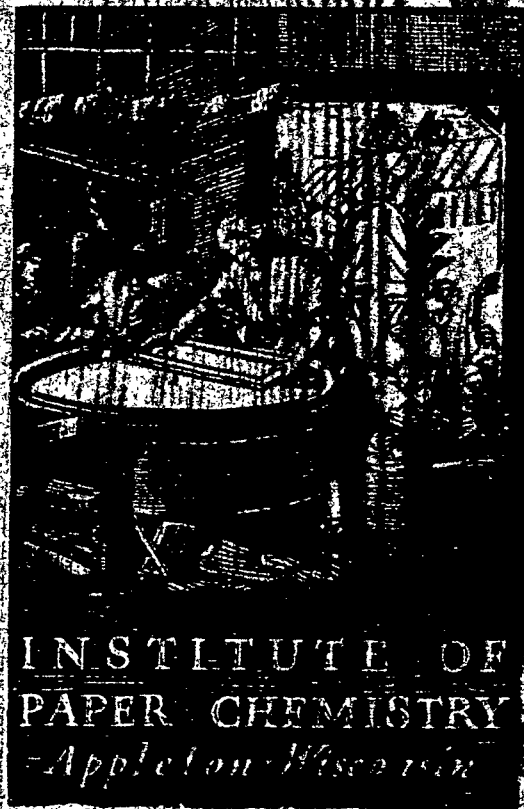


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BASE-LINE

NOVEMBER-DECEMBER 1976



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

Project 2694.1

**Report Sixty
A Progress Report**

to

**FOURDRINIER KRAFT BOARD GROUP OF THE
AMERICAN PAPER INSTITUTE**

February 23, 1977

THE INSTITUTE OF PAPER CHEMISTRY

Appleton, Wisconsin

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February 23, 1977

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THE INSTITUTE OF PAPER CHEMISTRY

Appleton, Wisconsin

CONTINUOUS BASE-LINE STUDY (MODIFIED)
(MILL LINERBOARD DATA FOR NOVEMBER AND DECEMBER, 1976)

SUMMARY

PART I: SUMMARY OF MOISTURE CONTENT DATA
(SEPTEMBER-DECEMBER, 1976)

Linerboard Grade Wt.		Moisture Content			
		September	October	November	December
26 Lb	Max. ^a	6.3	6.3	6.2	6.1
	Min. ^a	2.7	2.9	0.3	2.9
	Av. ^b	4.6 (17)	4.5 (21)	4.2 (22)	4.7 (17)
33 Lb	Max. ^a	6.0	6.4	6.3	5.9
	Min. ^a	1.5	1.6	2.0	2.7
	Av. ^b	4.5 (21)	4.7 (27)	4.5 (24)	4.8 (24)
38 Lb	Max. ^a	6.0	6.8	6.0	5.9
	Min. ^a	2.1	2.0	2.2	4.1
	Av. ^b	4.9 (22)	5.0 (22)	4.8 (20)	5.0 (18)
42 Lb	Max. ^a	6.6	6.7	6.7	6.7
	Min. ^a	2.8	2.3	2.5	3.0
	Av. ^b	5.1 (44)	5.1 (43)	5.2 (46)	5.2 (43)
69 Lb	Max. ^a	8.0	8.0	7.9	7.9
	Min. ^a	3.6	3.4	3.7	3.9
	Av. ^b	5.8 (31)	5.9 (31)	6.0 (31)	5.9 (30)
90 Lb	Max. ^a	7.4	7.4	7.1	7.7
	Min. ^a	3.9	3.9	5.3	3.9
	Av. ^b	6.1 (12)	6.1 (13)	6.2 (12)	5.9 (15)

^aCurrent machine average.

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

PART II: SUMMARY OF ADJUSTED BASIS WEIGHT DATA
(SEPTEMBER-DECEMBER, 1976)

Linerboard Grade Wt.		Adjusted Basis Weight, lb/M ft ²			
		September	October	November	December
26 Lb	Max. ^a	28.3	27.6	27.8	27.6
	Min. ^a	26.0	25.7	25.7	25.7
	Av. ^b	26.7 (17)	26.8 (21)	26.7 (22)	26.7 (17)
33 Lb	Max. ^a	35.2	34.1	34.8	34.4
	Min. ^a	33.1	32.3	32.4	32.6
	Av. ^b	33.7 (21)	33.5 (27)	33.5 (24)	33.5 (24)
38 Lb	Max. ^a	39.6	39.8	40.1	39.3
	Min. ^a	38.1	38.1	37.9	37.5
	Av. ^b	38.8 (22)	38.7 (22)	38.7 (20)	38.6 (18)
42 Lb	Max. ^a	44.7	44.7	44.5	43.1
	Min. ^a	41.3	41.4	41.4	41.4
	Av. ^b	42.6 (44)	42.5 (43)	42.6 (46)	42.5 (43)
69 Lb	Max. ^a	70.8	70.6	70.6	70.6
	Min. ^a	67.9	67.9	68.2	67.5
	Av. ^b	69.7 (31)	69.6 (31)	69.6 (31)	69.6 (30)
90 Lb	Max. ^a	92.6	91.6	91.9	91.7
	Min. ^a	89.4	89.5	89.7	88.3
	Av. ^b	90.9 (12)	90.7 (13)	90.8 (12)	90.6 (15)

^aCurrent machine average.

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

PART III: SUMMARY OF CALIPER DATA
(SEPTEMBER-DECEMBER, 1976)

Linerboard Grade Wt.		Caliper, pt.			
		September	October	November	December
26 Lb	Max. ^a	9.7	9.3	9.1	9.3
	Min. ^a	7.0	7.1	7.1	6.6
	Av. ^b	8.0 (15)	7.9 (20)	7.8 (20)	7.8 (16)
33 Lb	Max. ^a	10.6	10.7	10.7	10.6
	Min. ^a	9.0	8.7	9.0	9.0
	Av. ^b	9.8 (20)	9.8 (26)	9.9 (23)	9.9 (22)
38 Lb	Max. ^a	12.6	11.5	11.9	12.0
	Min. ^a	9.7	10.0	10.0	9.9
	Av. ^b	11.0 (21)	10.9 (21)	10.9 (19)	11.0 (17)
42 Lb	Max. ^a	13.7	13.7	13.2	13.4
	Min. ^a	10.7	10.8	10.9	10.8
	Av. ^b	12.0 (43)	12.0 (42)	11.9 (45)	12.0 (42)
69 Lb	Max. ^a	21.5	21.3	21.6	21.9
	Min. ^a	18.1	17.7	17.5	17.6
	Av. ^b	19.7 (31)	19.7 (31)	19.6 (31)	19.7 (30)
90 Lb	Max. ^a	27.8	27.7	26.7	26.7
	Min. ^a	24.1	24.1	23.9	23.6
	Av. ^b	25.5 (12)	25.5 (13)	25.4 (12)	25.4 (15)

^aCurrent machine average.

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

PART IV: SUMMARY OF BURSTING STRENGTH DATA
(SEPTEMBER-DECEMBER, 1976)

Linerboard Grade Wt.		Bursting Strength, psig			
		September	October	November	December
26 Lb	Max. ^a	80	81	82	80
	Min. ^a	67	64	65	65
	Av. ^b	73 (17)	72 (21)	71 (22)	71 (17)
33 Lb	Max. ^a	100	104	104	93
	Min. ^a	78	79	77	77
	Av. ^b	86 (21)	87 (27)	86 (24)	84 (24)
38 Lb	Max. ^a	110	108	106	110
	Min. ^a	91	90	90	86
	Av. ^b	98 (22)	96 (22)	96 (20)	96 (18)
42 Lb	Max. ^a	121	118	118	117
	Min. ^a	98	98	99	98
	Av. ^b	105 (44)	105 (43)	105 (46)	105 (43)
69 Lb	Max. ^a	158	172	150	159
	Min. ^a	129	133	133	132
	Av. ^b	142 (31)	142 (31)	142 (31)	142 (30)
90 Lb	Max. ^a	187	201	183	191
	Min. ^a	159	162	160	158
	Av. ^b	172 (12)	174 (13)	172 (12)	171 (15)

^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.

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
NOVEMBER, 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												
	CUR. AV. #B	IND. #C	CUR. AV. #B	IND. #C	CUR. AV. #B	IND. #C		CUR. AV. #B	IND. #C											
A1	4.7	100.0	106.8	26.1	26.1	100.0	100.4	27.0	26.9	100.4	101.1	9.1	8.9	102.2	113.8	68	71	95.8	93.2	
C1	3.5	4.2	83.3	79.5	25.6	26.2	97.7	98.5	26.8	27.2	98.5	100.4	7.5	7.9	94.9	93.8	76	79	96.2	104.1
F1	0.3	0.4	75.0	6.8	25.7	25.1	102.4	98.8	27.8	27.1	102.6	104.1	8.0	8.1	98.8	100.0	65	65	100.0	89.0
G1	4.2	4.3	97.7	95.4	26.3	26.5	99.2	101.2	27.3	27.5	99.3	102.2	8.4	8.4	100.0	105.0	65	66	98.5	89.0
H1	2.4	2.2	109.1	54.5	25.3	25.1	100.8	97.3	26.8	26.6	100.8	100.4	8.5	8.1	104.9	106.2	76	75	101.3	104.1
I1	4.1				25.7				26.7											
J1	4.0				26.0				27.2											
M1	3.9	3.8	102.6	88.6	25.1	25.3	99.2	96.5	26.2	26.4	99.2	98.1	7.8	7.8	100.0	97.5	78	80	97.5	106.8
O1	5.5	6.0	91.7	125.0	26.3	26.2	100.4	101.2	26.4	26.3	100.4	98.9					69	70	98.6	94.5
P1	6.2	6.4	96.9	140.9	25.9	26.1	99.2	99.6	25.9	26.1	99.2	97.0	7.4	7.8	94.9	92.5	82	77	106.5	112.3
Q1	5.3				26.7				26.8											
R1	5.3	5.4	98.1	120.4	26.6	26.6	100.0	102.3	27.3	27.3	100.0	102.2	7.2	7.5	96.0	90.0	65	65	100.0	89.0
S1	3.7	3.8	97.4	84.1	27.0	27.2	99.3	103.8	27.1	27.3	99.3	101.5	7.5	8.0	93.8	93.8	69	75	92.0	94.5
U1	3.5				26.7				27.1											
V1	4.1				25.4				26.4											
Y1	4.9	4.8	102.1	111.4	25.9	26.2	98.8	99.6	26.7	27.0	98.9	100.0	8.1	8.0	101.2	101.2	70	70	100.0	95.9
A2	3.7	3.8	97.4	84.1	26.0	26.0	100.0	100.0	27.1	27.1	100.0	101.5	7.9	7.9	100.0	98.8	70	70	100.0	95.9
C2	4.7	5.3	88.7	106.8	25.7	26.0	98.8	98.8	25.7	26.1	98.5	96.2	7.6	7.8	97.4	95.0	72	70	102.8	98.6
D2	3.9	3.4	114.7	84.6	26.1	25.5	102.4	100.4	27.2	26.7	101.9	101.9	8.2	8.1	101.2	102.5	80	86	93.0	109.6
E2	5.8	5.9	98.3	131.8	26.4	25.9	101.9	101.5	26.5	26.0	101.9	99.2					72	75	96.0	98.6
F2	3.9	4.6	84.8	88.6	26.2	26.2	100.0	100.8	26.3	26.3	100.0	98.5	7.9	8.0	98.8	98.8	70	72	97.2	95.9
K2	4.9	4.4	111.4	111.4	25.7	25.7	100.0	98.8	26.5	26.7	99.2	99.2	7.6	7.9	96.2	95.0	73	69	105.8	100.0
M2	4.0	4.8	83.3	90.9	25.5	25.6	99.6	98.1	26.5	26.5	100.0	99.2	7.1	7.4	95.9	88.8	67	67	100.0	91.8
O2	3.2	2.7	118.5	72.7	27.4	26.7	102.6	105.4	27.5	26.8	102.6	103.0	7.3	7.8	93.6	91.2	68	72	94.4	93.2
P2	4.9				25.7				26.5											
R2	6.5				26.2				26.2											
V2	4.9	5.0	98.0	111.4	25.5	25.6	99.6	98.1	26.3	26.4	99.6	98.5	7.8	7.7	101.3	97.5	71	73	97.3	97.3
X2	5.5				25.7				26.3											
Y2	5.7				26.1				26.2											
A3	5.0	5.0	100.0	113.6	26.2	26.2	100.0	100.8	27.0	27.0	100.0	101.1	8.0	8.4	95.2	100.0	72	71	101.4	98.6

