

BASE-LINE

2nd Quarter, 1981

CONTINUOUS BASE-LINE STUDY (MODIFIED)
(MILL LINERBOARD DATA FOR APRIL,
MAY, JUNE, 1981)

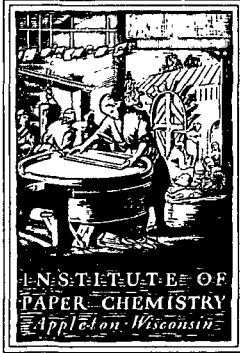
Project 2694-1

Report Eighty
A Progress Report

to

FOURDRINIER KRAFT BOARD GROUP
OF THE
AMERICAN PAPER INSTITUTE

August 31, 1981



THE INSTITUTE OF PAPER CHEMISTRY
Post Office Box 1039
Appleton, Wisconsin 54912
Phone: 414/734-9251

August 31, 1981

Project 2694-1

Dear Sir:

We are enclosing a copy of the following report to the Fourdrinier Kraft Board Group of the American Paper Institute:

Report Eighty, Project 2694-1, a progress report entitled "Continuous Baseline Study (Modified); Mill Linerboard Data for April, May, June, 1981" dated August 31, 1981

The code identities for paper machines in your company from which data were submitted for evaluation are given on the inside of the front cover of this report.

Sincerely,

A handwritten signature in cursive script that reads 'Roger H. Van Eperen'.

Roger H. Van Eperen
Manager, Materials Testing Laboratory
Paper Materials & Systems Division

RHV/sb
Enclosure

GEORGIA-PACIFIC CORPORATION

Your machine is identified in this report
by the following code.

Toledo Machine #1 S1

BASE-LINE
2nd QUARTER, 1981

THE INSTITUTE OF PAPER CHEMISTRY
Appleton, Wisconsin

CONTINUOUS BASE-LINE STUDY (MODIFIED)
(MILL LINERBOARD DATA FOR APRIL, MAY, JUNE, 1981)

Project 2694-1

Report Eighty

A Progress Report

to

FOURDRINIER KRAFT BOARD GROUP

OF THE

AMERICAN PAPER INSTITUTE

Information contained herein is furnished for your
internal use only and is not to be disseminated or
disclosed outside your company or copied or
otherwise reproduced without the express written
permission of The Institute of Paper Chemistry

August 31, 1981

TABLE OF CONTENTS

	Page	
SUMMARY	1	
INTRODUCTION	5	
PRESENTATION OF DATA	5	
Presentations (Tables):		
Table I-II-III	26-Lb Linerboard, Monthly Averages of Mill Data	6-7-8
Table IV-V-VI	33-Lb Linerboard, Monthly Averages of Mill Data	9-10-11
Table VII-VIII-IX	38-Lb Linerboard, Monthly Averages of Mill Data	12-13-14
Table X-XI-XII	42-Lb Linerboard, Monthly Averages of Mill Data	15-16-17
Table XIII-XIV-XV	69-Lb Linerboard, Monthly Averages of Mill Data	18-19-20
Table XVI-XVII-XVIII	90-Lb Linerboard, Monthly Averages of Mill Data	21-22-23
Table XIX	Data on Conditioning and Testing Environments	25
APPENDIX. NOTES A, B, C, AND D USED IN TABULATION OF MILL DATA		27

THE INSTITUTE OF PAPER CHEMISTRY

Appleton, Wisconsin

CONTINUOUS BASE-LINE STUDY (MODIFIED)
(MILL LINERBOARD DATA FOR APRIL, MAY, JUNE, 1981)

SUMMARY

PART I: SUMMARY OF MOISTURE CONTENT DATA
(March-June, 1981)

Linerboard Grade Wt.		Moisture Content			
		March	April	May	June
26 Lb	Max. ^a	6.1	6.2	6.8	6.6
	Min. ^a	2.8	2.2	2.5	1.6
	Av. ^b	4.7(15)	4.7(15)	5.0(17)	4.8(16)
33 Lb	Max. ^a	6.3	6.4	6.9	6.2
	Min. ^a	2.0	1.9	2.4	2.0
	Av. ^b	5.0(26)	4.8(23)	4.9(23)	4.9(25)
38 Lb	Max. ^a	6.3	6.3	6.5	6.3
	Min. ^a	4.2	4.5	3.9	4.4
	Av. ^b	5.4(21)	5.4(19)	5.4(20)	5.5(24)
42 Lb	Max. ^a	7.0	6.8	6.7	6.9
	Min. ^a	3.7	3.8	3.2	3.1
	Av. ^b	5.6(44)	5.6(41)	5.6(38)	5.5(41)
69 Lb	Max. ^a	7.8	7.6	7.8	7.7
	Min. ^a	3.9	4.3	4.1	4.8
	Av. ^b	6.2(30)	6.2(29)	6.2(25)	6.2(26)
90 Lb	Max. ^a	7.2	7.7	7.7	7.2
	Min. ^a	5.4	4.8	4.9	4.8
	Av. ^b	6.4(12)	6.4(14)	6.2(14)	6.3(14)

^aCurrent machine average.

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

PART II: SUMMARY OF ADJUSTED BASIS WEIGHT DATA
(MARCH-JUNE, 1981)

Linerboard Grade Wt.		Adjusted Basis Weight, lb/M ft ²			
		March	April	May	June
26 Lb	Max. ^a	28.6	28.9	28.8	27.0
	Min. ^a	26.0	25.8	25.9	26.0
	Av. ^b	26.7(15)	26.6(15)	26.5(17)	26.5(16)
33 Lb	Max. ^a	34.9	35.0	35.0	34.0
	Min. ^a	32.5	32.6	32.4	32.1
	Av. ^b	33.4(26)	33.4(23)	33.4(23)	33.3(25)
38 Lb	Max. ^a	40.0	39.4	39.7	39.2
	Min. ^a	38.1	38.0	38.0	37.9
	Av. ^b	38.6(21)	38.4(19)	38.4(20)	38.4(24)
42 Lb	Max. ^a	43.5	43.4	43.4	43.0
	Min. ^a	41.5	41.8	41.6	41.6
	Av. ^b	42.4(44)	42.4(41)	42.4(38)	42.4(41)
69 Lb	Max. ^a	70.8	70.7	70.7	70.7
	Min. ^a	67.3	67.6	68.2	68.2
	Av. ^b	69.5(30)	69.4(29)	69.4(25)	69.4(26)
90 Lb	Max. ^a	92.2	91.9	91.7	91.4
	Min. ^a	90.0	89.8	89.1	90.3
	Av. ^b	90.8(12)	90.6(14)	90.4(14)	90.6(14)

^aCurrent machine average.

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

PART III: SUMMARY OF CALIPER DATA
(MARCH-JUNE, 1981)

Linerboard Grade Wt.		Caliper, pt.			
		March	April	May	June
26 Lb	Max. ^a	9.0	8.4	8.9	9.1
	Min. ^a	6.7	7.2	7.0	7.0
	Av. ^b	8.0(15)	7.9(15)	7.9(17)	7.9(16)
33 Lb	Max. ^a	11.1	11.0	10.8	10.7
	Min. ^a	8.6	8.9	8.9	8.9
	Av. ^b	9.9(25)	9.9(22)	9.7(22)	9.7(24)
38 Lb	Max. ^a	12.3	12.0	12.1	12.1
	Min. ^a	10.1	9.6	9.7	9.2
	Av. ^b	11.0(20)	11.0(18)	11.0(19)	10.8(23)
42 Lb	Max. ^a	13.4	13.5	13.6	13.4
	Min. ^a	10.6	10.9	10.6	10.4
	Av. ^b	12.0(43)	12.1(40)	12.0(37)	11.9(40)
69 Lb	Max. ^a	22.4	21.2	21.8	21.8
	Min. ^a	17.4	17.8	17.8	17.9
	Av. ^b	19.8(30)	19.6(29)	19.8(25)	19.7(26)
90 Lb	Max. ^a	28.3	29.0	27.2	29.0
	Min. ^a	23.6	23.5	24.1	23.5
	Av. ^b	25.4(12)	26.1(14)	25.9(14)	25.6(14)

^aCurrent machine average.

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

PART IV: SUMMARY OF BURSTING STRENGTH DATA
(MARCH-JUNE, 1981)

Linerboard Grade Wt.		Bursting Strength, psig			
		March	April	May	June
26 Lb	Max. ^a	84	79	82	79
	Min. ^a	61	62	63	62
	Av. ^b	71(15)	70(15)	71(17)	71(16)
33 Lb	Max. ^a	99	93	97	97
	Min. ^a	75	74	78	78
	Av. ^b	85(26)	85(23)	85(23)	87(25)
38 Lb	Max. ^a	113	113	108	111
	Min. ^a	92	92	89	91
	Av. ^b	99(21)	100(19)	97(20)	99(24)
42 Lb	Max. ^a	118	120	113	118
	Min. ^a	96	96	99	97
	Av. ^b	105(44)	106(40)	104(38)	105(41)
69 Lb	Max. ^a	166	166	152	156
	Min. ^a	133	134	135	133
	Av. ^b	141(30)	143(29)	141(25)	141(26)
90 Lb	Max. ^a	188	176	180	194
	Min. ^a	160	160	158	161
	Av. ^b	170(12)	168(14)	168(14)	171(14)

^aCurrent machine average.

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

INTRODUCTION

The continuous base-line study (modified) is a compilation of monthly averages of mill test data obtained routinely on six major grade weights of linerboard manufactured in the member mills of F.K.B.G. Mill data are included for moisture content, basis weight, caliper, and bursting strength tests made on the production of individual machines which produced at least 500 tons of one or more of the following six major grade weights during a given month: 26, 33, 38, 42, 69, and 90 lb. At the Institute, the as-reported basis weight, corresponding to the as-reported moisture content, is adjusted to a moisture content of 7.8%. Both the as-reported and the adjusted basis weight averages are included in the report. Note that the moisture content at the as-reported basis weight (not shown in Tables) does not necessarily agree with the moisture content indicated in the report as measured at the reel. This is because some mills measure their basis weight at other than reel or standard conditions. The as-reported basis weight is included in the tables for reference only and should not be used for comparison purposes.

PRESENTATION OF DATA

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

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

TABLE I
AVERAGES OF ROUTINE MILL QUALITY CONTROL DATA FOR 26 LB FOURDRINIER KRAFT LINERBOARD
APRIL, 1981

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										
A1	4.0	102.5	85.4	26.2	26.0	100.8	100.8	27.2	27.0	100.7	102.2	7.3	7.6	96.0	90.1	68	75	90.7	97.1	
R1	6.2			26.0				26.1				7.6				63				
D1	4.7			26.4				26.5				8.1				72				
F1	4.3			26.0				27.0				8.3				73				
L1	4.7	106.8	97.9	26.5	26.9	98.5	101.9	26.6	27.0	98.5	100.0	7.6	8.1	93.8	93.8	67	67	100.0	95.7	
M1	4.5			25.3				26.2				7.6				71				
P1	4.4	95.6	91.7	25.7	25.7	100.0	98.8	26.7	26.6	100.4	100.4	7.9	7.9	100.0	97.5	69	68	101.5	98.6	
Q1	6.2	101.6	129.2	26.0	26.1	99.6	100.0	26.1	26.6	98.1	98.1	7.7	7.7	100.0	95.1	62	61	101.6	88.6	
J2	3.0	2.7	111.1	62.5	27.5	27.0	101.8	105.8	28.9	28.5	101.4	108.6	7.8	7.0	111.4	96.3	71	69	102.9	101.4
K2	2.2	4.3	51.2	45.8	25.3	25.4	99.6	97.3	26.8	26.4	101.5	100.8	8.0	7.3	109.6	98.8	72	75	96.0	102.8
M2	6.2			26.0				26.1				7.3				64				
R2	5.7			25.9				26.4				8.7				82				
W2	5.1	103.9	110.4	25.1	25.4	98.8	96.5	25.8	26.2	98.5	97.0	7.2	7.9	91.1	88.9	77	75	102.7	110.0	
X2	5.6			26.0				26.6				8.2				71				
A3	5.3	4.9	108.2	110.4	25.5	26.1	97.7	98.1	26.2	26.9	97.4	98.5	8.3	9.1	91.2	102.5	62	63	98.4	88.6
C3	5.2			25.9				26.6				7.6				72				
N3	4.5	4.9	91.8	93.8	26.1	26.1	100.0	100.4	26.2	26.2	100.0	98.5	8.2	8.3	98.8	101.2	69	72	95.8	98.6
T3	3.4			25.1				26.3				8.4				75				
V3	5.5	5.2	105.8	114.6	25.6	26.1	98.1	98.5	26.2	26.8	97.8	98.5	8.4	8.7	96.6	103.7	79	74	106.8	112.8
A4	5.7	5.4	105.6	118.8	26.1	26.2	99.6	100.4	26.7	26.8	99.6	100.4	8.1	7.9	102.5	100.0	68	65	104.6	97.1
E4	4.9	4.6	106.5	102.1	26.2	26.2	100.0	100.8	26.3	26.4	99.6	98.9	8.0	7.8	102.6	98.8	70	72	97.2	100.0
G4	5.1	5.1	100.0	106.2	25.6	25.7	99.6	98.5	26.3	26.4	99.6	98.9	7.5	8.0	93.8	92.6	73	70	104.3	104.3
H4	5.1	5.2	98.1	106.2	25.6	25.8	99.2	98.5	26.3	26.5	99.2	98.9	7.8	8.1	96.3	96.3	68	69	98.6	97.1
K4	4.1	3.3	124.2	85.4	26.0	26.1	99.6	100.0	26.1	26.2	99.6	98.1	8.1	8.0	101.2	100.0	74	72	102.8	105.7
L4	6.1			26.0				26.1				7.7				75				
T4	5.4			25.7				26.4				8.3				64				

