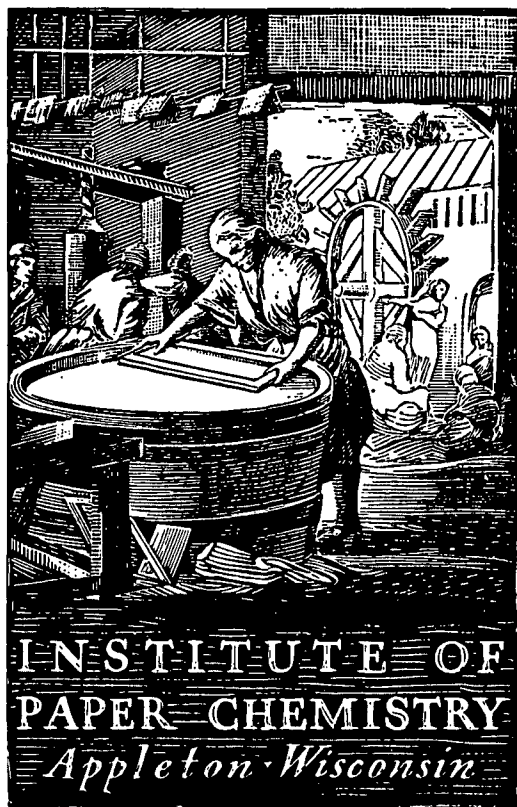


BASE-LINE

NOVEMBER-DECEMBER, 1972



CONTINUOUS BASE-LINE STUDY (MODIFIED)
(MILL LINERBOARD DATA FOR NOVEMBER AND DECEMBER, 1972)

Project 2694-1

Report Thirty-six
A Progress Report
to

FOURDRINIER KRAFT BOARD INSTITUTE, INC.

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

February 21, 1973

BASE-LINE
NOVEMBER-DECEMBER, 1972

THE INSTITUTE OF PAPER CHEMISTRY
Appleton, Wisconsin

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(MILL LINERBOARD DATA FOR NOVEMBER AND DECEMBER, 1972)

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THE INSTITUTE OF PAPER CHEMISTRY

Appleton, Wisconsin

CONTINUOUS BASE-LINE STUDY (MODIFIED)
(MILL LINERBOARD DATA FOR NOVEMBER AND DECEMBER, 1972)

SUMMARY

PART I: SUMMARY OF MOISTURE CONTENT DATA
(SEPTEMBER-DECEMBER, 1972)

Linerboard Grade Wt.		Moisture Content			
		September	October	November	December
26 Lb.	Max. ^a	5.9	6.2	6.0	6.0
	Min. ^a	0.4	2.4	1.7	1.7
	Av. ^b	4.0 (16)	4.9 (18)	4.5 (20)	4.3 (20)
33 Lb.	Max. ^a	5.9	5.7	6.4	5.7
	Min. ^a	1.5	2.3	2.2	2.7
	Av. ^b	4.5 (21)	4.4 (23)	4.4 (22)	4.3 (16)
38 Lb.	Max. ^a	6.2	6.6	6.6	7.0
	Min. ^a	3.3	3.0	3.2	3.4
	Av. ^b	5.2 (22)	5.0 (23)	5.0 (22)	5.0 (24)
42 Lb.	Max. ^a	7.0	7.0	7.1	7.2
	Min. ^a	3.7	3.1	3.1	3.7
	Av. ^b	5.2 (36)	5.2 (38)	5.2 (39)	5.2 (35)
69 Lb.	Max. ^a	7.7	8.0	7.6	8.3
	Min. ^a	3.9	4.1	3.6	4.6
	Av. ^b	5.9 (29)	5.8 (29)	5.9 (29)	5.9 (29)
90 Lb.	Max. ^a	8.3	8.3	8.4	8.3
	Min. ^a	3.6	3.8	4.5	4.7
	Av. ^b	6.1 (16)	6.0 (19)	6.3 (16)	6.3 (16)

^aCurrent machine average.

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

PART II: SUMMARY OF ADJUSTED BASIS WEIGHT DATA
(SEPTEMBER-DECEMBER, 1972)

Linerboard Grade Wt.		Adjusted Basis Weight, lb./M ft. ²			
		September	October	November	December
26 Lb.	Max. ^a	27.7	28.1	27.6	27.7
	Min. ^a	26.1	26.0	26.1	25.9
	Av. ^b	26.8 (17)	26.8 (18)	26.7 (21)	26.8 (20)
33 Lb.	Max. ^a	34.8	34.8	34.3	34.1
	Min. ^a	33.0	33.0	33.1	33.0
	Av. ^b	33.6 (22)	33.7 (24)	33.7 (24)	33.7 (16)
38 Lb.	Max. ^a	39.6	39.9	39.9	39.6
	Min. ^a	37.9	38.2	37.8	38.0
	Av. ^b	38.7 (22)	38.7 (23)	38.6 (22)	38.7 (24)
42 Lb.	Max. ^a	43.7	44.0	43.5	43.3
	Min. ^a	42.0	41.6	41.7	41.9
	Av. ^b	42.7 (38)	42.6 (40)	42.6 (41)	42.6 (37)
69 Lb.	Max. ^a	71.0	71.4	70.5	70.6
	Min. ^a	68.6	68.3	68.8	68.5
	Av. ^b	69.8 (31)	69.7 (31)	69.6 (30)	69.6 (30)
90 Lb.	Max. ^a	92.0	93.5	93.7	92.5
	Min. ^a	89.7	89.1	89.3	89.3
	Av. ^b	90.7 (17)	91.0 (19)	90.8 (17)	90.7 (16)

^aCurrent machine average.

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

PART III: SUMMARY OF CALIPER DATA
 (SEPTEMBER-DECEMBER, 1972)

Linerboard Grade Wt.		Caliper, pt.			
		September	October	November	December
26 Lb.	Max. ^a	9.2	9.2	9.0	9.0
	Min. ^a	7.0	7.4	7.3	7.2
	Av. ^b	7.9 (16)	7.9 (17)	7.9 (21)	7.8 (19)
33 Lb.	Max. ^a	10.7	10.8	10.8	10.7
	Min. ^a	8.7	8.9	8.8	8.6
	Av. ^b	9.6 (21)	9.8 (23)	9.8 (24)	9.7 (15)
38 Lb.	Max. ^a	11.6	11.8	12.8	11.8
	Min. ^a	9.9	9.6	9.1	9.9
	Av. ^b	10.9 (21)	10.9 (23)	10.9 (21)	10.8 (23)
42 Lb.	Max. ^a	13.0	13.9	13.2	13.1
	Min. ^a	10.4	10.8	10.9	10.6
	Av. ^b	12.0 (37)	12.1 (39)	12.0 (40)	12.0 (36)
69 Lb.	Max. ^a	22.5	21.4	23.5	21.1
	Min. ^a	17.8	17.8	17.6	17.1
	Av. ^b	19.7 (31)	19.6 (31)	19.6 (29)	19.4 (29)
90 Lb.	Max. ^a	27.7	27.7	28.3	27.2
	Min. ^a	23.8	23.0	23.2	23.4
	Av. ^b	25.6 (16)	25.4 (18)	25.8 (16)	25.1 (16)

^aCurrent machine average.

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

PART IV: SUMMARY OF BURSTING STRENGTH DATA
(SEPTEMBER-DECEMBER, 1972)

Linerboard Grade Wt.		Bursting Strength, p.s.i.g.			
		September	October	November	December
26 Lb.	Max. ^a	80	86	85	85
	Min. ^a	65	67	65	65
	Av. ^b	72 (17)	72 (18)	72 (21)	72 (20)
33 Lb.	Max. ^a	107	101	98	100
	Min. ^a	78	75	76	74
	Av. ^b	87 (22)	86 (24)	87 (24)	86 (16)
38 Lb.	Max. ^a	117	118	111	112
	Min. ^a	92	92	91	89
	Av. ^b	98 (22)	98 (24)	97 (22)	98 (24)
42 Lb.	Max. ^a	119	121	118	122
	Min. ^a	100	100	100	98
	Av. ^b	107 (38)	106 (40)	106 (41)	106 (37)
69 Lb.	Max. ^a	158	158	158	158
	Min. ^a	133	134	132	131
	Av. ^b	143 (31)	144 (31)	143 (30)	143 (30)
90 Lb.	Max. ^a	188	205	185	191
	Min. ^a	160	159	161	158
	Av. ^b	174 (17)	173 (19)	170 (17)	173 (16)

^aCurrent machine average.

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

INTRODUCTION

The continuous base-line study (modified) is a compilation of monthly averages of mill test data obtained routinely on six major grade weights of linerboard manufactured in the member mills of F.K.B.I., Inc. Mill data are included for moisture content, basis weight, caliper, and bursting strength tests made on the production of individual machines which produced at least 500 tons of one or more of the following six major grade weights during a given month: 26, 33, 38, 42, 69, and 90 lb. At the Institute, the as-reported basis weight, corresponding to the as-reported moisture content, is adjusted to a moisture content of 7.8%. Both the as-reported and the adjusted basis weight averages are included in the report.

PRESENTATION OF DATA

For the six major grade weights of linerboard referred to earlier, mill test averages for moisture content, basis weight (reported and adjusted), caliper, and bursting strength are compiled in the following tables.