FKI DATA
CUR. AV. 4.2 26.0 26.7 71
CUM. AV. 4.4 26.0 26.7 73
IND. #D 95.4 100.0 100.0 97.3

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
DECEMBER, 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. #B	IND. FACT. #C	CUR. AV. #B	IND. FACT. #C	CUR. AV. #B	IND. FACT. #C	CUR. AV. #B	IND. FACT. #C	CUR. AV. #B	IND. FACT. #C										
A1	5.1	4.7	108.5	115.9	26.2	26.1	100.4	100.8	27.0	26.9	100.4	101.1	9.3	9.0	103.3	116.2	69	71	97.2	95.8
C1	3.6	4.2	85.7	81.6	25.6	26.1	98.1	98.5	26.8	27.1	98.9	100.4	7.8	7.8	100.0	97.5	74	78	94.9	102.8
F1	0.4	4.3			25.2	26.5			27.2	27.5			8.1	8.4			65	65		
G1	2.9	2.3	126.1	65.9	25.3	25.2	100.4	97.3	26.6	26.7	99.6	99.6	8.6	8.2	104.9	107.5	72	75	96.0	100.0
I1	5.5	4.1	134.1	125.0	25.8	25.7	100.4	99.2	26.4	26.7	98.9	98.9	8.5	8.7	97.7	106.2	75	79	94.9	104.2
J1	4.1	4.0	102.5	93.2	26.0	26.0	101.2	101.2	27.4	27.2	100.7	102.6	6.6	7.6	86.8	82.5	73	77	94.8	101.4
M1	3.8	3.8			25.3	26.4			26.4	26.4			7.8	7.9			80	80		
O1	5.9	5.9			26.2	26.3			26.3	26.3			7.8	7.8			70	70		
P1	6.1	6.4	95.3	138.6	26.1	26.0	100.4	100.4	26.1	26.0	100.4	97.8	7.5	7.8	96.2	93.8	80	78	102.6	111.1
Q1	5.5	5.2	105.8	125.0	27.5	27.0	101.8	105.8	27.6	27.0	102.2	103.4	7.5	9.0	83.3	93.8	65	67	97.0	90.3
R1	5.4	5.4	100.0	122.7	26.5	26.6	99.6	101.9	27.2	27.3	99.6	101.9	7.5	7.4	101.4	93.8	65	65	100.0	90.3
S1	3.6	3.8	94.7	81.8	27.3	27.2	100.4	105.0	27.4	27.3	100.4	102.6	8.0	7.9	101.3	100.0	71	75	94.7	98.6
U1	3.5	4.1			26.7	27.1			27.1	26.4			7.2	7.9			75	75		
V1	4.1	4.8			25.4	26.1			26.4	27.0			8.0	8.0			69	70		
A2	3.9	3.8	102.6	88.6	26.0	25.9	100.4	100.0	27.1	27.0	100.4	101.5	7.8	7.9	98.7	97.5	69	70	98.6	95.8
C2	5.0	5.2	96.2	113.6	25.9	26.0	99.6	99.6	25.9	26.0	99.6	97.0	7.6	7.8	97.4	95.0	72	70	102.8	100.0
D2	3.4	3.4			25.6	26.8			26.8	26.8			8.1	8.1			85	85		
E2	6.0	5.9	101.7	136.4	25.6	26.0	98.5	98.5	25.7	26.1	98.5	96.2	7.9	8.0	98.8	98.8	71	74	95.9	98.6
F2	4.1	4.4	93.2	93.2	26.4	26.2	100.8	101.5	26.5	26.3	100.8	99.2	7.9	8.0	98.8	98.8	70	72	97.2	97.2
K2	4.8	4.5	106.7	109.1	25.7	25.7	100.0	98.8	26.5	26.7	99.2	99.2	8.0	7.9	101.3	100.0	71	70	101.4	98.6
M2	4.0	4.7	85.1	90.9	25.5	25.6	99.6	98.1	26.5	26.5	100.0	99.2	6.9	7.3	94.5	86.2	70	67	104.5	97.2
O2	2.8	2.8			26.8	26.8			26.8	26.8			8.7	8.7			71	71		
P2	4.9	6.5			25.7	26.2			26.5	26.5			8.4	8.4			74	74		
R2	5.0	5.0	100.0	113.6	25.6	25.6	100.0	98.5	26.4	26.4	100.0	98.9	7.9	7.7	102.6	98.8	71	73	97.3	98.6
X2	5.5	5.8			25.6	26.2			26.3	26.3			7.7	8.3			68	68		
Y2	5.8	5.8			26.2	26.2			26.3	26.3			8.3	8.3			73	73		
A3	5.2	5.0	104.0	118.2	26.0	26.2	99.2	100.0	26.7	27.0	98.9	100.0	8.1	8.4	96.4	101.2	70	71	98.6	97.2

FKI DATA
CUR. AV. 4.7 26.1 26.7 7.8 71
CUM. AV. 4.4 26.0 26.7 8.0 72
IND. #D 106.8 100.4 100.0 97.5 98.6

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

TABLE III
AVERAGES OF ROUTINE MILL QUALITY CONTROL DATA FOR 33 LB FOURDRINIER KRAFT LINERBOARD
NOVEMBER, 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		MACHINE DATA		MACHINE DATA		MACHINE DATA		MACHINE DATA											
	CUR. AV.	IND. #B	CUR. AV.	IND. #B	CUR. AV.	IND. #C	CUR. AV.	IND. #B	CUR. AV.	IND. #C										
A1	4.8	100.0	104.3	33.2	33.0	100.6	101.2	34.3	34.0	100.9	102.1	10.4	10.0	104.0	105.0	88	88	100.0	101.1	
C1	3.5	4.7	74.5	32.2	32.6	98.8	98.2	33.7	33.7	100.0	100.3	9.6	9.8	98.0	97.0	93	93	100.0	106.9	
E1	5.7	5.9	96.6	123.9	33.2	33.3	99.7	101.2	33.3	33.4	99.7	99.1	9.8	10.6	92.4	99.0	91	88	103.4	104.6
F1	2.0	1.5	133.3	43.5	31.5	31.3	100.6	96.0	33.5	33.4	100.3	99.7	10.2	10.1	101.0	103.0	81	84	96.4	93.1
G1	4.2	4.7	89.4	91.3	33.5	33.5	100.0	102.1	34.8	34.6	100.6	103.6	10.4	10.8	96.3	105.0	80	81	98.8	92.0
H1	2.3	2.2	104.5	50.0	31.8	31.7	100.3	97.0	33.7	33.6	100.3	100.3	10.6	10.1	105.0	107.1	90	89	101.1	103.4
I1	4.8	4.5		32.2	32.6			33.2	33.7			9.9	9.4			86	86			
J1	4.5			32.6	32.6			33.2	33.2			9.4	9.4			94	94			
M1	4.0	4.1	97.6	87.0	31.9	32.0	99.7	97.2	33.2	33.3	99.7	98.8	9.1	9.3	97.8	91.9	99	100	99.0	113.8
P1	6.3	6.3	100.0	137.0	32.6	32.8	99.4	99.4	32.6	32.8	99.4	97.0	9.6	9.8	98.0	97.0	104	102	102.0	119.5
Q1	5.5			33.2	33.2			33.3	33.3			9.6	9.6			85	85			
R1	5.4	5.4	100.0	117.4	32.5	33.1	98.2	99.1	33.3	33.9	98.2	99.1	9.1	9.3	97.8	91.9	77	79	97.5	88.5
S1	3.9	4.2	92.8	84.8	33.3	33.6	99.1	101.5	33.4	33.7	99.1	99.4	9.7	9.8	99.0	98.0	82	89	92.1	94.2
U1	3.9			33.7	33.7			34.2	34.2			10.1	10.1			90	90			
V1	4.7			32.4	33.5			33.5	33.5			9.7	9.7			79	79			
Y1	5.3	5.3	100.0	115.2	32.6	33.2	98.2	99.4	33.5	34.2	98.0	99.7	10.2	10.2	100.0	103.0	81	83	97.6	93.1
A2	3.9	4.3	90.7	84.8	32.6	32.7	99.7	99.4	34.0	34.0	100.0	101.2	10.2	10.0	102.0	103.0	84	86	97.7	96.6
C2	4.9	5.7	86.0	106.5	32.4	32.7	99.1	98.8	32.4	32.8	98.8	96.4	9.6	9.6	100.0	97.0	88	85	103.5	101.1
D2	4.4	4.5	97.8	95.6	32.6	32.5	100.3	99.4	33.8	33.7	100.3	100.6	10.7	9.9	108.1	108.1	94	104	90.4	108.0
E2	5.8	5.8	100.0	126.1	32.9	33.0	99.7	100.3	33.0	33.1	99.7	98.2	9.9	9.9	108.1	108.1	85	92	92.4	97.7
F2	4.2	4.6	91.3	91.3	33.2	33.2	100.0	101.2	33.3	33.3	100.0	99.1	9.9	10.1	98.0	100.0	88	88	100.0	101.1
J2	2.9			31.5	33.2			33.2	33.2			9.6	9.6			88	88			
K2	5.2	5.0	104.0	113.0	32.8	32.5	100.9	100.0	33.7	33.5	100.6	100.3	10.1	10.0	101.0	102.0	88	83	106.0	101.1
L2	4.0	4.6	87.0	87.0	31.4	32.4	96.9	95.7	32.7	33.5	97.6	97.3	10.0	10.0	100.0	101.0	85	83	102.4	97.7
M2	3.8			33.0	34.4			34.4	34.4			10.1	10.1			82	82			
N2	4.3	5.2	82.7	93.5	32.4	32.6	99.4	98.8	33.6	33.5	100.3	100.0	9.4	9.6	97.9	94.9	85	81	104.9	97.7
O2	4.7	3.4	138.2	102.2	33.2	33.2	100.0	101.2	33.4	33.4	100.0	99.4	9.0	9.6	93.8	90.9	78	83	94.0	89.6
P2	4.6			32.8	33.9			33.9	33.9			10.9	10.9			90	90			
Q2	5.3			33.0	33.9			33.9	33.9			9.3	9.3			82	82			
R2	6.5			33.1	33.2			33.2	33.2			10.9	10.9			96	96			
T2	5.7	5.7	100.0	123.9	32.6	32.7	99.7	99.4	33.3	33.4	99.7	99.1	9.8	9.6	102.1	99.0	86	86	100.0	98.8
V2	5.0	5.0	100.0	108.7	32.6	32.5	100.3	99.4	33.6	33.5	100.3	100.0	10.6	10.3	102.9	107.1	78	81	96.3	89.6
X2	5.4			32.7	33.6			33.6	33.6			9.8	9.8			79	79			
Y2	5.5			33.0	33.0			33.0	33.0			10.2	10.2			87	87			
Z2	5.3			33.0	33.9			33.9	33.9			10.1	10.1			79	79			
A3	5.8	5.8	100.0	126.1	32.9	33.0	99.7	100.3	33.6	33.7	99.7	100.0	10.0	10.5	95.2	101.0	83	81	102.5	95.4
B3	3.4	3.6	94.4	73.9	33.8	33.9	99.7	103.0	34.1	34.2	99.7	101.5	9.5	9.5	100.0	96.0	82	80	102.5	94.2