FKRG UATA
CUR. AV. 4.7 25.9 26.6 7.9 70
CUM. AV. 4.8 26.0 26.6 8.1 70
IND. #C 7.9 99.6 100.0 97.5 100.0

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
MAY, 1981

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	CUM. AV.	FACT. *B	CUR. AV.	IND. *C	CUM. AV.	FACT. *B	CUR. AV.	IND. *C
A1	4.1	106.8	26.0	97.9	26.4	101.5	26.5	101.5	7.5	95.0
B1	6.2	100.0	26.0	93.8	25.5	100.8	26.4	101.3	7.6	96.2
D1	4.7	91.3	26.5	87.5	25.7	99.6	26.7	100.0	8.2	97.5
F1	4.3	109.7	26.0	141.7	26.1	100.4	26.2	96.1	8.3	92.5
L1	4.7	89.3	26.4	52.1	27.2	100.4	28.8	98.6	8.1	88.8
M1	4.5	106.8	26.5	97.9	26.4	101.5	26.5	101.5	7.6	95.0
P1	4.2	100.0	25.3	100.8	25.7	98.1	26.2	100.8	7.7	96.2
Q1	6.2	91.3	25.8	87.5	25.7	99.6	26.7	100.0	7.8	97.5
J2	2.5	89.3	27.2	52.1	27.2	100.4	28.8	100.7	7.4	88.8
K2	3.2	103.2	25.4	135.4	25.9	99.6	26.6	97.7	7.6	88.8
M2	6.5	103.2	25.9	135.4	25.9	99.6	26.0	97.7	7.0	87.5
R2	5.3	93.0	25.7	110.4	25.7	98.8	26.4	100.0	8.6	107.5
W2	5.5	107.8	25.3	114.6	25.3	99.6	25.9	97.4	7.6	95.0
X2	5.6	112.0	26.0	116.7	26.5	101.9	26.6	101.1	8.2	111.2
A3	5.6	112.0	26.5	116.7	26.5	101.9	27.1	101.9	8.9	111.2
C3	5.2	103.2	25.9	135.4	25.9	99.6	26.6	97.7	7.6	87.5
N3	4.5	91.8	26.2	93.8	26.2	100.4	26.3	100.4	8.2	102.5
T3	4.8	141.2	25.9	160.0	25.9	99.6	26.8	101.9	8.6	107.5
V3	5.2	107.7	25.6	116.7	25.6	98.5	26.2	97.8	8.1	101.2
A4	5.2	94.5	26.1	108.3	26.1	100.4	26.8	100.0	8.2	102.5
E4	5.1	110.9	26.2	106.2	26.1	100.4	26.2	99.6	7.7	96.2
G4	5.2	102.0	25.6	108.3	25.6	100.0	26.3	99.6	7.3	91.2
H4	5.4	105.9	25.8	112.5	25.8	100.4	26.5	100.0	8.2	102.5
K4	4.1	120.6	26.1	85.4	26.1	100.0	26.2	100.0	8.1	101.2
L4	6.1	104.2	26.0	104.2	26.0	100.4	26.2	101.2	7.7	105.7

FK6G DATA
CUR. AV. 5.0 26.0 7.9 71
CJM. AV. 4.8 26.6 8.0 70
IND. *C 104.2 100.0 99.6 98.8 101.4

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

TABLE III
AVERAGES OF ROUTINE MILL QUALITY CONTROL DATA FOR 26 LB FOURDRINIER KRAFT LINERBOARD
JUNE, 1981

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. #B	CUR. AV.	IND. #C	CUR. AV.	IND. #B	CUR. AV.	IND. #C							
MACHINE DATA																			
MACHINE DATA			MACHINE DATA			MACHINE DATA			MACHINE DATA			MACHINE DATA							
CUR. AV.	FACT. #B	IND. #C	CUR. AV.	FACT. #B	IND. #C	CUR. AV.	FACT. #B	IND. #C	CUR. AV.	FACT. #B	IND. #C	CUR. AV.	FACT. #B	IND. #C					
A1	4.1		26.0		27.1		7.5		73										
B1	6.2		26.0		26.1		7.5		63										
D1	4.8	102.1	100.0	26.2	26.6	98.5	100.8	26.3	26.6	98.9	98.9	7.7	8.0	96.2	79	74	106.8	112.8	
F1	4.3		26.0		27.0		8.3		73										
L1	4.6	104.5	95.8	26.2	26.8	97.8	100.8	26.3	26.9	97.8	98.9	7.7	8.0	96.2	68	67	101.5	97.1	
M1	4.5		25.4		26.3		7.6		71										
P1	4.4	97.8	91.7	25.7	25.8	99.6	98.8	26.7	26.7	100.0	100.4	7.9	7.8	101.3	64	69	92.8	91.4	
Q1	6.6	103.1	137.5	26.8	26.1	102.7	103.1	26.9	26.3	102.3	101.1	8.1	7.6	106.6	62	62	100.0	88.6	
J2	3.3	2.7	122.2	68.8	25.7	27.1	94.8	98.8	27.0	28.6	94.4	101.5	7.2	7.1	101.4	74	70	105.7	105.7
K2	1.6	3.2	50.0	33.3	25.1	25.4	98.8	96.5	26.8	26.6	100.8	100.8	8.2	7.6	107.9	69	74	93.2	98.6
N2	6.4		26.0		26.0		7.3		65										
R2	5.6		25.9		26.4		8.7		80										
W2	5.2	100.0	108.3	25.3	25.4	99.6	97.3	26.0	26.0	100.0	97.7	7.0	7.7	90.9	69	76	90.8	98.6	
X2	5.6		26.0		26.6		8.2		71										
A3	6.2	5.0	124.0	129.2	26.1	26.1	100.0	100.4	26.5	26.9	98.5	99.6	8.8	9.0	97.8	63	63	107.9	97.1
C3	5.7		25.9		26.6		7.6		72										
N3	4.7	4.8	97.9	97.9	26.2	26.1	100.4	100.8	26.3	26.2	100.4	98.9	8.1	8.3	97.6	74	72	102.8	105.7
T3	3.6		25.2		26.4		8.4		75										
V3	5.2	5.2	100.0	108.3	25.8	26.0	99.2	99.2	26.5	26.7	99.2	99.6	9.1	8.6	105.8	79	75	105.3	112.8
A4	5.5	5.4	101.8	114.6	26.2	26.2	100.0	100.8	26.9	26.8	100.4	101.1	7.8	8.0	97.5	68	65	104.6	97.1
E4	4.5	4.7	95.7	93.8	26.7	26.2	101.9	102.7	26.8	26.3	101.9	100.8	7.8	7.8	100.0	70	72	97.2	100.0
G4	5.4	5.1	105.9	112.5	25.8	25.6	100.8	99.2	26.5	26.4	100.4	99.6	7.4	7.9	93.7	76	71	107.0	108.6
H4	4.9	5.1	96.1	102.1	25.8	25.7	100.4	99.2	26.6	26.5	100.4	100.0	8.0	8.1	98.8	68	69	98.6	97.1
K4	3.7	3.5	105.7	77.1	26.0	26.1	99.6	100.0	26.1	26.2	99.6	98.1	7.9	8.0	98.8	74	72	102.8	105.7
L4	6.5	6.2	104.8	135.4	26.1	26.1	100.0	100.4	26.2	26.2	100.0	98.5	7.8	7.6	102.6	73	73	100.0	104.3

FKBG DATA

CUR. AV.	4.8	26.0	26.5	7.9	71
CUM. AV.	4.8	26.0	26.6	8.0	70
IND. #D	100.0	99.6	98.6	98.8	101.4

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
APRIL, 1981

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. #B	CUR. AV.	IND. #C	CUR. AV.	IND. #B	CUR. AV.	IND. #C							
A1	5.1	98.1	102.0	32.6	32.7	99.7	99.4	100.0	6.9	9.8	90.8	85.9	82	82	100.0	97.6	
R1	6.2			33.0			33.1			9.6				86			
D1	5.0	4.9	100.0	33.1	33.1	100.0	101.2	33.2	33.2	100.0	99.1	99.1	100.0	91	87	104.6	108.3
F1	4.5			32.6			33.8			9.4				87			
L1	5.2	4.8	108.3	33.1	33.4	99.1	101.2	33.2	33.5	99.1	99.1	95.0	97.0	80	81	98.8	95.2
M1	5.3			32.5			33.4			9.9				82			
P1	5.0	4.9	102.0	32.3	32.5	99.4	98.8	33.3	33.5	99.4	99.4	10.0	9.6	85	85	100.0	101.2
Q1	6.4	6.4	100.0	33.0	33.0	100.0	100.9	33.1	33.2	99.7	98.8	9.5	9.1	82	84	97.6	97.6
S1	3.4	3.2	106.2	32.5	32.4	100.3	99.4	32.8	32.6	100.6	97.9	9.9	9.6	80	81	98.8	95.2
U1	5.5			33.4			33.7			10.2				86			
V1	5.0			32.6			33.6			9.5				89			
X1	6.3	6.0	105.0	33.3	33.2	100.3	101.8	33.4	33.3	100.3	99.7			86	85	101.2	102.4
J2	3.1	3.4	91.2	33.3	33.4	99.7	101.8	35.0	35.0	100.0	104.5	9.2	8.4	88	85	103.5	104.8
K2	2.4	2.4	100.0	31.7	32.0	99.1	96.9	33.6	33.8	99.4	100.3	9.9	9.7	83	86	96.5	98.8
R2	5.5	5.4	101.8	32.4	32.3	100.3	99.1	33.2	33.1	100.3	99.1	10.0	10.0	96	94	102.1	114.3
W2	5.7	5.5	103.6	31.9	32.0	99.7	97.6	32.6	32.8	99.4	97.3	9.4	9.6	89	89	101.1	107.1
X2	6.2	6.2	100.0	32.5	32.6	99.7	99.4	33.1	33.2	99.7	98.8	9.8	9.5	84	82	102.4	100.0
A3	5.3	4.9	108.2	32.2	32.5	99.1	98.5	33.1	33.5	98.8	98.8	10.3	11.1	74	74	100.0	88.1
C3	4.7	5.2	90.4	32.2	32.4	99.4	98.5	33.3	33.3	100.0	99.4	9.8	9.6	88	90	57.8	104.8
J3	4.6			32.6			33.7			9.3				96			
L3	2.5	2.7	92.6	31.8	32.4	98.1	97.2	33.6	34.2	98.2	100.3	9.9	10.5	87	84	103.6	103.6
N3	4.9	5.6	87.5	33.2	33.1	100.3	101.5	33.3	33.2	100.3	99.4	9.3	9.8	91	87	104.6	108.3
T3	5.2	4.9	106.1	32.5	32.3	100.6	99.4	33.4	33.3	100.3	99.7	11.0	11.0	93	90	103.3	110.7
U3	1.9	1.7	111.8	32.1	32.0	100.3	98.2	34.2	34.1	100.3	102.1	10.6	9.9	84	86	97.7	100.0
V3	5.5	5.4	101.8	32.5	33.0	98.5	99.4	33.3	33.9	98.2	99.4	10.0	10.1	91	94	96.8	108.3
W3	2.3			33.9			35.9			10.0				76			
A4	5.7	5.7	100.0	33.2	33.3	99.7	101.5	34.0	34.1	99.7	101.5	10.5	10.0	81	79	102.5	96.4
E4	5.6	4.9	114.3	33.0	33.1	99.7	100.9	33.2	33.3	99.7	99.1	10.2	9.8	81	85	95.3	96.4
J4	5.3	5.6	94.6	32.4	32.6	99.4	99.1	33.3	33.3	100.0	99.4	9.7	10.3	90	83	108.4	107.1
H4	5.6	5.4	103.7	32.8	32.6	100.6	100.3	33.6	33.4	100.6	100.3	10.3	10.3	78	79	98.7	92.8
K4	5.0			32.9			33.0			10.1				90			
L4	6.1			33.2			33.2			10.2				92			