Table Number	Description
I - II	Mill Test Averages on 26-lb. Linerboard
III - IV	Mill Test Averages on 33-lb. Linerboard
V - VI	Mill Test Averages on 38-lb. Linerboard
VII - VIII	Mill Test Averages on 42-lb. Linerboard
IX - X	Mill Test Averages on 69-lb. Linerboard
XI - XII	Mill Test Averages on 90-lb. Linerboard

TABLE I
AVERAGES OF ROUTINE MILL QUALITY CONTROL DATA FOR 26 LB. FOURDRINIER KRAFT LINERBOARD
NOVEMBER, 1972

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	4.9	4.0	122.5	111.4	26.8	26.4	101.5	103.1	26.9	26.5	101.5	100.4	8.1	6.9	117.4	103.8	74	77	96.1	101.4
D1	4.8	5.5	87.3	109.1	26.7	26.4	101.1	102.7	27.6	27.1	101.8	103.0	8.0	8.2	97.6	102.6	71	68	104.4	97.3
F1		5.2				26.9				27.3				7.3				66		
G1		5.0				26.4				27.2				8.0				74		
I1	6.0	5.8	103.4	136.4	26.1	26.1	100.0	100.4	26.6	26.7	99.6	99.2	8.7	9.1	95.6	111.5	71	70	101.4	97.3
J1		5.8				26.5				26.6								68		
K1	4.3	4.3	100.0	97.7	25.7	26.2	98.1	98.8	26.7	27.2	98.2	99.6	7.3	8.0	91.2	93.6	77	77	100.0	105.5
M1		3.7				26.5				26.7				7.9				75		
N1	5.8	5.8	100.0	131.8	26.0	26.1	99.6	100.0	26.6	26.6	100.0	99.2	8.4	8.2	102.4	107.7	77	80	96.2	105.5
P1	2.6	3.1	83.9	59.1	25.2	25.3	99.6	96.9	26.6	26.6	100.0	99.2	7.4	7.0	105.7	94.9	67	69	97.1	91.8
Q1					26.6	26.6	100.0	102.3	26.9	26.7	100.7	100.4	8.2	7.7	106.5	105.1	72	74	97.3	98.6
T1	3.8	3.6	105.6	86.4	25.0	25.1	99.6	96.2	26.1	26.2	99.6	97.4	7.4	7.6	97.4	94.9	75	79	94.9	102.7
V1	3.8	3.6	105.6	86.4	26.5	26.5	100.0	101.9	26.6	26.6	100.0	99.2	8.5	8.3	102.4	109.0	79	80	98.8	108.2
W1	1.7	2.1	81.0	38.6	24.8	25.1	98.8	95.4	26.4	26.6	99.2	98.5	7.4	7.4	100.0	94.9	79	80	98.8	108.2
X1		2.0				26.0				27.6				8.2				69		
Y1		4.7				26.2				27.1				9.0				74		
Z1		3.4				25.4				26.7				6.8				73		
A2	5.5	5.0	110.0	125.0	25.7	26.0	98.8	98.8	26.3	26.8	98.1	98.1	7.6	7.7	98.7	97.4	66	68	97.0	90.4
C2	6.0	6.0	100.0	136.4	26.8	26.2	102.3	103.1	26.9	26.4	101.9	100.4	9.0	8.0	112.5	115.4	65	67	97.0	89.0
D2	4.7	4.8	97.9	106.8	26.4	26.3	100.4	101.5	27.3	27.2	100.4	101.9	8.1	8.6	94.2	103.8	65	70	92.8	89.0
E2		1.5				25.5				27.2				8.0				66		
F2		3.9				26.7				27.4				7.8				76		
H2		5.3				26.1				26.4				8.2				76		
L2	5.5	5.9	93.2	125.0	25.9	25.6	101.2	99.6	26.5	26.2	101.1	98.9	7.4	7.3	101.4	94.9	74	70	105.7	101.4
M2	4.2	4.2	100.0	95.4	25.9	26.0	99.6	99.6	26.9	27.1	99.3	100.4	7.6	7.7	98.7	97.4	73	72	101.4	100.0
N2	5.1	4.7	108.5	115.9	25.8	26.1	98.8	99.2	26.5	27.0	98.1	98.9	8.3	8.3	100.0	106.4	85	77	110.4	116.4
P2		4.1				26.1				27.2				7.9				87		
S2	3.2	3.3	97.0	72.7	25.7	26.2	98.1	98.8	27.0	27.4	98.5	100.7	8.5	8.5	100.0	109.0	66	70	94.3	90.4
T2	5.4	4.4	122.7	122.7	25.4	25.5	99.6	97.7	26.1	26.4	98.9	97.4	7.8	7.3	106.8	100.0	67	71	94.4	91.8
V2		3.2				25.3				26.6				7.4				74		
W2	4.8	4.6	104.3	109.1	25.8	25.8	100.0	99.2	26.7	26.7	100.0	99.6	7.6	7.4	102.7	97.4	71	72	98.6	97.3
Y2	4.5	4.7	95.7	102.3	26.5	26.6	99.6	101.9	26.9	27.0	99.6	100.4	7.3	7.5	97.3	93.6	67	68	98.5	91.8
Z2	3.3	3.5	94.3	75.0	25.7	25.9	99.2	98.8	27.0	27.1	99.6	100.7	7.6	7.4	102.7	97.4	67	67	100.0	91.8
B3		4.9				25.7				26.5				8.5				68		
FKI DATA																				
CUR.																				
AV. 4.5																				
CUM.																				
AV. 4.4																				
IND.																				
*D 102.3																				
100.0																				
99.6																				
101.3																				
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
DECEMBER, 1972

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	4.9	4.4	111.4	111.4	27.2	26.6	102.2	104.6	27.3	26.7	102.2	101.9	8.1	7.5	108.0	102.5	73	76	96.0	100.0
D1	5.3	5.4	98.1	120.4	26.6	26.5	100.4	102.3	27.3	27.2	100.4	101.9	8.1	8.2	98.8	102.5	68	68	100.0	93.2
F1		5.2				26.9				27.3				7.3				66		
G1	4.8	5.1	94.1	109.1	25.5	26.4	96.6	98.1	26.3	27.1	97.0	98.1	7.8	8.0	97.5	98.7	74	74	100.0	101.4
I1		5.8				26.1				26.7				9.1				70		
J1		5.8				26.5				26.6								68		
K1	4.2	4.3	97.7	95.4	26.0	26.1	99.6	100.0	27.0	27.1	99.6	100.7	7.7	7.9	97.5	97.5	78	77	101.3	106.8
N1		5.8				26.1				26.6				8.3				79		
P1	2.7	3.0	90.0	61.4	25.3	25.3	100.0	97.3	26.7	26.6	100.4	99.6	7.6	7.0	108.6	96.2	67	68	98.5	91.8
Q1						26.5				26.7				7.8				73		
T1	3.7	3.6	102.8	84.1	25.1	25.0	100.4	96.5	26.2	26.2	100.0	97.8	7.4	7.5	98.7	93.7	78	79	98.7	106.8
V1	4.3	3.6	119.4	97.7	26.6	26.4	100.8	102.3	26.7	26.5	100.8	99.6	8.8	8.4	104.8	111.4	78	80	97.5	106.8
W1	1.7	2.0	85.0	38.6	25.2	25.0	100.8	96.9	26.9	26.6	101.1	100.4	7.2	7.5	96.0	91.1	68	80	85.0	93.2
X1		1.9				25.9				27.5				8.2				69		
Y1		4.7				26.2				27.1				9.0				74		
Z1		3.3				25.4				26.7				6.9				74		
A2	5.8	5.0	116.0	131.8	25.9	26.0	99.6	99.6	26.5	26.8	98.9	98.9	7.8	7.7	101.3	98.7	67	68	98.5	91.8
C2		5.8				26.4				26.6				8.3				67		
D2	4.9	4.8	102.1	111.4	25.8	26.3	98.1	99.2	26.6	27.2	97.8	99.2	8.2	8.5	96.5	103.8	68	69	98.6	93.2
E2		1.5				25.5				27.2				8.0				66		
F2	3.5	3.9	89.7	79.5	26.1	26.7	97.8	100.4	26.2	27.4	95.6	97.8	8.0	7.8	102.6	101.3	80	75	105.3	109.6
H2		5.3				26.1				26.4				8.2				76		
K2	6.0			136.4	26.5			101.9	26.6			99.2						69		94.5
L2	5.2	5.9	88.1	118.2	26.4	25.7	102.7	101.5	27.1	26.2	103.4	101.1	7.7	7.3	105.5	97.5	68	70	97.1	93.2
M2	4.2	4.2	100.0	95.4	26.0	26.0	100.0	100.0	27.0	27.0	100.0	100.7	7.7	7.7	100.0	97.5	71	72	98.6	97.3
N2		4.7				26.0				26.9				8.3				78		
P2	4.1	4.2	97.6	93.2	25.7	26.1	98.5	98.8	26.7	27.1	98.5	99.6	7.7	7.9	97.5	97.5	85	88	96.6	116.4
S2	3.1	3.3	93.9	70.4	26.4	26.1	101.1	101.5	27.7	27.4	101.1	103.4	9.0	8.4	107.1	113.9	65	70	92.8	89.0
T2	5.2	4.5	115.6	118.2	25.2	25.5	98.8	96.9	25.9	26.4	98.1	96.6	7.5	7.4	101.4	94.9	67	71	94.4	91.8
V2		3.2				25.3				26.6				7.4				74		
W2	4.7	4.6	102.2	106.8	25.9	25.8	100.4	99.6	26.8	26.7	100.4	100.0	7.5	7.4	101.4	94.9	73	72	101.4	100.0
Y2	4.6	4.7	97.9	104.5	26.8	26.6	100.8	103.1	27.2	27.0	100.7	101.5	7.6	7.5	101.3	96.2	66	68	97.0	90.4
Z2	3.5	3.4	102.9	79.5	25.5	25.9	98.4	98.1	26.7	27.1	98.5	99.6	7.6	7.4	102.7	96.2	67	67	100.0	91.8
B3		4.9				25.7				26.5				8.5				68		
FKI DATA																				
CUR. AV. 4.3																				
CUM. AV. 4.4																				
IND. *D 97.7																				
26.0																				
26.0																				
100.0																				
26.8																				
26.8																				
100.0																				
7.8																				
7.9																				
98.7																				
72																				
73																				
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

