	99.7	99.7	18.9	19.4	97.4	95.9	138	136	101.5	97.2
D2		6.7				68.6				68.8				19.1				137		
I2	4.8	5.0	96.0	80.0	67.1	67.2	99.8	98.0	69.3	69.3	100.0	99.7		19.4			136	139	97.8	95.8
K2	6.0	5.6	107.1	100.0	68.2	68.1	100.1	99.6	69.6	69.8	99.7	100.1	20.4	20.0	102.0	103.6	140	142	98.6	98.6
L2	5.4	5.6	96.4	90.0	69.2	69.2	100.0	101.0	69.4	69.4	100.0	99.8	20.9	19.4	107.7	106.1	148	154	96.1	104.2
N2	6.1	5.3	115.1	101.7	68.4	67.6	101.2	99.8	69.6	69.4	100.3	100.1	19.9	19.6	101.5	101.0	140	141	99.3	98.6
Q2	5.9	5.8	101.7	98.3	69.0	69.0	100.0	100.7	69.2	69.2	100.0	99.6					136	139	97.8	95.8
S2	5.1	5.1	100.0	85.0	69.2	69.1	100.1	101.0	69.5	69.4	100.1	100.0	19.2	18.7	102.7	97.5	139	141	98.6	97.9
V2	7.0	6.6	106.1	116.7	69.0	68.3	101.0	100.7	69.6	69.2	100.6	100.1	20.2	20.2	100.0	102.5	137	135	101.5	96.5
W2	7.2	6.3	114.3	120.0	68.2	68.0	100.3	99.6	68.7	69.1	99.4	98.8	19.3	18.8	102.6	98.0	129	133	97.0	90.8
X2	7.1	7.2	98.6	118.3	68.5	68.4	100.1	100.0	69.0	68.8	100.3	99.3	19.0	18.8	101.1	96.4	144	148	97.3	101.4
Y2		6.4				68.7				69.8				21.6				128		
Z2	8.2	8.0	102.5	136.7	68.9	68.9	100.0	100.6	69.1	69.1	100.0	99.4	19.8	20.3	97.5	100.5	139	135	103.0	97.9
A3	6.5	6.5	100.0	108.3	68.7	69.2	99.3	100.3	69.7	70.2	99.3	100.3	21.4	22.0	97.3	108.6	134	136	98.5	94.4
B3	6.1	5.4	113.0	101.7	68.3	67.9	100.6	99.7	69.5	69.6	99.8	100.0	20.1	20.0	100.5	102.0	136	141	98.4	95.8
C3	7.2	7.1	101.4	120.0	69.1	69.0	100.1	100.9	69.6	69.6	100.0	100.1	20.5	20.0	102.5	104.1	144	147	98.0	101.4
D3	6.5	6.3	103.2	108.3	68.7	68.5	100.3	100.3	69.7	69.6	100.1	100.3	18.7	19.6	95.4	94.9	149	151	98.7	104.9
E3	5.9	5.8	101.7	98.3	68.0	67.7	100.4	99.3	69.4	69.2	100.3	99.8	20.2	18.8	107.4	102.5	138	139	99.3	97.2
F3	6.6	6.2	106.4	110.0	68.9	69.0	99.8	100.6	69.1	69.2	99.8	99.4	18.8	20.0	94.0	95.4	139	141	98.6	97.9
G3		3.7				67.9				70.9				20.0				144		
FKBG DATA																				
CUR.																				
AV.	6.4				68.6				69.4				19.8				140			
CUM.																				
AV.	6.0				68.5				69.5				19.7				142			
IND.																				
*D 106.7					100.1				99.8				100.5				98.6			