FKI DATA

CUR. AV.	4.5	33.5	9.9	86
CUM. AV.	4.6	33.6	9.9	87
IND. #D	97.8	99.4	100.0	98.8

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
DECEMBER, 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		MACHINE DATA		MACHINE DATA		MACHINE DATA		MACHINE DATA											
	CUR. AV. #B	FACT. IND. #C	CUR. AV. #B	FACT. IND. #C	CUR. AV. #B	FACT. IND. #C	CUR. AV. #B	FACT. IND. #C	CUR. AV. #B	FACT. IND. #C										
A1	5.0		33.0		34.0		10.1		88											
C1	3.9	84.8	32.3	32.6	99.1	98.8	33.7	100.0	100.3	9.4	9.8	95.9	94.9	90	93	96.8	103.4			
E1	5.7	98.3	123.9	33.0	33.2	99.4	100.9	33.1	33.4	99.1	98.5	10.3	10.6	97.2	104.0	84	88	95.4	96.6	
F1	3.0	1.6	187.5	65.2	32.7	31.3	104.5	100.0	34.4	33.4	103.0	102.4	10.4	10.1	103.0	105.0	84	84	100.0	96.6
G1	4.6		33.5		34.5		34.5		34.5		34.5		10.8		10.8		81			
H1	2.7	2.3	117.4	58.7	31.9	31.8	100.3	97.6	33.7	33.6	100.3	100.3	10.2	10.2	100.0	103.0	89	89	100.0	102.3
I1	5.4	4.8	112.5	117.4	32.5	32.2	100.9	99.4	33.3	33.2	100.3	99.1	10.5	9.9	106.1	106.1	90	86	104.6	103.4
J1	4.5		32.6		33.7		33.7		33.7		33.7		9.4		9.4		94			
M1	4.1		32.0		33.3		33.3		33.3		33.3		9.3		9.3		100			
O1	5.9		128.3	33.2			101.5	33.3			99.1		77				77			88.5
P1	6.3		32.8		32.8		32.8		32.8		32.8		9.8		9.8		102			
Q1	5.8	5.3	109.4	126.1	33.4	33.2	100.6	102.1	33.5	33.4	100.3	99.7	9.3	9.4	98.9	93.9	80	84	95.2	92.0
R1	5.5	5.4	101.8	119.6	33.0	33.0	100.0	100.9	33.8	33.8	100.0	100.6	9.4	9.3	101.1	94.9	79	79	100.0	90.8
S1	4.3	4.3	100.0	93.5	33.6	33.6	100.0	102.8	33.7	33.7	100.0	100.3	10.3	9.8	103.1	104.0	81	88	92.0	93.1
U1	3.9		33.7		34.2		34.2		34.2		34.2		10.1		10.1		90			
V1	4.7		32.4		33.5		33.5		33.5		33.5		9.7		9.7		79			
Y1	5.1	5.3	96.2	110.9	32.4	33.2	97.6	99.1	33.3	34.1	97.6	99.1	10.3	10.2	101.0	104.0	80	83	96.4	92.0
A2	4.5	4.3	104.6	97.8	32.6	32.7	99.7	99.7	33.8	33.9	99.7	100.6	10.4	10.0	104.0	105.0	85	86	98.8	97.7
C2	5.1	5.6	91.1	110.9	32.6	32.7	99.7	99.7	32.6	32.8	99.4	97.0	9.5	9.6	99.0	96.0	87	86	101.2	100.0
D2	4.2	4.4	95.4	91.3	32.1	32.5	98.8	98.2	33.4	33.7	99.1	99.4	10.2	10.0	102.0	103.0	93	103	90.3	106.9
E2	5.8	5.8	100.0	126.1	32.9	33.0	99.7	100.6	33.0	33.1	99.7	98.2	9.6	10.1	95.0	97.0	87	91	96.7	101.1
F2	4.2	4.6	91.3	91.3	33.1	33.2	99.7	101.2	33.2	33.3	99.7	98.8	9.6	10.1	95.0	97.0	87	88	98.9	100.0
J2	2.9		31.5		33.2		33.2		33.2		33.2		9.5		9.5		88			
K2	5.2	5.0	104.0	113.0	32.7	32.6	100.3	100.0	33.6	33.5	100.3	100.0	10.1	10.0	101.0	102.0	88	83	106.0	101.1
L2	4.0	4.5	88.9	87.0	32.5	32.3	100.6	99.4	33.8	33.4	101.2	100.6	9.9	10.0	99.0	100.0	88	83	106.0	101.1
M2	3.8		33.0		34.4		34.4		34.4		34.4		10.1		10.1		82			
N2	4.8	5.0	96.0	104.3	32.5	32.5	100.0	99.4	33.6	33.5	100.3	100.0	9.0	9.6	93.8	90.9	82	81	101.2	94.2
O2	4.7	3.5	134.3	102.2	33.1	33.2	99.7	101.2	33.3	33.4	99.7	99.1	9.1	9.6	94.8	91.9	84	82	102.4	96.6
P2	4.6		32.8		33.9		33.9		33.9		33.9		10.9		10.9		90			
Q2	5.3		33.0		33.9		33.9		33.9		33.9		9.3		9.3		82			
R2	6.5		33.1		33.2		33.2		33.2		33.2		10.9		10.9		97			
T2	5.7	5.7	100.0	123.9	32.8	32.7	100.3	100.3	33.6	33.4	100.6	100.0	9.5	9.6	99.0	96.0	88	86	102.3	101.1
V2	5.0	5.0	100.0	108.7	32.6	32.5	100.3	99.7	33.6	33.5	100.3	100.0	10.6	10.4	101.9	107.1	78	81	96.3	89.6
X2	5.4		32.7		33.6		33.6		33.6		33.6		9.7		9.7		79			
Y2	5.5		33.0		33.1		33.1		33.1		33.1		10.2		10.2		88			
Z2	5.4	5.4	100.0	117.4	32.7	33.0	99.1	100.0	33.6	34.0	98.8	100.0	10.5	10.0	103.0	106.1	77	80	96.2	88.5
A3	5.8	5.8	100.0	126.1	33.0	33.0	100.0	100.9	33.7	33.7	100.0	100.3	10.2	10.4	98.1	103.0	84	82	102.4	96.6
B3	3.9	3.6	108.3	84.8	33.9	33.8	100.3	103.7	34.2	34.2	100.0	101.8	9.3	9.5	97.9	93.9	81	80	101.2	93.1