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	4.6	4.3	107.0	100.0	33.0	33.3	99.1	100.6	33.1	33.4	99.1	98.5	10.7	9.0	118.9	110.3	88	90	97.8	101.1
D1	5.5	5.6	98.2	119.6	33.3	33.4	99.7	101.5	34.1	34.2	99.7	101.5	9.3	10.1	92.1	95.9	82	81	101.2	94.2
F1		5.4				33.6				34.1				8.8				81		
G1	5.5	6.0	91.7	119.6	32.7	33.2	98.5	99.7	33.5	33.8	99.1	99.7	10.3	10.1	102.0	106.2	84	86	97.7	96.6
I1		5.9				32.9				33.6				10.5				88		
J1		5.8				32.9				33.0								80		
K1		5.0				32.6				33.6				9.8				91		
L1	3.8	4.1	92.7	82.6	33.5	33.5	100.0	102.1	33.8	33.8	100.0	100.6	9.9	9.6	103.1	102.1	76	82	92.7	87.4
M1	3.9	4.0	97.5	84.8	33.3	33.4	99.7	101.5	33.6	33.6	100.0	100.0	10.2	9.8	104.1	105.2	89	92	96.7	102.3
N1	6.4	6.5	98.5	139.1	33.0	33.0	100.0	100.6	33.5	33.5	100.0	99.7	10.3	10.3	100.0	106.2	92	96	95.8	105.7
P1	2.6	3.1	83.9	56.5	31.8	32.0	99.4	97.0	33.6	33.6	100.0	100.0	8.8	8.8	100.0	90.7	84	86	97.7	96.6
Q1					33.8	33.3	101.5	103.0	34.3	33.5	102.4	102.1	10.2	9.6	106.2	105.2	87	88	98.9	100.0
S1		5.3				33.4				33.5				9.3				86		
T1		3.9				31.9				33.2				8.8				96		
V1	4.1	3.9	105.1	89.1	33.4	33.4	100.0	101.8	33.6	33.6	100.0	100.0	9.8	10.1	97.0	101.0	91	92	98.9	104.6
W1	2.2	2.8	78.6	47.8	31.4	31.5	99.7	95.7	33.3	33.2	100.3	99.1	9.3	9.5	97.9	95.9	91	92	98.9	104.6
X1	2.8	3.6	77.8	60.9	31.7	32.8	96.6	96.6	33.4	34.3	97.4	99.4	10.8	10.2	105.9	111.3	83	87	95.4	95.4
Y1		4.7				32.9				34.0				10.3				86		
Z1		4.2				32.1				33.4				8.6				89		
A2	5.4	5.0	108.0	117.4	32.8	32.7	100.3	100.0	33.7	33.6	100.3	100.3	9.8	9.7	101.0	101.0	82	83	98.8	94.2
C2		5.6				33.0				33.3				10.1				84		
D2	4.9	4.8	102.1	106.5	33.1	32.9	100.6	100.9	34.1	34.0	100.3	101.5	10.0	10.4	96.2	103.1	81	84	96.4	93.1
E2	4.6	4.9	93.9	100.0	32.3	32.8	98.5	98.5	33.4	33.9	98.5	99.4	9.6	9.9	97.0	99.0	86	82	104.9	98.8
F2	4.6	4.6	100.0	100.0	33.2	33.4	99.4	101.2	33.3	33.7	98.8	99.1	9.8	9.7	101.0	101.0	93	91	102.2	106.9
H2		4.8				33.4				33.6				10.2				92		
J2		5.2				32.0				32.9				8.3				87		
K2		5.7				33.3				33.4								88		
L2	5.2	5.9	88.1	113.0	32.7	32.2	101.6	99.7	33.6	32.8	102.4	100.0	9.4	9.3	101.1	96.9	84	82	102.4	96.6
M2	5.0	4.7	106.4	108.7	32.7	33.0	99.1	99.7	33.7	34.1	98.8	100.3	9.4	9.3	101.1	96.9	86	86	100.0	98.8
N2	4.8	5.1	94.1	104.3	32.3	32.3	100.0	98.5	33.4	33.3	100.3	99.4	9.0	9.4	95.7	92.8	98	95	103.2	112.6
P2	5.1	4.6	110.9	110.9	32.6	33.0	98.8	99.4	33.5	34.1	98.2	99.7	9.6	9.6	100.0	99.0	96	101	95.0	110.3
Q2	5.0	4.9	102.0	108.7	33.2	32.8	101.2	101.2	33.3	33.4	99.7	99.1	10.4	10.2	102.0	107.2	89	91	97.8	102.3
S2	3.3	4.0	82.5	71.7	32.4	32.3	100.3	98.8	34.0	33.6	101.2	101.2	10.7	10.5	101.9	110.3	78	82	95.1	89.6
T2		4.5				32.3				33.4				9.2				86		
U2					33.4	33.4	100.0	101.8	33.7	33.7	100.0	100.3	9.2	9.3	98.9	94.8	94	89	105.6	108.0
V2		3.2				31.7				33.3				9.6				84		
W2		4.5				32.7				33.9				9.5				85		
X2		4.8				32.5				33.6				10.1				89		
Y2	4.5	4.7	95.7	97.8	33.5	33.4	100.3	102.1	34.0	33.9	100.3	101.2	9.2	9.5	96.8	94.8	89	83	107.2	102.3
Z2	3.7	3.5	105.7	80.4	32.9	32.7	100.6	100.3	34.3	34.2	100.3	102.1	9.7	9.7	100.0	100.0	81	80	101.2	93.1
B3		5.3				32.4				33.3				10.1				84		

FKI DATA

CUR. AV.	4.4		32.8			33.6			9.8			87
CUM. AV.	4.6		32.8			33.6			9.7			87
IND. *D	95.6		100.0			100.0			101.0			100.0

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

TABLE IV
AVERAGES OF ROUTINE MILL QUALITY CONTROL DATA FOR 33 LB. FOURDRINIER KRAFT LINERBOARD
DECEMBER, 1972

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		4.4				33.2				33.3				9.3			90			
D1	5.1	5.6	91.1	113.3	33.1	33.4	99.1	100.9	34.1	34.2	99.7	101.5	9.4	10.0	94.0	96.9	82	82	100.0	94.2
F1		5.4				33.6				34.1				8.8			81			
G1	5.4	6.0	90.0	120.0	32.5	33.1	98.2	99.1	33.3	33.8	98.5	99.1	10.0	10.1	99.0	103.1	89	86	103.5	102.3
I1		5.9				32.9				33.6				10.5			88			
J1		5.9				32.9				33.0				0.0			90			
K1		5.0				32.6				33.6				9.8			91			
L1	3.7	4.0	92.5	82.2	33.3	33.5	99.4	101.5	33.6	33.8	99.4	100.0	10.0	9.6	104.2	103.1	77	82	93.9	88.5
M1	3.8	3.9	97.4	84.4	33.5	33.4	100.3	102.1	33.8	33.6	100.6	100.6	10.0	9.9	101.0	103.1	93	92	101.1	106.9
N1		6.5				33.0				33.5				10.3			95			
P1	2.8	3.0	93.3	62.2	31.6	32.0	98.8	96.3	33.3	33.6	99.1	99.1	8.6	8.8	97.7	88.6	85	86	98.8	97.7
Q1						33.4				33.7				9.8			87			
S1		5.2				33.4				33.4				9.1			88			
T1	3.8	3.9	97.4	84.4	31.6	31.9	99.0	96.3	33.0	33.2	99.4	98.2	9.0	8.8	102.3	92.8	95	96	99.0	109.2
V1	4.0	3.9	102.6	88.9	33.6	33.4	100.6	102.4	33.8	33.6	100.6	100.6	10.7	10.1	105.9	110.3	93	92	101.1	106.9
W1		2.7				31.5				33.2				9.5			92			
X1	2.7	3.5	77.1	60.0	31.7	32.6	97.2	96.6	33.4	34.2	97.7	99.4	9.5	10.2	93.1	97.9	88	87	101.1	101.1
Y1		4.8				33.0				34.1				10.6			86			
Z1		4.2				32.1				33.4				8.6			89			
A2	5.7	5.1	111.8	126.7	32.7	32.7	100.0	99.7	33.5	33.6	99.7	99.7	10.3	9.7	106.2	106.2	82	83	98.8	94.2
C2		5.4				33.0				33.4				10.1			82			
O2		4.8				32.9				33.9				10.4			84			
E2		4.9				32.8				33.8				9.9			83			
F2		4.5				33.4				33.6				9.7			92			
H2		4.8				33.4				33.6				10.2			92			
J2		5.2				32.0				32.9				8.3			87			
K2	5.7	5.7	100.0	126.7	33.5	33.3	100.6	102.1	33.6	33.4	100.6	100.0					84	88	95.4	96.6
L2	5.6	5.8	96.6	124.4	32.9	32.2	102.2	100.3	33.7	32.9	102.4	100.3	9.8	9.3	105.4	101.0	81	82	98.8	93.1
M2	4.8	4.7	102.1	106.7	32.9	33.0	99.7	100.3	34.0	34.1	99.7	101.2	9.4	9.3	101.1	96.9	86	86	100.0	98.8
N2		5.0				32.3				33.3				9.4			95			
P2	4.1	4.8	85.4	91.1	32.4	32.9	98.5	98.8	33.7	34.0	99.1	100.3	9.4	9.6	97.9	96.9	100	101	99.0	114.9
Q2		4.9				32.9				33.3				10.2			92			
S2	3.6	3.9	92.3	80.0	32.3	32.3	100.0	98.5	33.8	33.6	100.6	100.6	10.6	10.5	101.0	109.3	74	82	90.2	85.0
T2		4.5				32.3				33.4				9.2			86			
U2						33.3				33.7				9.3			89			
V2		3.2				31.7				33.3				9.6			84			
W2		4.5				32.7				33.9				9.5			85			
X2		4.8				32.5				33.6				10.1			89			
Y2	4.8	4.6	104.3	106.7	33.5	33.4	100.3	102.1	34.0	33.9	100.3	101.2	9.4	9.4	100.0	96.9	86	85	101.2	98.8
Z2	3.6	3.5	102.8	80.0	32.5	32.7	99.4	99.1	34.0	34.2	99.4	101.2	9.3	9.7	95.9	95.9	87	81	107.4	100.0
B3		5.4				32.5				33.3				10.2			84			

FKI DATA

CUR. AV.	4.3		32.7		33.7		9.7		86
CUM. AV.	4.5		32.8		33.6		9.7		87
IND. *D	95.6		99.7		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 38 LB. FOURDRINIER KRAFT LINERBOARD
NOVEMBER, 1972

