BASE-LINE
2nd HALF, 1992

THE INSTITUTE OF PAPER SCIENCE AND TECHNOLOGY
Atlanta, Georgia

CONTINUOUS BASE-LINE STUDY (MODIFIED)
(MILL LINERBOARD DATA FOR JUL-AUG,SEPT-OCT, NOV-DEC, 1992)

Project 3814-93

Report One-Hundred Twelve

A Progress Report

to

THE CONTAINERBOARD & KRAFT PAPER GROUP

OF THE

AMERICAN FOREST AND PAPER ASSOCIATION

March 1, 1993

TABLE OF CONTENTS

THE INSTITUTE OF PAPER SCIENCE AND TECHNOLOGY
Atlanta, Georgia

Containerboard and Kraft Paper Group
For Periods Jul-Aug, Sep-Oct, Nov-Dec 1992

SUMMARY

Moist @ reel
Percent

		JUL-AUG	SEP-OCT	NOV-DEC
26	Max	7.2	7.2	7.0
	Min	4.8	4.6	4.6
	Avg	5.7 (13)	5.7 (13)	5.7 (14)
	Stddev	.7	.8	.7
33	Max	7.2	7.4	7.3
	Min	4.0	4.3	4.1
	Avg	5.9 (27)	5.9 (28)	5.9 (26)
	Stddev	.7	.7	.7
38	Max	7.1	6.9	7.3
	Min	4.7	5.5	5.7
	Avg	6.1 (17)	6.1 (17)	6.2 (17)
	Stddev	.5	.4	.4
42	Max	7.2	7.6	7.6
	Min	5.1	4.6	5.0
	Avg	6.1 (44)	6.2 (44)	6.1 (43)
	Stddev	.6	.6	.6
69	Max	7.6	7.8	7.8
	Min	5.6	5.6	5.5
	Avg	6.5 (29)	6.5 (31)	6.6 (31)
	Stddev	.5	.5	.6
90	Max	8.7	8.0	8.4
	Min	6.0	6.0	6.1
	Avg	6.7 (13)	6.7 (13)	6.8 (16)
	Stddev	.7	.6	.6

Max. and Min. values are current machine averages.
Ave. is current C.K.P.G. average, number of machines is indicated in parentheses.

Containerboard and Kraft Paper Group
For Periods Jul-Aug, Sep-Oct, Nov-Dec 1992

SUMMARY

Adjusted Basis Weight
Lbs/M Sq Ft

		JUL-AUG	SEP-OCT	NOV-DEC
26	Max	28.1	26.8	27.5
	Min	25.5	25.4	25.5
	Avg	26.3 (14)	26.2 (14)	26.3 (15)
	Stddev	.6	.3	.5
33	Max	33.9	34.2	34.2
	Min	32.3	31.9	32.7
	Avg	33.3 (27)	33.3 (28)	33.3 (26)
	Stddev	.4	.4	.4
38	Max	39.6	39.1	40.6
	Min	37.7	37.7	37.7
	Avg	38.3 (15)	38.3 (16)	38.3 (16)
	Stddev	.6	.5	.7
42	Max	43.7	43.7	44.0
	Min	40.9	40.8	41.0
	Avg	42.2 (43)	42.2 (43)	42.2 (42)
	Stddev	.4	.5	.5
69	Max	70.6	71.1	70.9
	Min	67.5	67.4	67.7
	Avg	69.2 (29)	69.2 (31)	69.2 (31)
	Stddev	.7	.7	.6
90	Max	91.3	90.8	91.1
	Min	89.1	89.9	85.6
	Avg	90.3 (12)	90.3 (12)	90.2 (15)
	Stddev	.6	.3	1.3

Max. and Min. values are current machine averages.
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Containerboard and Kraft Paper Group
For Periods Jul-Aug, Sep-Oct, Nov-Dec 1992

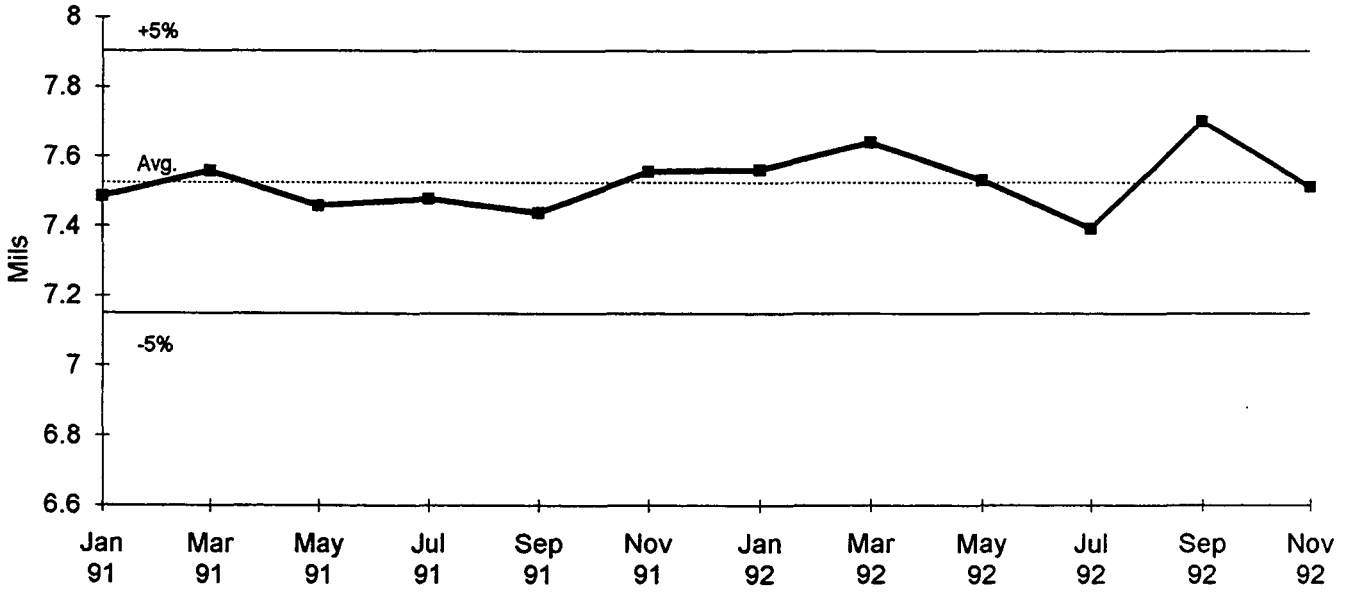
SUMMARY

Caliper
Mils

		JUL-AUG	SEP-OCT	NOV-DEC
26	Max	8.6	8.7	8.5
	Min	4.4	7.0	6.7
	Avg	7.4 (14)	7.7 (14)	7.5 (15)
	Stddev	.9	.5	.5
33	Max	10.2	10.2	11.0
	Min	6.3	6.7	7.4
	Avg	9.1 (27)	9.3 (27)	9.4 (26)
	Stddev	.8	.8	.7
38	Max	12.1	11.6	11.9
	Min	9.3	8.9	8.7
	Avg	10.4 (16)	10.4 (15)	10.5 (16)
	Stddev	.8	.7	.8
42	Max	12.8	12.6	12.7
	Min	10.4	10.0	9.7
	Avg	11.5 (42)	11.5 (43)	11.5 (42)
	Stddev	.6	.6	.6
69	Max	21.9	21.8	21.7
	Min	17.1	15.4	16.2
	Avg	18.6 (28)	18.5 (31)	18.5 (31)
	Stddev	1.0	1.2	1.2
90	Max	26.4	27.0	26.7
	Min	19.4	21.1	21.8
	Avg	23.7 (11)	24.3 (12)	24.2 (15)
	Stddev	1.8	1.6	1.3

Max. and Min. values are current machine averages.
Ave. is current C.K.P.G. average, number of machines is indicated in parentheses.

26# Caliper



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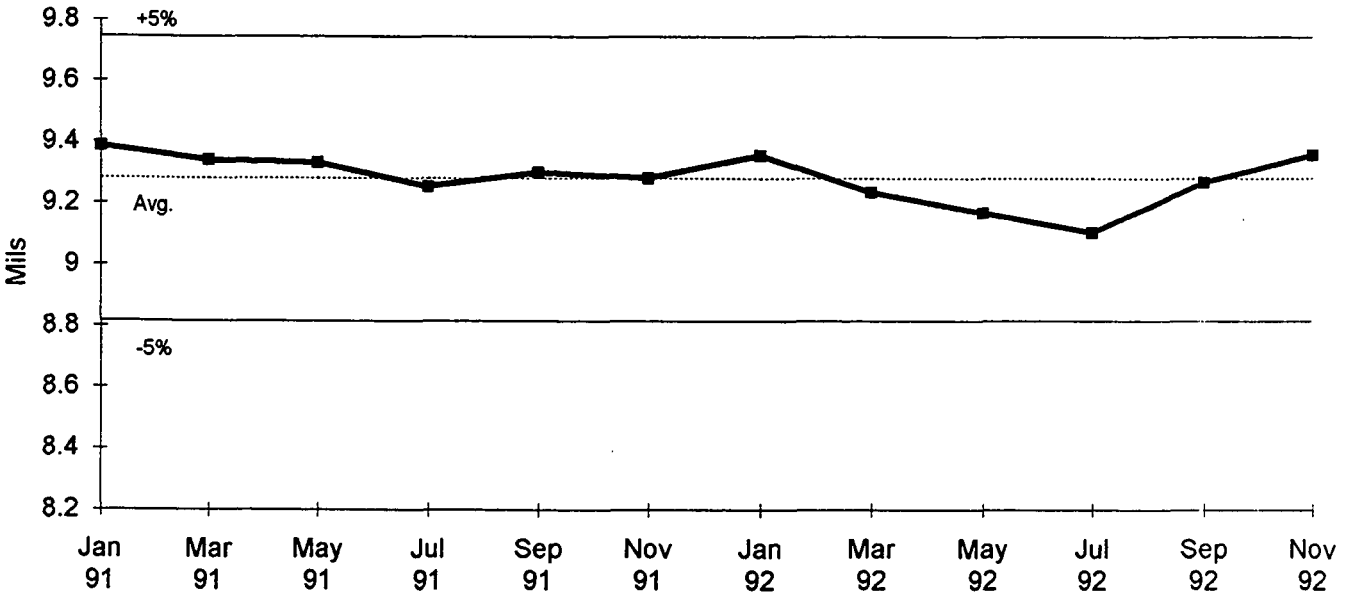

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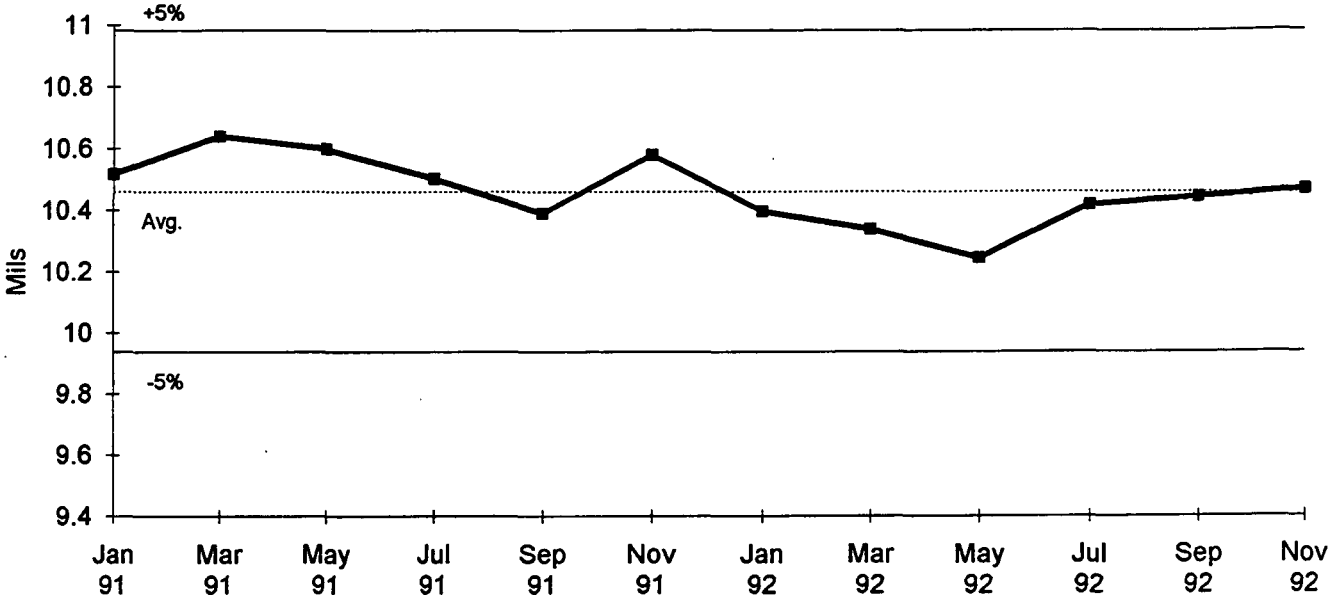
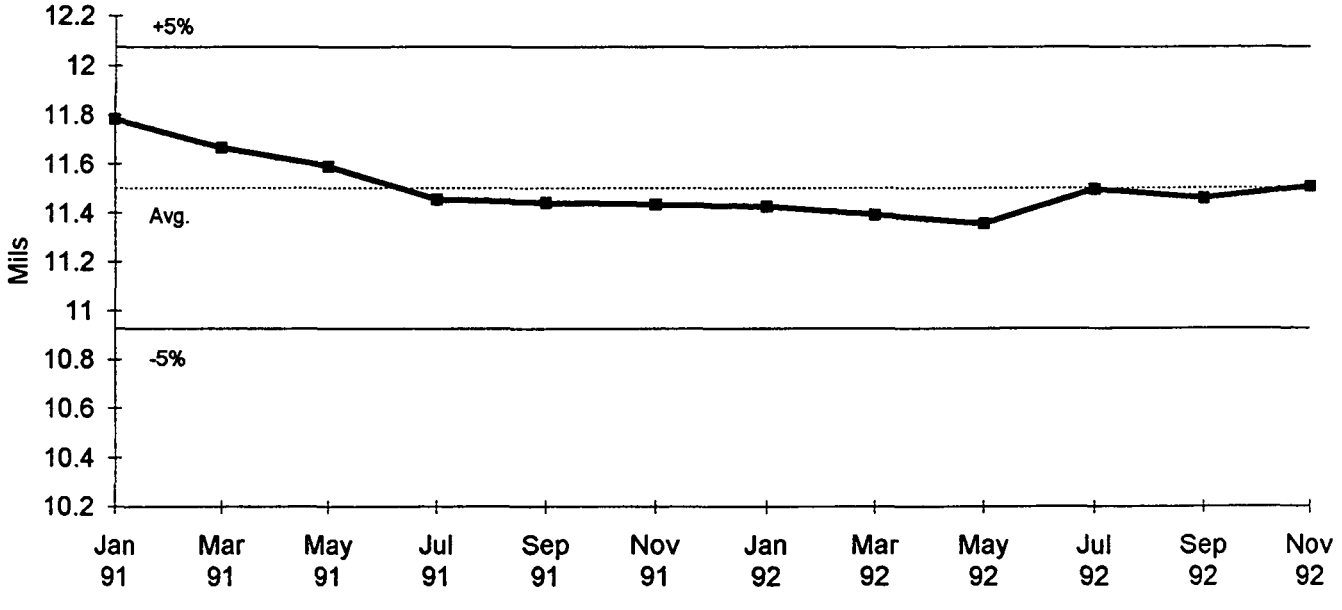
38# Caliper