FKI DATA

CUR. AV. #B	32.8	33.5	9.9	84
CUM. AV. #B	32.7	33.6	9.9	87
IND. #D	100.3	99.7	100.0	96.6

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
NOVEMBER, 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		
	CUR. AV.	FAC. #8	IND. *C	CUR. AV.	FAC. #8	IND. *C	CUR. AV.	FAC. #8	IND. *C	CUR. AV.	FAC. #8	IND. *C	CUR. AV.	FAC. #8	IND. *C
A1	4.2			38.0			39.4			11.4			101		
B1	6.2			38.3			39.0			10.6			92		
C1	3.9	5.1	76.5	37.2	37.8	98.4	38.8	38.9	99.7	100.2	11.2	11.3	99.1	101.8	98
D1	5.6	5.5	101.8	112.0	37.5	37.3	100.5	98.9	38.4	38.3	100.3	99.2	10.7	11.1	96.4
E1	5.8	5.7	101.8	116.0	38.2	38.3	99.7	100.8	38.3	38.4	99.7	99.0	11.0	11.6	94.8
H1	2.6	2.8	92.8	52.0	36.4	37.1	98.1	96.0	38.4	38.1	98.2	99.2	11.4	10.3	110.7
I1	4.6			36.9			38.2			11.3			102		
J1	5.5	5.4	101.8	110.0	37.8	37.7	100.3	99.7	38.7	38.7	100.0	100.0	10.1	10.7	94.4
L1	4.8			37.7			38.9			11.0			101		
M1	4.4			37.0			38.4			10.5			108		
Q1	5.9	5.9	100.0	118.0	38.3	38.4	99.7	101.0	38.4	38.5	99.7	99.2	10.3	10.8	95.4
S1	5.0	4.8	104.2	100.0	38.7	39.1	99.0	102.1	38.8	39.2	99.0	100.2	10.7	10.9	98.2
U1	3.8			38.7			39.0			11.4			96		
V1	4.4			37.1			38.4			11.2			105		
Y1	5.3	5.4	98.1	106.0	37.5	37.6	99.7	98.9	38.5	38.6	99.7	99.5	10.7	11.3	94.7
Z1	4.8			38.9			38.0			10.7			92		
A2	4.3	4.8	89.6	86.0	37.7	37.8	99.7	99.5	39.1	39.0	100.2	101.0	11.4	11.4	100.0
C2	5.5	6.0	91.7	110.0	38.1	38.3	99.5	100.5	38.1	38.4	99.2	98.4	11.9	11.0	108.2
D2	5.6	5.4	103.7	112.0	38.1	37.8	100.8	100.5	39.0	38.7	100.8	100.8	11.1	10.4	106.7
E2	5.8	5.8	100.0	116.0	37.8	38.0	99.5	99.7	37.9	38.1	99.5	97.9	95		
F2	4.8	4.9	98.0	96.0	38.2	38.2	100.0	100.8	38.3	38.3	100.0	99.0	11.3	11.3	100.0
K2	5.1			37.7			38.8			11.4			101		
L2	4.2	4.7	89.4	84.0	37.2	37.3	99.7	98.2	38.7	38.5	100.5	100.0	11.3	11.4	99.1
M2	4.6	5.4	85.2	92.0	37.3	37.5	99.5	98.4	38.6	38.5	100.2	99.7	11.0	10.9	100.9
O2	4.7	3.8	123.7	94.0	38.2	38.3	99.7	100.8	38.4	38.5	99.7	99.2	10.1	11.2	90.2
Q2	6.2			38.0			38.6			10.8			95		
S2	4.7	5.0	94.0	94.0	40.0	39.3	101.8	105.5	40.1	39.4	101.8	103.6	10.7	10.9	98.2
V2	5.1	4.9	104.1	102.0	37.6	37.4	100.5	99.2	38.7	38.6	100.2	100.0	11.4	11.4	100.0
Y2	5.5			38.0			38.1			11.2			91		
Z2	5.4			38.0			39.0			11.2			100		
A3	6.0	6.0	100.0	120.0	37.9	38.0	99.7	100.0	38.7	38.7	100.0	100.0	10.1	11.0	91.8
C3	2.2	2.7	81.5	44.0	37.8	37.4	101.1	99.7	40.1	39.4	101.8	103.6	10.0	10.5	95.2

FKI DATA

CUR. AV.	4.8	37.9	38.7	10.9	96
CUM. AV.	5.0	37.9	38.7	11.0	98
IND. #D	96.0	100.0	100.0	99.1	98.0

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

TABLE VI
AVERAGES OF ROUTINE MILL QUALITY CONTROL DATA FOR 38 LB FOURDRINIER KRAFT LINERBOARD
DECEMBER, 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		MACHINE DATA		MACHINE DATA		MACHINE DATA		MACHINE DATA	
	CUR. AV. #B	IND. #C	CUM. AV. #B	FACT. #C	IND. #B	IND. #C	CUR. AV. #B	IND. #C	CUM. AV. #B	IND. #C
A1	4.2	86.0	38.0	99.7	39.4	101.0	11.4	92.5	101	
B1	6.4	86.0	38.3	99.2	38.9	100.2	10.8	95.6	96	
C1	4.3	86.0	37.4	99.2	38.8	100.0	10.8	98.2	103	
D1	5.7	103.6	37.5	100.5	38.4	100.3	11.3	105.4	99	
E1	5.7	100.0	38.2	100.0	38.3	99.7	11.6	100.9	97	
H1	2.7	100.0	36.8	99.7	38.4	99.7	11.1	95.7	97	
I1	4.6	86.0	36.9	99.7	38.8	100.8	10.8	100.9	104	
J1	5.4	114.0	37.8	99.7	38.2	100.0	11.3	96.0	102	
L1	4.8	108.0	37.7	99.7	38.7	100.6	10.6	96.0	102	
M1	4.4	101.7	36.9	99.7	38.9	101.0	11.0	98.2	98	
N1	5.9	101.7	38.4	99.7	38.3	100.4	10.4	97.9	108	
O1	5.1	106.2	38.4	101.0	38.5	99.7	9.9	90.0	94	
S1	4.8	102.0	39.0	100.0	39.1	100.0	10.7	102.8	96	
U1	3.8	108.0	38.7	102.9	39.1	101.0	11.2	101.8	95	
V1	4.1	108.0	37.0	99.7	39.0	101.0	11.4	96.0	105	
W1	5.4	108.0	37.6	99.7	38.4	101.0	11.2	96.0	89	
X1	4.0	93.8	37.6	99.7	38.6	100.0	11.3	96.0	92	
Z1	4.0	93.8	38.9	99.7	39.0	100.0	10.7	96.0	95	
A2	4.5	90.0	37.6	99.2	39.0	100.0	10.7	100.0	97	
B2	5.5	6.0	37.5	98.9	37.5	96.9	11.4	103.6	97	
C2	5.4	100.0	37.7	99.5	38.4	97.6	11.1	98.2	95	
D2	5.4	100.0	37.8	99.5	38.7	100.0	11.0	99.1	95	
E2	5.7	98.3	38.0	100.3	38.8	99.7	10.5	104.8	110	
F2	4.6	93.9	38.1	100.0	38.1	100.0	10.5	96.5	96	
G2	4.6	93.9	38.4	100.5	38.5	99.5	11.1	98.2	99	
H2	4.5	88.2	38.2	101.3	38.5	100.5	11.3	100.9	99	
I2	5.1	88.2	37.6	99.2	38.8	100.8	10.9	95.6	95	
L2	4.1	87.2	37.3	99.5	38.6	100.0	11.4	102.7	98	
M2	4.5	84.9	37.2	99.2	38.6	100.0	11.3	104.2	98	
N2	4.5	113.4	37.5	98.2	38.5	100.0	10.6	97.2	92	
O2	4.5	113.4	38.2	99.7	38.5	99.7	10.9	96.4	92	
P2	6.3	94.0	38.2	100.8	38.5	99.7	10.3	92.8	98	
Q2	4.7	94.0	38.6	99.7	39.2	100.0	11.1	93.6	94	
R2	5.0	94.0	39.2	103.4	39.2	101.6	10.3	101.8	94	
S2	4.9	108.1	39.4	99.5	39.5	101.6	10.9	100.9	95	
V2	5.1	108.1	37.5	100.3	38.6	100.0	11.5	100.9	90	
W2	5.5	98.1	38.0	98.9	38.6	99.7	11.4	94.5	92	
X2	5.3	98.1	38.0	97.6	38.1	98.1	11.6	95.6	100	
Y2	5.8	106.0	37.1	98.0	39.0	97.7	98.4	109.1	86	
Z2	5.8	116.0	37.9	100.0	38.7	100.0	10.3	93.6	97	
A3	6.1	116.0	38.0	99.7	38.7	100.0	10.9	105.4	92	
B3	2.7	100.0	37.4	99.7	39.5	100.0	10.4	100.0	97	