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	4.4	4.6	95.6	88.0	37.7	38.0	99.2	99.7	37.8	38.1	99.2	97.4	9.1	10.5	86.7	83.5	96	102	94.1	97.0
C1		5.2				38.3				39.4				10.3			95			
D1		5.8				38.7				39.6				11.3			98			
G1	6.6	6.4	103.1	132.0	37.5	38.0	98.7	99.2	38.0	38.6	98.4	97.9	11.4	11.5	99.1	104.6	93	93	100.0	93.9
H1		5.3				38.0				39.1				10.9			98			
K1	6.0	5.6	107.1	120.0	38.0	38.3	99.2	100.5	38.8	39.2	99.0	100.0	11.1	11.0	100.9	101.8	95	98	96.9	96.0
L1		4.0				38.2				38.5				11.0			94			
M1	4.5	4.7	95.7	90.0	38.6	38.4	100.5	102.1	38.9	38.7	100.5	100.2	11.7	11.5	101.7	107.3	101	99	102.0	102.0
P1	3.2	3.7	86.5	64.0	36.9	37.0	99.7	97.6	38.7	38.6	100.2	99.7	10.5	10.2	102.9	96.3	97	98	99.0	98.0
Q1						38.4				38.7				10.3			100			
S1	5.4	5.4	100.0	108.0	38.4	38.7	99.2	101.6	38.5	38.8	99.2	99.2	9.9	10.9	90.8	90.8	103	97	106.2	104.0
T1		4.0				36.8				38.3				10.0			106			
U1		5.6				37.4				38.3				10.2			109			
V1	4.2	4.0	105.0	84.0	38.1	38.4	99.2	100.8	38.3	38.6	99.2	98.7	11.7	11.2	104.5	107.3	98	102	96.1	99.0
W1	3.9	3.3	118.2	78.0	36.7	36.5	100.5	97.1	38.2	38.2	100.0	98.4	10.9	11.0	99.1	100.0	95	99	96.0	96.0
Y1	4.9	4.8	102.1	98.0	38.0	37.6	101.1	100.5	39.2	38.8	101.0	101.0	11.0	10.7	102.8	100.9	93	97	95.9	93.9
Z1		5.7				37.4				38.2				10.0			104			
A2	5.0	4.7	106.4	100.0	37.6	37.6	100.0	99.5	38.7	38.8	99.7	99.7	11.1	11.3	98.2	101.8	91	93	97.8	91.9
B2		4.3				37.8				39.2				10.3			109			
C2	5.3	5.7	93.0	106.0	38.1	38.2	99.7	100.8	38.2	38.6	99.0	98.4	10.0	11.0	90.9	91.7	95	97	97.9	96.0
F2		4.3				38.4				39.2				10.7			103			
J2		6.0				37.0				37.7				9.5			99			
K2	5.6	5.7	98.2	112.0	38.3	38.2	100.3	101.3	38.4	38.2	100.5	99.0					92	98	93.9	92.9
M2	5.5	5.7	96.5	110.0	37.9	38.1	99.5	100.3	38.8	39.0	99.5	100.0	10.7	10.6	100.9	98.2	99	99	100.0	100.0
N2	4.8	5.2	92.3	96.0	36.9	37.1	99.5	97.6	38.1	38.2	99.7	98.2	10.7	10.5	101.9	98.2	110	108	101.8	111.1
O2	5.4	5.6	96.4	108.0	37.6	38.0	98.9	99.5	38.6	38.9	99.2	99.5	10.8	11.4	94.7	99.1	97	97	100.0	98.0
P2	5.8	5.2	111.5	116.0	37.8	38.1	99.2	100.0	38.6	39.2	98.5	99.5	9.8	10.1	97.0	89.9	111	115	96.5	112.1
Q2	5.2	5.1	102.0	104.0	38.2	37.7	101.3	101.0	38.3	38.4	99.7	98.7	11.3	11.2	100.9	103.7	95	100	95.0	96.0
R2	5.3	5.3	100.0	106.0	38.6	39.1	98.7	102.1	39.6	40.1	98.8	102.1	11.4	10.9	104.6	104.6	105	101	104.0	106.1
S2	5.1	5.2	98.1	102.0	37.2	37.4	99.5	98.4	38.3	38.4	99.7	98.7	11.0	11.5	95.6	100.9	93	94	98.9	93.9
U2						38.2				38.5				10.9			97			
V2	4.0	4.3	93.0	80.0	38.3	37.5	102.1	101.3	39.9	39.0	102.3	102.8	12.8	11.6	110.3	117.4	92	95	96.8	92.9
W2	4.6	4.6	100.0	92.0	37.6	37.6	100.0	99.5	38.9	38.9	100.0	100.2	11.4	11.3	100.9	104.6	94	94	100.0	94.9
X2		4.4				37.0				38.4				11.6			97			
Z2	4.6	4.8	95.8	92.0	37.7	38.0	99.2	99.7	39.0	39.2	99.5	100.5	11.1	10.9	101.8	101.8	91	91	100.0	91.9
B3		4.9				37.3				38.5				11.4			93			
FKI DATA																				
CUR.																				
AV.	5.0				37.8				38.6				10.9				97			
CUM.																				
AV.	5.0				37.8				38.8				10.9				99			
IND.																				
*D	100.0				100.0				99.5				100.0				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, 1972

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	4.7	4.6	102.2	94.0	38.3	38.0	100.8	101.3	38.4	38.1	100.8	99.2	10.6	10.3	102.9	98.1	100	101	99.0	101.0
C1	5.5	5.2	105.8	110.0	38.2	38.3	99.7	101.0	39.2	39.4	99.5	101.3	10.3	10.2	101.0	95.4	94	95	98.9	94.9
D1		5.8				38.7				39.6				11.3				98		
G1	6.3	6.5	96.9	126.0	37.4	38.0	98.4	98.9	38.0	38.5	98.7	98.2	11.6	11.4	101.8	107.4	91	93	97.8	91.9
H1	5.1	5.3	96.2	102.0	38.5	38.1	101.0	101.8	39.6	39.2	101.0	102.3	11.3	10.8	104.6	104.6	100	98	102.0	101.0
K1	6.1	5.7	107.0	122.0	38.6	38.2	101.0	102.1	39.3	39.1	100.5	101.6	11.8	11.0	107.3	109.2	95	97	97.9	96.0
L1		4.0				38.2				38.5				11.0				94		
M1	4.7	4.7	100.0	94.0	38.3	38.4	99.7	101.3	38.6	38.7	99.7	99.7	11.3	11.6	97.4	104.6	98	99	99.0	99.0
N1	7.0			140.0	37.9			100.3	38.2				98.7	10.9		100.9	99			100.0
P1	3.4	3.7	91.9	68.0	37.1	37.0	100.3	98.1	38.9	38.6	100.8	100.5	9.9	10.2	97.0	91.7	98	98	100.0	99.0
Q1						38.4				38.7				10.3			100			
S1	5.4	5.4	100.0	108.0	38.7	38.7	100.0	102.4	38.8	38.8	100.0	100.2	10.3	10.8	95.4	95.4	101	98	103.1	102.0
T1	4.0	4.0	100.0	80.0	36.5	36.8	99.2	96.6	38.0	38.3	99.2	98.2	10.0	10.0	100.0	92.6	100	107	93.4	101.0
U1	5.0	5.6	89.3	100.0	38.0	37.4	101.6	100.5	39.1	38.3	102.1	101.0	10.4	10.2	102.0	96.3	112	109	102.8	113.1
V1	4.2	4.1	102.4	84.0	38.5	38.4	100.3	101.8	38.7	38.6	100.2	100.0	11.5	11.2	102.7	106.5	102	101	101.0	103.0
W1		3.4				36.5				38.2				11.0			99			
Y1	4.9	4.8	102.1	98.0	37.5	37.6	99.7	99.2	38.7	38.9	99.5	100.0	10.8	10.6	101.9	100.0	93	97	95.9	93.9
Z1	4.9	6.0	81.7	98.0	37.0	37.4	98.9	97.9	38.1	38.1	100.0	98.4	10.6	9.9	107.1	98.1	97	107	90.6	98.0
A2	5.1	4.7	108.5	102.0	37.5	37.6	99.7	99.2	38.6	38.8	99.5	99.7	11.8	11.3	104.4	109.2	92	92	100.0	92.9
C2	4.8	5.6	85.7	96.0	38.6	38.2	101.0	102.1	38.7	38.5	100.5	100.0	10.0	10.8	92.6	92.6	97	96	101.0	98.0
F2		4.4				38.5				39.0				10.7			103			
J2		6.0				37.0				37.7				9.5			99			
K2	5.4	5.7	94.7	108.0	38.4	38.2	100.5	101.6	38.5	38.3	100.5	99.5					93	97	95.9	93.9
H2	5.6	5.7	98.2	112.0	38.3	38.1	100.5	101.3	39.2	38.9	100.8	101.3	10.8	10.6	101.9	100.0	99	99	100.0	100.0
N2		5.2				37.1				38.2				10.5			108			
O2	5.7	5.6	101.8	114.0	37.5	38.0	98.7	99.2	38.4	38.9	98.7	99.2	10.8	11.3	95.6	100.0	95	97	97.9	96.0
P2	4.7	5.3	88.7	94.0	37.4	38.0	98.4	98.9	38.7	39.1	99.0	100.0	10.3	10.1	102.0	95.4	112	115	97.4	113.1
Q2		5.1				37.8				38.4				11.1			100			
R2	5.7	5.3	107.5	114.0	38.7	39.0	99.2	102.4	39.6	40.0	99.0	102.3	11.1	11.0	100.9	102.8	102	102	100.0	103.0
S2	5.2	5.2	100.0	104.0	37.2	37.3	99.7	98.4	38.2	38.4	99.5	98.7	11.0	11.4	96.5	101.8	89	94	94.7	89.9
U2						38.2				38.5				10.9			97			
V2	4.2	4.1	102.4	84.0	37.1	37.6	98.7	98.1	38.5	39.1	98.5	99.5	11.8	11.7	100.8	109.2	94	95	98.9	94.9
W2		4.6				37.6				38.9				11.3			95			
X2		4.4				37.0				38.4				11.6			97			
Z2	3.4	4.8	70.8	68.0	37.0	38.0	97.4	97.9	38.8	39.3	98.7	100.2	10.1	10.9	92.7	93.5	93	91	102.2	93.9
FKI DATA																				
CUR.																				
AV. 5.0																				
CUM.																				
AV. 5.0																				
IND.																				
*D 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 42 LB. FOURDRINIER KRAFT LINERBOARD