FKKG DATA
CUR. AV. 4.8 32.6 33.4 9.9 85
CUM. AV. 5.0 32.7 33.5 9.9 84
IND. #D 96.0 97.7 100.0 101.2

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

TABLE V
AVERAGES OF ROUTINE MILL QUALITY CONTROL DATA FOR 33 LB FOURDRINIER KRAFT LINERBOARD
MAY, 1981

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	CUM. AV.	FACT. #B	IND. #C	IND. #C	CUR. AV.	FACT. #B	IND. #C	CUM. AV.	FACT. #B	IND. #C								
A1	5.0	58.0	32.6	99.7	99.7	100.0	100.6	9.0	9.6	93.8	90.9	81	82	98.8	95.3					
B1	6.2		33.0			33.1			9.6				86							
D1	4.9	100.0	33.2	100.3	101.5	33.3	100.3	99.7	9.9	9.8	101.0	100.0	92	87	105.7	108.2				
F1	4.5		32.6			33.8			9.4				87							
L1	5.1	4.8	106.2	104.1	33.2	33.4	99.4	101.5	99.4	99.7	9.8	10.0	98.0	79	81	97.5	92.9			
M1	5.3	5.3	100.0	108.2	32.4	32.5	99.7	99.1	33.3	33.4	99.7	99.7	9.6	9.9	97.0	85	82	103.6	100.0	
P1	5.0	4.9	102.0	102.0	32.4	32.5	99.7	99.1	33.4	33.5	99.7	100.0	9.6	9.6	100.0	97.0	86	85	101.2	101.2
Q1	6.9	6.4	107.8	140.8	33.0	33.0	100.0	100.9	33.1	33.2	99.7	99.1	9.3	9.2	101.1	93.9	85	84	101.2	100.0
S1	3.3	3.2	103.1	67.3	32.1	32.3	99.4	98.2	32.4	32.6	99.4	97.0	10.0	9.5	105.3	101.0	84	81	103.7	98.8
U1	5.5		33.4			33.7			10.2				86							
V1	5.0		32.6			33.6			9.5				89							
X1	5.8	6.0	96.7	118.4	33.1	33.2	99.7	101.2	33.2	33.3	99.7	99.4	8.9	8.5	104.7	89.9	81	85	95.3	95.3
J2	3.2	3.4	94.1	65.3	33.3	33.4	99.7	101.8	35.0	35.0	100.0	104.8	8.9	8.5	104.7	89.9	82	86	95.3	96.5
K2	2.5	2.4	104.2	51.0	31.8	31.9	99.7	97.2	33.6	33.8	99.4	100.6	8.2	9.7	99.0	97.0	82	86	95.3	96.5
M2	6.5		132.6			33.0			99.1				88							
R2	5.1	5.4	94.4	104.1	32.3	32.3	100.0	98.8	33.2	33.1	100.3	99.4	10.2	10.0	102.0	103.0	89	94	94.7	104.7
W2	6.0	5.6	107.1	122.4	32.0	32.0	100.0	97.8	32.6	32.8	99.4	97.6	9.4	9.5	98.9	94.9	91	89	102.2	107.0
X2	6.1	6.2	98.4	124.5	32.5	32.6	99.7	99.4	33.1	33.2	99.7	99.1	9.2	9.6	95.8	92.9	84	83	101.2	98.8
A3	5.9	4.9	120.4	120.4	32.5	32.4	100.3	99.4	33.2	33.5	99.1	99.4	10.3	11.0	93.6	104.0	81	74	109.4	95.3
C3	5.1		32.4			33.3			9.6				90							
J3	4.6		32.6			33.7			9.3				96							
L3	2.4	2.7	88.9	49.0	32.3	32.3	100.0	98.8	34.2	34.0	100.6	102.4	10.0	10.3	97.1	101.0	87	84	103.6	102.4
N3	5.0	5.0	90.9	102.0	33.1	33.1	100.0	101.2	33.2	33.2	100.0	99.4	9.3	9.8	94.9	93.9	84	87	96.6	98.8
T3	5.0		32.4			33.3			11.1				90							
U3	2.6	1.7	152.9	53.1	32.4	32.0	101.2	99.1	34.2	34.1	100.3	102.4	10.8	9.9	109.1	109.1	83	85	97.6	97.6
V3	5.4	5.4	100.0	110.2	32.5	33.0	98.5	99.4	33.3	33.8	98.5	99.7	9.5	10.1	94.0	96.0	97	94	103.2	114.1
W3	2.3		33.9			35.9			10.0				76							
A4	5.5	5.6	98.2	112.2	33.0	33.2	99.4	100.9	33.8	34.0	99.4	101.2	10.0	10.0	100.0	101.0	78	80	97.5	91.8
E4	5.3	5.0	106.0	108.2	33.0	33.1	99.7	100.9	33.2	33.3	99.7	99.4	9.8	9.9	99.0	99.0	84	84	100.0	98.8
G4	5.5	5.5	100.0	112.2	32.5	32.5	100.0	99.4	33.3	33.3	100.0	99.7	9.3	10.3	90.2	93.9	91	83	109.6	107.0
H4	5.4	5.4	100.0	110.2	32.4	32.6	99.4	99.1	33.2	33.5	99.1	99.4	10.3	10.3	100.0	104.0	78	79	98.7	91.8
L4	5.0		32.9			33.0			10.1				90							
L4	6.1		33.2			33.2			10.2				92							

FKRG DATA
CUR. AV. 4.9 32.6 9.7 85
CUM. AV. 4.9 32.7 9.9 85
IND. #D 100.0 99.7 98.0 100.0

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

TABLE VI
AVERAGES OF ROUTINE MILL QUALITY CONTROL DATA FOR 33 LB FOURDRINIER KRAFT LINERBOARD
JUNE, 1981

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.	IND. #C	CUR. AV.	IND. #B	CUR. AV.	IND. #C	CUR. AV.	IND. #B	CUR. AV.	IND. #C										
A1	5.0	98.0	102.0	32.7	32.6	100.3	100.0	33.7	33.6	100.3	100.9	8.9	9.5	93.7	90.8	78	82	95.1	91.8	
B1	6.2	106.1	106.1	33.1	33.0	100.0	101.2	33.2	33.2	100.0	99.4	9.7	9.8	99.0	99.0	96	88	109.1	112.9	
D1	4.9	100.0	91.8	32.3	32.6	99.1	98.8	33.5	33.8	99.1	100.3	9.2	9.4	97.9	93.9	97	87	111.5	114.1	
F1	4.5	104.2	102.0	33.1	33.5	98.8	101.2	33.2	33.6	98.8	99.4	9.4	10.0	94.0	95.9	81	80	101.2	95.3	
L1	5.1	96.2	104.1	32.4	32.5	99.7	99.1	33.3	33.4	99.7	99.7	9.6	9.8	98.0	98.0	85	82	103.6	100.0	
M1	5.1	104.1	104.1	32.6	32.5	100.3	99.7	33.5	33.5	100.0	100.3	9.9	9.6	103.1	101.0	82	85	96.5	96.5	
P1	6.2	96.9	126.5	33.0	33.0	100.0	100.9	33.1	33.2	99.7	99.1	9.3	9.2	101.1	94.9	86	84	102.4	101.2	
Q1	3.5	3.2	109.4	71.4	31.8	32.3	98.4	97.2	32.1	32.6	98.5	96.1	9.6	9.6	100.0	98.0	88	81	108.6	103.5
S1	5.5	5.0	98.0	102.0	32.7	32.6	100.3	100.0	33.7	33.7	100.3	100.9	8.9	9.5	93.7	90.8	78	82	95.1	91.8
U1	5.0	6.2	106.1	106.1	33.1	33.0	100.0	101.2	33.2	33.2	100.0	99.4	9.7	9.8	99.0	99.0	96	88	109.1	112.9
V1	4.9	100.0	91.8	32.3	32.6	99.1	98.8	33.5	33.8	99.1	100.3	9.2	9.4	97.9	93.9	97	87	111.5	114.1	
X1	4.5	104.2	102.0	33.1	33.5	98.8	101.2	33.2	33.6	98.8	99.4	9.4	10.0	94.0	95.9	81	80	101.2	95.3	
Y1	5.1	96.2	104.1	32.4	32.5	99.7	99.1	33.3	33.4	99.7	99.7	9.6	9.8	98.0	98.0	85	82	103.6	100.0	
Z1	5.1	104.1	104.1	32.6	32.5	100.3	99.7	33.5	33.5	100.0	100.3	9.9	9.6	103.1	101.0	82	85	96.5	96.5	
A2	6.2	96.9	126.5	33.0	33.0	100.0	100.9	33.1	33.2	99.7	99.1	9.3	9.2	101.1	94.9	86	84	102.4	101.2	
B2	3.5	3.2	109.4	71.4	31.8	32.3	98.4	97.2	32.1	32.6	98.5	96.1	9.6	9.6	100.0	98.0	88	81	108.6	103.5
C2	5.5	5.0	98.0	102.0	32.7	32.6	100.3	100.0	33.7	33.7	100.3	100.9	8.9	9.5	93.7	90.8	78	82	95.1	91.8
D2	5.0	6.2	106.1	106.1	33.1	33.0	100.0	101.2	33.2	33.2	100.0	99.4	9.7	9.8	99.0	99.0	96	88	109.1	112.9
E2	4.9	100.0	91.8	32.3	32.6	99.1	98.8	33.5	33.8	99.1	100.3	9.2	9.4	97.9	93.9	97	87	111.5	114.1	
F2	4.5	104.2	102.0	33.1	33.5	98.8	101.2	33.2	33.6	98.8	99.4	9.4	10.0	94.0	95.9	81	80	101.2	95.3	
G2	5.1	96.2	104.1	32.4	32.5	99.7	99.1	33.3	33.4	99.7	99.7	9.6	9.8	98.0	98.0	85	82	103.6	100.0	
H2	5.1	104.1	104.1	32.6	32.5	100.3	99.7	33.5	33.5	100.0	100.3	9.9	9.6	103.1	101.0	82	85	96.5	96.5	
I2	6.2	96.9	126.5	33.0	33.0	100.0	100.9	33.1	33.2	99.7	99.1	9.3	9.2	101.1	94.9	86	84	102.4	101.2	
J2	3.5	3.2	109.4	71.4	31.8	32.3	98.4	97.2	32.1	32.6	98.5	96.1	9.6	9.6	100.0	98.0	88	81	108.6	103.5
K2	5.5	5.0	98.0	102.0	32.7	32.6	100.3	100.0	33.7	33.7	100.3	100.9	8.9	9.5	93.7	90.8	78	82	95.1	91.8
L2	5.0	6.2	106.1	106.1	33.1	33.0	100.0	101.2	33.2	33.2	100.0	99.4	9.7	9.8	99.0	99.0	96	88	109.1	112.9
M2	4.9	100.0	91.8	32.3	32.6	99.1	98.8	33.5	33.8	99.1	100.3	9.2	9.4	97.9	93.9	97	87	111.5	114.1	
N2	4.5	104.2	102.0	33.1	33.5	98.8	101.2	33.2	33.6	98.8	99.4	9.4	10.0	94.0	95.9	81	80	101.2	95.3	
O2	5.1	96.2	104.1	32.4	32.5	99.7	99.1	33.3	33.4	99.7	99.7	9.6	9.8	98.0	98.0	85	82	103.6	100.0	
P2	5.1	104.1	104.1	32.6	32.5	100.3	99.7	33.5	33.5	100.0	100.3	9.9	9.6	103.1	101.0	82	85	96.5	96.5	
Q2	6.2	96.9	126.5	33.0	33.0	100.0	100.9	33.1	33.2	99.7	99.1	9.3	9.2	101.1	94.9	86	84	102.4	101.2	
R2	3.5	3.2	109.4	71.4	31.8	32.3	98.4	97.2	32.1	32.6	98.5	96.1	9.6	9.6	100.0	98.0	88	81	108.6	103.5
S2	5.5	5.0	98.0	102.0	32.7	32.6	100.3	100.0	33.7	33.7	100.3	100.9	8.9	9.5	93.7	90.8	78	82	95.1	91.8
T2	5.0	6.2	106.1	106.1	33.1	33.0	100.0	101.2	33.2	33.2	100.0	99.4	9.7	9.8	99.0	99.0	96	88	109.1	112.9
U2	4.9	100.0	91.8	32.3	32.6	99.1	98.8	33.5	33.8	99.1	100.3	9.2	9.4	97.9	93.9	97	87	111.5	114.1	
V2	4.5	104.2	102.0	33.1	33.5	98.8	101.2	33.2	33.6	98.8	99.4	9.4	10.0	94.0	95.9	81	80	101.2	95.3	
W2	5.1	96.2	104.1	32.4	32.5	99.7	99.1	33.3	33.4	99.7	99.7	9.6	9.8	98.0	98.0	85	82	103.6	100.0	
X2	5.1	104.1	104.1	32.6	32.5	100.3	99.7	33.5	33.5	100.0	100.3	9.9	9.6	103.1	101.0	82	85	96.5	96.5	
Y2	6.2	96.9	126.5	33.0	33.0	100.0	100.9	33.1	33.2	99.7	99.1	9.3	9.2	101.1	94.9	86	84	102.4	101.2	
Z2	3.5	3.2	109.4	71.4	31.8	32.3	98.4	97.2	32.1	32.6	98.5	96.1	9.6	9.6	100.0	98.0	88	81	108.6	103.5
A3	5.5	5.0	98.0	102.0	32.7	32.6	100.3	100.0	33.7	33.7	100.3	100.9	8.9	9.5	93.7	90.8	78	82	95.1	91.8
B3	5.0	6.2	106.1	106.1	33.1	33.0	100.0	101.2	33.2	33.2	100.0	99.4	9.7	9.8	99.0	99.0	96	88	109.1	112.9
C3	4.9	100.0	91.8	32.3	32.6	99.1	98.8	33.5	33.8	99.1	100.3	9.2	9.4	97.9	93.9	97	87	111.5	114.1	
D3	4.5	104.2	102.0	33.1	33.5	98.8	101.2	33.2	33.6	98.8	99.4	9.4	10.0	94.0	95.9	81	80	101.2	95.3	
E3	5.1	96.2	104.1	32.4	32.5	99.7	99.1	33.3	33.4	99.7	99.7	9.6	9.8	98.0	98.0	85	82	103.6	100.0	
F3	5.1	104.1	104.1	32.6	32.5	100.3	99.7	33.5	33.5	100.0	100.3	9.9	9.6	103.1	101.0	82	85	96.5	96.5	
G3	6.2	96.9	126.5	33.0	33.0	100.0	100.9	33.1	33.2	99.7	99.1	9.3	9.2	101.1	94.9	86	84	102.4	101.2	
H3	3.5	3.2	109.4	71.4	31.8	32.3	98.4	97.2	32.1	32.6	98.5	96.1	9.6	9.6	100.0	98.0	88	81	108.6	103.5
I3	5.5	5.0	98.0	102.0	32.7	32.6	100.3	100.0	33.7	33.7	100.3	100.9	8.9	9.5	93.7	90.8	78	82	95.1	91.8
J3	5.0	6.2	106.1	106.1	33.1	33.0	100.0	101.2	33.2	33.2	100.0	99.4	9.7	9.8	99.0	99.0	96	88	109.1	112.9
K3	4.9	100.0	91.8	32.3	32.6	99.1	98.8	33.5	33.8	99.1	100.3	9.2	9.4	97.9	93.9	97	87	111.5	114.1	
L3	4.5	104.2	102.0	33.1	33.5	98.8	101.2	33.2	33.6	98.8	99.4	9.4	10.0	94.0	95.9	81	80	101.2	95.3	
M3	5.1	96.2	104.1	32.4	32.5	99.7	99.1	33.3	33.4	99.7	99.7	9.6	9.8	98.0	98.0	85	82	103.6	100.0	
N3	5.1	104.1	104.1	32.6	32.5	100.3	99.7	33.5	33.5	100.0	100.3	9.9	9.6	103.1	101.0	82	85	96.5	96.5	
O3	6.2	96.9	126.5	33.0	33.0	100.0	100.9	33.1	33.2	99.7	99.1	9.3	9.2	101.1	94.9	86	84	102.4	101.2	
P3	3.5	3.2	109.4	71.4	31.8	32.3	98.4	97.2	32.1	32.6	98.5	96.1	9.6	9.6	100.0	98.0	88	81	108.6	103.5
Q3	5.5	5.0	98.0	102.0	32.7	32.6	100.3	100.0	33.7	33.7	100.3	100.9	8.9	9.5	93.7	90.8	78	82	95.1	91.8
R3	5.0	6.2	106.1	106.1	33.1	33.0	100.0	101.2	33.2	33.2	100.0	99.4	9.7	9.8	99.0	99.0	96	88	109.1	112.9
S3	4.9																			