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

TABLE XV
AVERAGES OF ROUTINE MILL QUALITY CONTROL DATA FOR 69 LB FOURDRINIER KRAFT LINERBOARD
MARCH, 1979

CODE	MOISTURE CONTENT, PERCENT				BASIS WT., LB / M SQ FT				ADJ. BASIS WT.,*A LB / M SQ FT				CALIPER, PT				BURSTING STRENGTH, P S I G			
	MACHINE DATA				MACHINE DATA				MACHINE DATA				MACHINE DATA				MACHINE DATA			
	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C
B1	5.9	6.2	95.2	98.3	69.4	69.8	99.4	101.3	70.0	70.4	99.4	100.7	20.8	20.4	102.0	105.6	143	142	100.7	100.7
C1	6.7	6.6	101.5	111.7	69.0	69.1	99.8	100.7	69.2	69.3	99.8	99.6	19.2	19.2	100.0	97.5	141	148	95.3	99.3
E1	5.5	5.6	98.2	91.7	67.9	68.0	99.8	99.1	69.6	69.7	99.8	100.1	18.7	18.7	100.0	94.9	136	144	94.4	95.8
F1	6.0	6.4	93.8	100.0	68.5	68.3	100.3	100.0	69.9	69.4	100.7	100.6	19.1	19.0	100.5	97.0	141	139	101.4	99.3
I1	6.5	6.3	103.2	108.3	68.2	68.6	99.4	99.6	69.2	69.7	99.3	99.6	20.8	21.2	98.1	105.6	130	132	98.5	91.5
J1	6.0				69.1				70.5				19.5				140			
K1	6.6	6.4	103.1	110.0	67.7	67.7	100.0	98.8	68.6	68.7	99.8	98.7	20.8	20.2	103.0	105.6	144	144	100.0	101.4
L1	6.3	6.4	98.4	105.0	68.0	68.0	100.0	99.3	69.1	69.0	100.1	99.4	20.6	20.1	102.5	104.6	150	150	100.0	105.6
N1		3.8			67.3				70.3				19.7				153			
O1	5.7	5.7	100.0	95.0	69.2	69.2	100.0	101.0	69.4	69.4	100.0	99.8	19.8	20.0	99.0	100.5	143	143	100.0	100.7
P1	6.5				68.8				69.8				20.8				135			
Q1	5.8	5.7	101.8	96.7	68.1	68.0	100.1	99.4	69.6	69.6	100.0	100.1	19.9	20.0	99.5	101.0	147	146	100.7	103.5
R1	6.8	6.5	104.6	113.3	68.8	68.5	100.4	100.4	69.6	69.5	100.1	100.1	18.2	18.4	98.9	92.4	141	141	100.0	99.3
Z1	4.2	4.6	91.3	70.0	68.8	69.0	99.7	100.4	69.4	69.6	99.7	99.8	20.2	20.2	100.0	102.5	140	142	98.6	98.6
A2	5.4	5.4	100.0	90.0	69.2	69.2	100.0	101.0	69.4	69.4	100.0	99.8	18.4	17.8	103.4	93.4	140	141	99.3	98.6
B2	7.4	7.0	105.7	123.3	69.2	68.8	100.6	101.0	69.5	69.4	100.1	100.0	22.0	21.2	103.8	111.7	138	137	100.7	97.2
C2	6.4	6.9	92.8	106.7	70.6	69.3	101.9	103.1	70.8	69.5	101.9	101.9	19.8	19.4	102.1	100.5	138	136	101.5	97.2