NOVEMBER, 1972

CODE	MOISTURE CONTENT, PERCENT				BASIS WT., LB./ M SQ. FT.				ADJ. BASIS WT.,*A LB./ M SQ. FT.				CALIPER, PT.				BURSTING STRENGTH, P.S.F.G.			
	MACHINE DATA				MACHINE DATA				MACHINE DATA				MACHINE DATA				MACHINE DATA			
	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C
A1	4.6	4.9	93.9	88.5	41.4	41.4	100.0	99.0	42.8	42.7	100.2	100.2	10.9	11.5	94.8	90.8	105	108	97.2	98.1
B1	5.1	4.8	106.2	98.1	41.9	42.2	99.3	100.2	42.0	42.3	99.3	98.4	12.7	11.5	110.4	105.8	106	108	98.1	99.1
C1	6.8	6.3	107.9	130.8	42.1	42.2	99.8	100.7	42.6	42.9	99.3	99.8	11.4	11.2	101.8	95.0	104	105	99.0	97.2
D1	6.2	6.1	101.6	119.2	42.5	42.6	99.8	101.7	43.2	43.4	99.5	101.2	12.0	12.2	98.4	100.0	105	106	99.0	98.1
E1	6.4	6.4	100.0	123.1	41.8	41.8	100.0	100.0	42.4	42.4	100.0	99.3	12.0	12.1	99.2	100.0	109	106	102.8	101.9
G1	7.1	6.9	102.9	136.5	42.0	42.1	99.8	100.5	42.3	42.5	99.5	99.1	12.7	12.5	101.6	105.8	102	103	99.0	95.3
H1	5.3	5.4	98.1	101.9	41.8	41.8	100.0	100.0	42.9	42.9	100.0	100.5	12.3	12.2	100.8	102.5	102	104	98.1	95.3
K1	6.2	5.9	105.1	119.2	41.5	41.6	99.8	99.3	42.2	42.5	99.3	98.8	12.3	11.8	104.2	102.5	103	106	97.2	96.3
L1	4.4	4.4	100.0	84.6	42.1	42.5	99.0	100.7	42.5	42.9	99.1	99.5	12.3	12.1	101.6	102.5	100	102	98.0	93.4
M1	4.9	4.9	100.0	94.2	42.6	42.4	100.5	101.9	43.0	42.8	100.5	100.7	12.5	12.4	100.8	104.2	103	104	99.0	96.3
N1		6.8				42.1				42.6				12.0				108		
P1	3.1	3.9	79.5	59.6	40.8	41.0	99.5	97.6	42.9	42.8	100.2	100.5	10.9	11.2	97.3	90.8	105	108	97.2	98.1
Q1					42.3	42.1	100.5	101.2	43.1	42.4	101.6	100.9	12.1	11.6	104.3	100.8	111	110	100.9	103.7
R1	5.1	4.8	106.2	98.1	41.4	41.4	100.0	99.0	42.6	42.7	99.8	99.8	11.8	11.6	101.7	98.3	105	108	97.2	98.1
S1	5.6	5.8	96.6	107.7	42.4	42.3	100.2	101.4	42.5	42.4	100.2	99.5	11.1	11.8	94.1	92.5	105	103	101.9	98.1
T1	4.0	4.1	97.6	76.9	40.5	40.6	99.8	96.9	42.2	42.2	100.0	98.8	11.1	11.2	99.1	92.5	110	112	98.2	102.8
U1	6.2	6.1	101.6	119.2	41.0	41.2	99.5	98.1	41.7	42.0	99.3	97.6	11.3	11.8	95.8	94.2	109	114	95.6	101.9
V1	4.8	4.5	106.7	92.3	42.5	42.3	100.5	101.7	42.7	42.5	100.5	100.0	13.1	12.3	106.5	109.2	111	107	103.7	103.7
W1	4.0	4.1	97.6	76.9	40.6	40.8	99.5	97.1	42.3	42.4	99.8	99.1	11.9	12.0	99.2	99.2	104	107	97.2	97.2
X1	5.7	5.5	103.6	109.6	41.6	41.8	99.5	99.5	42.6	42.9	99.3	99.8	13.1	12.8	102.3	109.2	105	106	99.0	98.1
Y1	5.7	5.1	111.8	109.6	41.7	41.6	100.2	99.8	42.7	42.8	99.8	100.0	12.1	11.7	103.4	100.8	103	105	98.1	96.3
Z1	5.1	5.0	102.0	98.1	41.5	41.2	100.7	99.3	42.7	42.5	100.5	100.0	11.6	11.1	104.5	96.7	109	110	99.1	101.9
A2		4.4				41.4				42.9				12.3				106		
B2	4.1	4.5	91.1	78.8	41.2	41.5	99.3	98.6	42.8	43.0	99.5	100.2	11.4	11.2	101.8	95.0	107	112	95.5	100.0
C2	5.5	5.9	93.2	105.8	42.3	42.0	100.7	101.2	42.4	42.3	100.2	99.3	12.0	12.2	98.4	100.0	103	105	98.1	96.3
D2	4.1	4.6	89.1	78.8	41.0	41.8	98.1	98.1	42.6	43.3	98.4	99.8	13.2	13.4	98.5	110.0	107	108	99.1	100.0
E2	5.5	5.6	98.2	105.8	41.3	41.9	98.6	98.8	42.3	42.9	98.6	99.1	12.0	12.7	94.5	100.0	109	108	100.9	101.9
F2	4.7	4.9	95.9	90.4	42.0	42.4	99.0	100.5	42.1	43.0	97.9	98.6	12.3	12.2	100.8	102.5	113	110	102.7	105.6
G2	5.2	5.3	98.1	100.0	40.8	41.4	98.6	97.6	41.9	42.6	98.4	98.1	12.1	12.7	95.3	100.8	108	117	92.3	100.9
I2		5.3				41.4				42.5				11.7				118		
J2	5.6	5.8	96.6	107.7	41.6	41.5	100.2	99.5	42.6	42.4	100.5	99.8	11.0	11.4	96.5	91.7	111	109	101.8	103.7
K2	5.4	5.6	96.4	103.8	42.2	42.2	100.0	101.0	42.3	42.3	100.0	99.1					100	104	96.2	93.4
M2	6.0	5.8	103.4	115.4	41.9	41.8	100.2	100.2	42.7	42.7	100.0	100.0	12.2	11.6	105.2	101.7	104	105	99.0	97.2
N2	4.8	5.1	94.1	92.3	40.8	40.9	99.8	97.6	42.1	42.1	100.0	98.6	11.8	11.7	100.8	98.3	118	116	101.7	110.3
O2	5.6	5.6	100.0	107.7	41.4	41.9	98.8	99.0	42.4	42.9	98.8	99.3	12.0	12.6	95.2	100.0	105	106	99.0	98.1
P2	6.2	5.7	108.8	119.2	41.9	42.0	99.8	100.2	42.6	43.0	99.1	99.8	11.2	11.2	100.0	93.3	118	119	99.2	110.3
Q2	5.0	5.2	96.2	96.2	42.2	41.7	101.2	101.0	42.3	42.4	99.8	99.1	12.6	12.3	102.4	105.0	107	107	100.0	100.0
R2	5.8	5.8	100.0	111.5	42.6	42.8	99.5	101.9	43.5	43.8	99.3	101.9	12.4	12.0	103.3	103.3	109	107	101.9	101.9
S2	4.6	5.4	85.2	88.5	41.7	41.4	100.7	99.8	43.2	42.4	101.9	101.2	12.1	12.3	98.4	100.8	101	102	99.0	94.4
U2					41.9	42.2	99.3	100.2	42.5	42.5	100.0	99.5	12.0	12.0	100.0	100.0	110	107	102.8	102.8
V2	3.8	4.8	79.2	73.1	41.4	41.6	99.5	99.0	43.2	42.9	100.7	101.2	12.7	12.6	100.8	105.8	105	104	101.0	98.1
W2	4.8	4.6	104.3	92.3	41.5	41.5	100.0	99.3	42.9	42.9	100.0	100.5	12.6	12.4	101.6	105.0	104	104	100.0	97.2
Z2	4.5	4.9	91.8	86.5	41.2	41.6	99.0	98.6	42.7	43.0	99.3	100.0	11.6	11.9	97.5	96.7	104	104	100.0	97.2
A3	5.2	5.2	100.0	100.0	42.4	41.5	102.2	101.4	42.5	42.5	100.0	99.5	12.6	12.3	102.4	105.0	106	109	97.2	99.1

FKI DATA

CUR.																				
AV.	5.2				41.7				42.6				12.0				106			
CUM.																				
AV.	5.2				41.8				42.7				12.0				107			
IND.																				
*D	100.0				99.8				99.8				100.0				99.1			