TABLE VII
AVERAGES OF ROUTINE MILL QUALITY CONTROL DATA FOR 38 LB FOURDRINIER KRAFT LINERBOARD
APRIL, 1981

CCODE	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. #C	CUR. AV.	IND. #B	CUR. AV.	IND. #C	CUR. AV.	IND. #B	CUR. AV.
A1	5.1	107.8	37.6	100.5	38.7	100.0	99.2	11.3	94	110.3	109.2
D1	5.5	107.8	38.2	100.5	38.3	100.0	99.2	11.5	97	110.3	109.2
F1	4.7	54.0	37.0	97.4	38.3	98.4	99.2	10.6	102	99	103.0
L1	4.7	54.0	37.0	97.4	38.3	98.4	99.2	10.6	102	99	103.0
P1	5.3	96.4	37.4	99.5	38.4	99.7	99.5	11.3	96	97	99.0
U1	5.5	105.7	37.4	100.3	38.7	99.7	99.2	11.1	98	111.1	112.2
V1	5.6	105.7	37.4	100.3	38.3	100.3	99.2	10.5	110	99	111.1
X1	6.0	101.7	38.2	100.5	38.3	100.3	99.2	10.5	93	93	100.0
Y1	6.1	107.0	38.0	100.0	38.7	99.5	100.2	11.7	95	95	100.0
I2	5.5	103.8	38.9	102.4	39.0	98.5	101.0	10.6	95	96	99.0
J2	4.8	109.1	38.1	99.0	39.4	98.7	102.1	9.6	96	95	101.0
K2	2.4	96.3	36.4	97.6	38.6	98.7	102.1	10.6	98	98	101.0
R2	5.4	96.3	37.1	100.3	38.1	100.5	98.7	11.7	110	107	102.8
V2	5.4	100.0	38.3	100.8	38.4	100.0	99.5	10.2	99	99	100.0
W2	5.4	88.5	37.0	97.4	38.0	100.5	98.4	11.2	99	102	97.0
X2	6.4	103.7	37.4	100.0	38.0	100.5	98.4	11.2	98	98	101.0
Y2	5.6	86.5	38.3	97.9	38.6	99.7	99.7	10.9	95	95	102.8
C3	4.5	86.5	37.2	100.8	38.5	100.2	100.0	11.3	100	101	59.0
J3	6.3	108.6	37.8	100.8	38.6	100.2	100.0	10.4	113	105	107.6
L3	4.3	91.8	38.3	100.0	39.8	100.0	98.7	11.8	98	98	101.0
N3	5.6	91.8	38.0	100.0	38.1	100.0	98.7	10.9	99	95	104.2
T3	5.8	103.7	37.6	100.0	38.4	100.0	98.7	11.1	103	103	101.0
U3	5.2	86.5	38.8	99.2	40.0	99.2	99.7	11.8	94	94	101.0
V3	5.3	116.7	37.9	100.8	38.9	100.0	100.0	11.8	105	105	107.6
W3	5.3	116.7	37.9	100.8	38.9	100.0	100.0	11.8	105	105	107.6
Z3	5.8	101.8	38.3	100.8	39.5	99.7	99.5	11.9	98	99	99.0
C4	5.0	98.0	38.1	100.3	38.5	99.2	99.0	12.0	98	98	100.0
E4	6.0	115.4	38.0	100.0	38.2	100.0	99.0	10.9	99	98	101.0
H4	5.2	94.5	37.3	98.2	38.3	100.0	99.2	11.2	93	96	96.9
K4	5.6	101.8	38.1	100.3	38.2	99.0	99.0	11.5	92	93	98.9
									98	102	96.1

FKBG DATA

CUR. AV.	37.8	38.4	11.0	100
CUM. AV.	38.0	38.6	11.0	98
IND. #D	99.5	99.5	100.0	102.0

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

TABLE VIII
AVERAGES OF ROUTINE MILL QUALITY CONTROL DATA FOR 38 LB FOURDRINIER KRAFT LINERBOARD
MAY, 1981

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.	CUM. AV.	IND. #C	CUR. AV.	CUM. AV.	IND. #C	CUR. AV.	CUM. AV.	IND. #C	CUR. AV.	CUM. AV.	IND. #C	CUR. AV.	CUM. AV.	IND. #C
A1	5.1	37.6		38.7			11.2			96					
C1	5.2	38.2	101.8	38.2	100.0	100.5	38.3	38.3	100.0	99.2	11.3	11.1	101.8	102.7	97
F1	4.9	37.7		38.9			10.6			99					
L1	4.7	39.0					11.2			95					
P1	5.3	37.4	98.1	37.4	99.5	98.4	38.4	38.5	99.7	99.5	11.0	11.1	99.1	100.0	97
U1	5.6	38.3	103.7	38.3	100.8	99.7	38.6	38.7	99.7	100.0	10.7	11.2	95.5	97.3	102
V1	5.3	37.3		38.4			10.5			99					
X1	5.7	33.1	105.6	38.1	100.0	100.3	38.2	38.2	100.0	99.0	11.6	11.0	105.4	105.4	89
Y1	5.8	38.0	107.4	38.0	99.7	100.0	38.8	38.9	99.7	100.5	10.4	10.5	105.4	105.4	96
F2	5.2	37.4	96.3	37.4	98.4	98.4	38.4		99.5	99.5	10.4	10.4	105.4	105.4	99
I2	5.4	38.9	100.0	38.9	99.5	98.5	39.0	39.6	98.5	101.0	10.7	11.2	95.5	97.3	94
J2	4.4	38.3	81.5	38.3	99.7	100.8	39.7	39.8	99.7	102.8	9.7	9.8	99.0	88.2	91
K2	2.4	36.4					38.6				10.6				98
R2	5.4	37.1	96.3	37.1	100.3	97.6	38.1	38.0	100.3	98.7	11.9	11.4	104.4	108.2	101
V2	5.5	38.3	101.8	38.3	100.0	100.8	38.4	38.4	100.0	99.5	10.0	10.3	97.1	90.9	95
W2	6.2	36.9	114.8	36.9	97.1	99.5	37.5	37.9	98.9	97.2	11.1	11.5	96.5	100.9	99
X2	6.4	37.4		38.0			10.9			92					
Y2	5.6	38.3		38.6			10.3			95					
C3	5.0	36.9	92.6	36.9	97.1	98.4	38.0	38.6	98.4	98.4	10.8	11.2	96.4	98.2	98
J3	5.5	37.7	101.8	37.7	100.0	99.2	38.6	38.5	100.2	100.0	10.3	10.0	103.0	93.6	105
L3	3.9	37.6	72.2	37.6	98.2	98.9	39.2	39.8	98.5	101.6	11.2	11.8	94.9	101.8	97
N3	6.1	38.0		38.1			11.1				11.1				98
T3	5.8	37.5	120.4	37.5	99.7	98.7	38.0	38.4	99.0	98.4	10.9	11.1	98.2	95.1	108
U3	5.2	38.8		40.0			11.8			103					
V3	5.3	37.5	101.8	37.5	98.9	98.7	38.4	38.9	98.7	99.5	11.8	11.8	100.0	107.3	96
Z3	5.6	37.9	103.7	37.9	98.4	98.7	38.0	38.5	98.7	98.4	12.1	12.1	100.0	110.0	97
D4	5.5	38.2	101.8	38.2	99.5	100.5	38.3	38.5	99.5	99.2	11.3	10.7	105.6	102.7	98
E4	5.8	38.0	107.4	38.0	100.0	100.0	38.2	38.2	100.0	99.0	11.3	11.1	101.8	102.7	93
H4	5.3	37.4	98.1	37.4	99.7	98.4	38.4	38.5	99.7	99.5	11.4	11.4	100.0	103.6	89
K4	5.5	38.0		38.1			11.3			102					

FRUG DATA
CUR. AV. 5.4 37.8
CUM. AV. 5.4 38.0
IND. #D 100.0 99.5

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

TABLE IX
AVERAGES OF ROUTINE MILL QUALITY CONTROL DATA FOR 38 LB FOURDRINIER KRAFT LINERBOARD
JUNE, 1981

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 *C	CUR. AV.	IND. *B *C	CUR. AV.	IND. *B *C	CUR. AV.	IND. *B *C	CUR. AV.	IND. *B *C
A1	5.1		37.6		38.7		11.2		96	
D1	5.4	103.8	100.0	38.3	100.3	99.5	11.4	102.7	103.6	102
F1	4.6	93.9	85.2	37.1	37.7	98.4	97.6	10.8	101.9	105
L1	4.7		39.0		39.1		11.2		95	
P1	5.4	100.0	100.0	37.6	37.6	100.0	98.9	11.1	100.0	94
T1	5.9	109.2		37.7		99.2	99.7	10.2	92.7	98
U1	5.6	100.0	103.7	38.4	38.4	100.0	101.0	10.6	11.1	95.5
V1	5.9	111.3	109.2	37.3	37.3	100.0	98.2	10.5	101.0	98
X1	5.8	6.0	96.7	107.4	38.3	38.1	100.5	100.8	38.4	38.2
Y1	5.6	5.8	96.6	103.7	37.9	38.2	99.2	99.7	99.5	100.5
F2	5.1	5.2	98.1	94.4	37.2	37.4	99.5	97.9	38.3	38.4
I2	5.5	5.3	103.8	101.8	38.8	39.4	98.5	102.1	38.9	39.5
J2	4.9	4.5	108.9	90.7	37.4	38.4	97.4	98.4	38.6	39.8
K2	2.4		36.4		38.6				10.6	
R2	5.3		37.0		38.0		11.5		106	
V2	5.5	5.4	101.8	101.8	38.3	38.3	100.0	100.8	38.4	38.4
W2	5.4	6.0	50.0	100.0	36.9	37.1	99.5	97.1	37.9	37.8
X2	6.4		37.4		38.0		10.9		92	
Y2	5.6		38.3		38.6		10.3		95	
C3	5.0	5.2	92.6	92.6	37.3	37.4	99.7	98.2	38.4	38.5
J3	5.5	5.9	93.2	101.8	37.5	37.7	99.5	98.7	38.4	38.5
L3	4.4	4.1	107.3	81.5	37.8	38.0	99.5	99.5	39.2	39.5
N3	5.8	6.0	96.7	107.4	38.2	38.0	100.5	100.5	38.3	38.1
T3	6.3	6.0	105.0	116.7	37.7	37.7	100.0	99.2	38.3	38.4
U3	5.2		38.8		40.0		11.8		104	
V3	5.9	5.3	111.3	109.2	37.5	37.8	99.2	98.7	38.3	38.8
Z3	5.9	5.7	103.5	109.2	38.1	38.3	99.5	100.3	38.2	38.4
D4	5.7	5.1	111.8	105.6	38.1	38.4	99.2	100.3	38.2	38.5
E4	5.9	5.3	111.3	109.2	38.0	38.0	100.0	100.0	38.2	38.2
H4	5.3	5.4	98.1	98.1	37.6	37.5	100.3	98.9	38.6	38.5
K4	6.0	5.5	109.1	111.1	38.0	38.0	100.0	100.0	38.1	38.1

FKBG DATA		MACHINE DATA		MACHINE DATA	
CUR. AV.	IND. *B *C	CUR. AV.	IND. *B *C	CUR. AV.	IND. *B *C
5.5		39.4		10.8	
5.4		38.6		11.0	
*D 101.8		99.5		98.2	