D2	7.4	6.6	112.1	123.3	68.7	68.6	100.1	100.3	68.7	68.8	99.8	98.8	19.8	19.1	103.7	100.5	133	137	97.1	93.7
I2	5.2	5.0	104.0	86.7	67.5	67.2	100.4	98.5	69.4	69.3	100.1	99.8	18.6	19.5	95.4	94.4	139	139	100.0	97.9
K2	6.2	5.6	110.7	103.3	68.2	68.1	100.1	99.6	69.4	69.7	99.6	99.8	20.9	20.0	104.5	106.1	143	142	100.7	100.7
L2	5.5	5.5	100.0	91.7	69.0	69.2	99.7	100.7	69.2	69.3	99.8	99.6	20.1	19.4	103.6	102.0	151	154	98.0	106.3
N2	5.3	5.4	98.1	88.3	67.3	67.6	99.6	98.2	69.1	69.4	99.6	99.4	20.1	19.7	102.0	102.0	139	141	98.6	97.9
Q2	5.8	5.8	100.0	96.7	68.8	69.0	99.7	100.4	69.0	69.2	99.7	99.3					141	139	101.4	99.3
S2	5.3	5.0	106.0	88.3	69.2	69.1	100.1	101.0	69.5	69.4	100.1	100.0	19.6	18.7	104.8	99.5	137	141	97.2	96.5
V2	7.0	6.7	104.5	116.7	68.9	68.5	100.6	100.6	69.5	69.4	100.1	100.0	20.3	20.2	100.5	103.0	134	136	98.5	94.4
W2	7.1	6.4	110.9	118.3	68.0	68.0	100.0	99.3	68.5	69.0	99.3	98.6	18.9	18.8	100.5	95.9	132	132	100.0	93.0
X2	7.2	7.2	100.0	120.0	68.5	68.4	100.1	100.0	69.0	68.8	100.3	99.3	18.3	18.8	97.3	92.9	149	147	101.4	104.9
Y2		6.4			68.9				69.9				22.2				128			
Z2	8.2	8.0	102.5	136.7	68.9	68.9	100.0	100.6	69.1	69.1	100.0	99.4	19.2	20.2	95.0	97.5	135	135	100.0	95.1
A3	6.7	6.5	103.1	111.7	68.9	69.1	99.7	100.6	69.7	70.0	99.6	100.3	21.7	21.8	99.5	110.2	134	135	99.2	94.4
B3	5.4				67.9				69.6				20.0				140			
C3	7.0	7.1	98.6	116.7	69.1	69.0	100.1	100.9	69.7	69.6	100.1	100.3	20.2	20.0	101.0	102.5	144	147	98.0	101.4
D3	6.4	6.3	101.6	106.7	68.6	68.5	100.1	100.1	69.6	69.6	100.0	100.1	18.6	19.5	95.4	94.4	151	152	99.3	106.3
E3	6.0	5.8	103.4	100.0	68.0	67.7	100.4	99.3	69.4	69.2	100.3	99.8	20.5	18.9	108.5	104.1	139	139	100.0	97.9
F3	6.4	6.2	103.2	106.7	68.9	69.0	99.8	100.6	69.1	69.2	99.8	99.4	19.7	19.9	99.0	100.0	141	141	100.0	99.3
G3	3.7				67.8				70.8				20.0				144			
FKBG DATA																				
CUR.																				
AV. 6.3																				
CUM.																				
AV. 6.0																				
IND.																				
*D 105.0																				
100.1																				
99.8																				
100.5																				
98.6																				