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, 1972

CODE	MOISTURE CONTENT, PERCENT				BASIS WT., LB./ M SQ. FT.				ADJ. BASIS WT.,*A LB./ M SQ. FT.				CALIPER, PT.				BURSTING STRENGTH, P.S.I.G.			
	MACHINE DATA				MACHINE DATA				MACHINE DATA				MACHINE DATA				MACHINE DATA			
	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C
A1	4.4	4.9	89.8	84.6	41.1	41.4	99.3	98.3	42.6	42.7	99.8	100.0	11.5	11.4	100.9	95.8	102	103	94.4	95.3
B1	4.9	4.8	102.1	94.2	42.1	42.1	100.0	100.7	42.2	42.2	100.0	99.1	12.2	11.7	104.3	101.7	107	108	99.1	100.0
C1	6.3	6.4	98.4	121.2	42.4	42.2	100.5	101.4	43.1	42.8	100.7	101.2	11.3	11.2	100.9	94.2	105	105	100.0	98.1
D1	6.4	6.1	104.9	123.1	42.3	42.6	99.3	101.2	42.9	43.4	98.8	100.7	12.1	12.1	100.0	100.8	105	106	99.0	98.1
E1	6.3	6.4	98.4	121.2	41.8	41.8	100.0	100.0	42.5	42.4	100.2	99.8	11.7	12.1	96.7	97.5	105	106	99.0	98.1
G1	7.2	6.9	104.3	138.5	41.9	42.0	99.8	100.2	42.2	42.4	99.5	99.1	12.6	12.5	100.8	105.0	102	103	99.0	95.3
H1	5.4	5.4	100.0	103.8	42.0	41.8	100.5	100.5	43.1	42.9	100.5	101.2	12.4	12.2	101.6	103.3	102	104	98.1	95.3
K1	6.3	6.0	105.0	121.2	41.8	41.6	100.5	100.0	42.5	42.4	100.2	99.8	12.2	11.8	103.4	101.7	103	106	97.2	96.3
L1	3.8	4.4	86.4	73.1	42.0	42.4	99.0	100.5	42.4	42.8	99.1	99.5	12.3	12.2	100.8	102.5	102	102	100.0	95.3
M1	4.9	4.9	100.0	94.2	42.4	42.4	100.0	101.4	42.8	42.8	100.0	100.5	12.4	12.4	100.0	103.3	104	104	100.0	97.2
N1		6.8				42.1				42.6				12.0						108
P1		3.8				41.0				42.8				11.2						108
Q1					42.5	42.0	101.2	101.7	43.0	42.4	101.4	100.9	11.5	11.7	98.3	95.8	110	109	100.9	102.8
R1	5.1	4.8	106.2	98.1	41.4	41.4	100.0	99.0	42.6	42.7	99.8	100.0	11.7	11.6	100.9	97.5	106	107	99.1	99.1
S1	5.4	5.8	93.1	103.8	42.4	42.3	100.2	101.4	42.5	42.4	100.2	99.8	11.4	11.7	97.4	95.0	104	104	100.0	97.2
T1	3.7	4.1	90.2	71.2	40.4	40.6	99.5	96.6	42.2	42.2	100.0	99.1	11.2	11.2	100.0	93.3	110	112	98.2	102.8
U1	5.8	6.1	95.1	111.5	41.0	41.2	99.5	98.1	41.9	42.0	99.8	98.4	12.0	11.8	101.7	100.0	115	114	100.9	107.5
V1	4.3	4.5	95.6	82.7	42.4	42.4	100.0	101.4	42.6	42.6	100.0	100.0	12.8	12.4	103.2	106.7	107	107	100.0	100.0
W1	3.8	4.2	90.5	73.1	40.6	40.8	99.5	97.1	42.3	42.4	99.8	99.3	11.6	12.0	96.7	96.7	103	107	96.3	96.3
X1	5.6	5.5	101.8	107.7	41.5	41.8	99.3	99.3	42.5	42.8	99.3	99.8	13.1	12.9	101.6	109.2	106	106	100.0	99.1
Y1	5.3	5.1	103.9	101.9	41.5	41.6	99.8	99.3	42.6	42.8	99.5	100.0	11.4	11.7	97.4	95.0	101	105	96.2	94.4
Z1	5.1	5.1	100.0	98.1	41.1	41.2	99.8	98.3	42.3	42.4	99.8	99.3	11.5	11.1	103.6	95.8	107	110	97.3	100.0
A2		4.4				41.4				42.9				12.3						106
B2	5.1	4.4	115.9	98.1	41.9	41.5	101.0	100.2	43.1	43.0	100.2	101.2	11.5	11.2	102.7	95.8	107	112	95.5	100.0
C2	6.2	5.8	106.9	119.2	42.7	42.1	101.4	102.2	42.8	42.3	101.2	100.5	12.0	12.2	98.4	100.0	106	104	101.9	99.1
D2	4.0	4.6	87.0	76.9	40.7	41.7	97.6	97.4	42.4	43.2	98.1	99.5	12.6	13.4	94.0	105.0	106	108	98.1	99.1
E2	6.3	5.6	112.5	121.2	41.8	41.8	100.0	100.0	42.5	42.8	99.3	99.8	12.9	12.6	102.4	107.5	110	109	100.9	102.8
F2	4.5	4.8	93.8	86.5	42.1	42.3	99.5	100.7	42.2	42.8	98.6	99.1	12.6	12.2	103.3	105.0	108	110	98.2	100.9
G2		5.4				41.4				42.5				12.6						115
I2		5.3				41.4				42.5				11.7						118
J2	5.6	5.7	98.2	107.7	41.9	41.5	101.0	100.2	42.9	42.5	100.9	100.7	10.6	11.3	93.8	88.3	119	109	109.2	111.2
K2	5.4	5.6	96.4	103.8	42.2	42.2	100.0	101.0	42.3	42.3	100.0	99.3					99	104	95.2	92.5
M2		5.8				41.8				42.7				11.6						105
N2	4.0	5.1	78.4	76.9	40.4	40.9	98.8	96.6	42.1	42.1	100.0	98.8	11.8	11.7	100.8	98.3	111	116	95.7	103.7
O2	6.0	5.6	107.1	115.4	42.0	41.8	100.5	100.5	42.8	42.8	100.0	100.5	12.2	12.5	97.6	101.7	104	105	99.0	97.2
P2	5.3	5.8	91.4	101.9	41.6	42.0	99.0	99.5	42.7	42.9	99.5	100.2	11.0	11.2	98.2	91.7	122	120	101.7	114.0
Q2	4.8	5.2	92.3	92.3	42.1	41.8	100.7	100.7	42.2	42.4	99.5	99.1	12.3	12.3	100.0	102.5	104	107	97.2	97.2
R2	5.9	5.8	101.7	113.5	42.4	42.8	99.1	101.4	43.3	43.7	99.1	101.6	12.2	12.0	101.7	101.7	108	108	100.0	100.9
S2	5.2	5.3	98.1	100.0	41.3	41.4	99.8	98.8	42.5	42.5	100.0	99.8	12.3	12.2	100.8	102.5	98	102	96.1	91.6
U2					42.1	42.1	100.0	100.7	42.5	42.5	100.0	99.8	12.0	12.0	100.0	100.0	109	107	101.9	101.9
V2	4.7	4.7	100.0	90.4	41.4	41.6	99.5	99.0	42.8	43.0	99.5	100.5	12.9	12.6	102.4	107.5	105	105	100.0	98.1
W2	5.0	4.6	108.7	96.2	41.6	41.5	100.2	99.5	42.8	42.9	99.8	100.5	12.3	12.4	99.2	102.5	105	104	101.0	98.1
Z2	4.1	4.8	85.4	78.8	41.2	41.6	99.0	98.6	42.8	42.9	99.8	100.5	11.3	11.9	95.0	94.2	108	104	103.8	100.9
A3		5.1				41.8				42.5				12.4						108
FKI DATA																				
CUR. AV. 5.2																				
CUM. AV. 5.2																				
IND. *D 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, 1972

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	5.4	5.6	96.4	93.1	68.3	68.4	99.8	99.6	70.1	70.0	100.1	100.4	19.4	19.5	99.5	99.0	135	138	97.8	93.8
B1	5.6	5.6	100.0	96.6	68.6	69.0	99.4	100.0	68.8	69.2	99.4	98.6	17.6	18.3	96.2	89.8	158	154	102.6	109.7
C1	7.6	7.3	104.1	131.0	68.9	69.2	99.6	100.4	69.0	69.5	99.3	98.8	18.6	18.5	100.5	94.9	140	143	97.9	97.2
D1		6.9				69.8				70.5				19.3				143		
E1	7.6	7.4	102.7	131.0	68.7	68.6	100.1	100.1	68.8	68.9	99.8	98.6	19.8	20.2	98.0	101.0	145	147	98.6	100.7
G1	7.6	7.5	101.3	131.0	69.5	69.5	100.0	101.3	69.6	69.8	99.7	99.7	20.8	20.8	100.0	106.1	140	142	98.6	97.2
H1	6.2	6.2	100.0	106.9	68.3	68.1	100.3	99.6	69.5	69.2	100.4	99.6	20.2	20.3	99.5	103.1	134	135	99.2	93.0
K1	6.5	6.0	108.3	112.1	68.9	68.6	100.4	100.4	69.9	70.0	99.8	100.1	19.7	19.1	103.1	100.5	144	146	98.6	100.0
L1	5.6	5.5	101.8	96.6	68.9	69.6	99.0	100.4	69.5	70.2	99.0	99.6	19.2	19.3	99.5	98.0	140	140	100.0	97.2
M1	5.3	5.4	98.1	91.4	69.6	69.8	99.7	101.4	70.2	70.4	99.7	100.6	20.7	19.7	105.1	105.6	136	140	97.1	94.4
N1		7.4				69.4				69.7				18.8				143		
O1		5.1				67.9				69.9				19.9				144		
Q1						69.3				69.9				19.5				148		
R1	5.3	5.2	101.9	91.4	68.2	68.4	99.7	99.4	70.0	70.4	99.4	100.3	18.5	18.3	101.1	94.4	143	147	97.3	99.3
S1		6.3				69.2				69.4				19.8				133		
T1	3.6	3.9	92.3	62.1	66.2	66.6	99.4	96.5	69.2	69.4	99.7	99.1	23.5	18.2	129.1	119.9	153	154	99.4	106.2
U1		6.8				68.9				69.6				19.2				150		
V1	5.4	5.2	103.8	93.1	69.1	69.1	100.0	100.7	69.4	69.4	100.0	99.4	21.6	21.3	101.4	110.2	149	146	102.0	103.5
W1	4.8	4.6	104.3	82.8	67.3	66.9	100.6	98.1	69.5	69.3	100.3	99.6	19.0	20.0	95.0	96.9	139	143	97.2	96.5
Y1	6.0	5.6	107.1	103.4	68.6	68.1	100.7	100.0	70.0	69.8	100.3	100.3	19.5	19.2	101.6	99.5	132	136	97.0	91.7
Z1	6.1	5.1	119.6	105.2	68.0	67.8	100.3	99.1	69.2	69.8	99.1	99.1	17.6	18.7	94.1	89.8	156	148	105.4	108.3
B2	5.3	5.0	106.0	91.4	68.1	68.1	100.0	99.3	69.9	70.2	99.6	100.1	19.6	19.8	99.0	100.0	134	142	94.4	93.0
C2	6.4	6.8	94.1	110.3	69.1	68.9	100.3	100.7	69.3	69.2	100.1	99.3	20.0	19.5	102.6	102.0	141	149	94.6	97.9
D2		5.1				68.2				70.1				22.2				142		
E2	5.9	6.0	98.3	101.7	68.1	68.3	99.7	99.3	69.5	69.7	99.7	99.6	20.0	20.2	99.0	102.0	142	140	101.4	98.6
F2	5.1	4.7	108.5	87.9	70.3	69.6	101.0	102.5	70.5	70.7	99.7	101.0	19.8	19.6	101.0	101.0	148	153	96.7	102.8
G2	6.2	5.9	105.1	106.9	68.0	68.5	99.3	99.1	69.2	69.9	99.0	99.1	18.5	18.7	98.9	94.4	150	152	98.7	104.2
I2	6.6	6.6	100.0	113.8	68.5	69.2	99.0	99.8	69.4	70.1	99.0	99.4	18.9	19.1	99.0	96.4	140	145	96.6	97.2
J2	6.4	6.3	101.6	110.3	68.7	68.4	100.4	100.1	69.7	69.5	100.3	99.8	18.2	19.2	94.8	92.8	150	140	107.1	104.2
K2	5.7	5.9	96.6	98.3	69.0	69.1	99.8	100.6	69.2	69.3	99.8	99.1					143	147	97.3	99.3
O2	6.4	6.3	101.6	110.3	68.6	68.9	99.6	100.0	69.6	70.0	99.4	99.7	19.8	20.2	98.0	101.0	138	138	100.0	95.8
P2	6.2	6.2	100.0	106.9	68.0	69.2	98.3	99.1	69.2	70.3	98.4	99.1	18.3	19.1	95.8	93.4	153	155	98.7	106.2
R2	6.7	6.7	100.0	115.5	69.7	70.1	99.4	101.6	70.5	70.9	99.4	101.0	20.6	20.0	103.0	105.1	139	142	97.9	96.5
U2					68.8	69.2	99.4	100.3	69.6	69.7	99.8	99.7	20.2	20.0	101.0	103.1	144	144	100.0	100.0
V2	5.3	5.2	101.9	91.4	67.8	68.2	99.4	98.8	69.6	70.2	99.1	99.7	20.6	20.3	101.5	105.1	142	141	100.7	98.6
Z2	5.5	5.2	105.8	94.8	68.2	67.9	100.4	99.4	69.9	69.8	100.1	100.1	19.4	20.3	95.6	99.0	143	143	100.0	99.3
A3	5.5	5.5	100.0	94.8	69.3	68.6	101.0	101.0	69.5	69.7	99.7	99.6	20.1	19.6	102.6	102.6	145	146	99.3	100.7
FKI DATA																				
CUR.																				
AV.	5.9				68.6				69.6				19.6				143			
CUM.																				
AV.	5.8				68.6				69.8				19.6				144			
IND.																				
*D	101.7				100.0				99.7				100.0				99.3			