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

TABLE X
AVERAGES OF ROUTINE MILL QUALITY CONTROL DATA FOR 42 LB FOURDRINIER KRAFT LINERBOARD
APRIL, 1981

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.	FACT. #B	IND. #C	CUR. AV.	FACT. #B	IND. #C	CUR. AV.	FACT. #B	IND. #C	CUR. AV.	FACT. #B	IND. #C	CUR. AV.	FACT. #B	IND. #C					
A1	5.8	5.6	103.6	103.6	41.6	41.5	100.2	99.5	42.5	42.6	99.8	100.0	11.6	12.1	95.9	96.7	102	98	104.1	97.1
D1	5.5	5.4	101.8	98.2	42.2	42.1	100.2	101.0	42.3	42.2	100.2	99.5	12.2	12.2	100.0	101.7	109	105	103.8	103.8
E1	5.1	5.1			41.4	41.4			42.6	42.6			12.3	12.3			108	108		
F1	4.9	5.0	98.0	87.5	41.1	41.4	99.3	98.3	42.4	42.6	99.5	99.8	12.0	11.8	101.7	100.0	105	104	98.1	97.1
L1	5.8	5.1	113.7	103.6	42.2	42.6	99.1	101.0	42.3	42.7	99.1	99.5	11.9	12.1	97.5	99.2	102	102	100.0	97.1
M1	4.9	4.9	100.0	103.4	41.3	41.5	99.5	98.8	42.2	42.3	99.8	99.3	12.3	12.5	98.4	102.5	116	114	101.8	110.5
N1	5.1	5.1			40.9	40.8	100.2	97.8	42.2	42.1	100.2	99.3	12.0	12.0			111	111		
O1	5.5	5.6	98.2	98.2	41.4	41.4	100.0	99.0	42.4	42.6	100.0	99.8	12.5	12.3	101.6	104.2	104	106	98.1	99.0
P1	6.2	6.7	92.5	110.7	42.0	42.0	100.0	100.5	42.1	42.2	99.5	99.0	11.4	11.3	100.9	95.0	103	103	100.0	98.1
S1	3.8	3.7	102.7	87.8	41.6	41.5	100.2	99.5	42.0	41.9	100.2	98.8	12.9	12.5	103.2	107.5	120	101	118.8	114.3
T1	6.0	6.1	98.4	107.1	41.6	41.6	100.0	99.5	42.4	42.4	100.0	99.8	11.5	11.3	101.8	95.8	103	102	101.0	98.1
U1	6.0	5.8	103.4	107.1	42.2	42.3	99.8	101.0	42.6	42.7	99.8	100.2	12.0	12.1	99.2	100.0	109	108	100.9	103.8
V1	6.1	5.9	103.4	108.9	41.6	41.6	100.0	99.5	42.3	42.5	99.5	99.5	11.3	11.5	98.3	54.2	111	106	104.7	105.7
X1	6.0	6.0	100.0	107.1	42.0	42.0	100.0	100.5	42.1	42.1	100.0	99.0	12.0	10.2	100.0		102	102	100.0	97.1
Y1	6.4	5.9	108.5	114.3	41.7	41.8	99.8	99.8	42.3	42.6	99.3	99.5	12.9	11.8	109.3	107.5	102	103	99.0	97.1
A2	6.1	6.2			41.2	41.2			42.0	42.0			11.3	11.3			109	109		
F2	5.7	6.2	91.9	101.8	41.5	41.8	99.3	99.3	42.5	42.5	100.0	100.0	11.6	12.0	96.7	96.7	108	108	100.0	102.8
H2	5.2	5.2			41.6	41.6			42.8	42.8			11.1	11.6			111	111		
L2	5.7	5.4	105.6	101.8	42.5	42.8	99.3	101.7	42.6	42.8	99.5	100.2	12.1	12.2	99.2	100.8	103	104	99.0	98.1
J2	3.6	3.0	112.0	100.0	42.2	42.1	100.2	101.0	43.2	43.4	99.5	101.6	10.9	10.8	100.9	90.8	104	105	99.0	99.0
K2	3.8	3.6	105.6	87.8	41.1	40.9	100.5	98.3	42.9	42.8	100.2	100.9	11.7	11.7	100.0	97.5	107	108	99.1	101.9
M2	7.0	7.0			42.0	42.0			42.2	42.2			11.4	11.4			105	105		
R2	5.4	5.3	101.9	96.4	41.0	41.1	99.8	98.1	42.1	42.2	99.8	99.0	12.9	12.6	102.4	107.5	110	110	100.0	104.8
S2	6.5	6.7	97.0	116.1	42.1	42.1	100.0	100.7	42.2	42.2	100.0	99.3	11.2	11.4	98.2	93.3	104	103	101.0	99.0
Z2	5.9	5.7	103.5	105.4	42.1	42.7	99.8	100.7	42.2	42.3	99.8	99.3	11.4	11.6	98.3	95.0	106	107	99.1	101.0
W2	6.2	6.1	101.6	116.7	41.1	41.0	100.2	98.3	41.8	41.8	100.0	98.4	12.1	12.2	99.2	100.8	106	108	98.1	101.0
X2	6.6	6.6	100.0	117.8	41.5	41.6	99.8	99.3	42.0	42.1	99.8	98.8	12.0	11.9	100.2	100.0	100	99	101.0	95.2
Y2	5.7	5.7			42.2	42.2			42.6	42.6			11.4	11.4			105	105		
A3	5.2	5.1	102.0	92.8	41.4	41.5	99.8	99.0	42.6	42.7	99.8	100.2	12.9	13.4	96.3	107.5	96	97	99.0	91.4
R3	5.5	5.7	96.5	98.2	42.1	42.0	100.2	100.7	42.3	42.2	100.2	99.5	12.1	11.8	102.5	100.8	104	106	99.0	99.0
C3	5.7	5.4	105.6	101.8	41.3	41.3	100.0	98.8	42.2	42.4	99.5	99.2	12.3	12.2	100.8	102.5	106	107	99.1	101.0
J3	6.4	6.5	98.5	114.3	41.7	41.6	100.2	98.8	42.3	42.1	100.5	99.5	11.3	11.1	101.8	94.2	111	108	102.8	105.7
L3	4.7	5.2	90.4	83.9	41.1	41.4	99.3	98.3	42.5	42.5	100.0	100.0	12.4	12.4	100.0	103.3	105	106	99.0	100.0
P3	4.9	4.9	100.0	87.5	41.6	41.6	100.0	99.5	42.9	42.9	100.0	100.9	11.2	11.5	97.4	93.3	107	105	101.9	101.9
N3	6.4	6.4			42.0	42.0			42.0	42.0			12.0	12.0			104	104		
T3	6.8	6.6	103.0	121.4	41.9	41.9	100.0	100.2	42.4	42.4	100.0	99.8	12.0	12.0	100.0	100.0	117	110	106.4	111.4
U3	5.6	5.7	98.2	100.0	41.5	41.6	99.8	99.3	42.5	42.5	100.0	100.0	13.4	12.8	104.7	111.7	100	101	99.0	95.2
W3	5.6	5.4	103.7	100.0	41.6	41.5	100.2	99.5	42.6	42.6	100.0	100.2	12.3	12.1	101.6	102.5	103	103	100.0	98.1
X3	5.2	5.2	100.0	92.8	42.0	42.2	99.5	100.5	43.2	43.4	99.5	101.6	12.5	12.1	103.2	104.2	103	104	99.0	98.1
Y3	5.3	5.0	106.0	94.6	42.3	42.0	100.7	101.2	43.4	43.3	100.2	102.1	11.3	10.6	106.6	94.2	107	108	99.1	101.9
Z3	6.0	5.8	103.4	107.1	41.9	42.1	99.5	100.2	42.0	42.2	99.5	98.8	13.5	13.4	100.7	112.5	103	101	102.0	98.1
C4	5.9	5.9	100.0	105.4	41.7	41.6	100.2	99.8	42.6	42.4	100.5	100.2	12.0	12.2	98.4	100.0	100	98	102.0	95.2
D4	5.2	5.1	102.0	92.8	42.2	42.1	100.2	101.0	42.3	42.2	100.2	99.5	12.0	11.8	101.7	100.0	106	106	100.0	101.0
E4	6.0	5.4	111.1	107.1	42.0	42.0	100.0	100.5	42.2	42.2	100.0	99.3	12.0	11.9	100.8	100.0	106	106	100.0	101.0
F4	5.5	5.3	103.8	98.2	41.4	41.6	99.5	99.0	42.4	42.7	99.3	99.8	12.6	12.4	101.6	105.0	101	100	101.0	96.2
K4	5.9	6.0	98.3	105.4	42.0	41.9	100.2	100.5	42.1	42.0	100.2	99.0	12.5	12.4	100.8	104.2	109	108	100.9	103.8
M4	6.2	6.5	95.4	116.7	42.2	42.2	100.0	101.0	42.6	42.6	100.0	100.2	12.2	11.6	105.2	101.7	106	120	88.3	101.0
N4	3.5	3.5			41.1	41.1			43.0	43.0			100.8	100.8			106	106		

FKBG DATA

AV.	IND.	IND.	IND.
5.6	41.7	42.4	106
5.6	41.8	42.5	105
100.0	99.8	99.8	101.0

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

TABLE XI
AVERAGES OF ROUTINE MILL QUALITY CONTROL DATA FOR 42 LB FOURDRINIER KRAFT LINERBOARD
MAY, 1981

MOISTURE CONTENT, PERCENT	BASIS WT., LB / M SQ FT	MACHINE DATA		MACHINE DATA		CALIPER, PT		BURSTING STRENGTH, P S I G												
		CUR. AV.	FACT. #B	IND. #C	IND. #C	CUR. AV.	FACT. #B	IND. #C	CUR. AV.	FACT. #B	IND. #C									
A1	5.7	5.6	101.8	101.8	41.5	41.5	100.0	99.5	42.5	42.6	99.8	100.0	11.6	12.0	96.7	101	99	102.0	96.2	
D1	5.6	5.4	103.7	100.0	42.1	42.1	100.0	101.0	42.5	42.6	99.8	100.0	12.5	12.2	102.4	104.2	107	105	101.9	101.9
E1	5.2	5.0	98.0	87.5	41.2	41.4	99.5	98.8	42.5	42.6	99.8	100.0	12.0	11.9	100.8	100.0	113	105	107.6	107.6
F1	5.1	5.0	103.6	103.6	41.3	41.4	99.8	99.0	42.2	42.3	99.8	99.3	11.8	12.0	98.3	98.3	101	102	99.0	96.2
G1	4.9	4.9	100.0	87.5	40.8	40.8	100.0	97.8	42.1	42.1	100.0	99.0	12.0	12.4	96.6	100.0	108	114	94.7	102.8
H1	5.1	5.1	98.2	100.0	41.4	41.4	100.0	99.3	42.4	42.4	100.0	99.8	12.2	12.3	99.2	101.7	104	106	98.1	99.0
I1	6.6	6.6	100.0	117.8	42.3	42.0	100.0	100.7	42.1	42.2	99.8	99.0	11.5	11.3	101.8	95.8	105	103	101.9	100.0
J1	4.2	3.6	116.7	75.0	41.2	41.5	99.3	98.8	41.6	41.9	99.3	97.9	13.0	12.5	104.0	108.3	101	102	99.0	96.2
K1	5.9	6.1	96.7	105.4	41.5	41.6	99.8	99.5	42.4	42.4	100.0	99.8	11.6	11.3	102.6	96.7	105	102	102.9	100.0
L1	5.8	5.8	100.0	103.6	42.3	42.3	100.0	101.4	42.7	42.7	100.0	100.5	11.9	12.1	98.3	95.2	110	108	101.8	104.8
M1	6.4	5.9	108.5	114.3	41.7	41.6	100.0	100.0	42.3	42.5	99.5	99.5	12.1	11.5	105.2	100.8	110	106	103.8	104.8
N1	6.0	6.0	100.0	107.1	42.0	42.0	100.0	100.7	42.1	42.1	100.0	99.0	12.0	12.0	100.0	100.0	100	102	98.0	95.2
O1	6.1	6.0	101.7	108.9	41.5	41.8	99.3	99.5	42.2	42.6	99.1	99.3	12.1	11.9	101.7	100.8	102	102	100.0	97.1
P1	6.1	6.1	100.0	108.9	40.9	41.2	99.3	98.1	41.6	42.0	99.0	97.9	11.5	11.3	101.8	95.8	112	109	102.8	106.7
Q1	6.1	6.1	100.0	108.9	40.9	41.2	99.3	98.1	41.6	42.0	99.0	97.9	11.5	11.3	101.8	95.8	112	109	102.8	106.7
R1	5.2	5.2	98.2	100.0	41.4	41.4	100.0	99.3	42.4	42.4	100.0	99.8	12.2	12.3	99.2	101.7	104	106	98.1	99.0
S1	6.6	6.6	100.0	117.8	42.3	42.0	100.0	100.7	42.1	42.2	99.8	99.0	11.5	11.3	101.8	95.8	105	103	101.9	100.0
T1	5.9	6.1	96.7	105.4	41.5	41.6	99.8	99.5	42.4	42.4	100.0	99.8	11.6	11.3	102.6	96.7	105	102	102.9	100.0
U1	5.8	5.8	100.0	103.6	42.3	42.3	100.0	101.4	42.7	42.7	100.0	100.5	11.9	12.1	98.3	95.2	110	108	101.8	104.8
V1	6.4	5.9	108.5	114.3	41.7	41.6	100.0	100.0	42.3	42.5	99.5	99.5	12.1	11.5	105.2	100.8	110	106	103.8	104.8
W1	6.0	6.0	100.0	107.1	42.0	42.0	100.0	100.7	42.1	42.1	100.0	99.0	12.0	12.0	100.0	100.0	100	102	98.0	95.2
X1	6.1	6.0	101.7	108.9	41.5	41.8	99.3	99.5	42.2	42.6	99.1	99.3	12.1	11.9	101.7	100.8	102	102	100.0	97.1
Y1	6.1	6.1	100.0	108.9	40.9	41.2	99.3	98.1	41.6	42.0	99.0	97.9	11.5	11.3	101.8	95.8	112	109	102.8	106.7
Z1	6.1	6.1	100.0	108.9	40.9	41.2	99.3	98.1	41.6	42.0	99.0	97.9	11.5	11.3	101.8	95.8	112	109	102.8	106.7
A2	5.5	5.4	101.8	98.2	42.5	42.7	99.5	101.9	42.6	42.8	99.5	100.2	11.6	12.1	95.9	96.7	104	104	100.0	99.0
B2	5.2	5.0	104.0	92.8	42.2	42.1	100.2	101.2	43.4	43.4	100.0	102.1	10.6	10.8	98.1	88.3	103	105	98.1	98.1
C2	3.2	3.6	88.9	57.1	40.8	40.9	99.8	97.8	42.8	42.8	100.0	100.7	11.5	11.7	98.3	95.8	109	108	100.9	103.8
D2	7.0	7.0	100.0	94.6	41.1	41.1	100.0	98.6	42.2	42.2	100.0	99.3	13.0	12.7	102.4	108.3	105	110	95.4	100.0
E2	6.2	6.7	92.5	110.7	42.2	42.1	100.2	101.2	42.3	42.2	100.2	99.5	11.3	11.3	100.0	94.2	106	103	102.9	101.0
F2	6.0	5.7	105.3	107.1	42.0	42.2	99.5	100.7	42.1	42.3	99.5	99.0	11.4	11.6	98.3	95.0	103	107	96.3	98.1
G2	6.5	6.1	106.6	116.1	41.0	41.0	100.0	98.3	41.6	41.8	99.5	97.9	12.5	12.2	102.4	104.2	109	108	100.9	103.8
H2	6.6	6.6	100.0	117.8	41.5	41.6	99.8	99.5	42.0	42.1	99.8	98.8	12.1	11.9	101.7	100.8	100	99	101.0	95.2
I2	5.8	5.7	113.7	103.6	41.1	41.5	99.0	98.6	42.0	42.7	98.4	98.8	13.3	13.4	99.2	110.8	99	97	102.1	94.3
J2	5.6	5.6	100.0	100.0	42.0	42.0	100.0	100.7	42.2	42.2	100.0	99.3	12.1	11.9	101.7	100.8	103	106	97.2	98.1
K2	4.9	4.9	100.0	87.5	40.8	40.8	100.0	97.8	42.8	42.8	100.0	100.7	11.5	11.7	98.3	95.8	109	108	100.9	103.8
L2	5.3	5.3	100.0	94.6	41.1	41.1	100.0	98.6	42.2	42.2	100.0	99.3	13.0	12.7	102.4	108.3	105	110	95.4	100.0
M2	6.2	6.7	92.5	110.7	42.2	42.1	100.2	101.2	42.3	42.2	100.2	99.5	11.3	11.3	100.0	94.2	106	103	102.9	101.0
N2	6.0	5.7	105.3	107.1	42.0	42.2	99.5	100.7	42.1	42.3	99.5	99.0	11.4	11.6	98.3	95.0	103	107	96.3	98.1
O2	6.5	6.1	106.6	116.1	41.0	41.0	100.0	98.3	41.6	41.8	99.5	97.9	12.5	12.2	102.4	104.2	109	108	100.9	103.8
P2	6.6	6.6	100.0	117.8	41.5	41.6	99.8	99.5	42.0	42.1	99.8	98.8	12.1	11.9	101.7	100.8	100	99	101.0	95.2
Q2	5.8	5.7	113.7	103.6	41.1	41.5	99.0	98.6	42.0	42.7	98.4	98.8	13.3	13.4	99.2	110.8	99	97	102.1	94.3
R2	5.6	5.6	100.0	100.0	42.0	42.0	100.0	100.7	42.2	42.2	100.0	99.3	12.1	11.9	101.7	100.8	103	106	97.2	98.1
S2	4.9	4.9	100.0	87.5	40.8	40.8	100.0	97.8	42.8	42.8	100.0	100.7	11.5	11.7	98.3	95.8	109	108	100.9	103.8
T2	5.3	5.3	100.0	94.6	41.1	41.1	100.0	98.6	42.2	42.2	100.0	99.3	13.0	12.7	102.4	108.3	105	110	95.4	100.0
U2	6.2	6.7	92.5	110.7	42.2	42.1	100.2	101.2	42.3	42.2	100.2	99.5	11.3	11.3	100.0	94.2	106	103	102.9	101.0
V2	6.0	5.7	105.3	107.1	42.0	42.2	99.5	100.7	42.1	42.3	99.5	99.0	11.4	11.6	98.3	95.0	103	107	96.3	98.1
W2	6.5	6.1	106.6	116.1	41.0	41.0	100.0	98.3	41.6	41.8	99.5	97.9	12.5	12.2	102.4	104.2	109	108	100.9	103.8
X2	6.6	6.6	100.0	117.8	41.5	41.6	99.8	99.5	42.0	42.1	99.8	98.8	12.1	11.9	101.7	100.8	100	99	101.0	95.2
Y2	5.8	5.7	113.7	103.6	41.1	41.5	99.0	98.6	42.0	42.7	98.4	98.8	13.3	13.4	99.2	110.8	99	97	102.1	94.3
Z2	5.6	5.6	100.0	100.0	42.0	42.0	100.0	100.7	42.2	42.2	100.0	99.3	12.1	11.9	101.7	100.8	103	106	97.2	98.1
A3	4.9	4.9	100.0	87.5	40.8	40.8	100.0	97.8	42.8	42.8	100.0	100.7	11.5	11.7	98.3	95.8	109	108	100.9	103.8
B3	5.3	5.3	100.0	94.6	41.1	41.1	100.0	98.6	42.2	42.2	100.0	99.3	13.0	12.7	102.4	108.3	105	110	95.4	100.0
C3	4.9	4.9	100.0	87.5	40.8	40.8	100.0	97.8	42.8	42.8	100.0	100.7	11.5	11.7	98.3	95.8	109	108	100.9	103.8
D3	6.2	6.7	92.5	110.7	42.2	42.1	100.2	101.2	42.3	42.2	100.2	99.5	11.3	11.3	100.0	94.2	106	103	102.9	101.0
E3	6.0	5.7	105.3	107.1	42.0	42.2	99.5	100.7	42.1	42.3	99.5	99.0	11.4	11.6	98.3	95.0	103	107	96.3	98.1
F3	6.5	6.1	106.6	116.1	41.0	41.0	100.0	98.3	41.6											