42# Caliper



Max. and Min. values are current machine averages.
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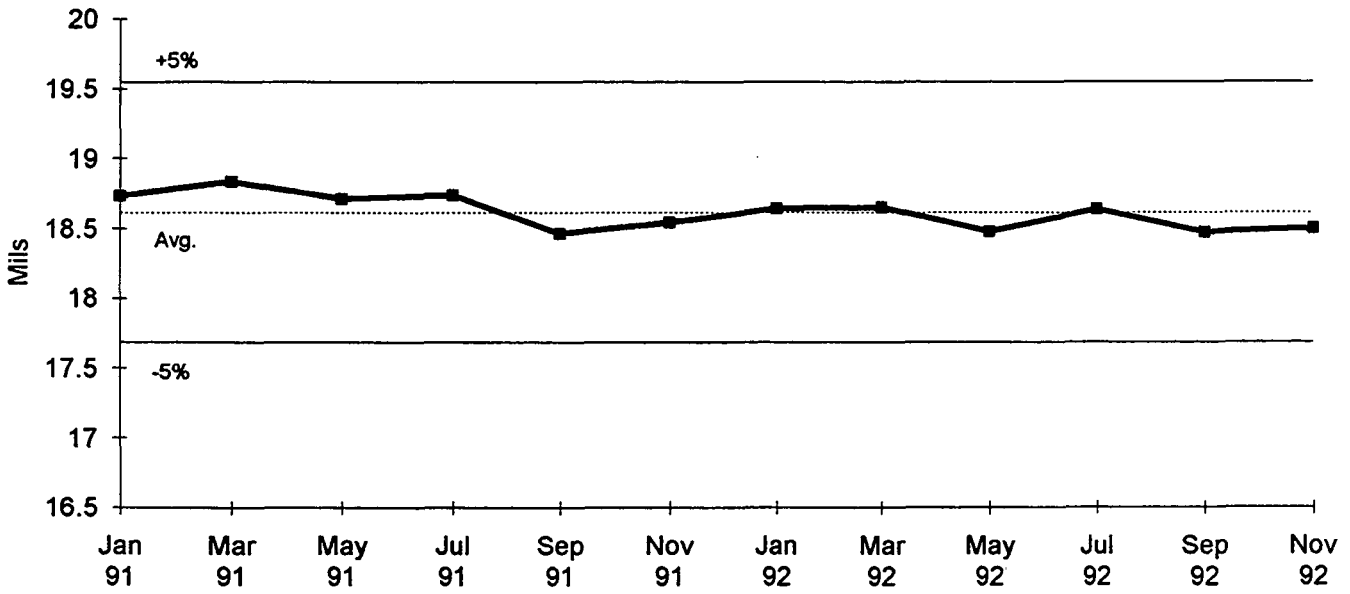
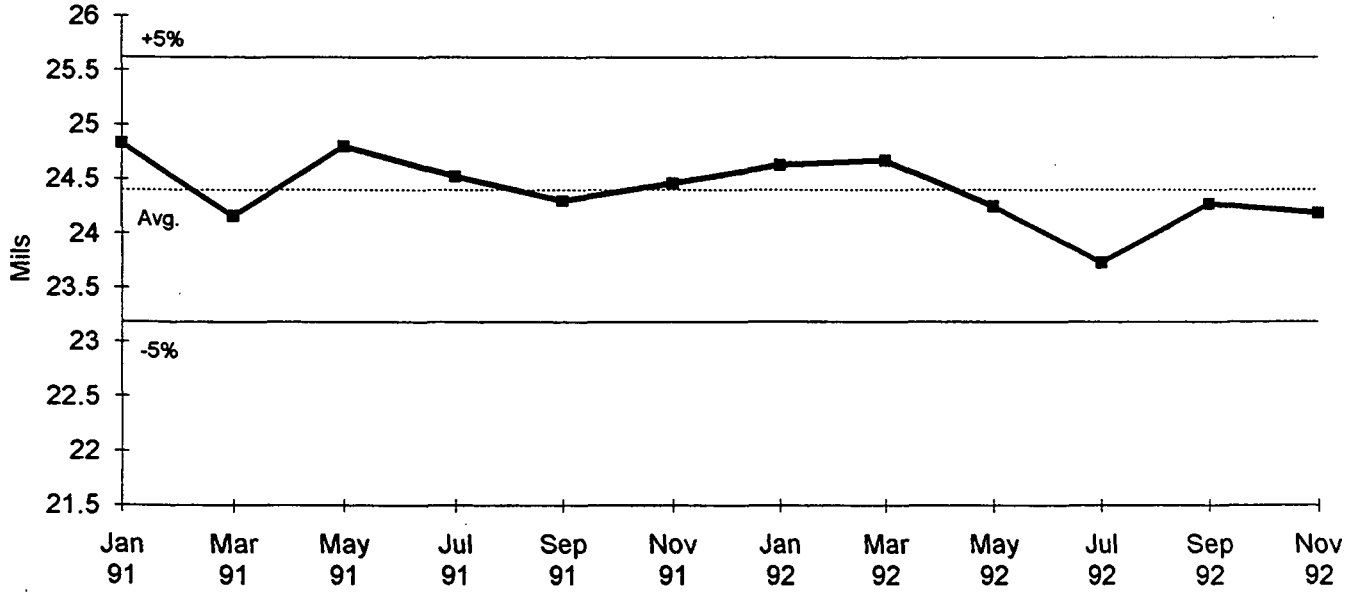
69# Caliper



90# Caliper



Max. and Min. values are current machine averages.
Ave. is current C.K.P.G. average, number of machines is indicated in parentheses.

Containerboard and Kraft Paper Group
For Periods Jul-Aug, Sep-Oct, Nov-Dec 1992

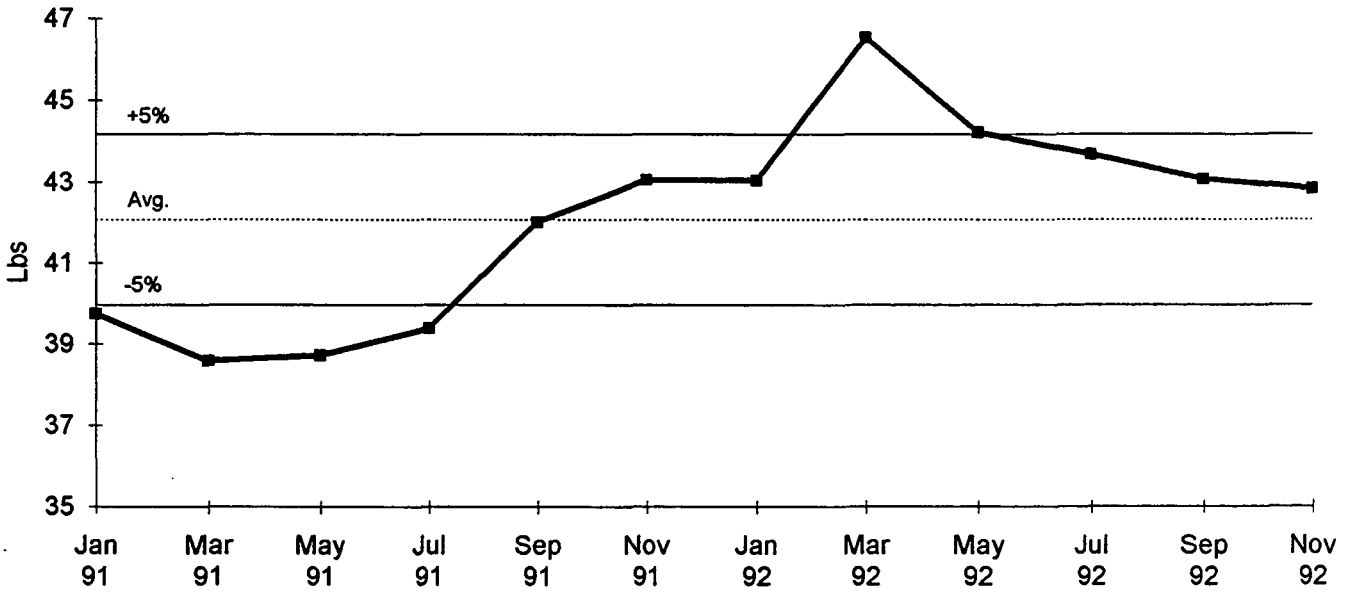
SUMMARY

CD Ring Crush
Lbs

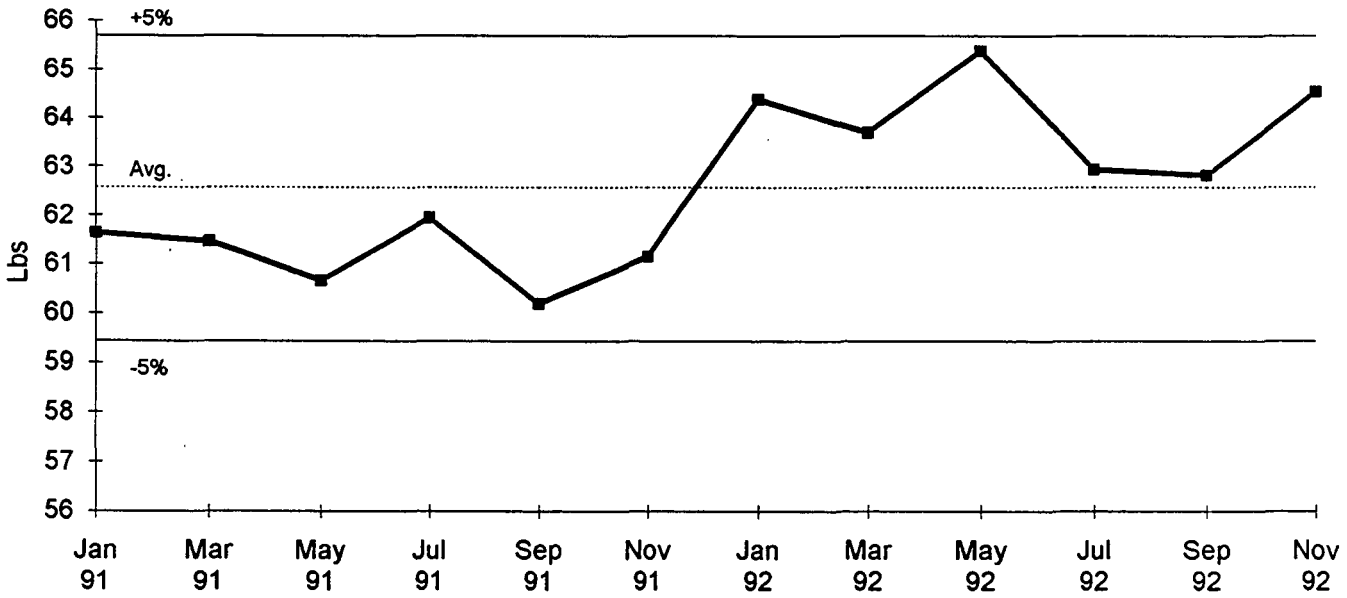
		JUL-AUG	SEP-OCT	NOV-DEC
26	Max	54.8	55.7	53.5
	Min	30.2	32.7	36.2
	Avg	43.7 (7)	43.1 (8)	42.9 (10)
	Stddev	7.2	6.6	4.7
33	Max	79.6	79.0	77.2
	Min	44.6	45.9	51.8
	Avg	62.9 (17)	62.8 (17)	64.5 (18)
	Stddev	8.6	8.7	6.1
38	Max	96.7	97.1	89.8
	Min	63.0	69.5	67.0
	Avg	76.6 (11)	79.9 (11)	76.5 (12)
	Stddev	9.2	7.6	7.4
42	Max	99.3	103.1	106.7
	Min	63.9	56.8	71.9
	Avg	81.5 (31)	82.9 (29)	83.0 (29)
	Stddev	7.9	8.7	7.6
69	Max	157.4	170.6	158.8
	Min	102.5	116.0	113.5
	Avg	133.7 (22)	134.7 (22)	135.0 (22)
	Stddev	14.2	14.7	12.0
90	Max	202.8	207.6	200.9
	Min	147.0	157.5	154.5
	Avg	172.3 (11)	176.5 (9)	170.8 (10)
	Stddev	15.1	16.2	14.1

Max. and Min. values are current machine averages.
Ave. is current C.K.P.G. average, number of machines is indicated in parentheses.