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

TABLE XVI

JANUARY, 1979

FKBG DATA

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

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

FEBRUARY, 1979

CODE	MOISTURE CONTENT, PERCENT				BASIS WT., LB / M SQ FT				ADJ. BASIS WT.,*A LB / M SQ FT				CALIPER, PT				BURSTING STRENGTH, P S I G			
	MACHINE DATA				MACHINE DATA				MACHINE DATA				MACHINE DATA				MACHINE DATA			
	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C
B1	6.8	6.3	107.9	111.5	90.7	91.0	99.7	101.4	91.5	91.8	99.7	101.0	27.6	27.1	101.8	108.7	170	170	100.0	100.6
E1	6.5	6.5	100.0	106.6	89.6	89.2	100.4	100.2	90.9	90.5	100.4	100.3	23.4	24.5	95.5	92.1	163	162	100.6	96.4
F1		6.8				89.2				90.2				24.9			171			
K1	6.6	6.4	103.1	108.2	88.4	88.4	100.0	98.9	89.5	89.7	99.8	98.8	28.1	26.5	106.0	110.6	182	181	100.6	107.7
N1		3.5				88.0				92.1				25.5			184			
Q1	5.6	5.9	94.9	91.8	90.4	89.5	101.0	101.1	92.6	91.3	101.4	102.2	26.8	26.8	100.0	105.5	166	167	99.4	98.2
R1	6.4	6.2	103.2	104.9	89.2	89.3	99.9	99.8	90.5	90.8	99.7	99.9	24.4	24.1	101.2	96.1	168	164	102.4	99.4
A2	5.3	5.5	96.4	86.9	90.4	90.2	100.2	101.1	90.7	90.5	100.2	100.1	23.7	23.8	99.6	93.3	165	162	101.8	97.6
I2	4.9	5.0	98.0	80.3	87.7	87.7	100.0	98.1	90.4	90.3	100.1	99.8		25.7			152	162	93.8	89.9
L2	5.4	5.8	93.1	88.5	89.9	90.2	99.7	100.6	90.7	90.4	100.3	100.1	26.9	25.0	107.6	105.9	169	182	92.8	100.0
N2		5.7				88.6				90.6				25.4			165			
X2	7.2	7.3	98.6	118.0	89.1	89.4	99.7	99.7	89.7	90.0	99.7	99.0	24.5	24.8	98.8	96.4	177	177	100.0	104.7
C3	6.5	6.9	94.2	106.6	89.7	89.7	100.0	100.3	91.0	90.6	100.4	100.4	26.1	25.9	100.8	102.8	158	172	91.9	93.5
D3	6.4	6.4	100.0	104.9	89.3	89.5	99.8	99.9	90.6	90.9	99.7	100.0	25.8	26.0	99.2	101.6	165	172	95.9	97.6
F3		6.3				90.0				90.4				25.7			169			
G3		3.6				88.3				92.3				26.1			178			
FKBG DATA																				
CUR.																				
AV. 6.1																				
CUM.																				
AV. 6.1																				
IND.																				
*D 100.0																				