TABLE XII
AVERAGES OF ROUTINE MILL QUALITY CONTROL DATA FOR 42 LB FOURDRINIER KRAFT LINERBOARD
JUNE, 1981

CCDE	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	CUR. AV. #B	IND. #C										
A1	5.4	5.5	98.2	96.4	41.5	41.5	100.0	99.5	42.6	42.5	100.2	100.2	11.6	12.0	96.7	96.7	100	100	100.0	95.7
D1	5.6	5.4	103.7	100.0	42.1	42.1	100.0	101.0	42.2	42.2	100.0	99.3	12.5	12.2	102.4	104.2	108	106	101.9	102.8
E1	4.3	5.2	82.7	76.8	41.2	41.4	99.5	98.8	42.6	42.6	100.5	100.7	10.6	12.4	85.5	88.3	113	108	104.6	107.6
F1	4.8	5.0	96.0	85.7	41.1	41.4	99.3	98.6	42.5	42.6	99.8	100.0	11.9	11.9	100.0	99.2	112	106	105.7	106.7
L1	5.1	5.1			42.6	42.6			42.7	42.7			12.2	12.2			104			
M1	5.6	5.9	94.9	100.0	41.7	41.4	100.7	100.0	42.7	42.3	100.9	100.5	12.0	12.0	100.0	100.0	100	102	98.0	95.2
N1	4.4	4.9	89.8	78.6	40.8	40.8	100.0	97.8	42.3	42.1	100.5	99.5	11.9	12.4	96.0	99.2	112	114	98.2	106.7
O1	5.1	5.7	101.8	101.8	41.5	41.4	100.2	99.5	42.5	42.4	100.2	100.0	12.0	12.0	97.6	100.0	102	106	96.2	97.1
P1	5.7	6.6	98.5	116.1	42.0	42.0	100.0	100.7	42.1	42.2	99.8	99.0	11.3	11.4	99.1	94.2	104	104	100.0	99.0
Q1	3.9	3.7	105.4	69.6	41.2	41.4	99.5	98.8	41.6	41.8	99.5	97.9	13.1	12.6	104.0	109.2	102	102	100.0	97.1
R1	6.0	6.0	100.0	107.1	41.4	41.6	99.5	99.3	42.2	42.4	99.5	99.3	11.5	11.4	100.5	95.8	103	103	100.0	98.1
U1	5.6	5.8	96.6	100.0	42.3	42.3	100.0	101.4	42.7	42.7	100.0	100.5	12.0	12.1	99.2	100.0	107	108	99.1	101.9
V1	6.0	6.0	100.0	107.1	41.5	41.6	99.8	99.5	42.3	42.5	99.5	99.5	11.3	11.5	98.3	94.7	105	106	99.0	100.0
X1	5.7	6.1	93.4	101.8	42.0	42.0	100.0	100.7	42.1	42.1	100.0	99.0	11.4	11.4	100.0	96.7	106	108	98.1	101.0
Y1	6.0	6.0	100.0	107.1	41.7	41.8	99.8	100.0	42.5	42.6	99.8	100.0	11.4	11.9	95.8	95.0	102	103	99.0	97.1
Z1	5.4	6.1	88.5	96.4	41.7	41.8	99.8	100.0	42.8	42.5	100.7	100.7	11.3	12.0	94.2	94.2	105	108	97.2	100.0
A2	4.9	5.2	94.2	87.5	41.5	41.6	99.8	99.5	42.8	42.8	100.0	100.7	11.8	11.6	101.7	98.3	103	111	99.1	104.8
B2	5.7	5.4	105.6	101.8	42.4	42.7	99.3	101.7	42.5	42.8	99.3	100.0	11.4	12.1	94.2	95.0	110	104	99.0	98.1
C2	5.7	5.0	104.0	92.8	41.1	42.1	97.6	98.6	42.3	43.4	97.5	99.5	10.4	10.8	96.3	86.7	104	105	97.0	99.0
D2	3.1	3.5	88.6	55.4	40.8	40.9	99.8	97.8	42.9	42.8	100.2	100.9	11.6	11.6	100.0	96.7	106	108	98.1	101.0
E2	7.0	7.0			42.0	42.0			42.2	42.2			11.4	11.4			105			
F2	5.2	5.3	98.1	92.8	41.0	41.1	99.8	98.3	42.1	42.2	99.8	99.0	12.4	12.7	97.6	103.3	110	109	100.9	104.8
G2	6.2	6.6	93.9	110.7	42.1	42.1	100.0	101.0	42.2	42.2	100.0	99.3	11.3	11.3	100.0	94.2	107	103	103.7	101.9
H2	5.8	5.7	101.8	103.6	42.1	42.2	99.8	101.0	42.2	42.3	99.8	99.3	11.2	11.5	96.5	93.7	105	107	98.1	100.0
I2	5.6	6.1	91.8	100.0	40.8	41.0	99.5	97.8	41.8	41.8	100.0	98.4	12.1	12.2	99.2	100.8	102	108	94.4	97.1
J2	6.6	6.6	100.0	117.8	41.5	41.5	100.0	99.5	42.0	42.1	99.8	98.8	12.0	11.9	100.8	100.0	101	99	102.0	98.2
K2	5.7	5.7			42.2	42.2			42.6	42.6			11.4	11.4			105			
L2	5.4	5.1	105.9	96.4	41.4	41.5	99.8	99.3	42.5	42.7	99.5	100.0	13.0	12.4	97.0	102.3	96	97	99.0	91.4
M2	5.1	5.6	91.1	91.1	42.1	42.0	100.2	101.0	42.3	42.2	100.2	99.5	12.3	11.9	103.4	102.5	104	106	98.1	99.0
N2	5.6	5.4	103.7	100.0	41.4	41.4	100.0	99.3	42.4	42.4	100.0	99.8	12.3	12.2	100.8	102.5	106	106	100.0	101.0
O2	6.3	6.6	95.4	112.5	41.6	41.6	100.0	99.8	42.3	42.2	100.2	99.5	11.2	11.2	100.0	93.3	112	108	103.7	106.7
P2	4.5	5.0	90.0	80.4	40.9	41.3	99.0	98.1	42.4	42.5	99.8	99.8	12.2	12.4	98.4	101.7	104	105	99.0	99.0
Q2	4.7	4.9	95.9	83.9	41.6	41.6	100.0	99.8	43.0	42.9	100.2	101.2	11.4	11.4	100.0	95.0	105	105	100.0	100.0
R2	6.4	6.4			42.0	42.0			42.1	42.1			12.1	12.1			105			
S2	6.9	6.6	104.5	123.2	42.2	41.8	101.0	101.2	42.6	42.4	100.5	100.2	12.0	12.0	100.0	100.0	112	111	100.9	106.7
T2	5.4	5.7	94.7	96.4	41.3	41.6	99.3	99.0	42.4	42.5	99.8	99.8	13.4	12.9	103.9	111.7	102	100	102.0	97.1
U2	5.7	5.4	105.6	101.8	41.7	41.5	100.5	100.0	42.7	42.6	100.2	100.5	12.7	12.0	105.8	105.8	103	103	100.0	98.1
V2	5.6	5.2	107.7	100.0	41.9	42.2	99.3	100.5	42.9	43.4	98.8	100.9	12.3	12.1	101.6	102.5	103	104	99.0	98.1
W2	5.1	4.9	104.1	91.1	41.0	42.1	97.4	98.3	42.2	43.4	97.2	99.3	10.7	10.7	100.0	89.2	104	107	97.2	99.0
X2	5.7	5.8	98.3	101.8	42.1	42.1	100.0	101.0	42.2	42.2	100.0	99.3	13.1	13.4	97.8	105.2	105	107	102.5	100.0
Y2	5.8	5.8	100.0	103.6	41.8	41.6	100.5	100.2	42.7	42.5	100.5	100.5	12.5	12.2	102.4	104.2	99	99	100.0	94.3
Z2	5.4	5.2	103.5	96.4	42.1	42.2	99.8	101.0	42.2	42.2	100.0	99.3	12.1	11.8	102.5	100.8	103	105	98.1	98.1
A3	5.8	5.5	105.4	103.6	42.1	42.0	100.2	101.0	42.3	42.2	100.2	99.5	11.9	11.9	100.0	89.2	105	106	98.0	100.0
B3	5.2	5.2	101.8	90.7	41.4	41.6	99.5	99.3	41.9	42.0	99.8	99.8	12.7	12.5	101.6	105.8	100	100	100.0	95.2
C3	6.6	6.4	111.9	117.8	41.8	41.9	99.8	100.0	42.4	42.6	99.5	99.8	12.2	12.4	98.4	101.7	108	108	100.0	102.8
D3	6.4	6.4			42.2	42.2			42.6	42.6			11.6	11.6			109			
E3	3.5	3.5			41.1	41.1			43.0	43.0			12.3	12.3			109			