26# CD Ring Crush

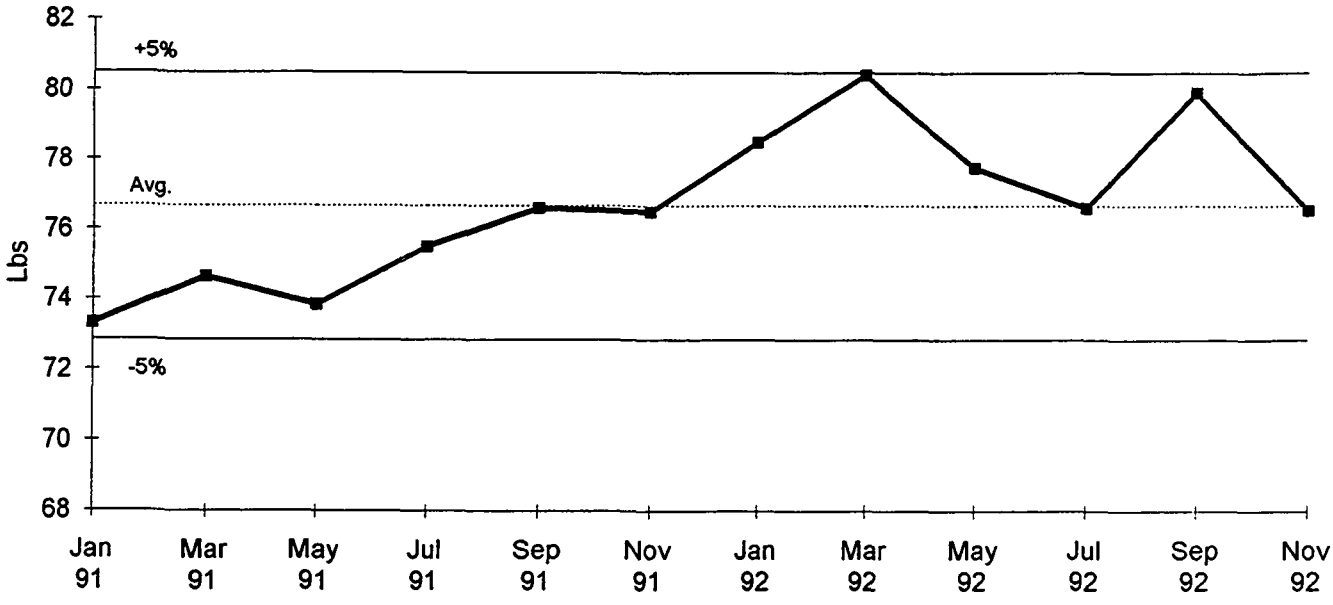


33# CD Ring Crush

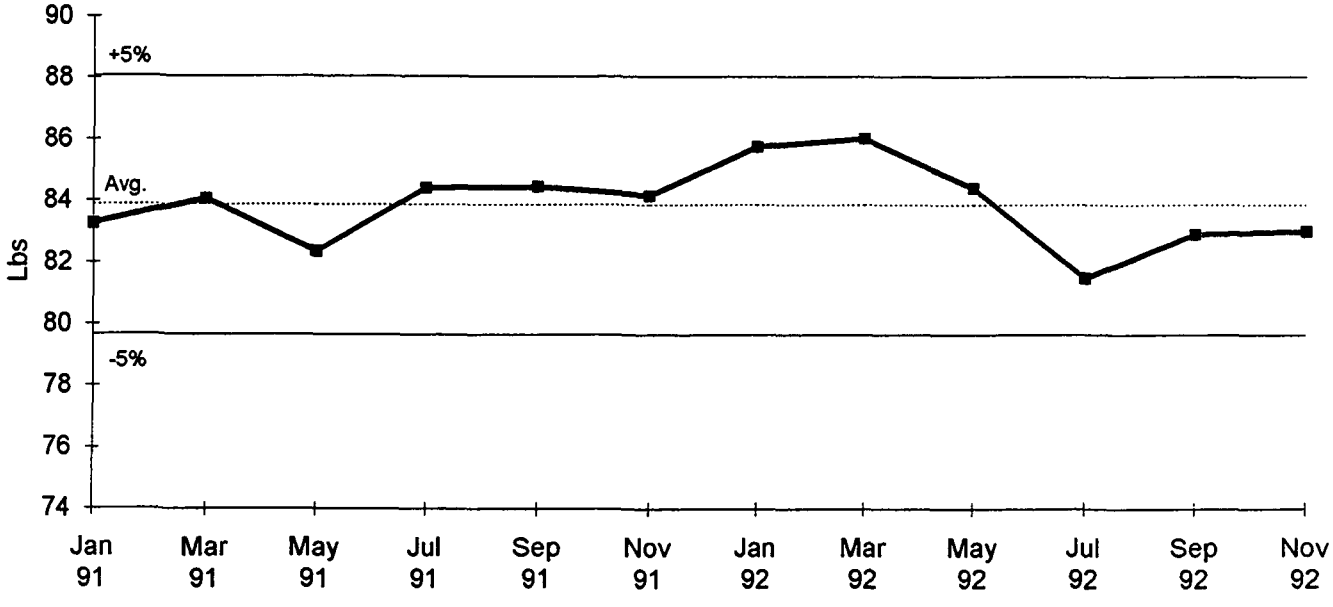


Max. and Min. values are current machine averages.
Ave. is current C.K.P.G. average, number of machines is indicated in parentheses.

38# CD Ring Crush

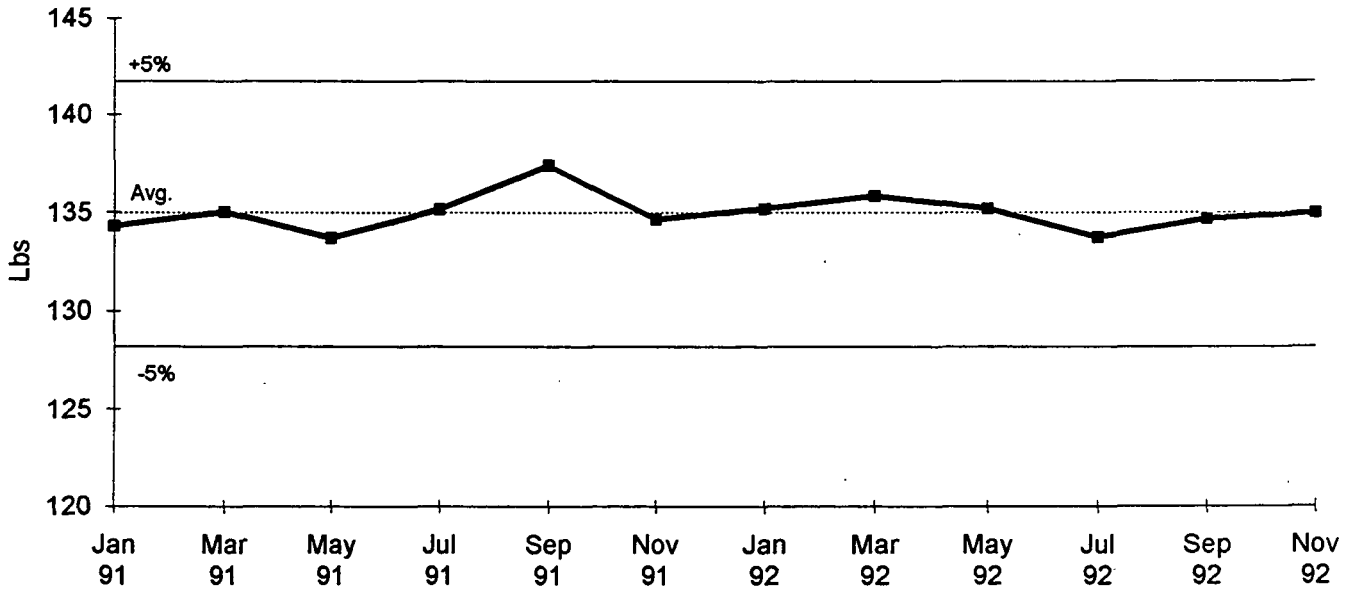


42# CD Ring Crush

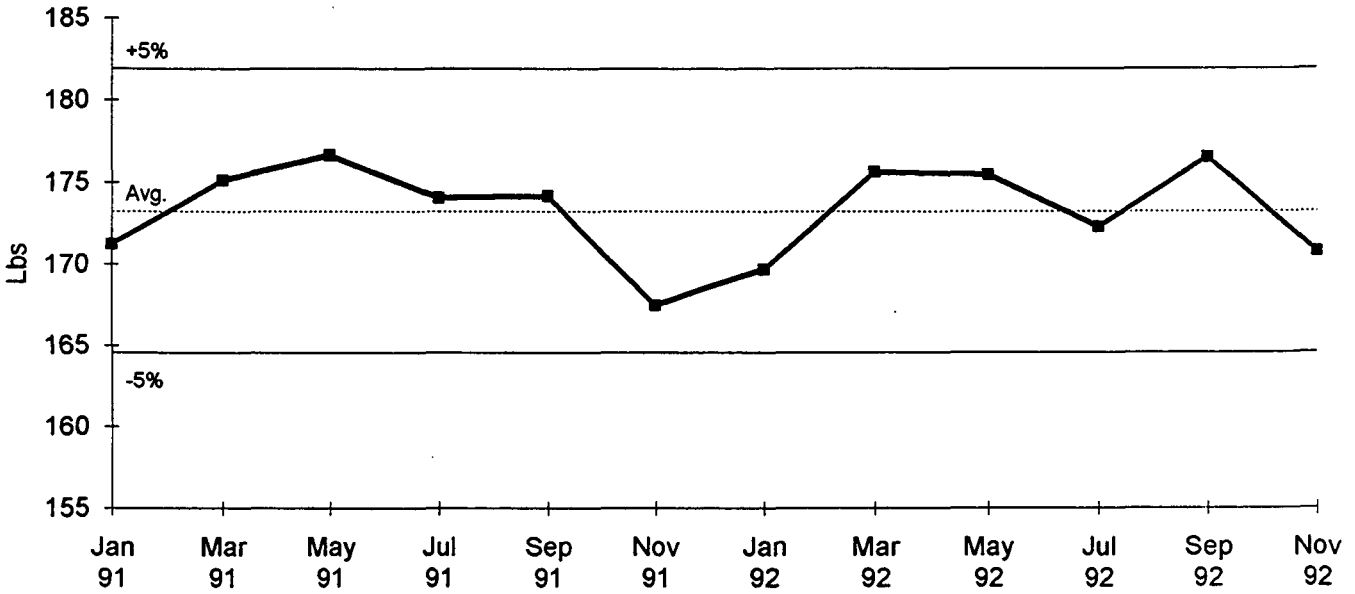


Max. and Min. values are current machine averages.
Ave. is current C.K.P.G. average, number of machines is indicated in parentheses.

69# CD Ring Crush



90# CD Ring Crush



Max. and Min. values are current machine averages.
Ave. is current C.K.P.G. average, number of machines is indicated in parentheses.

Containerboard and Kraft Paper Group
For Periods Jul-Aug, Sep-Oct, Nov-Dec 1992

SUMMARY

CD Short Span Comp
Lbs/in

		JUL-AUG	SEP-OCT	NOV-DEC
26	Max	18.1	14.1	14.3
	Min	12.9	11.9	12.5
	Avg	14.1 (8)	12.9 (8)	13.1 (8)
	Stddev	1.7	.8	.7
33	Max	22.2	19.0	19.3
	Min	14.2	14.2	14.5
	Avg	17.2 (16)	16.7 (18)	16.8 (15)
	Stddev	1.8	1.2	1.3
38	Max	20.5	22.2	20.7
	Min	17.6	17.9	18.3
	Avg	18.8 (9)	19.5 (9)	19.1 (9)
	Stddev	1.0	1.4	.7
42	Max	22.6	31.8	24.0
	Min	18.6	18.3	17.8
	Avg	20.6 (27)	20.9 (29)	20.5 (27)
	Stddev	1.2	2.3	1.4
69	Max	37.3	36.0	36.0
	Min	28.6	27.1	27.6
	Avg	32.4 (18)	32.3 (20)	32.3 (20)
	Stddev	2.2	2.2	2.2
90	Max	49.6	48.3	47.4
	Min	41.9	39.5	37.5
	Avg	44.5 (8)	43.6 (7)	43.6 (10)
	Stddev	2.7	3.0	3.0

Max. and Min. values are current machine averages.
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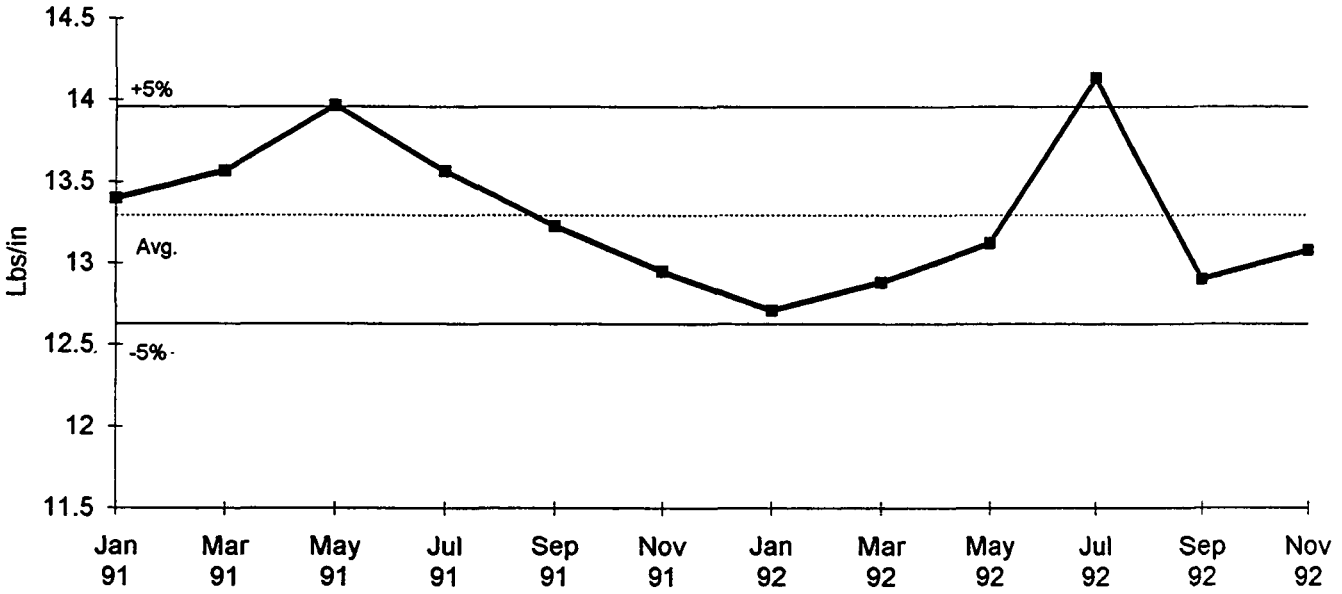
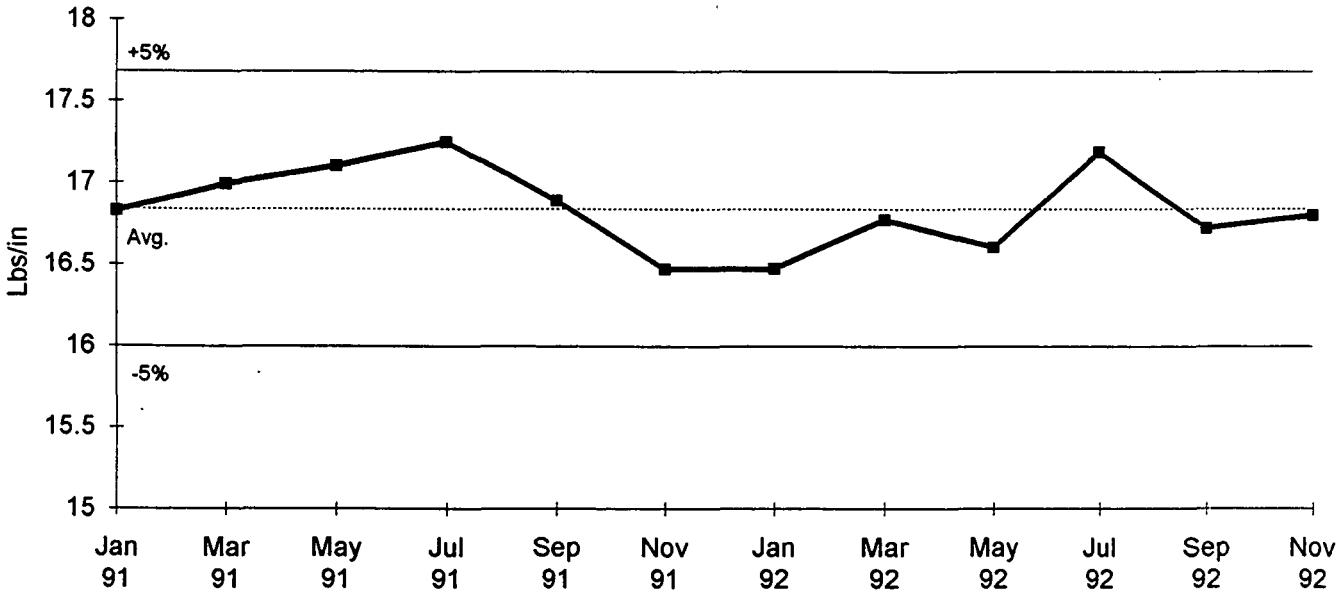
26# CD Short Span Comp