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

TABLE XVIII
AVERAGES OF ROUTINE MILL QUALITY CONTROL DATA FOR 90 LB FOURDRINIER KRAFT LINERBOARD
MARCH, 1979

CODE	MOISTURE CONTENT, PERCENT				BASIS WT., LB / M SQ FT				ADJ. BASIS WT.,*A LB / M SQ FT				CALIPER, PT				BURSTING STRENGTH, P S I G			
	MACHINE DATA				MACHINE DATA				MACHINE DATA				MACHINE DATA				MACHINE DATA			
	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C
B1	6.0	6.4	93.8	100.0	90.3	90.9	99.3	101.0	91.1	91.7	99.3	100.6	27.3	27.2	100.4	107.5	172	170	101.2	101.8
E1	7.1	6.5	109.2	118.3	89.3	89.2	100.1	99.9	90.0	90.5	99.4	99.3	23.9	24.4	98.0	94.1	163	162	100.6	96.4
F1	6.3	6.8	92.6	105.0	99.4	89.2	100.2	100.0	90.8	90.1	100.8	100.2	25.0	24.9	100.4	98.4	172	171	100.6	101.8
K1	6.5	6.5	100.0	108.3	88.2	88.4	99.8	98.6	89.4	89.6	99.8	98.7	27.6	26.9	102.6	108.7	185	181	102.2	109.5
N1		3.5				88.0				92.1				25.5				184		
Q1	5.6			93.3	90.4			101.1	90.7			100.1	26.0			102.4	159			94.1
Q1	5.8	5.9	98.3	96.7	90.0	89.4	100.7	100.7	92.0	91.3	100.8	101.5	26.3	26.8	98.1	103.5	169	167	101.2	100.0
R1	7.0	6.2	112.9	116.7	89.7	89.3	100.4	100.3	90.5	90.8	99.7	99.9	23.6	24.1	97.9	92.9	170	165	103.0	100.6
A2	5.2	5.5	94.5	86.7	90.2	90.2	100.0	100.9	90.5	90.5	100.0	99.9	24.5	23.8	102.9	96.4	164	162	101.2	97.0
I2	5.1	5.0	102.0	85.0	87.9	87.7	100.2	98.3	90.4	90.3	100.1	99.8	26.4	25.8	102.3	103.9	167	161	103.7	98.8
L2	5.2	5.8	89.6	86.7	89.9	90.1	99.8	100.6	90.2	90.5	99.7	99.6	25.6	25.2	101.6	100.8	177	181	97.8	104.7
N2	5.8	5.8	100.0	96.7	88.7	88.7	100.0	99.2	90.7	90.6	100.1	100.1	26.7	25.5	104.7	105.1	163	165	98.8	96.4
X2	7.5	7.2	104.2	125.0	89.5	89.4	100.1	100.1	89.8	90.0	99.8	99.1	23.6	24.8	95.2	92.9	176	177	99.4	104.1
C3	6.9	6.8	101.5	115.0	90.3	89.7	100.7	101.0	91.2	90.7	100.6	100.7	25.7	26.0	98.8	101.2	175	170	102.9	103.6
D3		6.4				89.5				90.8				26.0				170		
F3	6.3	6.2	101.6	105.0	89.9	90.1	99.8	100.6	90.2	90.4	99.8	99.6	25.5	25.6	99.6	100.4	168	169	99.4	99.4
G3		3.6				88.3				92.3				26.1				178		
FKBG DATA																				
	CUR.																			
	AV.	6.2				89.6				90.5				25.6				170		
	CUM.																			
	AV.	6.0				89.4				90.6				25.4				169		
	IND.																			
	*D	103.3				100.2				99.9				100.8				100.6		

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

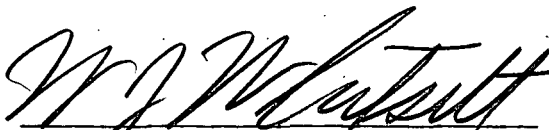
Data submitted by the participating mills relative to conditioning and testing environments are summarized in Table XIX. The procedures used in calculating adjusted basis weight, cumulative machine averages, machine factors, machine indexes, and F.K.B.G. indexes are described in the Appendix.

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 XIX
DATA ON CONDITIONING AND TESTING ENVIRONMENTS
JANUARY, FEBRUARY, MARCH, 1979