FKI DATA

CUR. AV. 5.0	37.8	38.6	11.0	96
CUM. AV. 5.0	37.9	38.7	11.0	97
IND. #D 100.0	99.7	99.7	100.0	99.0

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

TABLE VII
AVERAGES OF ROUTINE MILL QUALITY CONTROL DATA FOR 42 LB FOURDRINIER KRAFT LINERBOARD
NOVEMBER, 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.	FACT. #8	IND. #C	CUR. AV.	FACT. #8	IND. #C	CUR. AV.	FACT. #8	IND. #C	CUR. AV.	FACT. #8	IND. #C	CUR. AV.	FACT. #8	IND. #C					
B1	6.6	6.7	98.5	126.9	42.0	42.0	100.0	100.7	42.5	42.5	100.0	99.8	11.3	11.6	97.4	93.4	103	103	100.0	98.1
C1	4.6	5.3	90.6	92.3	41.4	41.7	99.3	99.3	42.8	42.8	100.0	100.5	12.3	12.4	99.2	101.6	103	107	96.3	98.1
D1	5.9	5.9	100.0	113.5	41.6	41.3	100.7	99.8	42.5	42.1	101.0	99.8	12.0	12.3	97.6	99.2	103	104	99.0	98.1
E1	6.0	5.9	101.7	115.4	42.2	42.3	99.8	101.2	42.3	42.4	99.8	99.3	11.9	12.4	96.0	98.3	109	107	101.9	103.8
F1	5.6	5.4	103.7	101.7	41.5	41.5	100.0	99.5	42.5	42.5	100.0	99.8	13.2	13.2	100.0	109.1	103	104	99.0	98.1
G1	4.8	5.0	96.0	92.3	43.1	43.0	100.2	103.4	44.5	44.3	100.4	104.5	13.2	13.6	97.0	105.1	99	101	98.0	94.3
H1	2.5	3.1	80.6	48.1	40.5	40.7	99.5	97.1	42.8	42.8	100.0	100.5	12.6	12.2	103.3	104.1	110	112	98.2	104.8
I1	5.3	4.8	110.4	101.9	41.4	41.1	100.7	99.3	42.5	42.4	100.2	99.8	13.1	12.3	106.5	108.3	113	113	100.0	107.6
J1	5.8	5.8	100.0	111.5	41.7	41.5	100.5	100.0	42.6	42.4	100.5	100.0	10.9	11.7	93.2	90.1	111	106	104.7	105.7
K1	4.5	3.7	121.6	86.5	42.1	42.1	100.0	101.0	42.3	42.3	100.0	99.3	10.9	11.0	99.1	90.1	103	103	100.0	98.1
L1	5.4	5.5	98.2	103.8	41.7	41.8	99.8	100.0	42.8	42.9	99.8	100.5	12.5	12.2	102.4	103.3	106	105	101.0	101.0
M1	4.0	4.6	87.0	76.9	40.6	40.9	99.3	97.4	42.3	42.3	100.0	99.3	11.7	11.7	100.0	96.7	116	114	101.8	110.5
N1	6.3	6.3	100.0	121.2	42.2	42.1	100.2	101.2	42.3	42.2	100.2	99.3	11.8	12.2	96.7	97.5	102	106	96.2	97.1
O1	5.1	5.0	102.0	98.1	42.2	42.3	99.8	101.2	42.3	42.4	99.8	99.3	11.7	11.9	98.3	96.7	104	106	98.1	99.0
P1	6.1	5.8	105.2	117.3	41.7	41.4	100.7	100.0	42.5	42.4	100.7	99.8	11.7	11.7	100.0	96.7	103	103	100.0	98.1
Q1	4.4	4.4	43.0	43.1	43.0	43.1	43.0	43.1	43.0	43.1	43.0	43.1	12.2	12.2	96.8	99.2	104	101	103.0	99.0
R1	5.3	5.2	101.9	101.9	41.2	41.3	99.8	98.8	42.3	42.4	99.8	99.3	12.0	12.4	96.8	99.2	104	104	103.0	99.0
S1	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	11.7	101.7	98.3	106	101	105.0	101.0
T1	4.1	3.5	117.1	78.8	41.3	41.0	100.7	99.0	43.0	42.9	100.2	100.9	12.3	12.3	100.0	101.6	110	108	101.8	104.8
U1	5.4	5.2	103.8	103.8	41.5	42.0	98.8	99.5	42.6	42.2	98.6	100.0	12.3	12.6	97.6	101.6	103	102	101.0	98.1
V1	5.0	4.4	113.6	96.2	42.6	42.7	99.8	102.2	42.7	42.8	99.8	100.2	11.6	11.7	99.1	95.9	108	102	105.9	102.8
W1	4.6	4.9	93.9	88.5	41.7	41.8	99.8	100.0	43.2	43.1	100.2	101.4	12.3	12.4	99.2	101.6	106	105	101.0	101.0
X1	4.2	4.7	89.4	80.8	41.2	41.4	99.5	98.8	42.8	42.8	100.0	100.5	11.9	11.7	101.7	98.3	105	102	102.9	100.0
Y1	5.8	6.1	95.1	111.5	41.4	41.6	99.5	99.3	41.4	41.7	99.3	97.2	11.5	11.9	96.6	95.0	105	102	102.9	100.0
Z1	5.8	6.2	93.5	111.5	42.1	41.9	100.5	101.0	43.0	42.6	100.9	100.9	11.9	11.5	103.5	98.3	118	124	95.2	112.4
AA	5.8	5.8	100.0	111.5	42.1	42.0	100.2	101.0	42.2	42.1	100.2	99.1	12.6	12.6	100.0	104.1	100	106	94.3	95.2
AB	4.9	5.2	94.2	94.2	42.1	42.1	100.0	101.0	42.2	42.2	100.0	99.1	12.6	12.6	100.0	104.1	104	106	98.1	99.0
AC	5.3	4.6	115.2	101.9	41.5	41.3	100.5	99.5	42.6	42.7	99.8	100.0	11.9	12.2	97.5	98.3	114	117	97.4	108.6
AD	6.4	6.1	104.9	123.1	41.9	41.7	100.5	100.5	42.5	42.5	100.0	99.8	12.1	12.3	98.4	100.0	107	107	98.1	100.0
AE	5.8	5.6	103.6	111.5	42.7	42.8	99.8	102.4	42.8	42.9	99.8	100.5	11.7	12.4	94.4	96.7	106	108	98.1	101.0
AF	3.6	3.6	94.4	65.4	40.4	40.4	100.0	98.9	42.3	42.9	100.0	99.3	10.9	11.8	92.4	90.1	108	107	100.9	102.6
AG	5.1	5.1	100.0	98.1	41.1	41.3	99.5	98.6	42.3	42.5	99.5	99.3	12.1	12.3	98.4	100.0	103	100	103.0	98.1
AH	4.3	4.8	89.6	82.7	41.4	41.2	100.5	99.3	43.0	42.6	100.9	100.9	12.5	12.5	100.0	103.3	104	103	101.0	99.0
AI	5.6	5.5	101.8	107.7	41.6	41.2	101.0	99.8	42.6	42.3	100.7	100.0	12.4	12.4	100.0	102.5	100	100	100.0	95.2
AJ	4.6	5.0	92.0	88.5	41.2	41.3	99.8	98.8	42.6	42.6	100.0	100.0	11.9	11.8	100.8	98.3	102	103	99.0	97.1
AK	5.0	4.1	122.0	96.2	42.1	42.1	100.0	101.0	42.3	42.3	100.0	99.3	11.3	12.4	91.1	93.4	102	103	99.0	97.1
AL	6.1	5.9	103.4	117.3	41.6	41.6	100.0	99.8	42.3	42.5	99.5	99.3	11.3	11.5	98.3	93.4	100	101	99.0	99.2
AM	4.9	5.2	94.2	94.2	42.4	42.4	100.0	101.7	42.5	42.5	100.0	99.8	11.3	11.7	96.6	93.4	105	103	101.9	100.0
AN	6.3	6.2	101.6	121.2	41.4	41.5	99.8	99.3	42.1	42.2	99.8	98.8	12.8	12.5	102.4	105.8	102	102	99.0	96.2
AO	4.6	5.2	88.5	88.5	41.4	41.9	99.8	98.8	42.8	43.1	99.3	100.5	11.8	12.0	95.8	95.0	107	109	98.2	101.9
AP	4.9	5.0	98.0	94.2	41.3	41.3	100.0	99.0	42.6	42.5	100.2	100.0	12.6	12.6	100.0	104.1	101	102	99.0	96.2
AQ	5.6	5.7	98.2	107.7	41.8	41.8	100.0	100.2	42.8	42.8	100.0	100.5	11.4	11.5	99.1	94.2	111	113	98.2	105.7
AR	5.3	5.5	96.4	101.9	42.0	42.0	100.0	100.7	42.1	42.1	100.0	98.8	12.1	12.5	96.8	100.0	103	104	99.0	98.1
AS	5.6	5.6	100.0	107.7	41.9	41.7	100.5	100.5	42.9	42.8	100.2	100.7	12.4	12.4	100.0	102.5	100	101	99.0	95.2
AT	6.7	6.6	101.5	128.8	41.9	42.0	99.8	100.5	42.4	42.6	99.5	99.5	10.9	11.8	92.4	90.1	105	104	101.0	100.0
AU	3.8	3.8	100.0	73.1	42.1	42.6	98.8	101.0	42.5	43.0	98.8	99.8	11.9	12.0	99.2	98.3	100	101	99.0	99.2
AV	3.2	3.3	97.0	61.5	41.2	40.9	100.7	98.8	43.3	42.9	100.9	101.6	11.4	11.6	98.3	94.2	102	104	98.1	97.1