33# CD Short Span Comp



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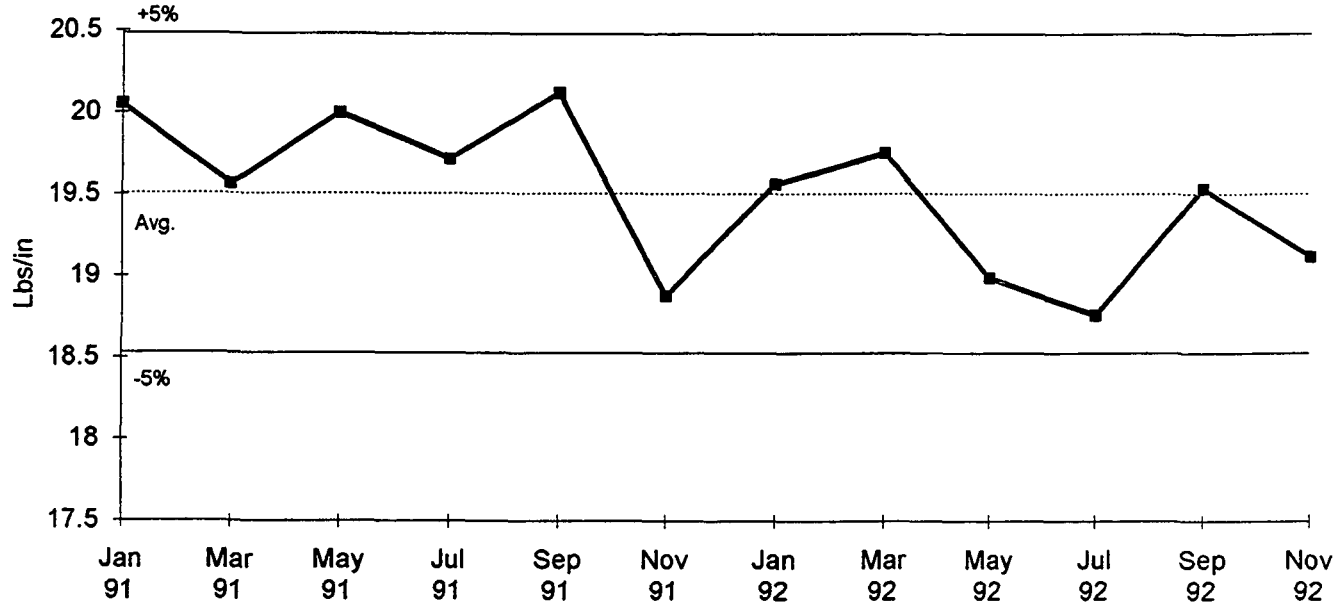
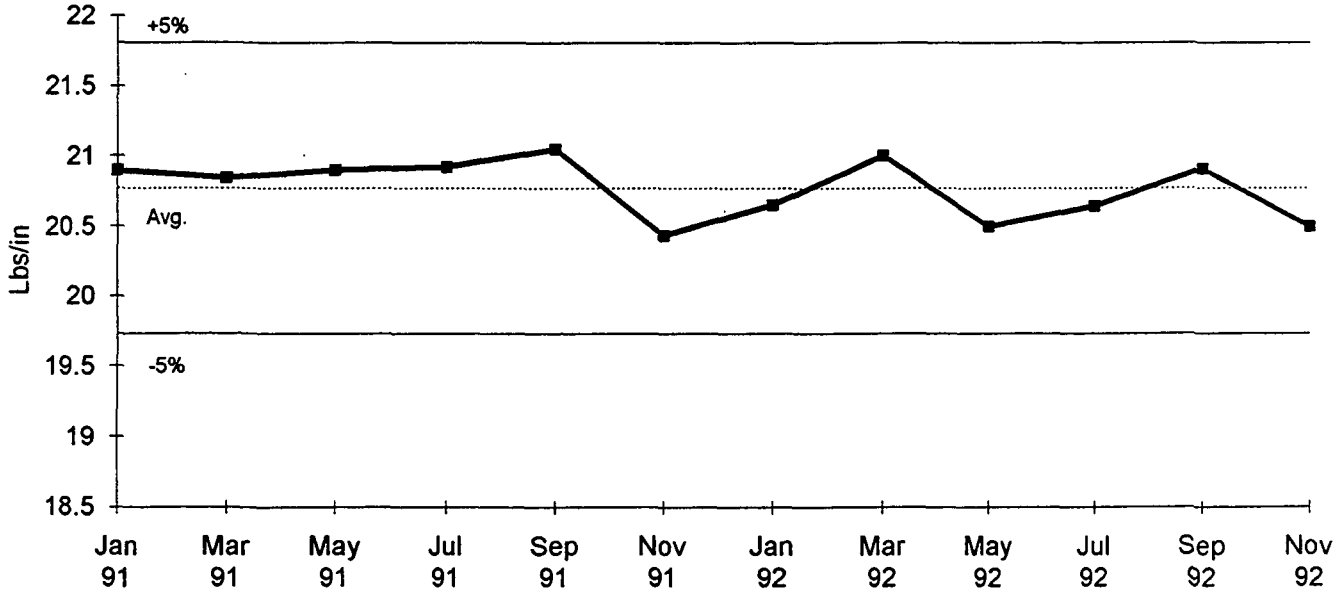
38# CD Short Span Comp



42# CD Short Span Comp



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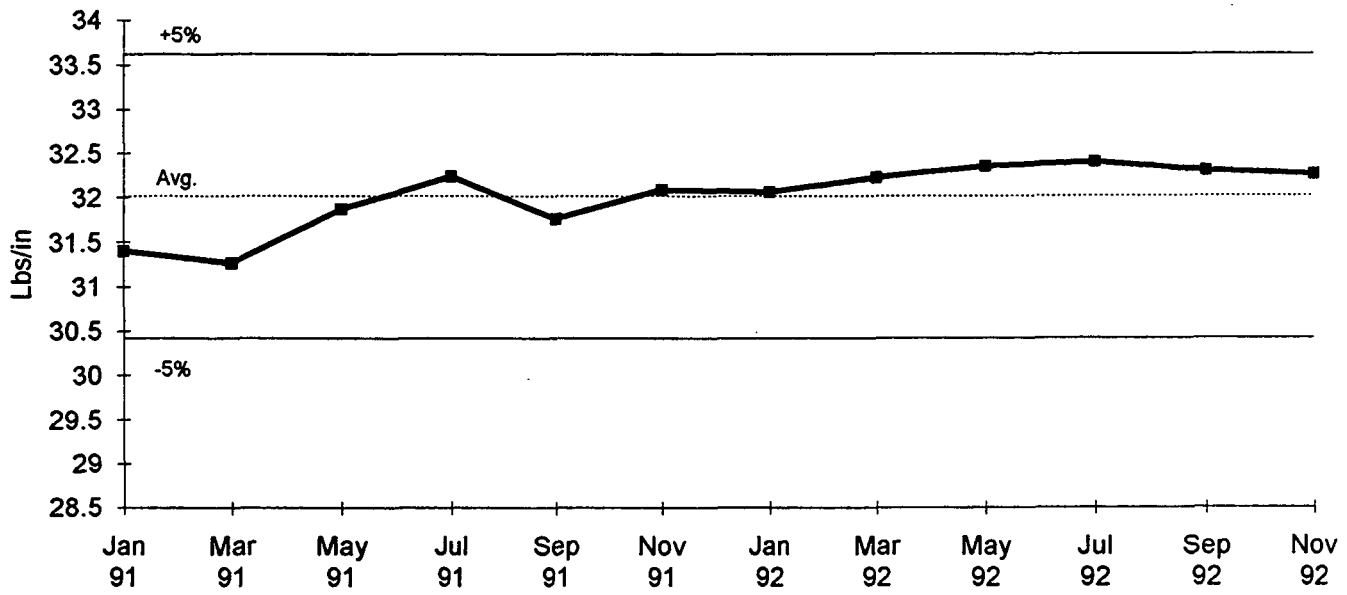
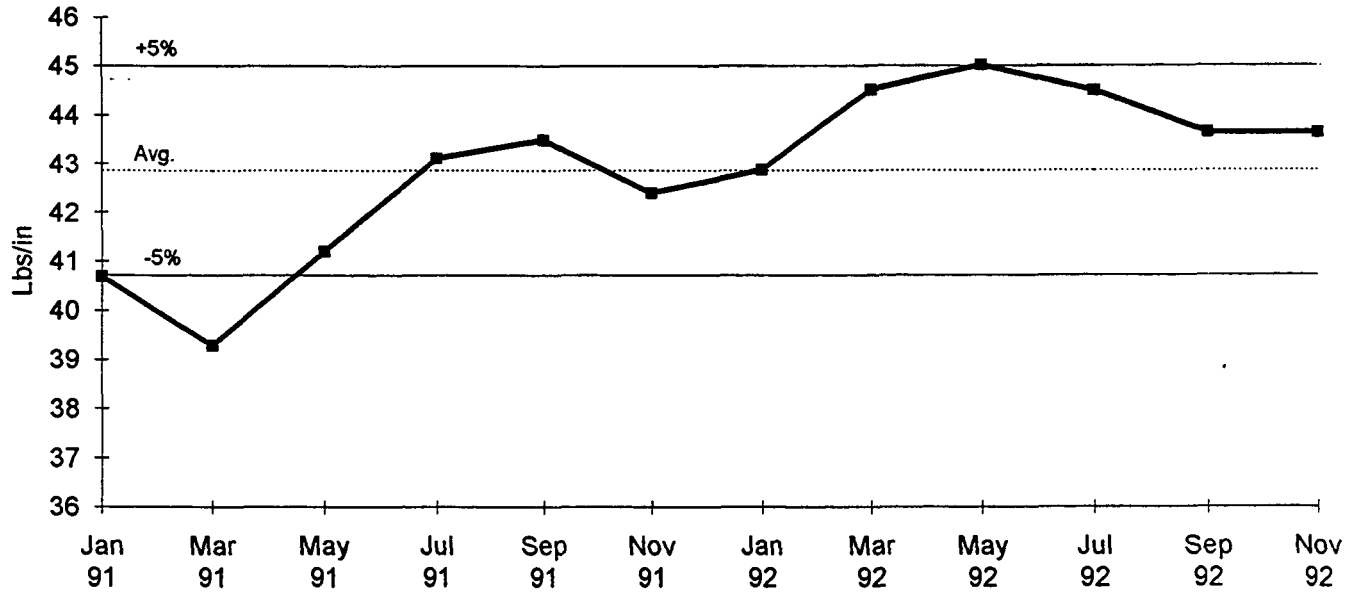
69# CD Short Span Comp



90# CD Short Span Comp



Max. and Min. values are current machine averages.
Ave. is current C.K.P.G. average, number of machines is indicated in parentheses.