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, 1972

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	5.6	5.6	100.0	94.9	67.9	68.3	99.4	99.0	69.5	69.9	99.4	99.6	19.0	19.6	96.9	96.9	133	137	97.1	92.4	
B1	5.5	5.6	98.2	93.2	69.2	68.9	100.4	100.9	69.4	69.1	100.4	99.4	18.5	18.2	101.6	94.4	158	154	102.6	109.7	
C1	8.3	7.4	112.2	140.7	68.9	69.1	99.7	100.4	68.6	69.4	98.8	98.3	18.3	18.5	98.9	93.4	145	143	101.4	100.7	
D1		6.9				69.8				70.5				19.3				143			
E1	7.4	7.4	100.0	125.4	68.8	68.6	100.3	100.3	69.1	68.9	100.3	99.0	19.7	20.1	98.0	100.5	146	147	99.3	101.4	
G1	7.6	7.5	101.3	128.8	69.4	69.5	99.8	101.2	69.5	69.7	99.7	99.6	20.8	20.8	100.0	106.1	139	142	97.9	96.5	
H1	6.1	6.2	98.4	103.4	68.2	68.1	100.1	99.4	69.4	69.3	100.1	99.4	20.0	20.2	99.0	102.0	135	135	100.0	93.8	
K1	6.2	6.0	103.3	105.1	68.8	68.5	100.4	100.3	70.0	69.9	100.1	100.3	19.3	19.1	101.0	98.5	142	146	97.3	98.6	
L1	4.9	5.4	90.7	83.0	69.2	69.6	99.4	100.9	69.8	70.2	99.4	100.0	19.3	19.3	100.0	98.5	138	140	98.6	95.8	
M1	5.3	5.4	98.1	89.8	69.8	69.8	100.0	101.7	70.4	70.4	100.0	100.8	20.0	19.8	101.0	102.0	140	139	100.7	97.2	
N1		7.4				69.4				69.7				18.8				143			
O1	4.8	5.2	92.3	81.4	67.3	67.9	99.1	98.1	69.5	69.8	99.6	99.6	19.4	19.8	98.0	99.0	143	144	99.3	99.3	
Q1						69.3				69.9				19.6				147			
R1	5.4	5.2	103.8	91.5	68.2	68.4	99.7	99.4	70.0	70.4	99.4	100.3	18.6	18.3	101.6	94.9	145	146	99.3	100.7	
S1	5.1	6.4	79.7	86.4	69.7	69.3	100.6	101.6	69.9	69.5	100.6	100.1	19.4	19.7	98.5	99.0	140	139	100.7	97.2	
T1		3.9				66.5				69.3				18.6				155			
U1	7.1	6.8	104.4	120.3	68.0	68.9	98.7	99.1	68.5	69.6	98.4	98.1	19.5	19.2	101.6	99.5	144	150	96.0	100.0	
V1	5.7	5.3	107.5	96.6	69.0	69.1	99.8	100.6	69.3	69.4	99.8	99.3	21.1	21.3	99.1	107.6	145	146	99.3	100.7	
W1	4.6	4.6	100.0	78.0	67.0	67.0	100.0	97.7	69.3	69.3	100.0	99.3	19.4	19.9	97.5	99.0	140	143	97.9	97.2	
Y1	5.9	5.7	103.5	100.0	68.3	68.2	100.1	99.6	69.7	69.8	99.8	99.8	18.8	19.2	97.9	95.9	131	136	96.3	91.0	
Z1	5.5	5.2	105.8	93.2	67.5	67.8	99.6	98.4	69.2	69.7	99.3	99.1	17.1	18.6	91.9	87.2	152	150	101.3	105.6	
B2	4.6	5.0	92.0	78.0	67.7	68.1	99.4	98.7	70.1	70.2	99.8	100.4	19.9	19.8	100.5	101.5	136	140	97.1	94.4	
C2	6.5	6.8	95.6	110.2	69.6	68.9	101.0	101.4	69.8	69.2	100.9	100.0	20.0	19.5	102.6	102.0	157	148	106.1	109.0	
D2		5.1				68.2				70.1				22.2				142			
E2	6.1	6.0	101.7	103.4	68.4	68.3	100.1	99.7	69.6	69.6	100.0	99.7	20.1	20.2	99.5	102.6	143	140	102.1	99.3	
F2		4.7				69.6				70.5				19.7				153			
G2	6.1	5.9	103.4	103.4	68.6	68.4	100.3	100.0	69.8	69.8	100.0	100.0	19.0	18.7	101.6	96.9	152	151	100.7	105.6	
I2		6.6				69.1				70.0				19.0				145			
J2	6.8	6.3	107.9	115.2	69.2	68.4	101.2	100.9	70.0	69.5	100.7	100.3	18.8	19.0	98.9	95.9	154	142	108.4	106.9	
K2	5.8	5.9	98.3	98.3	68.8	69.1	99.6	100.3	69.0	69.3	99.6	98.8					144	147	98.0	100.0	
O2	5.4	6.3	85.7	91.5	68.8	68.9	99.8	100.3	70.6	70.0	100.8	101.1	20.3	20.1	101.0	103.6	138	138	100.0	95.8	
P2	6.1	6.2	98.4	103.4	68.2	69.0	98.8	99.4	69.4	70.2	98.9	99.4	17.9	19.1	93.7	91.3	153	155	98.7	106.2	
R2	6.9	6.7	103.0	116.9	69.3	70.0	99.0	101.0	70.0	70.8	98.9	100.3	20.1	20.1	100.0	102.6	138	141	97.9	95.8	
U2						68.7	69.1	99.4	100.1	69.6	69.6	100.0	99.7	19.8	20.0	99.0	101.0	144	144	100.0	100.0
V2	5.7	5.2	109.6	96.6	68.7	68.2	100.7	100.1	70.3	70.1	100.3	100.7	20.5	20.3	101.0	104.6	141	141	100.0	97.9	
Z2	5.7	5.2	109.6	96.6	68.4	67.8	100.9	99.7	70.0	69.7	100.4	100.3	19.0	20.1	94.5	96.9	143	143	100.0	99.3	
A3	5.4	5.5	98.2	91.5	69.5	68.7	101.2	101.3	69.7	69.7	100.0	99.8	20.4	19.7	103.6	104.1	144	146	98.6	100.0	
FKI DATA																					
CUR.																					
AV.	5.9				68.6				69.6				19.4				143				
CUM.																					
AV.	5.9				68.6				69.8				19.6				144				
IND.																					
*D	100.0				100.0				99.7				99.0				99.3				