FKI DATA	CUR. AV.	IND.
5-2	42.7	105
5-2	41.7	105
100.0	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 42 LB FOURDRINIER KRAFT LINERBOARD
DECEMBER, 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											
	CUR. AV.	IND. #B	CUR. AV.	IND. #C	CUR. AV.	IND. #C	CUR. AV.	IND. #B	CUR. AV.	IND. #C										
B1	6.7	100.0	128.8	41.9	42.0	99.8	100.5	42.4	42.5	99.8	99.5	11.4	11.6	98.3	94.2	103	100.0	98.1		
C1	4.5	5.2	86.5	41.1	41.6	98.8	98.6	42.6	42.8	99.5	100.0	12.1	12.3	98.4	100.0	110	107	102.8	104.8	
D1	5.8	5.9	98.3	111.5	41.6	41.3	100.7	99.8	42.5	42.2	100.7	99.8	12.2	12.2	100.0	100.8	104	104	100.0	99.0
E1	5.9	5.9	100.0	113.5	42.2	42.2	100.0	101.2	42.3	42.4	99.8	99.3	11.9	12.4	96.0	98.3	107	107	100.0	101.9
F1	5.7	5.4	105.6	109.6	41.6	41.5	100.2	99.8	42.6	42.5	100.2	100.0	13.4	13.2	101.5	110.7	103	104	99.0	98.1
G1	4.9	3.9	109.7	65.4	40.9	40.7	100.5	98.1	42.9	42.8	100.2	100.7	12.4	12.3	100.6	102.5	113	111	101.8	107.6
H1	4.8	4.8	100.0	92.3	41.1	41.1	100.0	98.6	42.5	42.4	100.2	99.8	12.4	12.4	100.0	102.5	107	112	95.5	101.9
I1	5.4	5.9	91.5	103.8	41.4	41.6	99.5	99.3	42.5	42.4	100.2	99.8	10.9	11.7	93.2	90.1	108	106	101.9	102.8
K1	4.2	3.8	110.5	80.8	42.1	42.1	100.0	101.0	42.3	42.3	100.0	99.3	11.1	11.0	100.9	91.7	107	103	103.9	101.9
L1	5.2	5.5	98.5	100.0	41.8	41.8	100.0	100.2	43.0	42.8	100.5	100.9	12.6	12.2	103.3	104.1	106	105	101.0	101.0
M1	4.6	4.6			40.8	40.8			42.3				11.7				114			
Q1	6.2	6.3	98.4	119.2	42.2	42.1	100.2	101.2	42.3	42.2	100.2	99.3	11.4	12.1	94.2	94.2	104	105	99.0	99.0
S1	4.8	5.1	94.1	92.3	42.2	42.3	99.8	101.2	42.3	42.4	99.8	99.3	12.1	11.9	101.7	100.0	104	106	98.1	99.0
T1	5.5	5.8	94.8	105.8	41.3	41.4	99.8	99.0	42.3	42.2	100.2	99.3	11.6	11.7	98.1	95.9	102	103	99.0	97.1
U1	4.4	4.4			43.0	43.0			43.1				12.2				113			
V1	5.6	5.3	105.7	107.7	41.3	41.3	100.0	99.0	42.3	42.4	99.8	99.3	11.9	12.3	96.7	98.3	106	102	103.9	101.0
W1	5.5	5.5	100.0	105.8	41.4	41.4	100.0	99.3	42.4	42.4	100.0	99.5	11.9	11.7	101.7	98.3	104	102	102.0	99.0
X1	3.8	3.6	105.6	73.1	41.1	41.0	100.2	98.6	42.9	42.9	100.0	100.7	11.9	12.3	98.7	98.3	109	108	100.9	103.8
Y1	5.4	5.3	101.9	103.8	41.3	41.9	98.6	99.0	42.4	43.0	98.6	99.5	12.7	12.6	100.8	105.0	102	102	100.0	97.1
Z1	4.4	4.4	115.9	98.1	42.7	42.7	100.0	102.4	42.8	42.8	100.0	100.5	12.0	11.7	102.6	99.2	109	102	106.9	103.8
A2	4.8	4.9	98.0	92.3	41.7	41.8	99.8	100.0	43.1	43.1	100.0	101.2	12.5	12.4	100.8	103.3	106	105	101.0	101.0
B2	3.6	4.6	78.3	69.2	40.9	41.4	98.8	98.1	42.8	42.8	100.0	100.6	11.6	11.7	99.1	95.9	104	103	101.0	99.0
C2	5.8	6.1	95.1	111.5	41.4	41.5	99.8	99.3	41.4	41.6	99.5	97.2	11.9	11.8	100.8	98.3	103	102	101.0	98.1
D2	6.3	6.2	101.6	121.2	41.7	42.0	99.3	100.0	42.4	42.7	99.3	99.5	11.8	11.5	102.6	97.5	116	124	93.5	110.5
E2	5.8	5.8	100.0	111.5	41.8	42.0	99.5	100.2	41.9	42.1	99.5	98.4					105	105	100.0	100.0
F2	4.8	5.1	94.1	92.3	42.1	42.1	100.0	101.0	42.2	42.2	100.0	99.1	12.6	12.5	100.0	104.1	104	106	98.1	99.0
G2	5.6	4.7	119.1	107.7	41.4	41.3	100.2	99.3	42.4	42.7	99.3	99.5	11.8	12.2	98.7	97.5	107	117	91.4	101.9
H2	6.2	6.1	101.6	119.2	41.8	41.7	100.2	100.2	42.5	42.5	100.0	99.8	11.9	12.3	96.7	98.3	103	107	96.3	98.1
I2	5.6	5.6			42.8	42.8			42.9				12.1				108			
J2	3.6	3.6	100.0	69.2	40.4	40.4	100.0	96.9	42.3	42.3	100.0	99.3	10.8	11.7	92.3	89.2	105	106	99.0	100.0
K2	5.1	5.1	100.0	98.1	41.4	41.3	100.2	99.3	42.6	42.5	100.2	100.0	12.6	12.3	102.4	104.1	100	100	100.0	95.2
L2	4.2	4.7	89.4	80.8	41.1	41.2	99.8	98.6	42.7	42.6	100.2	100.2	12.1	12.5	98.8	100.0	106	103	102.9	101.0
M2	5.7	5.5	103.6	109.6	41.7	41.3	101.0	100.0	42.7	42.3	100.9	100.2	12.6	12.4	101.6	104.1	100	100	100.0	98.2
N2	4.7	5.0	94.0	90.4	41.2	41.3	99.8	98.8	42.6	42.6	100.0	100.0	11.7	11.8	99.2	96.7	103	102	101.0	98.1
O2	4.8	4.2	114.3	92.3	42.2	42.1	100.2	101.2	42.4	42.3	100.2	99.5	11.5	12.2	94.3	95.0	105	103	101.9	100.0
Q2	6.3	5.9	106.8	121.2	41.4	41.6	99.5	99.3	42.1	42.4	99.3	98.8	11.4	11.4	100.0	94.2	100	101	99.0	95.2
S2	5.2	5.2	100.0	100.0	42.3	42.4	99.8	101.4	42.4	42.5	99.8	99.5	11.2	11.7	93.7	92.6	104	103	101.0	99.0
T2	6.1	6.2	98.4	117.3	41.7	41.5	100.5	100.0	42.5	42.2	100.7	99.8	12.6	12.5	100.8	104.1	102	102	100.0	97.1
U2	6.4	5.1	86.3	84.6	41.2	41.8	98.6	98.8	42.7	43.1	99.1	100.2	11.6	11.9	97.5	95.9	113	109	103.7	107.6
V2	4.9	5.0	98.0	94.2	41.4	41.3	100.2	99.3	42.7	42.5	100.5	100.2	12.7	12.6	100.8	105.0	100	102	98.0	95.2
W2	5.1	5.6	91.1	98.1	41.8	41.8	100.0	100.2	43.0	42.8	100.5	100.9	11.5	11.5	100.0	95.0	117	112	104.5	111.4
Y2	5.5	5.5	100.0	105.8	42.0	42.0	100.0	100.7	42.1	42.1	100.0	98.8	12.3	12.5	98.4	101.6	102	104	98.1	97.1
Z2	5.6	5.6	100.0	107.7	41.7	41.7	100.0	100.0	42.7	42.8	99.8	100.2	12.6	12.4	101.6	104.1	98	101	97.0	93.3
A3	6.7	6.6	101.5	128.8	41.9	42.0	99.8	100.5	42.4	42.5	99.8	99.5	11.1	11.7	94.9	91.7	105	104	101.0	100.0
B3	4.1	3.8	107.9	78.8	42.2	42.6	99.1	101.2	42.6	43.0	99.1	100.0	12.0	12.0	100.0	99.2	102	101	101.0	97.1
C3	3.0	3.2	93.8	57.7	40.8	40.9	99.8	97.8	42.9	43.0	99.8	100.7	11.5	11.5	100.0	95.0	104	104	100.0	99.0

FKI DATA

CUR. AV.	5.1	41.6	42.5	11.9	105
CUM. AV.	5.2	41.7	42.6	12.1	105
IND. #D	98.1	99.8	99.8	98.3	100.0

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

TABLE IX
AVERAGES OF ROUTINE MILL QUALITY CONTROL DATA FOR 69 LB FOURDRINIER KRAFT LINERBOARD
NOVEMBER, 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. #B	FACT. IND. #C	CUR. AV. #B	IND. #C	CUR. AV. #B	IND. #C	CUR. AV. #B	IND. #C	CUR. AV. #B	IND. #C										
B1	7.9	8.1	97.5	133.9	69.3	69.1	100.3	101.0	69.2	68.9	100.4	99.4	19.0	19.6	96.9	96.4	143	141	101.4	100.7
C1	6.0	6.8	101.5	116.9	69.0	68.8	100.3	100.6	69.7	69.5	100.3	100.1	21.1	20.9	101.0	107.1	138	139	99.3	97.2
E1	6.1	6.1			69.5	69.7			69.7	69.7			20.0				147	147		
H1	3.7	3.7	100.0	62.7	67.5	67.4	100.1	98.4	70.5	70.4	100.1	101.3	21.3	19.9	107.0	108.1	149	148	100.7	104.9
J1	7.1	6.9	102.9	120.3	68.8	68.7	100.1	100.3	69.4	69.4	100.0	99.7	18.4	19.0	96.8	93.4	150	148	101.4	105.6
K1	5.4	5.1	105.9	91.5	69.0	69.1	99.8	100.6	69.3	69.4	99.8	99.6	18.7	18.8	99.5	94.9	139	138	100.7	97.9
L1	6.7	7.3	91.8	113.6	68.7	68.7	100.0	100.1	69.5	69.1	100.6	99.8	20.3	19.6	103.6	103.0	145	145	100.0	102.1
M1	6.1	6.2	98.4	103.4	68.5	68.5	100.0	99.8	69.7	69.7	100.0	100.1	19.7	19.5	101.0	100.0	141	144	97.9	99.3
Q1	7.0	6.8	102.9	118.6	69.1	69.2	99.8	100.7	69.3	69.4	99.8	99.6	19.2	19.9	96.5	97.5	139	144	96.5	97.9
S1	6.1	6.4	95.3	103.4	69.2	69.7	99.3	100.9	69.4	69.9	99.3	99.7	19.8	19.4	102.1	100.5	138	138	100.0	97.2
T1	7.2				69.1				69.6				19.7				142			
U1	5.3				69.9				70.1				19.9				155			
W1	6.7	6.5	103.1	113.6	68.6	68.5	100.4	100.3	69.6	69.5	100.1	100.0	21.1	20.8	101.4	107.1	137	135	101.5	96.5
X1	4.0	4.2	95.2	67.8	67.4	67.7	99.6	98.2	70.2	70.3	99.8	100.9	20.3	20.7	98.1	103.0	142	145	97.9	100.0
Z1	5.5	4.7	117.0	93.2	69.5	69.5	100.0	101.3	69.7	69.7	100.0	100.1	18.4	18.5	99.4	93.4	147	143	102.8	103.5
A2	7.0				68.4				69.0				21.0				150			
B2	4.5	5.1	88.2	76.3	67.8	68.1	99.6	98.8	70.2	70.1	100.1	100.9	18.6	18.4	101.1	94.4	143	140	102.1	100.7
C2	6.3	6.5	96.9	106.8	68.2	68.3	99.8	99.4	68.2	68.5	99.6	98.0	19.0	19.5	97.4	96.4	142	138	102.9	100.0
D2	6.9	6.7	103.0	116.9	69.5	69.1	100.6	101.3	70.2	69.9	100.4	100.9	19.5	18.5	105.4	96.4	150	158	94.9	105.6
E2	5.2	5.6	92.8	88.1	69.3	69.2	100.1	101.0	69.5	69.4	100.1	99.8	20.4	19.9	102.5	103.6	140	141	99.3	98.6
G2	6.3	5.4	116.7	108.8	67.9	68.2	99.6	99.0	69.0	70.0	98.6	99.1	18.9	19.6	96.4	95.9	147	152	96.7	103.5
H2	6.4	6.3	101.6	108.5	68.6	68.5	100.1	100.0	69.6	69.6	100.0	100.0	19.3	19.6	98.5	98.0	143	144	99.3	100.7
I2	6.4	6.1	104.9	108.5	69.6	69.7	99.8	101.4	69.8	69.9	99.8	100.3	19.5	20.5	95.1	99.0	144	144	100.0	101.4
J2	3.9	3.9	100.0	66.1	66.5	66.5	100.0	98.9	69.3	69.3	100.0	99.6	18.8	19.4	96.9	95.4	141	144	97.9	99.3
L2	5.0	5.5	90.9	84.7	67.6	67.9	99.6	98.5	69.6	69.6	100.0	100.0	19.9	20.1	99.0	101.0	139	139	100.0	97.9
M2	6.0	5.9	101.7	101.7	67.7	68.1	99.4	98.7	69.1	69.5	99.4	99.3	20.5	20.9	98.1	104.1	133	132	100.8	93.7
O2	7.6	5.6	135.7	128.8	69.0	68.5	100.7	100.6	69.1	70.1	98.6	99.3	18.8	19.3	97.4	95.4	134	134	100.0	94.4
S2	5.5	5.8	94.8	93.2	69.3	69.3	100.0	101.0	69.5	69.5	100.0	99.8	19.5	19.9	98.0	99.0	139	136	102.2	97.9
T2	7.3	7.2	101.4	123.3	68.6	68.8	99.7	100.0	68.9	69.2	99.6	99.0	21.6	21.2	101.9	109.6	135	136	99.3	95.1
U2	5.5	5.8	94.8	93.2	68.6	68.4	100.3	100.0	70.3	70.0	100.4	101.0	19.7	20.5	96.1	100.0	142	138	102.9	100.0
W2	5.8	5.6	103.6	98.3	69.1	68.8	100.4	100.7	70.6	70.4	100.3	101.4	19.3	19.5	99.0	98.0	141	148	95.3	99.3
Y2	5.7	5.6	101.8	98.6	68.9	68.9	100.0	100.4	69.1	69.1	100.0	99.3	19.2	19.3	99.5	97.5	145	145	100.0	102.1
Z2	6.3	6.4	98.4	108.8	69.1	69.1	100.0	100.7	70.2	70.2	100.0	100.9	21.2	20.9	101.4	107.6	137	140	97.8	96.5
B3	4.5	4.3	104.6	76.3	68.7	69.1	99.4	100.1	69.3	69.7	99.4	99.6	19.5	19.3	101.0	99.0	148	143	103.5	104.2
C3	6.1	6.0	101.7	103.4	68.6	68.5	100.1	100.0	69.8	69.8	100.0	100.3	17.5	18.9	92.6	88.8	140	140	100.0	98.6