Containerboard and Kraft Paper Group
For Periods Jul-Aug, Sep-Oct, Nov-Dec 1992

SUMMARY

Bursting Strength
PSIG

		JUL-AUG	SEP-OCT	NOV-DEC
26	Max	81.5	78.0	82.0
	Min	64.7	63.3	68.6
	Avg	73.5 (14)	72.8 (14)	73.3 (15)
	Stddev	4.8	4.9	3.8
33	Max	110.0	104.1	107.5
	Min	77.1	75.5	75.8
	Avg	89.8 (28)	88.2 (29)	87.5 (27)
	Stddev	7.0	6.3	6.8
38	Max	121.3	116.9	117.0
	Min	88.0	91.4	91.2
	Avg	101.8 (17)	102.5 (17)	102.6 (17)
	Stddev	8.2	7.1	7.4
42	Max	130.2	129.0	118.5
	Min	97.5	94.0	97.0
	Avg	107.2 (45)	107.6 (45)	106.5 (44)
	Stddev	5.9	7.7	5.3
69	Max	169.5	190.0	178.6
	Min	136.0	135.9	132.7
	Avg	148.2 (30)	150.3 (32)	147.5 (32)
	Stddev	7.9	11.0	9.6
90	Max	186.0	189.5	195.7
	Min	166.5	158.0	154.5
	Avg	177.4 (13)	177.1 (13)	177.1 (16)
	Stddev	5.5	8.7	11.3

Max. and Min. values are current machine averages.
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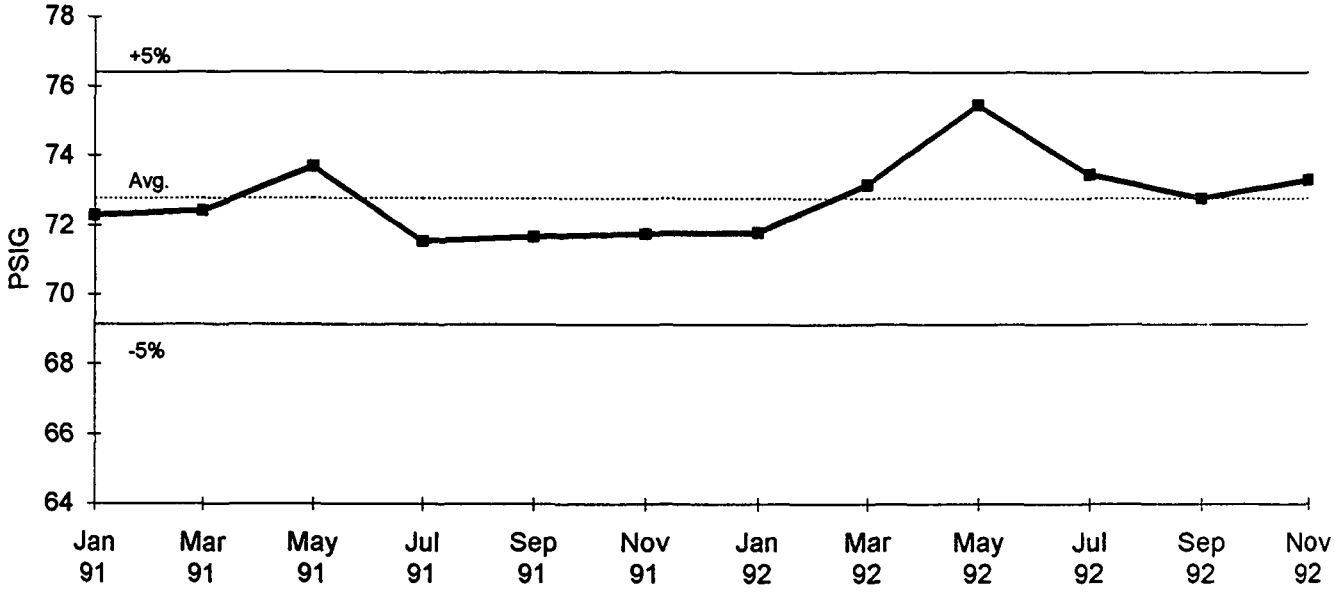
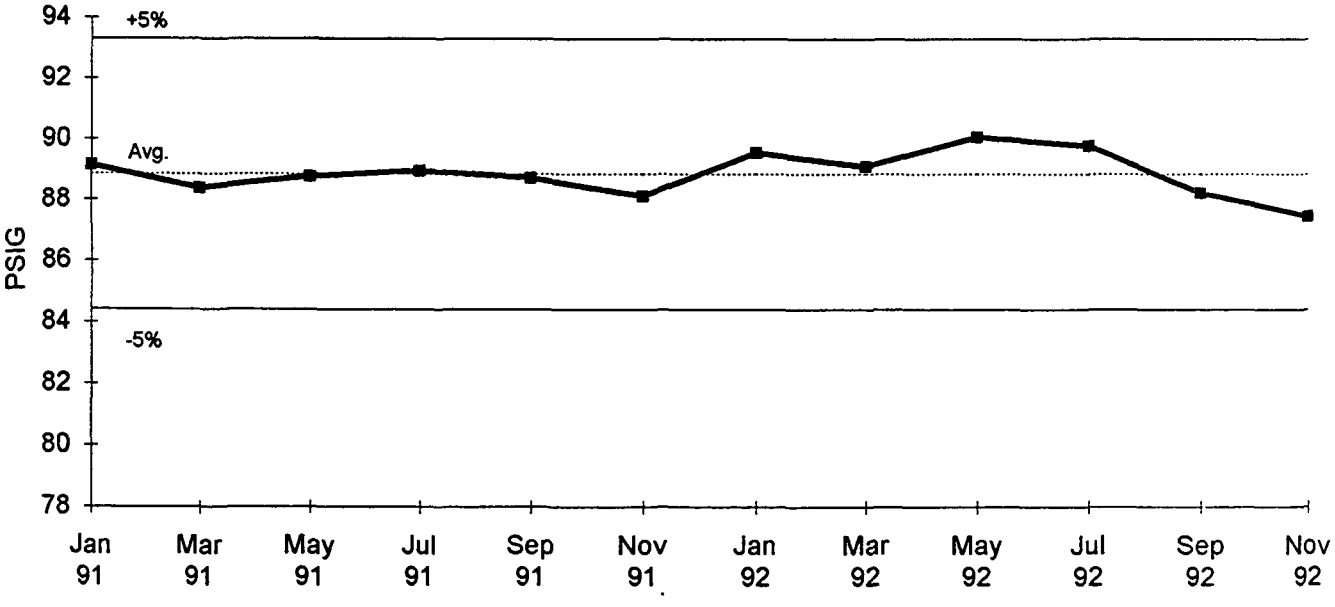
26# Bursting Strength



33# Bursting Strength



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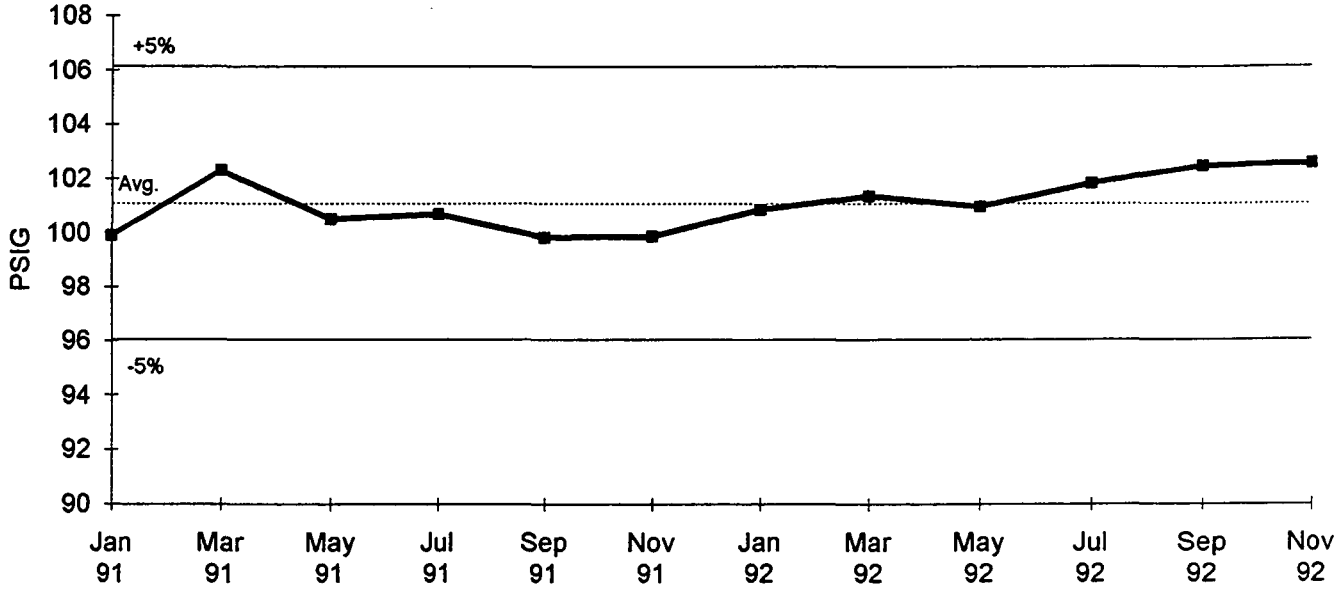
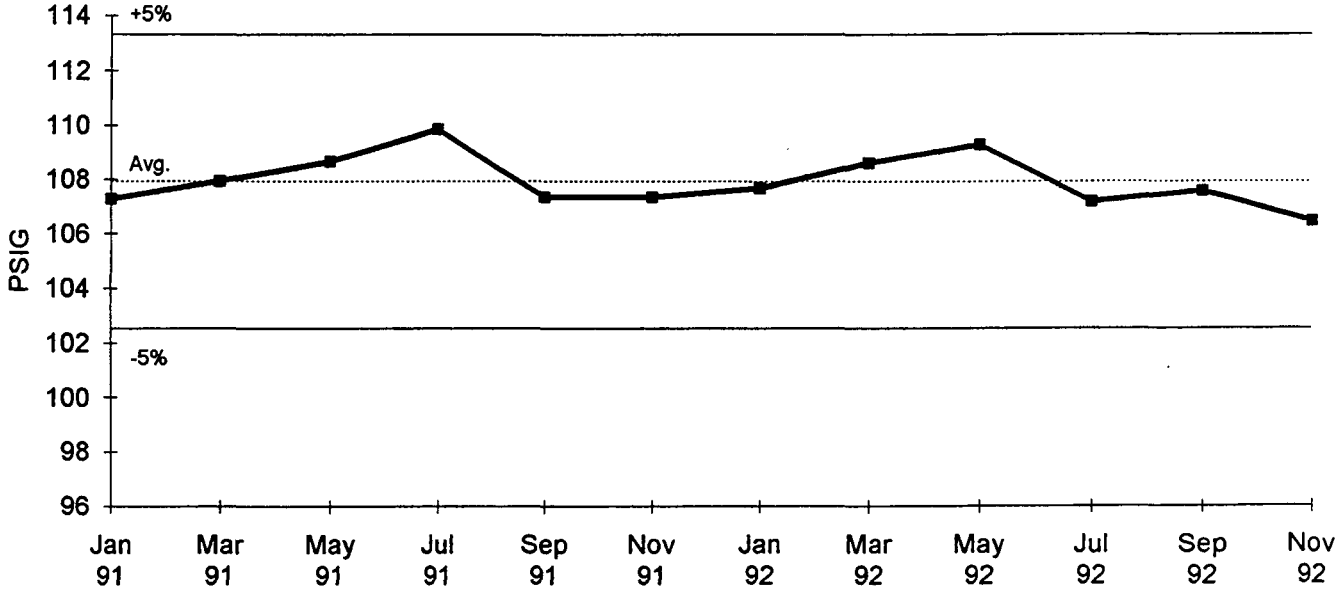
38# Bursting Strength



42# Bursting Strength



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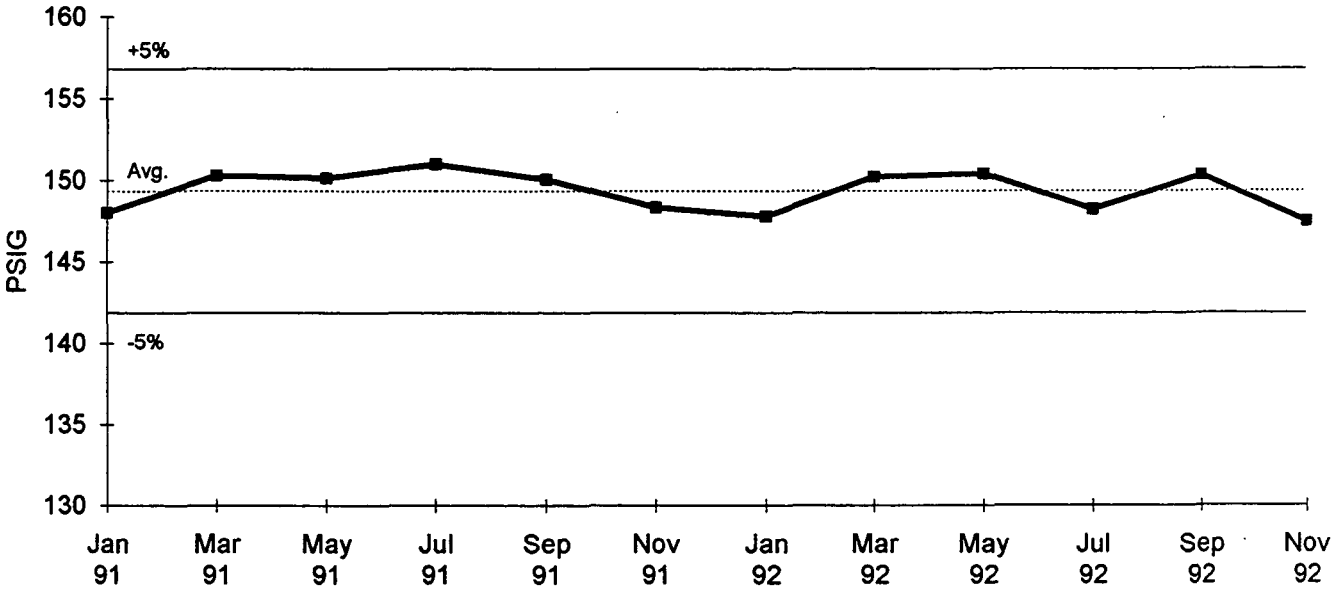
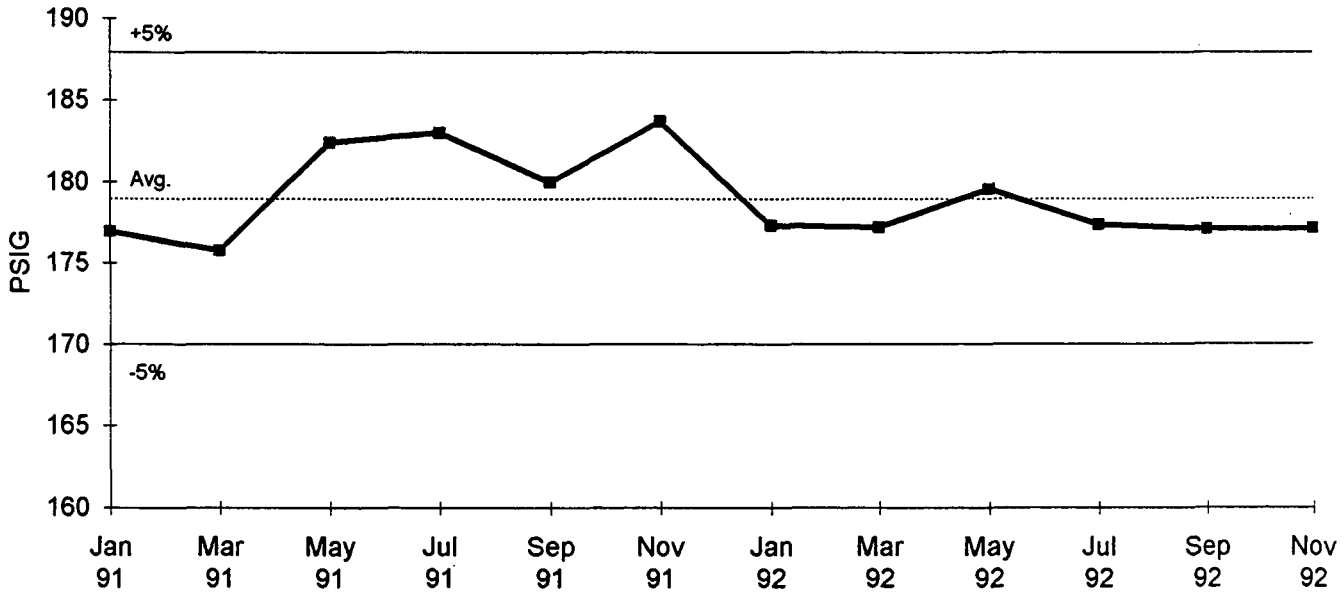
69# Bursting Strength



90# Bursting Strength



Max. and Min. values are current machine averages.
Ave. is current C.K.P.G. average, number of machines is indicated in parentheses.