FFB57 11A
CUR. 41.6
AV. 5.5
CUM. 41.7
IND. 99.8
#D 98.2

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

TABLE XIII
AVERAGES OF ROUTINE MILL QUALITY CONTROL DATA FOR 69 L8 FOURDRINIER KRAFT LINERBOARD
APRIL, 1981

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.	FACT. #B	IND. #C	IND. #C	CUR. AV.	FACT. #B	IND. #C	IND. #C	CUR. AV.	FACT. #B	IND. #C									
D1	6.0	5.8	103.4	96.8	69.2	69.3	99.8	100.9	69.4	69.5	99.8	100.0	20.1	20.0	100.5	102.6	140	141	59.3	98.6
E1	6.2	6.3	98.4	100.0	68.7	68.9	98.7	100.1	69.9	70.0	99.8	100.7	18.6	20.8	89.4	94.9	149	140	106.4	104.9
M1	6.6	6.6			68.6				69.5				20.4				136			
N1	4.7	4.8	97.9	75.8	67.0	67.2	99.7	97.7	69.3	69.4	99.8	99.8	20.5	20.9	98.1	104.6	147	144	102.1	103.5
G1	6.9	6.3	109.5	111.3	69.4	69.4	100.0	101.2	70.0	70.0	100.0	100.9	19.7	19.3	102.1	100.5	144	143	100.7	101.4
S1	4.9	4.7	104.2	79.0	67.0	67.3	99.6	97.7	67.6	67.9	99.6	97.4	21.2	20.7	102.4	108.2	141	142	99.3	99.3
T1	6.8	6.8	100.0	109.7	68.3	68.6	99.6	99.6	69.1	69.4	99.6	99.6	19.7	19.4	101.5	100.5	134	137	97.8	94.4
U1	5.7	5.7			69.5				70.1				20.4				141			
V1	6.1	6.1			68.4				69.8				20.6				140			
X1	6.1	6.1			69.0				69.2								141			
Y1	7.2	6.9	104.3	116.1	68.7	68.8	99.8	100.1	69.2	69.4	99.7	99.7	21.2	19.4	109.3	108.2	141	139	101.4	99.3
A2	6.4	6.4	100.0	103.2	67.9	67.8	100.1	99.0	68.9	68.7	100.3	99.3	19.7	19.0	103.7	100.5	140	142	98.6	98.6
F2	6.1	6.5	93.8	98.4	68.1	68.5	99.4	99.3	69.3	69.5	99.7	99.8	20.5	20.7	99.0	104.6	149	140	106.4	104.9
H2	5.6	5.9	94.9	90.3	68.1	68.1	100.0	99.3	69.7	69.5	100.3	100.4	19.5	19.8	98.5	99.5	160	146	109.6	112.7
I2	6.0	6.4	93.8	96.8	68.6	69.8	98.3	100.0	68.8	70.0	98.3	99.1	19.4	20.1	96.5	99.0	139	136	102.2	97.9
K2	4.3	4.0	107.5	69.4	67.8	67.8	100.0	98.8	70.4	70.6	99.7	101.4	19.9	19.8	100.5	101.5	141	145	97.2	99.3
O2	6.2	6.2			69.2				69.8				18.7				145			
S2	7.6	7.8	57.4	122.6	68.9	69.0	99.8	100.4	69.1	69.1	100.0	99.6	18.3	18.2	95.3	93.4	136	136	100.0	95.8
V2	6.8	6.3	107.9	109.7	68.9	69.0	99.8	100.4	69.1	69.2	99.8	99.6	18.0	18.6	96.4	91.8	150	144	104.2	105.6
W2	6.3	6.5	96.9	101.6	68.2	68.0	100.3	99.4	69.3	68.9	100.6	99.8	20.8	21.2	98.1	106.1	137	144	95.1	96.5
Y2	5.9	5.9			69.1				69.7				19.8				152			
A3	5.7	5.7			68.1				69.7				23.1				130			
B3	6.6	6.0	110.0	106.4	69.0	69.0	100.0	100.6	69.3	69.3	100.0	99.8	19.7	19.1	103.1	100.5	141	140	100.7	99.3
C3	5.8	5.8	100.0	93.5	68.0	68.2	99.7	99.1	69.5	69.7	99.7	100.1	20.3	20.2	100.5	103.6	141	142	59.3	99.3
J3	7.5	7.4	101.4	121.0	69.1	69.0	100.1	100.7	69.3	69.3	100.0	99.8	18.9	18.6	101.6	96.4	145	144	100.7	102.1
K3	5.9	5.8	101.7	95.2	67.9	67.8	100.1	99.0	69.3	69.3	100.0	99.8	19.4	18.8	103.2	99.0	142	145	97.9	100.0
L3	5.2	5.8	89.6	83.9	67.8	68.0	99.7	98.8	69.7	69.4	100.4	100.4	19.5	19.6	99.5	99.5	140	138	101.4	98.6
P3	6.9	7.0	98.6	111.3	68.5	68.3	100.3	99.8	69.2	68.8	100.6	99.7	18.3	18.7	97.9	93.4	142	143	59.3	100.0
T3	7.3	7.1	102.8	117.7	69.0	69.1	99.8	100.6	69.3	69.7	99.4	99.8	19.9	19.8	100.5	101.5	145	144	100.7	102.1
W3	6.3	6.3	100.0	101.6	68.4	68.5	99.8	99.7	69.5	69.6	99.8	100.1	19.7	19.2	102.6	100.5	139	144	96.5	97.9
X3	5.4	5.3	101.9	87.1	68.9	69.1	99.7	100.4	70.7	71.0	99.6	101.9	20.9	20.6	101.4	106.6	136	139	97.8	95.8
Y3	6.3	6.3	100.0	101.6	69.2	69.0	100.3	100.9	70.3	70.1	100.3	101.3	17.8	17.9	99.4	90.8	140	137	102.2	98.6
Z3	6.2	6.2	100.0	100.0	69.0	68.9	100.1	100.6	69.2	69.1	100.1	99.7	21.9	21.8	100.4	111.7	143	142	100.7	100.7
C4	6.9	7.0	98.6	111.3	68.8	68.8	100.0	100.3	69.5	69.5	100.0	100.1	19.1	19.4	98.4	97.4	140	137	102.2	98.6
D4	6.6	6.6	100.0	106.4	69.0	69.0	100.0	100.6	69.2	69.2	100.0	99.7	18.3	18.3	100.0	93.4	141	138	102.2	99.3
V4	5.9	5.9			69.0				69.2				19.9				162			
M4	6.5	6.6	98.5	104.8	69.0	69.0	100.0	100.6	69.6	69.6	100.0	100.3	18.4	18.4	102.2	93.9	166	176	54.3	116.9
N4	4.2	4.2			67.9				70.5				21.5				143			

FRBG DATA
CUR. AV. 6.2 68.5
CUM. AV. 6.2 68.6
IND. *C 100.0 99.8
100.0

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

TABLE XIV
AVERAGES OF ROUTINE MILL QUALITY CONTROL DATA FOR 69 LB FOURDRINIER KRAFT LINERBOARD
MAY, 1981

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. #8	IND. #C	CUR. AV. #8	IND. #C	CUR. AV. #8	IND. #C	CUR. AV. #8	IND. #C	CUR. AV. #8	IND. #C										
D1	5.8	100.0	93.5	69.4	100.1	101.2	69.6	69.5	100.1	100.3	20.5	20.1	102.0	104.6	139	140	99.3	97.9		
E1	6.2			68.8			70.0				19.7				144					
M1	6.6			68.6			69.5				20.4				136					
N1	4.9	4.8	102.1	79.0	67.2	100.0	98.0	69.3	69.4	99.8	99.8	20.1	20.9	96.2	102.6	143	144	99.3	100.7	
O1	6.6	6.3	104.8	106.4	69.3	69.4	99.8	101.0	69.9	70.0	99.8	100.7	19.5	19.3	101.0	99.5	147	143	102.8	103.5
S1	5.2	4.8	108.3	83.9	67.2	100.0	98.0	67.8	67.8	100.0	97.7	21.7	20.7	104.8	110.7	141	142	99.3	99.3	
T1	6.4	6.8	94.1	103.2	68.2	68.6	99.4	99.4	99.7	99.7	99.7	19.6	19.5	100.5	100.0	137	137	100.0	96.5	
U1	5.8			69.5			70.1				20.4				142					
V1	6.1			68.4			69.8				20.6				140					
X1	6.1			69.0			69.2								141					
Y1	6.9	6.8	101.5	111.3	68.3	68.8	99.3	99.6	69.0	69.5	99.3	18.9	19.5	96.9	96.4	139	139	100.0	97.9	
A2	6.3	6.4	98.4	101.6	67.7	67.8	99.8	98.7	68.8	68.7	100.1	99.1	20.2	19.1	105.8	103.1	144	142	101.4	101.4
F2	6.0	6.5	92.3	96.8	68.3	68.5	99.7	99.6	69.7	69.5	100.4	20.4	20.7	98.6	104.1	144	140	102.8	101.4	
H2	5.8	5.9	98.3	93.5	67.9	68.0	99.8	99.0	69.4	69.4	100.0	19.4	19.7	98.5	99.0	152	146	104.1	107.0	
I2	6.2	6.3	98.4	100.0	68.8	69.7	98.7	100.3	69.0	69.9	98.7	19.2	20.1	95.5	98.0	139	136	102.2	97.9	
K2	4.1	4.0	102.5	66.1	67.8	67.8	100.0	98.8	70.5	70.5	100.0	101.6	20.3	19.8	102.5	103.6	145	144	100.7	102.1
O2	6.2			69.2			69.8				18.7				145					
S2	7.8	7.7	101.3	125.8	69.1	69.0	100.1	100.7	69.3	69.1	100.3	99.8	19.5	19.1	102.1	99.5	137	136	100.7	96.5
V2	6.6	6.3	104.8	106.4	69.0	69.0	100.0	100.6	69.2	69.2	100.0	99.7	18.2	18.6	97.8	92.8	142	145	97.9	100.0
H2	6.6	6.5	101.5	106.4	67.3	68.0	99.0	98.1	68.2	69.0	98.8	20.2	21.2	95.3	103.1	137	143	95.8	96.5	
Y2	5.9			69.1			69.7				19.8				152					
B3	6.8	6.0	113.3	109.7	69.2	69.0	100.3	100.9	69.5	69.3	100.3	100.1	20.1	19.2	104.7	102.6	140	140	100.0	98.6
C3	5.9	5.8	101.7	95.2	68.2	68.2	100.0	99.4	69.6	69.7	99.8	100.3	20.5	20.2	101.5	104.6	140	142	98.6	98.6
J3	7.4			69.0			69.3				18.7				145					
K3	5.7	5.9	96.6	91.9	67.7	67.8	99.8	98.7	69.3	69.2	100.1	99.8	19.2	18.8	102.1	98.0	142	146	97.3	100.0
L3	5.5	5.7	96.5	88.7	67.8	67.9	99.8	98.8	69.5	69.5	100.0	100.1	20.0	19.6	102.0	102.0	138	138	100.0	97.2
M3	7.2	7.0	102.8	116.1	68.3	68.3	100.0	99.6	68.8	68.9	99.8	99.1	18.6	18.6	100.0	94.9	140	144	97.2	98.6
T3	6.8	7.1	95.8	109.7	68.2	69.1	98.7	99.4	69.0	69.7	99.0	99.4	19.5	19.8	98.5	99.5	141	144	97.9	99.3
M3	6.3			68.5			69.6				19.2				144					
X3	5.4	5.3	101.9	87.1	68.9	69.1	99.7	100.4	70.7	71.0	99.6	101.9	21.2	20.6	102.9	108.2	135	139	97.1	95.1
Y3	6.1	6.3	96.8	98.4	69.2	69.0	100.3	100.9	70.4	70.2	100.3	101.4	17.8	17.9	99.4	90.8	141	136	103.7	99.3
Z3	6.1	6.2	98.4	98.4	69.0	69.0	100.0	100.6	69.2	69.2	100.0	99.7	21.8	21.8	100.0	111.2	140	142	98.6	98.6
C4	7.0	7.0	100.0	112.9	69.6	68.8	101.2	101.4	70.2	69.5	101.0	101.2	19.5	19.3	101.0	99.5	138	137	100.7	97.2
D4	6.1	6.6	92.4	98.4	69.2	69.0	100.3	100.9	69.4	69.2	100.3	100.0	18.5	18.2	101.6	94.4	141	138	102.2	99.3
K4	5.9			69.0			69.2				19.9				162					
M4	6.6			69.1			69.7				17.6				176					
N4	4.2			67.9			70.5				21.5				143					

FKBG DATA
CUR. AV. 6.2 68.4 69.4 19.8 141
CUM. AV. 6.2 68.6 69.4 19.6 142
IND. #D 100.0 99.7 100.0 101.0 99.3

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

TABLE XV
AVERAGES OF ROUTINE MILL QUALITY CONTROL DATA FOR 69 LB FOURDRINIER KRAFT LINERBOARD
JUNE, 1981

CCODE	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.	IND. #C	CUM. AV.	FACT. #B	CUR. AV.	IND. #C	CUM. AV.	FACT. #B	CUR. AV.	IND. #C										
C1	5.8	100.0	93.5	69.2	69.3	99.8	100.9	69.4	69.5	99.8	100.0	20.3	20.2	100.5	103.6	144	140	102.8	101.4	
E1	6.2			68.8				70.0				19.7				144				
M1	6.6			68.5				69.4				20.4				136				
N1	4.9	4.8	102.1	79.0	67.3	67.2	100.1	98.1	69.4	100.0	100.0	19.4	20.9	92.8	99.0	156	144	108.3	109.8	
C1	6.4	6.4	100.0	103.2	69.2	69.4	99.7	100.9	69.8	70.0	99.7	100.6	19.8	19.3	102.6	101.0	146	144	101.4	102.8
S1	5.0	4.8	104.2	80.6	67.2	67.2	100.0	98.0	67.8	67.8	100.0	97.7	21.6	20.8	103.8	110.2	142	143	99.3	100.0
T1	6.8			68.6				69.4				19.5				137				
U1	5.8			69.5				70.1				20.4				142				
V1	5.9	6.1	96.7	95.2	68.0	68.4	99.4	99.1	69.4	69.8	99.4	100.0	20.3	20.6	98.5	103.6	143	140	102.1	100.7
X1	6.1			69.0				69.2								141				
Y1	6.9	6.8	101.5	111.3	68.4	68.7	99.6	99.7	69.1	69.4	99.6	99.6	18.7	19.5	95.9	95.4	139	139	100.0	97.9
A2	6.4	6.4	100.0	103.2	67.8	67.8	100.0	98.8	68.8	68.7	100.1	99.1	19.3	19.2	100.5	98.5	142	142	100.0	100.0
F2	6.2	6.4	96.9	100.0	68.6	68.5	100.1	100.0	69.8	69.5	100.4	100.6	20.9	20.7	101.0	106.6	138	141	97.9	97.2
H2	6.2	5.9	105.1	100.0	68.1	68.0	100.1	99.3	69.3	69.4	99.8	99.8	19.9	19.7	101.0	101.5	146	147	99.3	102.8
I2	6.2	6.2	100.0	100.0	69.7	69.6	100.1	101.6	69.9	69.8	100.1	100.7	18.7	20.0	93.5	95.4	136	136	100.0	95.8
K2	4.8	4.0	120.0	77.4	68.4	67.8	100.9	99.7	70.7	70.5	100.3	101.9	19.8	19.9	99.5	101.0	146	144	101.4	102.8
O2	6.2			69.2				69.8				18.7				145				
S2	7.7	7.7	100.0	124.2	69.1	69.0	100.1	100.7	69.3	69.2	100.1	99.8	18.9	19.1	99.0	96.4	137	136	100.7	96.5
V2	6.9	6.3	109.5	111.3	69.0	69.0	100.0	100.6	69.2	69.2	100.0	99.7	18.3	18.5	98.9	93.4	139	145	95.9	97.9
W2	6.1	6.4	95.3	98.4	67.0	67.9	98.7	97.7	68.2	68.9	99.0	98.3	20.5	21.1	97.2	104.6	133	142	93.7	93.7
X2	7.2			116.1				99.8	69.0			99.4	20.5		104.6	137				
Y2	5.9			69.1				69.7				19.8				152				
R3	6.1			69.0				69.3				19.3				140				
C3	6.0	5.8	103.4	96.8	68.2	68.2	100.0	99.4	69.6	69.7	99.8	100.3	20.9	20.3	103.0	106.6	140	142	98.6	98.6
J3	7.0	7.4	94.6	112.9	68.7	69.0	99.6	100.1	69.3	69.3	100.0	99.8	19.1	18.6	102.7	97.4	153	145	105.5	107.7
K3	5.4	5.9	91.5	87.1	68.5	67.8	101.0	99.8	70.3	69.2	101.6	101.3	18.8	18.9	99.5	95.9	142	145	97.9	100.0
L3	5.1	5.6	91.1	82.2	67.7	67.9	99.7	98.7	69.7	69.5	100.3	100.4	19.9	19.6	101.5	101.5	138	138	100.0	97.2
M3	7.0	7.0	100.0	112.9	68.5	68.3	100.3	99.8	69.1	68.9	100.3	99.6	18.8	18.6	101.1	95.9	140	143	97.9	98.6
T3	7.0	7.1	98.6	112.9	69.1	69.0	100.1	100.7	69.7	69.6	100.1	100.4	19.7	19.7	100.0	100.5	140	144	97.2	98.6
W3	6.3			68.5				69.6				19.1				144				
X3	5.8	5.3	109.4	93.5	68.9	69.1	99.7	100.4	70.4	71.0	99.2	101.4	21.8	20.7	105.3	111.2	133	139	95.7	93.7
Y3	6.2	6.2	100.0	100.0	68.1	69.1	98.6	99.3	69.3	70.2	98.7	99.8	17.9	17.8	100.6	91.3	138	136	101.5	97.2
Z3	6.1	6.2	98.4	98.4	69.0	69.0	100.0	100.6	69.2	69.2	100.0	99.7	20.6	21.8	94.5	105.1	139	142	97.9	97.9
C4	6.9	6.9	100.0	111.3	68.9	68.8	100.1	100.4	69.6	69.5	100.1	100.3	19.2	19.4	99.0	98.0	139	138	100.7	97.9
D4	6.9	6.6	104.5	111.3	69.0	69.0	100.0	100.6	69.2	69.2	100.0	99.7	18.6	18.2	102.2	94.9	135	138	97.8	95.1
K4	5.9			69.0				69.2				19.9				162				
M4	6.6			69.1				69.7				18.0				176				
N4	4.2			67.9				70.5				21.5				143				