FKI DATA

CUR. AV. 5.9	68.6	69.6	19.6	142
CUM. AV. 5.9	68.6	69.6	19.7	142
IND. #D 100.0	100.0	100.0	99.5	100.0

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

TABLE X
AVERAGES OF ROUTINE MILL QUALITY CONTROL DATA FOR 69 LB FOURDRINIER KRAFT LINERBOARD
DECEMBER, 1976

CODE	MOISTURE CONTENT, PERCENT		BASIS WT., LB / M SQ FT		ADJ. BASIS WT.,*A LB / M SQ FT		MACHINE DATA		IND. CUR. AV. #B		IND. CUR. AV. #B		CALIPER, PT		MACHINE DATA		IND. CUR. AV. #B		IND. CUR. AV. #B		BURSTING STRENGTH, P S I G	
	CUR. AV. #A	IND. #B	CUR. AV. #A	IND. #B	CUR. AV. #A	IND. #B	CUR. AV. #A	IND. #B	CUR. AV. #A	IND. #B	CUR. AV. #A	IND. #B	CUR. AV. #A	IND. #B	CUR. AV. #A	IND. #B	CUR. AV. #A	IND. #B	CUR. AV. #A	IND. #B	CUR. AV. #A	IND. #B
B1	7.9	8.1	97.5	133.9	69.1	69.1	100.0	100.7	69.0	69.0	100.0	99.1	19.3	19.5	99.0	98.0	141	141	100.0	99.3		
C1	6.0	6.8	102.9	118.6	69.0	68.6	100.3	100.6	69.6	69.5	100.1	100.0	21.1	20.8	101.4	107.1	140	139	100.7	98.6		
E1	6.0	6.7	102.9	118.6	69.0	68.6	100.3	100.6	69.6	69.5	100.1	100.0	21.1	20.8	101.4	107.1	140	139	100.7	98.6		
H1	3.7	3.7	94.2	110.2	68.3	68.7	99.4	99.6	69.3	69.4	99.8	99.6	18.3	19.0	96.3	92.9	150	148	101.4	105.6		
J1	6.5	6.9	94.2	110.2	68.3	68.7	99.4	99.6	69.3	69.4	99.8	99.6	18.3	19.0	96.3	92.9	150	148	101.4	105.6		
K1	5.3	5.2	101.9	89.8	69.0	69.1	99.8	100.6	69.3	69.4	99.8	99.6	18.8	18.8	100.0	95.4	146	138	105.8	102.8		
L1	6.7	7.3	91.8	113.6	68.7	68.7	100.0	100.1	69.5	69.1	100.6	99.8	20.6	19.6	105.1	104.6	144	145	99.3	101.4		
M1	5.8	6.2	93.5	98.3	68.1	68.5	99.4	99.3	69.6	69.7	99.8	100.0	19.6	19.6	100.0	99.5	146	144	101.4	102.8		
N1	6.7	6.8	98.5	113.6	69.1	69.2	99.8	100.7	69.3	69.4	99.8	99.6	19.3	19.9	97.0	98.0	143	143	100.0	100.7		
S1	6.2	6.5	95.4	105.1	69.2	69.6	99.4	100.9	69.4	69.8	99.4	99.7	20.0	19.4	103.1	101.5	139	138	100.7	97.9		
V1	7.2	7.2	95.4	105.1	69.2	69.6	99.4	100.9	69.4	69.8	99.4	99.7	20.0	19.4	103.1	101.5	139	138	100.7	97.9		
W1	5.3	5.3	109.1	122.0	68.6	68.6	100.0	100.0	69.1	69.5	99.4	99.3	21.1	20.8	101.4	107.1	136	135	100.7	95.8		
X1	3.9	4.1	95.1	66.1	67.3	67.6	99.6	98.1	70.1	70.3	99.7	100.7	21.0	20.7	101.4	106.6	144	144	100.0	101.4		
Z1	5.3	4.8	110.4	89.8	69.9	69.6	100.4	101.9	70.1	69.7	100.6	100.7	18.0	18.5	97.3	91.6	159	142	112.0	112.0		
A2	7.0	7.0	100.0	100.0	68.4	68.4	100.0	100.0	69.0	69.0	100.0	100.0	21.0	21.0	100.0	100.0	150	150	100.0	100.0		
B2	4.4	5.0	88.0	74.6	67.6	68.0	99.4	98.5	70.1	70.1	100.0	100.7	18.0	18.4	97.8	91.4	142	140	101.4	100.0		
C2	6.1	6.5	93.8	103.4	67.5	68.3	98.8	98.4	67.5	68.4	98.7	97.0	19.2	19.5	98.5	97.5	140	139	100.7	98.6		
D2	6.8	6.8	100.0	115.2	69.0	69.2	99.7	100.6	69.8	69.9	99.8	100.3	19.7	18.6	105.9	100.0	153	158	96.8	107.7		
E2	6.0	6.0	100.0	100.0	68.8	68.8	100.0	100.0	69.0	69.0	100.0	100.0	21.0	21.0	100.0	100.0	146	146	100.0	100.0		
F2	5.6	5.6	100.0	94.9	69.2	69.2	100.0	100.9	69.4	69.4	100.0	99.7	19.9	20.0	99.5	101.0	141	141	100.0	99.3		
G2	6.2	5.5	112.7	105.1	68.2	68.2	100.0	99.4	69.4	69.9	99.3	99.7	19.2	19.6	98.0	97.5	145	151	96.0	102.1		
H2	6.3	6.3	100.0	106.8	68.6	68.5	100.1	100.0	69.7	69.6	100.1	100.1	19.3	19.6	98.5	98.0	143	144	99.3	100.7		
I2	6.4	6.2	103.2	108.5	69.6	69.7	99.8	101.4	69.8	69.9	99.8	100.3	20.1	20.5	98.0	102.0	142	144	98.6	100.0		
J2	4.1	3.9	105.1	69.5	66.5	66.5	100.0	96.9	69.2	69.3	99.8	99.4	18.5	19.3	95.8	93.9	143	142	100.7	100.7		
L2	5.1	5.4	108.5	86.4	68.1	68.0	100.1	99.3	70.1	69.7	100.6	100.7	20.0	20.1	99.5	101.5	139	139	100.0	97.9		
M2	6.4	5.9	108.5	108.5	68.0	68.1	99.8	99.1	69.0	69.5	99.3	99.1	21.0	20.8	101.0	106.6	134	132	101.5	94.4		
Q2	6.7	5.7	117.5	113.6	68.3	68.6	99.6	99.6	69.1	70.1	98.6	99.3	18.6	19.2	96.9	94.4	132	134	98.5	93.0		
S2	6.0	5.8	103.4	101.7	69.5	69.3	100.3	101.3	69.7	69.5	100.3	100.1	19.2	19.9	96.5	97.5	136	136	100.0	95.8		
V2	7.1	7.2	98.6	120.3	69.4	68.7	101.0	101.2	70.0	69.2	101.2	100.6	21.5	21.2	101.4	109.1	132	136	97.0	93.0		
W2	5.3	5.7	93.0	89.8	68.3	68.5	99.7	99.6	70.1	70.0	100.1	100.7	20.0	20.5	97.6	101.5	144	138	104.3	101.4		
X2	5.4	5.0	94.4	91.5	68.8	68.8	100.0	100.3	70.6	70.4	100.3	101.4	20.4	19.5	104.6	103.6	147	147	100.0	103.5		
Y2	5.5	5.6	98.2	93.2	68.9	68.9	100.0	100.4	69.1	69.1	100.0	99.3	19.5	19.3	101.0	99.0	142	145	97.9	100.0		
Z2	6.4	6.4	100.0	108.5	69.1	69.1	100.0	100.7	70.1	70.2	99.8	100.7	21.9	21.0	104.3	111.2	137	139	98.6	96.5		
B3	4.6	4.3	107.0	78.0	69.1	69.0	100.1	100.7	69.7	69.6	100.1	100.1	19.7	19.3	102.1	100.0	144	144	100.0	101.4		
C3	4.5	5.9	76.3	76.3	67.5	68.5	98.5	98.4	69.9	69.8	100.1	100.4	17.6	18.8	93.6	89.3	139	140	99.3	97.9		