INTRODUCTION

The continuous base-line study (modified) is a compilation of bimonthly averages of mill test data obtained routinely on six major grade weights of linerboard manufactured in the member mills of C.K.P. G. Mill data are included for moisture content, basis weight, caliper, bursting strength, C.D. ring crush, and C.D. STFI 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 period: 26, 33, 38, 42, 69, and 90 lb.

Participating mills are asked to report reel moisture content, basis weight, and moisture content corresponding to the basis weight measurement. The latter two measurements are used to compute the adjusted basis weight corresponding to a moisture content of 7.8%. Only the reel moisture content and the adjusted basis weight are included in the report.

PRESENTATION OF DATA

For the six major grade weights of linerboard referred to earlier, data on conditioning and testing environments, mill test averages for moisture content, adjusted basis weight, caliper, bursting strength, C.D. ring crush, and C.D. STFI are compiled in the following tables.

	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

The procedure used in calculating cumulative machine averages, machines indexes, and C.K.P.G. indexes are described in the appendix.

Table I

AVERAGES OF MILL QUALITY DATA FOR JUL-AUG 1992 26 #

Code	Moist @ reel Percent			Adjusted Basis Weight Lbs/M Sq Ft			Caliper Mils		
	Cur Avg	Cum Avg	Ind *B	Cur Avg	Cum Avg	Ind *B	Cur Avg	Cum Avg	Ind *B
C1		5.8			27.0			7.4	
E4		5.0			26.6			6.8	
F1	5.8	6.2	101.8	26.4	26.4	99.6	7.9	7.7	105.3
F4	6.0	5.8	105.3	28.1	28.1	106.0	7.5	7.7	100.0
H3		5.0			26.1			8.1	
I4	5.8	5.9	101.8	26.0	26.1	98.1	7.6	7.4	101.3
J1	5.6	5.6	98.2	26.1	26.0	98.5	7.9	7.8	105.3
J4	7.1	7.0	124.6	26.1	26.1	98.5	8.6	8.5	114.7
M3	4.8	4.8	84.2	26.9	26.8	101.5	7.6	7.6	101.3
N1	5.2	5.0	91.2	25.5	26.7	96.2	4.4	7.1	58.7
P2	5.7	5.5	100.0	25.9	25.9	97.7	6.9	6.9	92.0
P4	5.6	5.5	98.2	26.2	26.2	98.9	7.8	7.7	104.0
Q1	5.2	5.3	91.2	26.2	26.4	98.9	7.2	7.5	96.0
R3	7.2	7.1	126.3	26.1	26.1	98.5	7.0	7.4	93.3
T1				26.6	26.6	100.4	7.6	7.6	101.3
W2	5.3	5.5	93.0	25.7	27.1	97.0	7.2	7.2	96.0
Y4	5.0	5.0	87.7	26.1	26.1	98.5	7.2	7.7	96.0
Z3		5.8			26.6			7.1	
CKPG-L	5.7	5.7	100.0	26.3	26.5	99.2	7.4	7.5	98.7

Notes A and B are given in the appendix.

Table I (cont.)

AVERAGES OF MILL QUALITY DATA FOR JUL-AUG 1992 26 #

Code	CD Ring Crush Lbs			CD Short Span Comp Lbs/in			Bursting Strength PSIG		
	Cur Avg	Cum Avg	Ind *B	Cur Avg	Cum Avg	Ind *B	Cur Avg	Cum Avg	Ind *B
C1		44.1						71.8	
E4		31.0			13.6			78.4	
F1							69.4	70.9	95.6
F4	54.8	56.6	127.7				70.6	77.1	97.2
H3					12.8			74.4	
I4		34.1		18.1	12.5	138.2	76.6	75.2	105.5
J1	43.5	42.8	101.4				72.0	72.9	99.2
J4				12.9	12.7	98.5	69.0	68.6	95.0
M3	45.0	46.3	104.9	15.0	14.9	114.5	81.5	73.0	112.3
N1	30.2	35.3	70.4	14.0	13.2	106.9	75.5	74.4	104.0
P2	46.4	40.4	108.2	13.8	13.3	105.3	73.8	71.8	101.7
P4	43.5	42.8	101.4				74.6	72.0	102.8
Q1	42.5	43.0	99.1				78.0	78.8	107.4
R3				13.3	12.8	101.5	67.5	71.3	93.0
T1				13.1	12.1	100.0	79.5	77.3	109.5
W2		40.3					64.7	65.3	89.1
Y4		33.2		13.1	12.1	100.0	71.5	72.3	98.5
Z3		44.4						70.7	
CKPG-L	43.7	42.9	101.9	14.1	13.1	107.6	73.5	72.6	101.2

Notes A and B are given in the appendix.

Table II

AVERAGES OF MILL QUALITY DATA FOR SEP-OCT 1992 26 #

Code	Moist @ reel Percent			Adjusted Basis Weight Lbs/M Sq Ft			Caliper Mils		
	Cur Avg	Cum Avg	Ind *B	Cur Avg	Cum Avg	Ind *B	Cur Avg	Cum Avg	Ind *B
E4		4.9			26.7			6.8	
F1	5.4	6.1	94.7	26.5	26.4	100.0	8.3	7.8	110.7
F4	6.0	5.9	105.3	26.8	28.1	101.1	7.5	7.7	100.0
H3		5.0			26.1			8.1	
I4		5.9			26.1			7.4	
J1	5.6	5.6	98.2	26.0	26.0	98.1	7.6	7.7	101.3
J4	7.0	7.0	122.8	26.1	26.1	98.5	8.5	8.5	113.3
K3	6.5		114.0	26.3		99.2	7.0		93.3
M3	4.6	4.8	80.7	26.5	26.8	100.0	7.4	7.6	98.7
N1	5.2	5.1	91.2	25.4	26.5	95.8	8.7	6.7	116.0
P2	5.2	5.5	91.2	26.0	25.9	98.1	7.4	6.8	98.7
P4	5.6	5.4	98.2	26.2	26.2	98.9	7.7	7.7	102.7
Q1	5.3	5.3	93.0	26.1	26.3	98.5	7.6	7.4	101.3
R3	7.2	7.1	126.3	26.1	26.1	98.5	7.0	7.3	93.3
T1				26.6	26.6	100.4	7.8	7.6	104.0
W2	5.5	5.4	96.5	26.1	27.1	98.5	7.1	7.3	94.7
Y4	5.0	5.0	87.7	26.1	26.1	98.5	7.8	7.7	104.0
Z3		5.9			26.6			7.0	
CKPG-L	5.7	5.7	100.0	26.2	26.5	98.9	7.7	7.5	102.7

Notes A and B are given in the appendix.

Table II (cont.)

AVERAGES OF MILL QUALITY DATA FOR SEP-OCT 1992 26 #

Code	CD Ring Crush Lbs			CD Short Span Comp Lbs/in			Bursting Strength PSIG		
	Cur Avg	Cum Avg	Ind *B	Cur Avg	Cum Avg	Ind *B	Cur Avg	Cum Avg	Ind *B
E4		30.0			13.4			79.0	
F1							72.6	70.9	99.6
F4	55.7	56.3	127.8				71.8	76.0	98.5
H3					12.8			74.4	
I4		34.1			16.2			75.5	
J1	43.0	43.1	98.6				72.0	73.1	98.8
J4				13.2	12.7	100.0	69.5	68.6	95.3
K3	37.0		84.9	12.2		92.4	76.0		104.3
M3	43.0	46.5	98.6	14.0	15.0	106.1	78.0	74.4	107.0
N1	32.7	33.3	75.0	11.9	13.5	90.2	69.0	74.7	94.7
P2	43.2	41.6	99.1	14.1	13.3	106.8	77.3	72.2	106.0
P4	43.5	43.3	99.8				78.0	72.7	107.0
Q1	43.5	42.8	99.8				78.0	78.5	107.0
R3				13.4	12.6	101.5	66.0	71.3	90.5
T1				12.5	12.2	94.7	77.5	77.1	106.3
W2		42.4					63.3	65.2	86.8
Y4		32.0		12.3	12.3	93.2	69.5	72.4	95.3
Z3		44.0						70.7	
CKPG-L	43.1	43.6	98.9	12.9	13.2	97.7	72.8	72.9	99.9

Notes A and B are given in the appendix.

Table III

AVERAGES OF MILL QUALITY DATA FOR NOV-DEC 1992 26 #

Code	Moist @ reel Percent			Adjusted Basis Weight Lbs/M Sq Ft			Caliper Mils		
	Cur Avg	Cum Avg	Ind *B	Cur Avg	Cum Avg	Ind *B	Cur Avg	Cum Avg	Ind *B
C1	5.5		96.5	27.5		104.2	7.0		92.1
E4		4.9			26.7			7.0	
F1	5.5	6.0	96.5	26.3	26.4	99.6	7.6	7.9	100.0
F4	5.8	5.9	101.8	27.3	28.0	103.4	7.8	7.7	102.6
H3		5.0			26.1			8.1	
I4		5.9			26.1			7.4	
J1	5.7	5.6	100.0	25.9	26.0	98.1	7.9	7.7	103.9
J4	7.0	7.0	122.8	26.1	26.1	98.9	8.5	8.6	111.8
K3	6.5	6.5	114.0	26.4	26.3	100.0	6.8	7.0	89.5
M3	4.6	4.8	80.7	26.6	26.8	100.8	7.2	7.6	94.7
N1	5.1	5.1	89.5	25.5	26.2	96.6	7.8	7.2	102.6
P2	5.3	5.5	93.0	25.9	26.0	98.1	6.7	6.9	88.2
P4	5.6	5.4	98.2	26.2	26.2	99.2	8.0	7.7	105.3
Q1	5.3	5.3	93.0	26.1	26.2	98.9	7.8	7.4	102.6
R3	6.9	7.2	121.1	26.1	26.1	98.9	7.0	7.1	92.1
T1				26.5	26.6	100.4	7.6	7.6	100.0
W2		5.4			27.0			7.3	
Y4	5.0	5.0	87.7	26.1	26.1	98.9	7.9	7.7	103.9
Z3	5.7	5.9	100.0	26.9	26.5	101.9	7.2	6.8	94.7
CKPG-L	5.7	5.7	100.0	26.3	26.4	99.6	7.5	7.6	98.7

Notes A and B are given in the appendix.

Table III (cont.)

AVERAGES OF MILL QUALITY DATA FOR NOV-DEC 1992 26 #

Code	CD Ring Crush Lbs			CD Short Span Comp Lbs/in			Bursting Strength PSIG		
	Cur Avg	Cum Avg	Ind *B	Cur Avg	Cum Avg	Ind *B	Cur Avg	Cum Avg	Ind *B
C1	40.7		92.9				82.0		112.2
E4		32.0			14.1			86.0	
F1							68.6	71.2	93.8
F4	53.5	56.2	122.1				69.8	75.7	95.5
H3					12.8			74.4	
I4		34.1			16.2			75.5	
J1	42.0	42.5	95.9				71.0	72.4	97.1
J4				12.5	12.8	95.4	69.0	68.8	94.4
K3	40.0	37.0	91.3	12.8	12.2	97.7	72.5	76.0	99.2
M3	42.5	46.0	97.0	14.0	14.8	106.9	76.0	74.8	104.0
N1	36.2	33.1	82.6	12.9	13.1	98.5	71.5	73.4	97.8
P2	41.4	41.9	94.5	14.3	13.3	109.2	76.0	72.9	104.0
P4	43.5	43.8	99.3				76.8	74.6	105.1
Q1	46.5	43.0	106.2				74.5	78.4	101.9
R3				13.0	12.8	99.2	75.0	70.8	102.6
T1				12.8	12.4	97.7	76.5	77.5	104.7
W2		46.2						65.1	
Y4		28.5		12.5	12.3	95.4	70.0	71.6	95.8
Z3	39.5	42.7	90.2				76.5	71.0	104.7
CKPG-L	42.9	43.8	97.9	13.1	13.1	100.0	73.3	73.1	100.3

Notes A and B are given in the appendix.