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

FK&G DATA
CUR. AV. 6.2 68.5 19.7 141
CUM. AV. 6.2 68.6 19.6 142
IND. #D 100.0 99.8 100.5 99.3

TABLE XVII
AVERAGES OF ROUTINE MILL QUALITY CONTROL DATA FOR 90 LB FOURDRINIER KRAFT LINERBOARD
MAY, 1981

CODE	MOISTURE CONTENT, PERCENT		BASIS WT., LB / M SQ FT		40J. BASIS WT., LB / M SQ FT		CALIPER, PT		BURSTING STRENGTH, P S I G									
	AV. #B	IND. #C	AV. #B	IND. #C	AV. #B	IND. #C	AV. #B	IND. #C	AV. #B	IND. #C								
E1	5.7	96.6	90.1	90.3	99.8	100.7	90.4	90.6	99.8	99.8	26.5	26.8	98.9	103.5	161	164	98.2	95.3
E1	7.7		90.7		90.8		90.8		90.8		25.8				165			
M1	6.6		89.2		90.5		90.5		90.5		26.5				158			
N1	4.9	106.5	77.8	87.6	100.0	97.9	90.3	90.7	99.6	99.7	26.5	27.3	97.1	103.5	168	166	101.2	99.4
O1	6.2	6.4	96.9	98.4	90.1	90.5	99.6	100.7	90.9	91.3	99.6	100.3	102.7	104.7	167	170	98.2	98.8
A2	6.6	6.5	101.5	104.8	88.0	88.9	99.0	98.3	89.1	90.0	99.0	98.3	26.3	25.0	174	176	98.9	103.0
H2	5.6	6.2	90.3	88.9	89.0	89.0	100.0	99.4	91.1	90.6	100.6	100.6	26.0	26.0	177	166	106.6	104.7
O2	6.4		90.1		90.9		90.9		90.9		25.1				161			
B3	6.4		90.9		91.4		91.4		91.4		24.5				169			
C3	5.6	6.2	90.3	88.9	88.3	89.2	99.0	98.6	90.4	90.7	99.7	99.8	27.0	26.7	171	168	101.8	101.2
J3	7.7	7.6	101.3	122.2	90.2	89.8	100.4	100.8	90.3	90.0	100.3	99.7	24.2	24.2	180	182	98.9	106.5
K3	6.9	6.3	109.5	109.5	88.7	88.8	99.9	99.1	89.6	90.2	99.3	98.9	24.4	24.4	162	166	97.6	95.8
M3	7.3	7.1	102.8	115.9	89.1	89.2	99.9	99.6	89.5	89.9	99.6	98.8	24.1	24.2	173	175	98.8	107.4
W3	6.1	6.4	95.3	96.8	89.7	89.7	100.0	100.2	91.3	91.1	100.2	100.8	27.2	26.2	172	168	102.4	101.8
X3	6.2	5.6	110.7	98.4	90.0	90.6	99.3	100.6	91.5	92.8	98.6	101.0	27.0	27.1	158	166	95.2	93.5
Y3	6.2	6.3	98.4	98.4	90.2	89.9	100.3	100.8	91.7	91.3	100.4	101.2	25.1	23.8	161	161	100.0	95.3
Z3	5.8	6.0	96.7	92.1	89.0	89.8	99.1	99.4	89.3	90.1	99.1	98.6	26.2	28.4	166	166	100.0	98.2
D4	6.5	6.4	101.6	103.2	90.3	90.0	100.3	100.9	90.6	90.3	100.3	100.0	25.4	24.3	167	168	99.4	98.8
N4	4.4		88.8		92.2		92.2		92.2		27.7				175			

FRBG DATA

CUR. AV. 6.2	89.3	90.4	25.9	168
CUM. AV. 6.3	89.5	90.6	25.6	169
IND. #D 98.4	99.8	101.2	99.4	

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

TABLE XVIII
AVERAGES OF ROUTINE MILL QUALITY CONTROL DATA FOR 90 LB FOURDRINIER KRAFT LINERBOARD
JUNE, 1981

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 CUR. AV. #B	MACHINE DATA FACT. IND. #C	MACHINE DATA CUR. AV. #B	MACHINE DATA FACT. IND. #C	MACHINE DATA CUR. AV. #B	MACHINE DATA FACT. IND. #C	MACHINE DATA CUR. AV. #B	MACHINE DATA FACT. IND. #C	MACHINE DATA CUR. AV. #B	MACHINE DATA FACT. IND. #C										
D1	5.9	100.0	93.6	90.3	100.0	100.9	90.6	90.6	100.0	100.0	27.1	26.7	101.5	105.8	165	164	100.6	98.2		
E1	7.7			90.7			90.8				25.8				165					
M1	6.6			89.2			90.5				26.5				158					
N1	4.8	104.3	76.2	88.0	87.6	100.4	98.3	90.9	90.6	100.3	100.3	26.0	27.3	95.2	101.6	176	167	105.4	104.8	
O1	5.9	6.4	92.2	89.9	90.4	100.4	99.4	90.7	91.2	99.4	100.1	26.4	26.1	101.1	103.1	168	170	98.8	100.0	
A2	6.3	6.5	96.5	100.0	88.8	100.2	99.4	90.4	89.8	100.7	99.8	26.0	25.2	103.2	101.6	174	176	98.9	103.6	
H2	6.3	6.1	103.3	100.0	89.0	89.2	99.8	99.4	90.4	90.8	99.6	25.5	26.0	98.1	99.6	177	167	106.0	105.4	
O2	6.4			90.1			90.9				25.1				161					
V2	6.4		101.6	90.0			100.6	90.3			99.7	23.7		92.6	165				98.2	
B3	6.9	6.4	107.8	109.5	90.5	90.9	99.6	101.1	91.0	91.4	99.6	100.4	24.8	24.5	101.2	96.9	177	169	104.7	105.4
C3	6.6	6.1	108.2	104.8	89.6	89.0	100.7	100.1	90.8	90.7	100.2	26.9	26.8	100.4	105.1	167	168	99.4	99.4	
J3	7.2	7.6	94.7	114.3	89.7	89.9	99.8	100.2	90.3	90.1	100.2	23.8	24.1	98.8	93.0	194	181	107.2	115.5	
K3	6.6	6.4	103.1	104.8	89.3	88.7	100.7	99.8	90.5	90.0	100.6	24.5	24.4	100.4	95.7	164	164	100.0	97.6	
M3	7.1	7.1	100.0	112.7	89.7	89.2	100.6	100.2	90.4	89.9	100.6	24.2	24.2	100.0	94.5	169	175	96.6	100.6	
H3	6.4			89.7			91.1				26.2				168					
X3	6.4	5.7	112.3	101.6	90.0	90.5	99.4	100.6	91.4	92.6	98.7	100.9	27.2	27.1	100.4	106.2	161	164	98.2	95.8
Y3	6.1	6.3	96.8	96.8	89.1	90.0	99.0	99.6	90.7	91.4	99.2	100.1	23.5	23.8	98.7	91.8	165	160	103.1	98.2
Z3	6.1	6.0	101.7	96.8	90.2	89.7	100.6	100.8	90.5	90.0	100.6	29.0	28.2	102.8	113.3	173	166	104.2	103.0	
D4	6.4			90.1			90.4				24.3				167					
N4	4.4			88.8			92.2				27.7				175					

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

FKBG DATA
CUR. AV. 6.3 89.6 90.6 25.5 171
CUM. AV. 6.3 89.5 90.6 25.6 168
IND. #D 100.0 100.1 100.0 100.0 101.8

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

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

TABLE XIX
DATA ON CONDITIONING AND TESTING ENVIRONMENTS
APRIL, MAY, JUNE, 1981

Code	Conditioning Environment				Testing Environment
	Are Quality Samples Conditioned Before Testing?	Time	Procedure Temp., °F	RH, %	Are Quality Samples Tested Under Controlled Conditions of Temperature & Humidity?
A1	No	--	--	--	Yes: 72 + 3°F; 50 + 2% RH
B1	No data submitted for this quarter				
D1	No	--	--	--	Yes: 73 + 3°F; 50 + 2% RH
E1	No	--	--	--	No
F1	No	--	--	--	No
L1	No	--	--	--	Yes: 72 + 2°F; 50 + 2% RH
M1	No	--	--	--	Yes: 72 + 5°F; 50 + 5% RH
N1	No	--	--	--	No
O1	No	--	--	--	No
P1	No	--	--	--	No
Q1	No	--	--	--	Yes: 73 + 2°F; 50 + 2% RH
S1	No	--	--	--	Yes: 70 + 2°F; 50 + 2% RH
T1	No	--	--	--	Yes: 72 + 5°F; 50 + 5% RH
U1	No	--	--	--	No
V1	No	--	--	--	Yes: 73 + 3.5°F; 50 + 2% RH
X1	No	--	--	--	No
Y1	No	--	--	--	Yes: 73 + 2°F; 50 + 2% RH
A2	No	--	--	--	Yes: 73 + 2°F; 50 + 2% RH
F2	No	--	--	--	Yes: 73 + 3.5°F; 50 + 2% RH
H2	No	--	--	--	No
I2	No	--	--	--	Yes: 72 + 2°F; 50 + 2% RH
J2	Yes	10 Min	--	--	Yes: 73 + 3°F; 50 + 3% RH
K2	No	--	--	--	No
M2	No	--	--	--	Yes: 73 + 2°F; 50 + 2% RH
O2	No data submitted for this quarter				
R2	No	--	--	--	No
S2	No	--	--	--	Yes: 73 + 2°F; 50 + 2% RH
V2	No	--	--	--	No
W2	Yes	15 Min	--	--	Yes: 73 + 2°F; 50 + 1% RH
X2	No	--	--	--	No
Y2	No data submitted for this quarter				
A3	Yes	20 Min	--	--	Yes: 72 + 3.5°F; 50 + 2% RH
B3	No	--	--	--	Yes: 73 + 3°F; 50 + 2% RH
C3	No	--	--	--	No
J3	No	--	--	--	Yes: 72 + 2°F; 50 + 1% RH
K3	No	--	--	--	No
L3	No	--	--	--	Yes: 73 + 4°F; 50 + 5% RH
M3	No	--	--	--	No
N3	No	--	--	--	Yes: 73 + 2°F; 50 + 2% RH
T3	No	--	--	--	No
U3	No	--	--	--	Yes: 73 + 4°F; 50 + 5% RH
V3	No	--	--	--	Yes: 73 + 2°F; 50 + 2% RH
W3	No	--	--	--	Yes: 73 + 4°F; 50 + 5% RH
X3	Yes	10 Min	--	--	Yes: 73 + 2°F; 50 + 2% RH
Y3	Yes	10 Min	--	--	Yes: 73 + 3°F; 50 + 3% RH
Z3	No	--	--	--	No
A4	Yes	10 Min	--	--	Yes: 73 + 2°F; 50 + 2% RH
C4	No	--	--	--	Yes: 72 + 3°F; 50 + 2% RH
D4	No	--	--	--	Yes: 75 + 5°F; 50 + 5% RH
E4	No	--	--	--	Yes: 73 + 3°F; 50 + 2% RH
G4	No	--	--	--	Yes: 73 + 3.5°F; 50 + 2% RH
H4	No	--	--	--	Yes: 73 + 3°F; 50 + 1% RH
K4	Yes	15 Min	--	--	Yes: 73 + 3.5°F; 50 + 3% RH
L4	Yes	20 Min	--	--	Yes: 72 + 2°F; 50 + 2% RH
M4	No	--	--	--	Yes: 72 + 2°F; 50 + 2% RH
N4	No data submitted for this quarter				


THE INSTITUTE OF PAPER CHEMISTRY



Roger H. Van Eperen

Research Fellow
Paper Materials & Systems Division

Approved by



Clyde H. Sprague

Director
Paper Materials & Systems 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.

IPST HASLTON LIBRARY



5 0602 01064696 8