FKI DATA
CUR. AV. 5.9 68.6 69.6 19.7 142
CUM. AV. 5.9 68.6 69.6 19.7 142
IND. #D 100.0 100.0 100.0 100.0 100.0

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

TABLE XI
AVERAGES OF ROUTINE MILL QUALITY CONTROL DATA FOR 90 LB FOURDRINIER KRAFT LINERBOARD
NOVEMBER, 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.	IND. #B	CUM. #B	FACT. #C	CUR. AV.	IND. #C	CUM. #B	FACT. #B	CUR. AV.	IND. #C	CUM. #B	FACT. #B	CUR. AV.	IND. #C	CUM. #B	FACT. #B				
J1	7.0	98.6	116.7	89.9	89.8	100.1	100.3	90.7	90.5	100.2	99.8	24.1	24.6	98.0	94.1	183	179	102.2	107.0	
L1	6.8	7.6	89.5	113.3	89.6	89.7	99.9	100.0	90.6	89.9	100.8	99.7	25.6	25.2	101.6	100.0	176	172	102.3	102.9
M1	7.1	7.1	100.0	118.3	90.7	90.4	100.3	101.2	91.4	91.0	100.4	100.6	26.1	25.4	102.8	102.0	167	169	98.8	97.7
X1	4.4				88.4				91.7			26.2					179			
Z1	5.3	4.4	120.4	88.3	89.7	90.6	99.0	100.1	90.0	90.9	99.0	99.0	24.1	24.2	99.6	94.1	176	165	106.7	102.9
D2	6.7	7.0	95.7	111.7	90.8	90.2	100.7	101.3	91.9	91.0	101.0	101.1	25.8	24.3	106.2	100.8	181	184	98.4	105.8
G2	5.6	5.4	103.7	93.3	88.8	89.1	99.7	99.1	90.9	91.4	99.4	100.0	25.9	26.1	99.2	101.2	173	180	98.1	101.2
H2	6.4	6.8	94.1	106.7	89.3	90.1	99.1	99.7	90.6	91.1	99.4	99.7	25.4	26.2	98.9	99.2	178	173	102.9	104.1
L2	6.7	6.3	106.3	111.7	91.3	90.9	100.4	101.9	91.6	91.2	100.4	100.8	25.9	27.1	95.6	101.2	172	171	100.6	100.6
J2	3.8				86.6				90.3			26.2					164			
L2	5.3	5.3	100.0	88.3	88.8	89.0	99.8	99.1	91.2	91.4	99.8	100.3	25.8	26.0	99.2	100.8	166	164	100.0	97.1
M2	6.1				88.0				89.6			27.2					162			
Q2	5.0				87.2				89.8			24.4					155			
S2	5.8	6.2	93.5	96.7	89.9	90.4	99.4	100.3	90.2	90.7	99.4	99.2	26.7	26.5	100.8	104.3	160	166	98.4	93.6
M2					89.8				91.2			25.7					166			
Y2	5.3	5.6	94.6	88.3	89.4	89.6	99.8	99.8	89.7	90.0	99.7	98.7	25.0	25.1	99.6	97.6	162	170	95.3	94.7
C3	6.0	6.1	98.4	100.0	89.1	89.5	99.6	99.4	90.9	91.1	99.8	100.0	23.9	24.5	97.6	93.4	164	164	100.0	95.9

FKI DATA

CUR. AV.	6.2	89.8	90.8	25.4	172
CUM. AV.	6.0	89.6	90.9	25.6	171
IND. #D	103.3	100.2	99.9	99.2	100.6

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

TABLE XII
AVERAGES OF ROUTINE MILL QUALITY CONTROL DATA FOR 90 LB FOURDRINIER KRAFT LINERBOARD
DECEMBER, 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											
	CUR. AV.	IND. #C	CUR. AV.	IND. #C	CUR. AV.	IND. #C	CUR. AV.	IND. #C	CUR. AV.	IND. #C										
J1	6.7	7.1	94.4	111.7	89.2	89.8	99.3	99.6	90.3	90.5	99.8	99.4	23.9	24.6	97.2	93.4	172	180	95.6	100.6
L1	6.8	7.5	90.7	113.3	89.8	89.7	100.1	100.2	90.8	90.0	100.9	100.0	26.4	25.2	104.8	103.1	171	172	99.4	100.0
N1	6.7	7.1	94.4	111.7	90.6	90.4	100.2	101.1	91.7	91.1	100.6	101.0	25.1	25.5	98.4	96.0	169	169	100.0	98.8
X1	4.2	4.3	97.7	70.0	86.2	86.4	99.8	98.4	91.6	91.7	99.9	100.9	26.6	26.3	101.1	103.9	175	178	98.3	102.3
Z1	5.3	4.5	117.8	88.3	91.2	90.5	100.8	101.8	91.5	90.8	100.8	100.8	23.6	24.3	97.1	92.2	191	166	115.1	111.7
D2	6.3	7.0	90.0	105.0	89.2	90.3	98.8	99.6	90.6	91.1	99.4	99.8	25.3	24.5	103.3	98.6	180	163	98.4	105.3
G2	6.0	5.3	113.2	100.0	89.1	89.0	100.1	99.4	90.9	91.4	99.4	100.1	25.5	26.1	97.7	98.6	174	180	96.7	101.8
H2	6.6	6.8	97.0	110.0	89.9	90.0	98.9	100.3	91.1	91.0	100.1	100.3	26.2	26.1	100.4	102.3	176	173	101.7	102.9
I2	6.3	6.4	98.4	105.0	90.9	90.9	100.0	101.4	91.2	91.2	100.0	100.4	26.7	27.1	98.5	104.3	169	172	98.2	98.8
J2	3.9	3.8	102.6	85.0	86.7	86.6	100.1	96.8	90.3	90.3	100.0	99.4	25.1	26.2	95.8	98.0	158	163	96.9	92.4
L2	5.5	5.3	103.8	91.7	88.8	88.8	100.0	99.1	91.0	91.2	99.8	100.2	25.4	25.9	98.1	98.2	166	167	99.4	97.1
M2	6.1				88.0			89.6					27.2				162			
Q2	7.7	5.0	154.0	128.3	88.2	87.2	101.1	98.4	88.3	89.8	98.3	97.2	24.6	24.4	100.8	96.1	168	155	108.4	98.2
S2	6.2	6.2	100.0	103.3	90.3	90.3	100.0	100.8	90.6	90.6	100.0	99.8	25.4	26.6	95.5	99.2	159	166	95.8	93.0
W2	6.3				89.8			91.3					25.9				165			
Y2	5.8	5.6	103.6	96.7	88.4	89.6	98.7	98.7	88.7	89.9	98.7	97.7	26.3	25.3	104.0	102.7	169	168	100.6	98.6
C3	5.0	6.1	82.0	83.3	87.9	89.4	98.3	98.1	90.5	91.1	99.3	99.7	24.7	24.4	101.2	96.5	172	164	104.9	100.6

FK1 DATA
CUR. AV. 5.9 89.2 90.6 171
CUM. AV. 6.0 89.6 90.8 171
IND. #D 98.3 99.6 99.8 100.0

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

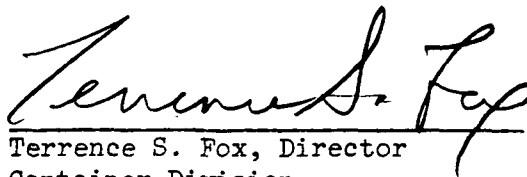
Data submitted by the participating mills relative to conditioning and testing environments are summarized in Table XIII. The procedures used in calculating adjusted basis weight, cumulative machine averages, machine factors, machine indexes, and F.K.B.G. indexes are described in the Appendix.

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 XIII
DATA ON CONDITIONING AND TESTING ENVIRONMENTS
NOVEMBER AND DECEMBER, 1976

Code	Conditioning Environment				Testing Environment
	Are Quality Samples Conditioned Before Testing?	Time	Procedure		Are Quality Samples Tested Under Controlled Conditions of Temperature & Humidity?
			Temp., °F	RH, %	
A1	No	--	--	--	Yes: 73 ± 2°F; 50 ± 2% RH
B1	No	--	--	--	Yes: 73 ± 2°F; 50 ± 2% RH
C1	No	--	--	--	Yes: 73 ± 3.5°F; 50 ± 2% RH
D1	No	--	--	--	Yes: 73 ± 2°F; 50 ± 2% RH
E1	No	--	--	--	Yes: 73 ± 3°F; 50 ± 2% RH
F1	No	--	--	--	No
G1	No	--	--	--	Yes: 72 ± 2.5°F; 50 ± 2% RH
H1	No	--	--	--	No
I1	No	--	--	--	No
J1	No	--	--	--	Yes: 72 ± 2°F; 50 ± 1% RH
K1	No	--	--	--	Yes: 73 ± 3°F; 50 ± 2% RH
L1	No	--	--	--	No
M1	No	--	--	--	No
N1	No	--	--	--	No
O1	No	--	--	--	No
P1	Yes	20 min	--	--	Yes: 72 ± 2°F; 50 ± 2% RH
Q1	No	--	--	--	No
R1	Yes	10 min	--	--	Yes: 73 ± 2°F; 50 ± 2% RH
S1	No	--	--	--	Yes: 70 ± 2°F; 50 ± 2% RH
T1	No	--	--	--	No
U1	No data submitted for November and December				
V1	No	--	--	--	No
W1	No	--	--	--	Yes: 73 ± 4°F; 50 ± 10% RH
X1	No	--	--	--	No
Y1	No	--	--	--	No
Z1	No	--	--	--	No
A2	No	--	--	--	No
B2	No	--	--	--	No
C2	Yes	15 min	--	--	Yes: 73 ± 2°F; 50 ± 1% RH
D2	No	--	--	--	Yes: 73 ± 2°F; 50 ± 2% RH
E2	No	--	--	--	No
F2	No	--	--	--	Yes: 73 ± 3°F; 50 ± 2% RH
G2	No	--	--	--	No
H2	No	--	--	--	No
I2	No	--	--	--	Yes: 73 ± 3°F; 50 ± 2% RH
J2	No	--	--	--	No
K2	No	--	--	--	Yes: 73 ± 4°F; 50 ± 10% RH
L2	No	--	--	--	No
M2	Yes	10 min	--	--	Yes: 73 ± 2°F; 50 ± 2% RH
N2	No	--	--	--	No
O2	No	--	--	--	Yes: 73 ± 3°F; 50 ± 2% RH
P2	No data submitted for November and December				
Q2	No	--	--	--	No
R2	No data submitted for November and December				
S2	No	--	--	--	Yes: 75 ± 5°F; 50 ± 5% RH
T2	No	--	--	--	No
U2	No	--	--	--	Yes: 73 ± 3.5°F; 50 ± 2% RH
V2	No	--	--	--	Yes: 73 ± 3°F; 50% RH
W2	No	--	--	--	No
X2	No data submitted for November and December				
Y2	No	--	--	--	No
Z2	No	--	--	--	No
A3	No	--	--	--	Yes: 73 ± 2°F; 50 ± 2% RH
B3	Yes	--	73	50	Yes: 73 ± 2°F; 50 ± 2% RH
C3	No	--	--	--	Yes: 70 ± 2°F; 50 ± 5% RH

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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 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.