Table IV

AVERAGES OF MILL QUALITY DATA FOR JUL-AUG 1992 33 #

Code	Moist @ reel Percent			Adjusted Basis Weight Lbs/M Sq Ft			Caliper Mils		
	Cur Avg	Cum Avg	Ind *B	Cur Avg	Cum Avg	Ind *B	Cur Avg	Cum Avg	Ind *B
A1	5.5	5.9	93.2	32.8	32.8	98.5	9.1	9.1	97.8
A3	6.0	6.0	101.7	33.1	33.2	99.4	9.4	9.7	101.1
B4	6.6	6.4	111.9	33.7	33.8	101.2	8.5	9.3	91.4
C1		5.7			34.0			8.4	
D1		6.4			33.1			9.4	
E3	6.4	6.3	108.5	33.5	33.4	100.6	7.9	8.6	84.9
E4	5.2	5.3	88.1	33.7	33.6	101.2	6.3	8.8	67.7
F1								9.1	
F4	6.2	6.0	105.1	33.7	34.3	101.2	9.1	8.9	97.8
H3	5.1	5.0	86.4	33.1	33.1	99.4	10.2	10.0	109.7
H4	6.2	5.8	105.1	33.9	33.0	101.8	9.8	9.4	105.4
I2	6.3	6.4	106.8	33.3	33.3	100.0	9.5	9.3	102.2
I4	5.6	5.9	94.9	33.1	33.1	99.4	9.7	9.0	104.3
J1	5.8	5.8	98.3	33.0	32.9	99.1	9.4	9.7	101.1
J4	7.0	7.0	118.6	33.1	33.1	99.4	9.4	9.4	101.1
K3	6.4		108.5	33.8		101.5	8.8		94.6
M1		7.0			33.1			9.3	
M2	6.4	6.5	108.5	33.2	33.1	99.7	9.6	9.6	103.2
M3	5.3	5.3	89.8	33.5	33.2	100.6	9.3	9.1	100.0
M4	6.0	6.0	101.7		34.1			9.7	
N1	5.4	5.3	91.5	32.3	33.2	97.0	7.4	8.7	79.6
N3	4.0	4.1	67.8	33.2	33.1	99.7	9.8	9.9	105.4
P2	6.1	6.0	103.4	32.8	32.7	98.5	8.4	8.4	90.3
P4	5.7	5.4	96.6	33.0	33.0	99.1	9.8	9.6	105.4
Q1	5.3	5.2	89.8	33.1	33.5	99.4	9.1	9.3	97.8
R3	7.2	7.0	122.0	33.1	33.1	99.4	9.1	9.5	97.8
S2		5.9			33.6			8.9	
T1				33.9	33.9	101.8	9.6	9.6	103.2
T3		6.3			34.4			8.3	
U1	5.8	6.0	98.3	33.2	33.2	99.7	9.6	9.5	103.2
V4	7.1	6.9	120.3	33.1	33.1	99.4	8.0	8.3	86.0
W2	5.9	5.9	100.0	33.4	33.3	100.3	8.8	9.4	94.6
X2	4.9		83.1	33.4		100.3	9.6		103.2
Y4	5.0	5.0	84.7	33.1	33.1	99.4	9.5	9.9	102.2
Z3		5.7			34.0			8.8	
CKPG-L	5.9	5.9	100.0	33.3	33.3	100.0	9.1	9.3	97.8

Notes A and B are given in the appendix.

Table IV (cont.)

AVERAGES OF MILL QUALITY DATA FOR JUL-AUG 1992 33 #

Code	CD Ring Crush Lbs			CD Short Span Comp Lbs/in			Bursting Strength PSIG		
	Cur Avg	Cum Avg	Ind *B	Cur Avg	Cum Avg	Ind *B	Cur Avg	Cum Avg	Ind *B
A1	57.0	56.8	90.8				90.9	92.6	102.0
A3							88.0	81.8	98.8
B4	70.5	75.8	112.3				110.0	106.4	123.5
C1		67.0						98.8	
D1					16.3			99.0	
E3				15.5	16.0	92.8	93.6	89.5	105.1
E4	45.2	50.0	72.0	17.1	15.6	102.4	81.5	88.9	91.5
F1								82.5	
F4	79.6	72.8	126.8				92.5	94.8	103.8
H3		49.2		16.5	15.5	98.8	88.5	85.2	99.3
H4	67.0	62.3	106.7	18.2	18.2	109.0	99.0	94.3	111.1
I2	65.4	62.6	104.1	17.5	17.4	104.8	86.9	87.6	97.5
I4				22.2	20.2	132.9	101.3	93.0	113.7
J1	63.0	61.2	100.3				80.5	85.1	90.3
J4				16.9	16.9	101.2	84.0	82.1	94.3
K3	63.0		100.3	17.0		101.8	87.0		97.6
M1					16.8			80.5	
M2				16.5	16.3	98.8	91.8	88.3	103.0
M3	68.5	67.1	109.1	19.5	18.6	116.8	94.0	89.2	105.5
M4	66.4	68.2	105.7				88.4	88.2	99.2
N1	44.6	49.0	71.0		16.2		86.0	82.5	96.5
N3				14.2	14.1	85.0	84.5	87.8	94.8
P2	62.2	59.9	99.0	15.9	15.8	95.2	88.2	86.9	99.0
P4	67.5	68.5	107.5				90.8	93.4	101.9
Q1	62.0	61.5	98.7				97.5	91.9	109.4
R3				16.5	15.9	98.8	85.0	89.4	95.4
S2		60.4						86.4	
T1				17.7	17.5	106.0	95.0	90.8	106.6
T3		73.8						93.1	
U1	62.5	55.3	99.5				82.0	84.7	92.0
V4				17.7	17.5	106.0	97.0	102.8	108.9
W2	66.7	60.7	106.2				77.1	78.1	86.5
X2	56.0		89.2				86.5		97.1
Y4		45.3		16.0	14.9	95.8	90.0	87.8	101.0
Z3		67.6						90.1	
CKPG-L	62.9	62.8	100.2	17.2	16.7	103.0	89.8	89.1	100.8

Notes A and B are given in the appendix.

Table V

AVERAGES OF MILL QUALITY DATA FOR SEP-OCT 1992 33 #

Code	Moist @ reel Percent			Adjusted Basis Weight Lbs/M Sq Ft			Caliper Mils		
	Cur Avg	Cum Avg	Ind *B	Cur Avg	Cum Avg	Ind *B	Cur Avg	Cum Avg	Ind *B
A1	5.5	5.8	93.2	32.7	32.8	98.2	9.2	9.2	100.0
A3	5.8	6.0	98.3	33.0	33.2	99.1	10.2	9.7	110.9
B4	6.6	6.4	111.9	33.7	33.8	101.2	9.2	9.1	100.0
C1		5.7			34.0			8.4	
D1		6.4			33.1			9.4	
E3	6.4	6.4	108.5	33.6	33.4	100.9	7.6	8.3	82.6
E4	5.3	5.3	89.8	33.0	33.6	99.1	6.7	8.6	72.8
F1								8.6	
F4	6.1	6.0	103.4	34.2	34.2	102.7	9.3	9.0	101.1
H3	5.0	5.0	84.7	33.1	33.1	99.4	10.0	10.1	108.7
H4	6.2	5.9	105.1	33.3	33.2	100.0	10.2	9.5	110.9
I2	6.4	6.4	108.5	33.3	33.3	100.0	9.3	9.4	101.1
I4		5.8			33.1			9.3	
J1	5.8	5.8	98.3	32.9	32.9	98.8	9.6	9.6	104.3
J4	7.0	7.0	118.6	33.1	33.1	99.4	9.3	9.4	101.1
K1	5.0		84.7	33.8		101.5	9.0		97.8
K3	6.5	6.4	110.2	33.8	33.8	101.5	8.9	8.8	96.7
M1	7.0	7.0	118.6	33.1	33.1	99.4	9.1	9.3	98.9
M2	6.4	6.5	108.5	33.7	33.2	101.2	9.7	9.6	105.4
M3	5.3	5.3	89.8	33.3	33.3	100.0	8.9	9.1	96.7
M4	6.1	6.0	103.4		34.3			9.8	
N1	5.7	5.3	96.6	31.9	32.9	95.8		8.0	
N3	4.3	4.1	72.9	33.1	33.1	99.4	10.1	9.9	109.8
P2	6.0	6.0	101.7	32.8	32.8	98.5	8.4	8.4	91.3
P4	5.6	5.5	94.9	33.0	33.0	99.1	9.7	9.7	105.4
Q1	5.3	5.3	89.8	33.1	33.4	99.4	9.4	9.2	102.2
R3	7.3	7.1	123.7	33.1	33.1	99.4	8.9	9.3	96.7
S2		5.9			33.5			8.9	
T1				33.8	33.9	101.5	9.7	9.6	105.4
T3		6.3			34.4			8.4	
U1	5.9	5.9	100.0	33.2	33.2	99.7	9.5	9.5	103.3
V4	7.4	7.0	125.4	33.1	33.1	99.4	8.5	8.2	92.4
W2	6.0	5.9	101.7	33.1	33.3	99.4	9.7	9.4	105.4
X2	5.4	4.9	91.5	33.2	33.4	99.7	9.6	9.6	104.3
Y4	5.0	5.0	84.7	33.1	33.1	99.4	9.8	9.9	106.5
Z3		5.7			34.1			8.7	
CKPG-L	5.9	5.9	100.0	33.3	33.3	100.0	9.3	9.2	101.1

Notes A and B are given in the appendix.

Table V (cont.)

AVERAGES OF MILL QUALITY DATA FOR SEP-OCT 1992 33 #

Code	CD Ring Crush Lbs			CD Short Span Comp Lbs/in			Bursting Strength PSIG		
	Cur Avg	Cum Avg	Ind *B	Cur Avg	Cum Avg	Ind *B	Cur Avg	Cum Avg	Ind *B
A1	57.0	57.2	90.5				95.2	91.5	106.7
A3							84.0	82.7	94.2
B4	75.6	74.5	120.0				104.1	106.9	116.7
C1		67.0						98.8	
D1					16.3			99.0	
E3				15.7	15.9	94.0	96.0	91.8	107.6
E4	47.1	49.0	74.8	15.8	15.9	94.6	84.5	87.6	94.7
F1								81.8	
F4	79.0	75.1	125.4				90.9	94.5	101.9
H3		47.5		15.6	15.7	93.4	87.5	86.1	98.1
H4	62.5	62.9	99.2	17.9	18.2	107.2	89.5	94.4	100.3
I2	66.3	62.3	105.2	17.6	17.4	105.4	83.6	87.9	93.7
I4					21.0			96.3	
J1	63.0	61.3	100.0				82.5	84.0	92.5
J4				16.9	16.9	101.2	82.0	82.8	91.9
K1				18.3		109.6	90.0		100.9
K3	56.0	63.0	88.9	16.4	17.0	98.2	94.0	87.0	105.4
M1				16.8	16.8	100.6	80.5	80.5	90.2
M2				17.5	16.3	104.8	89.0	88.9	99.8
M3	66.0	67.6	104.8	19.0	18.8	113.8	90.5	90.1	101.5
M4	70.2	68.0	111.4				92.0	88.2	103.1
N1	45.9	46.8	72.9	15.5	16.2	92.8	81.0	84.3	90.8
N3				14.2	14.1	85.0	85.0	87.0	95.3
P2	58.5	60.4	92.9	16.5	15.7	98.8	89.2	87.2	100.0
P4	67.0	68.5	106.3				91.9	93.1	103.0
Q1	64.0	61.6	101.6				98.0	93.0	109.9
R3				16.3	15.8	97.6	88.0	89.1	98.7
S2		60.0						85.0	
T1				17.3	17.5	103.6	89.5	90.8	100.3
T3		73.8						92.9	
U1	64.5	56.3	102.4				83.5	84.3	93.6
V4				17.5	17.4	104.8	99.0	99.3	111.0
W2	61.5	62.2	97.6				75.5	78.1	84.6
X2	55.5	56.0	88.1				82.0	86.5	91.9
Y4		46.0		14.9	15.3	89.2	88.0	88.3	98.7
Z3		67.2						90.8	
CKPG-L	62.8	63.0	99.7	16.7	16.7	100.0	88.2	89.2	98.9

Notes A and B are given in the appendix.

Table VI

AVERAGES OF MILL QUALITY DATA FOR NOV-DEC 1992 33 #

Code	Moist @ reel Percent			Adjusted Basis Weight Lbs/M Sq Ft			Caliper Mils		
	Cur Avg	Cum Avg	Ind *B	Cur Avg	Cum Avg	Ind *B	Cur Avg	Cum Avg	Ind *B
A1	5.5	5.7	93.2	32.7	32.7	98.2	9.4	9.1	102.2
A3	6.2	5.9	105.1	33.3	33.2	100.0	11.0	9.8	119.6
B4	6.6	6.4	111.9	33.6	33.8	100.9	9.0	9.0	97.8
C1	5.9	5.7	100.0	34.2	34.0	102.7	8.4	8.4	91.3
D1		6.4			33.1			9.4	
E3	6.4	6.4	108.5	33.6	33.5	100.9	7.4	8.0	80.4
E4	5.3	5.3	89.8	32.8	33.5	98.5	9.4	8.3	102.2
F1								7.2	
F4	6.0	6.0	101.7	34.1	34.2	102.4	9.3	9.0	101.1
H1	6.0		101.7	34.1		102.4	8.9		96.7
H3	5.0	5.0	84.7	33.1	33.1	99.4	10.1	10.2	109.8
H4	6.2	5.9	105.1	33.4	33.2	100.3	10.3	9.6	112.0
I2	6.3	6.4	106.8	33.4	33.3	100.3	9.5	9.4	103.3
I4		5.8			33.1			9.3	
J1	5.8	5.8	98.3	32.9	32.9	98.8	10.1	9.6	109.8
J4	7.0	7.0	118.6	33.1	33.1	99.4	9.4	9.4	102.2
K1		5.0			33.8			9.0	
K3	6.5	6.4	110.2	33.4	33.8	100.3	8.7	8.8	94.6
M1	7.0	7.0	118.6	33.1	33.1	99.4	9.2	9.3	100.0
M2	6.5	6.5	110.2	33.2	33.3	99.7	9.8	9.6	106.5
M3	5.0	5.3	84.7	33.4	33.3	100.3	8.9	9.1	96.7
M4	6.0	6.0	101.7		34.6			9.8	
N1		5.4			32.5			7.8	
N3	4.1	4.1	69.5	33.2	33.1	99.7	10.0	9.9	108.7
P2	6.1	6.0	103.4	32.8	32.8	98.5	8.8	8.4	95.7
P4	5.4	5.5	91.5	33.2	33.0	99.7	10.0	9.7	108.7
Q1	5.3	5.3	89.8	33.0	33.4	99.1	9.4	9.2	102.2
R3	7.3	7.1	123.7	33.1	33.1	99.4	9.0	9.2	97.8
S2		5.9			33.2			8.9	
T1				33.8	33.9	101.5	9.4	9.6	102.2
T3		6.3			34.4			8.3	
U1	5.5	5.9	93.2	33.1	33.2	99.4	9.5	9.5	103.3
V4		7.1			33.1			8.3	
W2	5.9	5.9	100.0	33.3	33.3	100.0	8.9	9.5	96.7
X2	5.0	5.2	84.7	33.4	33.3	100.3	9.6	9.6	104.3
Y4		5.0			33.1			9.9	
Z3		5.8			34.1			8.9	
CKPG-L	5.9	5.9	100.0	33.3	33.3	100.0	9.4	9.2	102.2

Notes A and B are given in the appendix.