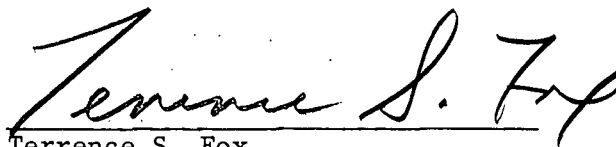
Code	Conditioning Environment				Testing Environment
	Are Quality Samples Conditioned Before Testing?	Time	Temp., °F	RH, %	Are Quality Samples Tested Under Controlled Conditions of Temperature & Humidity?
A1	No	--	--	--	No
B1	No	--	--	--	No
C1	No	--	--	--	No
D1	No	--	--	--	No
E1	No	--	--	--	No
F1	No	--	--	--	Yes: 72 ± 2°F; 50 ± 1% RH
G1	Yes	10 min	--	--	Yes: 73 ± 2°F; 50 ± 2% RH
H1	Insufficient tonnage for this quarter				
I1	Yes	10 min	--	--	Yes: 73 ± 2°F; 50 ± 2% RH
J1	No	--	--	--	No
K1	No	--	--	--	Yes: 73 ± 2°F; 50 ± 2% RH
L1	Yes	15 min	--	--	Yes: 73 ± 2°F; 50 ± 1% RH
M1	No	--	--	--	Yes: 73 ± 3.5°F; 50 ± 2% RH
N1	No data submitted for this quarter				
O1	No	--	--	--	Yes: 73 ± 3°F; 50 ± 2% RH
P1	No	--	--	--	Yes: 73 ± 5°F; 50 ± 5% RH
Q1	No	--	--	--	No
R1	No	--	--	--	Yes: 73 ± 3°F; 50 ± 3% RH
S1	No	--	--	--	Yes: 73 ± 3°F; 50 ± 1% RH
T1	No	--	--	--	Yes: 73 ± 2°F; 50 ± 2% RH
U1	No data submitted for this quarter				
V1	No	--	--	--	No
W1	No	--	--	--	Yes: 73 ± 3°F; 50 ± 2% RH
X1	No	--	--	--	No
Y1	No	--	--	--	No
Z1	No	--	--	--	Yes: 70 ± 2°F; 50 ± 2% RH
A2	No	--	--	--	No
B2	No	--	--	--	Yes: 73 ± 2°F; 50 ± 2% RH
C2	No	--	--	--	Yes: 72 ± 2°F; 50 ± 2% RH
D2	No	--	--	--	No
E2	Insufficient tonnage for this quarter				
F2	Yes	10 min	--	--	Yes: 73 ± 2°F; 50 ± 2% RH
G2	Yes	15 min	--	--	Yes: 73 ± 3.5°F; 50 ± 3% RH
H2	No data submitted for this quarter				
I2	No	--	--	--	No
J2	No	--	--	--	Yes: 73 ± 2°F; 50 ± 2% RH
K2	No	--	--	--	Yes: 73 ± 3.5°F; 50 ± 2% RH
L2	No	--	--	--	No
M2	No	--	--	--	Yes: 73 ± 2°F; 50 ± 2% RH
N2	No	--	--	--	No
O2	No	--	--	--	No
P2	No	--	--	--	No
Q2	No	--	--	--	No
R2	No	--	--	--	Yes: 73 ± 2°F; 50 ± 2% RH
S2	No	--	--	--	Yes: 73 ± 3°F; 50 ± 2% RH
T2	No	--	--	--	Yes: 72 ± 3°F; 50 ± 2% RH
U2	No	--	--	--	No
V2	No	--	--	--	Yes: 73 ± 5°F; 50 ± 5% RH
W2	No	--	--	--	No
X2	No	--	--	--	No
Y2	No data submitted for this quarter				
Z2	No	--	--	--	Yes: 73 ± 2°F; 50 ± 2% RH
A3	No	--	--	--	Yes: 72 ± 3°F; 50 ± 2% RH
B3	No	--	--	--	Yes: 73 ± 3.5°F; 50 ± 2% RH
C3	No	--	--	--	Yes: 73 ± 2°F; 50 ± 2% RH
D3	No	--	--	--	No
E3	No	--	--	--	No
F3	No	--	--	--	Yes: 75 ± 5°F; 50 ± 5% RH
G3	No data submitted for this quarter				
H3	No	--	--	--	Yes: 72 ± 2°F; 50 ± 2% RH

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APPENDIX

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

Notes A, B, C, and D, used in the tables of mill data are given below; these notes define the procedure used in calculating adjusted basis weight, machine factor, machine index, and F.K.B.G. 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 (%) = $\left[\frac{\text{Current machine average}}{\text{Cumulative F.K.B.G. average}} \right] \cdot 100$ where

$$\text{Cumulative F.K.B.G. average} = \sum \frac{\text{CFKBGA's}^b \text{ for previous 12 months excluding CFKBGA for current month}}{12}$$

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

$$\text{Current F.K.B.G. average} = \sum \frac{\text{CMA's}^a \text{ for current month for all machines}}{\text{Number of machines}}$$

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

^bCFKBGA = current F.K.B.G. average for a specific physical property of a specific linerboard grade weight obtained during a given month.

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