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, 1972

CODE	MOISTURE CONTENT, PERCENT				BASIS WT., LB./ M SQ. FT.				ADJ. BASIS WT.,*A LB./ M SQ. FT.				CALIPER, PT.				BURSTING STRENGTH, P.S.I.G.				
	MACHINE DATA				MACHINE DATA				MACHINE DATA				MACHINE DATA				MACHINE DATA				
	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	
A1	4.5	5.4	83.3	72.6	90.4	90.2	100.2	101.1	93.7	92.5	101.3	103.2	25.3	25.2	100.4	99.2	161	163	98.8	92.5	
B1		5.5				90.2				90.5				23.8				189			
C1	8.4	8.0	105.0	135.5	89.9	90.8	99.0	100.6	89.3	90.6	98.6	98.3	24.3	24.4	99.6	95.3	169	174	97.1	97.1	
D1		7.3				91.1				91.6				25.6				169			
E1	7.8	7.8	100.0	125.8	89.9	89.6	100.3	100.6	89.9	89.6	100.3	99.0	26.1	26.5	98.5	102.4	169	173	97.7	97.1	
H1	6.4	6.4	100.0	103.2	88.3	87.5	100.9	98.8	89.6	88.9	100.8	98.7	25.5	26.1	97.7	100.0	161	164	98.2	92.5	
K1	6.6	6.3	104.8	106.4	89.7	89.3	100.4	100.3	90.9	90.8	100.1	100.1	25.0	24.8	100.8	98.0	179	181	98.9	102.9	
M1	6.0	5.6	107.1	96.8	90.4	90.8	99.6	101.1	91.2	91.6	99.6	100.4	27.0	26.4	102.3	105.9	164	165	99.4	94.2	
O1		5.4				88.5				90.8				25.6				171			
Q1						90.0				90.8				25.2				179			
T1		3.9				86.7				90.4				24.0				193			
U1		7.0				89.6				90.4				25.0				161			
V1	5.2	5.8	89.6	83.9	90.4	90.4	100.0	101.1	90.9	90.9	100.0	100.1	28.3	27.6	102.5	111.0	162	178	91.0	93.1	
W1		4.8				87.4				90.3				26.0				172			
Y1	5.7	5.7	100.0	91.9	89.3	89.0	100.3	99.9	91.4	91.0	100.4	100.7	24.8	25.2	98.4	97.2	161	163	98.8	92.5	
Z1		5.9				88.9				90.7				25.0				182			
C2		6.8				89.9				90.4				24.4				184			
E2	6.4	6.4	100.0	103.2	89.7	89.8	99.9	100.3	91.0	91.2	99.8	100.2	27.0	26.9	100.4	105.9	171	168	101.8	98.3	
G2	6.5	6.1	106.6	104.8	89.2	89.8	99.3	99.8	90.4	91.4	98.9	99.6	24.9	25.0	99.6	97.6	185	184	100.5	106.3	
I2	8.0	7.6	105.3	129.0	90.2	90.5	99.7	100.9	90.0	90.7	99.2	99.1	23.2	23.2	100.0	91.0	166	168	98.8	95.4	
J2		6.6				89.4				90.6				24.4				161			
K2	5.7	5.7	100.0	91.9	90.0	89.7	100.3	100.7	90.3	90.0	100.3	99.4					174	173	100.6	100.0	
O2	6.1	6.4	95.3	98.4	89.8	90.1	99.7	100.4	91.4	91.4	100.0	100.7	26.3	26.4	99.6	103.1	175	174	100.6	100.6	
U2						89.3	90.2	99.0	99.9	90.6	90.9	99.7	99.8	25.7	25.1	102.4	100.8	180	180	100.0	103.4
V2	5.1	5.3	96.2	82.2	88.8	88.8	100.0	99.3	91.4	91.2	100.2	100.7	27.4	26.3	104.2	107.4	168	167	100.6	96.6	
Z2	6.6	5.5	120.0	106.4	89.6	88.8	100.9	100.2	90.8	91.1	99.7	100.0	25.3	26.5	95.5	99.2	178	174	102.3	102.3	
A3	5.3	5.7	93.0	85.5	90.9	89.5	101.6	101.7	91.2	90.9	100.3	100.4	26.7	25.8	103.5	104.7	162	172	94.2	93.1	
FKI DATA																					
CUR.																					
AV. 6.3																					
CUM.																					
AV. 6.2																					
IND.																					
*D 101.6																					
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, 1972

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		5.2				90.1				92.6				25.3				162		
B1		5.5				90.2				90.5				23.8				189		
C1	8.3	8.0	103.8	133.9	89.7	90.6	99.0	100.2	89.3	90.4	98.8	98.3	24.5	24.4	100.4	96.1	173	174	99.4	100.0
D1		7.3				91.1				91.6				25.6				169		
E1	7.6	7.9	96.2	122.6	89.6	89.6	100.0	100.1	89.8	89.5	100.3	98.9	26.2	26.5	98.9	102.7	173	172	100.6	100.0
H1		6.4				87.6				89.0				26.0				164		
K1	6.3	6.3	100.0	101.6	89.5	89.3	100.2	100.0	90.9	90.7	100.2	100.1	24.8	24.8	100.0	97.2	177	181	97.8	102.3
M1	5.7	5.6	101.8	91.9	90.7	90.7	100.0	101.3	91.5	91.5	100.0	100.8	27.2	26.5	102.6	106.7	167	165	101.2	96.5
O1	4.8	5.5	87.3	77.4	87.4	88.4	98.9	97.6	90.3	90.6	99.7	99.4	24.6	25.4	96.8	96.5	168	172	97.7	97.1
Q1						90.0				90.8				25.5				180		
T1		3.9				86.7				90.4				24.0				193		
U1		7.0				89.6				90.4				25.0				161		
V1		5.8				90.4				90.9				27.6				177		
W1	4.7	4.8	97.9	75.8	87.4	87.4	100.0	97.6	90.4	90.3	100.1	99.6	25.5	26.0	98.1	100.0	158	172	91.9	91.3
Y1	5.8	5.6	103.6	93.5	89.4	89.0	100.4	99.9	91.4	91.1	100.3	100.7	25.6	25.2	101.6	100.4	162	163	99.4	93.6
Z1	5.3	5.9	89.8	85.5	88.5	88.9	99.6	98.9	90.9	90.7	100.2	100.1	24.1	25.0	96.4	94.5	176	182	96.7	101.7
C2	6.7	6.7	100.0	108.1	90.4	90.0	100.4	101.0	90.7	90.5	100.2	99.9	24.0	24.3	98.8	94.1	184	182	101.1	106.4
E2	6.9	6.4	107.8	111.3	90.2	89.8	100.4	100.8	91.1	91.2	99.9	100.3	26.2	26.9	97.4	102.7	172	168	102.4	99.4
G2	6.3	6.2	101.6	101.6	89.5	89.7	99.8	100.0	90.9	91.2	99.7	100.1	24.9	25.0	99.6	97.6	191	184	103.8	110.4
I2	7.9	7.6	103.9	127.4	90.4	90.5	99.9	101.0	90.3	90.6	99.7	99.4	23.4	23.2	100.9	91.8	165	168	98.2	95.4
J2	6.8	6.6	103.0	109.7	89.8	89.4	100.4	100.3	90.8	90.6	100.2	100.0	23.9	24.4	98.0	93.7	183	161	113.7	105.8
K2		5.7				89.8				90.0								174		
O2		6.4				90.1				91.5				26.3				174		
P2	6.6			106.4	89.2			99.7	90.4			99.6	23.8			93.3	178			102.9
U2						90.1				90.9				25.2				180		
V2		5.3				88.9				91.3				26.4				167		
Z2	5.5	5.6	98.2	88.7	90.2	89.0	101.3	100.8	92.5	91.1	101.5	101.9	26.2	26.3	99.6	102.7	173	174	99.4	100.0
A3	5.4	5.6	96.4	87.1	90.2	89.7	100.6	100.8	90.5	90.9	99.6	99.7	26.4	25.8	102.3	103.5	168	172	97.7	97.1
FKI DATA																				
CUR. AV. 6.3																				
CUM. AV. 6.2																				
IND. *D 101.6																				
100.0																				
99.9																				
98.4																				
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 FKI indexes are described in the Appendix.

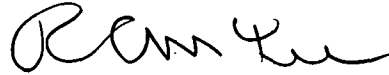
It should be explained that the number of machines for which data are compiled in each table for a specified month varies for these reasons: a machine must have (a) produced at least 500 tons of the pertinent grade weight during the specified month, or (b) produced 500 tons of the pertinent grade weight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

TABLE XIII
 DATA ON CONDITIONING AND TESTING ENVIRONMENTS
 NOVEMBER AND DECEMBER, 1972

Code	Conditioning Environment			Testing Environment
	Are Quality Samples Conditioned Before Testing?	Time	R.H., %	Temp., °F.
A1	No	--	--	--
B1	No	--	--	--
C1	No	--	--	--
D1	No	--	--	--
E1	No	--	--	--
F1	No data submitted for November and December			
G1	No	--	--	--
H1	Yes	10 min.	--	--
I1	No	--	--	--
J1	No data submitted for November and December			
K1	No	--	--	--
L1	Yes	--	73	50
M1	No	--	--	--
N1	No	--	--	--
O1	No	--	--	--
P1	No	--	--	--
Q1	Yes	Note ^a	--	--
R1	No	--	--	--
S1	No	--	--	--
T1	No	--	--	--
U1	No	--	--	--
V1	Yes	5-20 min.	--	--
W1	No	--	--	--
X1	No	--	--	--
Y1	No	--	--	--
Z1	No	--	--	--
A2	No	--	--	--
B2	No	--	--	--
C2	No	--	--	--
D2	No	--	--	--
E2	No	--	--	--
F2	Yes	15 min.	--	--
G2	No	--	--	--
H2	No data submitted for November and December			
I2	No	--	--	--
J2	No	--	--	--
K2	No	--	--	--
L2	Yes	10 min.	--	--
M2	No	--	--	--
N2	No	--	--	--
O2	No	--	--	--
P2	No	--	--	--
Q2	No	--	--	--
R2	No	--	--	--
S2	No	--	--	--
T2	No	--	--	--
U2	Yes	Note ^a	--	--
V2	No	--	--	--
W2	No	--	--	--
X2	No data submitted for November and December			
Y2	Yes	7 min.	--	--
Z2	Yes	--	--	--
A3	No	--	--	--
B3	No data submitted for November and December.			

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

THE INSTITUTE OF PAPER CHEMISTRY



R. C. McKee, Chairman
Container Section

APPENDIX

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

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

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

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

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

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

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

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

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

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

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

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