Table VI (cont.)

AVERAGES OF MILL QUALITY DATA FOR NOV-DEC 1992 33 #

Code	CD Ring Crush Lbs			CD Short Span Comp Lbs/in			Bursting Strength PSIG		
	Cur Avg	Cum Avg	Ind *B	Cur Avg	Cum Avg	Ind *B	Cur Avg	Cum Avg	Ind *B
A1	57.0	56.8	89.9				89.1	91.7	100.0
A3							87.0	83.0	97.6
B4	71.3	74.9	112.5				99.0	107.6	111.1
C1	65.5	67.0	103.3				95.8	98.8	107.5
D1					16.3			99.0	
E3				15.8	15.7	94.6	98.4	93.1	110.4
E4	51.8	49.1	81.7	15.1	16.0	90.4	81.0	86.9	90.9
F1								79.1	
F4	77.2	75.7	121.8				86.5	93.9	97.1
H1	69.5		109.6	19.3		115.6	107.5		120.7
H3		47.0		16.4	15.7	98.2	89.5	86.7	100.4
H4	61.0	62.7	96.2	17.9	18.2	107.2	91.5	93.3	102.7
I2	66.5	62.6	104.9	17.7	17.4	106.0	84.8	87.0	95.2
I4					21.0			96.3	
J1	62.5	60.8	98.6				82.0	82.8	92.0
J4				17.2	16.8	103.0	80.5	82.6	90.3
K1					18.3			90.0	
K3	58.5	60.7	92.3	16.2	16.7	97.0	84.5	90.5	94.8
M1				16.6	16.8	99.4	83.0	80.5	93.2
M2				16.8	16.5	100.6	87.5	89.0	98.2
M3	64.5	67.4	101.7	19.0	18.8	113.8	91.0	90.3	102.1
M4	70.3	68.2	110.9				83.2	88.8	93.4
N1		47.0			15.9			83.8	
N3				14.5	14.2	86.8	83.5	87.2	93.7
P2	56.8	60.1	89.6	16.2	15.7	97.0	88.6	87.4	99.4
P4	69.5	68.6	109.6				89.0	93.0	99.9
Q1	67.5	62.0	106.5				90.0	93.8	101.0
R3				16.3	15.7	97.6	89.5	88.9	100.4
S2		57.0						79.0	
T1				17.2	17.5	103.0	89.5	90.8	100.4
T3		73.8						92.3	
U1	63.0	58.4	99.4				85.5	83.6	96.0
V4					17.4			99.2	
W2	64.0	62.9	100.9				75.8	77.6	85.1
X2	65.5	55.8	103.3				77.0	84.3	86.4
Y4		46.0			15.2			88.5	
Z3		67.0						87.8	
CKPG-L	64.5	63.4	101.7	16.8	16.7	100.6	87.5	89.1	98.2

Notes A and B are given in the appendix.

Table VII

AVERAGES OF MILL QUALITY DATA FOR JUL-AUG 1992 38 #

Code	Moist @ reel Percent			Adjusted Basis Weight Lbs/M Sq Ft			Caliper Mils		
	Cur Avg	Cum Avg	Ind *B	Cur Avg	Cum Avg	Ind *B	Cur Avg	Cum Avg	Ind *B
A3	6.2	6.1	101.6	39.1	39.6	101.8	12.1	11.5	116.3
B4	7.1	6.7	116.4	38.4	38.6	100.0	9.8	10.8	94.2
D2	6.0	6.0	98.4	38.1	38.1	99.2	10.4	10.6	100.0
D4	6.0	6.1	98.4	37.7	37.7	98.2	11.3	10.5	108.7
E3	6.6	6.5	108.2	38.5	38.4	100.3	9.3	9.9	89.4
E4		5.7			38.0			9.9	
F4	6.2	6.0	101.6	39.6	39.0	103.1	10.2	10.1	98.1
H1	6.0	5.8	98.4	39.2	38.7	102.1	10.6	10.5	101.9
H3	6.0	5.9	98.4	38.1	38.1	99.2	10.8	11.0	103.8
H4	6.3	6.3	103.3	37.9	37.9	98.7	10.9	10.4	104.8
J1	5.8	5.9	95.1	37.9	37.9	98.7	10.9	11.0	104.8
K2		6.3			38.2			10.6	
K3	6.6		108.2	38.8		101.0	9.8		94.2
M3	5.7	5.8	93.4	38.1	38.2	99.2	9.8	9.9	94.2
M4	6.6	6.4	108.2		38.4			11.3	
N1	4.7	5.1	77.0		38.9		9.3	10.0	89.4
P1		6.2			38.3			9.9	
P4		5.7			33.1			9.8	
S2	5.7	5.7	93.4	38.2	38.6	99.5	10.4	10.2	100.0
T3		6.3			38.9			9.6	
T4	6.3		103.3	38.1		99.2	11.5		110.6
W2	6.1	6.3	100.0	37.8	38.6	98.4	10.0	10.4	96.2
X4					39.0				
CKPG-L	6.1	6.1	100.0	38.3	38.4	99.7	10.4	10.4	100.0

Notes A and B are given in the appendix.

Table VII (cont.)

AVERAGES OF MILL QUALITY DATA FOR JUL-AUG 1992 38 #

Code	CD Ring Crush Lbs			CD Short Span Comp Lbs/in			Bursting Strength PSIG		
	Cur Avg	Cum Avg	Ind *B	Cur Avg	Cum Avg	Ind *B	Cur Avg	Cum Avg	Ind *B
A3							93.0	94.3	92.4
B4	82.0	87.9	105.7				121.3	114.1	120.6
D2		65.0		18.3	18.2	93.8	106.0	101.6	105.4
D4				19.1	18.8	97.9	109.7	101.2	109.0
E3				17.6	19.1	90.3	104.7	99.5	104.1
E4								100.0	
F4	96.7	86.5	124.6				104.9	107.4	104.3
H1	65.0	69.0	83.8	18.0	19.1	92.3	109.5	103.2	108.8
H3		61.0		17.6	18.1	90.3	97.0	93.2	96.4
H4	74.5	75.6	96.0	19.0	19.8	97.4	102.5	109.7	101.9
J1	76.5	72.7	98.6				94.0	93.9	93.4
K2		76.0			21.0			108.0	
K3	76.0		97.9	19.6		100.5	96.5		95.9
M3	76.0	81.8	97.9	20.5	21.2	105.1	108.5	101.0	107.9
M4	80.3	80.0	103.5				99.2	96.9	98.6
N1	63.0		81.2				103.0	97.0	102.4
P1		81.2			20.0			114.7	
P4		67.0						82.1	
S2	68.0	74.5	87.6				88.0	93.6	87.5
T3		88.1						104.0	
T4				18.7		95.9	97.3		96.7
W2	76.2	76.4	98.2				92.8	91.8	92.2
X4								95.0	
CKPG-L	76.6	77.6	98.7	18.8	19.5	96.4	101.8	100.6	101.2

Notes A and B are given in the appendix.

Table VIII

AVERAGES OF MILL QUALITY DATA FOR SEP-OCT 1992 38 #

Code	Moist @ reel Percent			Adjusted Basis Weight Lbs/M Sq Ft			Caliper Mils		
	Cur Avg	Cum Avg	Ind *B	Cur Avg	Cum Avg	Ind *B	Cur Avg	Cum Avg	Ind *B
A3	6.0	6.1	98.4	39.1	39.6	101.8	11.6	11.5	111.5
B2	5.7		93.4	37.9		98.7	10.2		98.1
B4	6.9	6.8	113.1	38.9	38.5	101.3	10.2	10.5	98.1
D2	6.1	6.0	100.0	38.1	38.1	99.2	10.2	10.6	98.1
D4	6.0	6.0	98.4	37.7	37.7	98.2	10.9	10.7	104.8
E3	6.5	6.5	106.6	38.5	38.4	100.3	8.9	9.7	85.6
E4		5.7			38.0			9.9	
F4	6.0	6.1	98.4	38.8	39.1	101.0	10.5	10.0	101.0
H1	6.1	5.8	100.0	38.8	38.7	101.0	10.1	10.5	97.1
H2	5.6		91.8	38.3		99.7	10.5		101.0
H3		5.9			38.1			10.9	
H4	6.4	6.4	104.9	37.7	37.9	98.2	10.6	10.5	101.9
J1	6.0	5.9	98.4	37.9	37.9	98.7	10.9	11.0	104.8
K2		6.3			38.2			10.6	
K3		6.6			38.8			9.8	
M1	6.5		106.6	38.8		101.0			
M3	5.7	5.8	93.4	38.2	38.2	99.5	9.6	9.8	92.3
M4	6.5	6.4	106.6		38.4			11.3	
N1		4.7						9.3	
P1		6.0			38.4			9.7	
P4		5.7			33.1			9.8	
S2	5.5	5.7	90.2	38.1	38.6	99.2	10.4	10.2	100.0
T3		6.3			38.9			9.6	
T4	6.4	6.3	104.9	37.9	38.1	98.7	11.5	11.5	110.6
W2	6.1	6.3	100.0	37.8	38.6	98.4	10.3	10.4	99.0
CKPG-L	6.1	6.1	100.0	38.3	38.4	99.7	10.4	10.4	100.0

Notes A and B are given in the appendix.

Table VIII (cont.)

AVERAGES OF MILL QUALITY DATA FOR SEP-OCT 1992 38 #

Code	CD Ring Crush Lbs			CD Short Span Comp Lbs/in			Bursting Strength PSIG		
	Cur Avg	Cum Avg	Ind *B	Cur Avg	Cum Avg	Ind *B	Cur Avg	Cum Avg	Ind *B
A3							100.0	94.3	99.2
B2	74.0		95.1				101.0		100.2
B4	85.3	85.3	109.6				116.9	113.7	116.0
D2				19.1	18.3	99.0	107.5	105.9	106.6
D4				22.2	19.0	115.0	101.0	105.6	100.2
E3				17.9	18.7	92.7	109.6	100.7	108.7
E4								100.0	
F4	97.1	88.5	124.8				103.5	106.3	102.7
H1	69.5	68.2	89.3	19.1	18.8	99.0	114.0	104.9	113.1
H2	81.0		104.1	21.0		108.8	111.0		110.1
H3		61.0			17.9			94.4	
H4	74.0	75.7	95.1	19.3	19.9	100.0	105.5	108.7	104.7
J1	76.5	73.6	98.3				94.0	94.1	93.3
K2		76.0			21.0			108.0	
K3		76.0			19.6			96.5	
M1				20.7		107.3	99.0		98.2
M3	80.0	81.1	102.8	21.0	21.2	108.8	104.0	103.1	103.2
M4	82.3	80.7	105.8				95.9	97.6	95.1
N1		63.0						103.0	
P1		86.3			17.9			111.2	
P4		67.0						82.1	
S2	73.0	74.6	93.8				98.0	92.8	97.2
T3		88.1						103.8	
T4				18.9	18.7	97.9	96.5	97.3	95.7
W2	83.4	76.9	107.2				91.4	91.9	90.7
CKPG-L	79.9	77.8	102.7	19.5	19.3	101.0	102.5	100.8	101.7

Notes A and B are given in the appendix.

Table IX

AVERAGES OF MILL QUALITY DATA FOR NOV-DEC 1992 38 #

Code	Moist @ reel Percent			Adjusted Basis Weight Lbs/M Sq Ft			Caliper Mils		
	Cur Avg	Cum Avg	Ind *B	Cur Avg	Cum Avg	Ind *B	Cur Avg	Cum Avg	Ind *B
A3	6.2	6.1	101.6	38.2	39.5	99.5	11.9	11.5	114.4
B2		5.7			37.9			10.2	
B4		6.8			38.6			10.5	
D2	6.2	6.0	101.6	38.1	38.1	99.2	11.0	10.5	105.8
D4		6.0			37.7			10.8	
E3	6.5	6.5	106.6	38.5	38.4	100.3	8.7	9.5	83.7
F4	6.0	6.1	98.4	38.3	39.0	99.7	10.1	10.0	97.1
H1	6.2	5.9	101.6	39.0	38.8	101.6	10.0	10.4	96.2
H2	5.8	5.6	95.1	38.4	38.3	100.0	10.1	10.5	97.1
H3		6.0			38.1			11.0	
H4	6.7	6.4	109.8	37.8	37.9	98.4	10.7	10.5	102.9
J1	5.9	5.9	96.7	37.9	37.9	98.7	11.5	10.9	110.6
K2	6.2	6.3	101.6	37.7	38.2	98.2	10.5	10.6	101.0
K3	7.3	6.6	119.7	38.6	38.8	100.5	9.7	9.8	93.3
M1	7.1	6.5	116.4	38.9	38.8	101.3	10.5		101.0
M3		5.7			38.2			9.8	
M4	6.5	6.4	106.6		38.3			11.3	
N1		4.7						9.3	
P1		6.0			38.4			9.7	
P4		5.7			33.1			9.8	
S2	5.8	5.7	95.1	38.1	38.5	99.2	10.0	10.2	96.2
T3		6.3			38.9			9.6	
T4	6.3	6.3	103.3	37.7	38.0	98.2	11.5	11.5	110.6
V3	5.9		96.7	40.6		105.7	10.1		97.1
W2	6.3	6.2	103.3	38.3	38.4	99.7	10.2	10.4	98.1
Y1	5.7		93.4	38.2		99.5	10.5		101.0
CKPG-L	6.2	6.1	101.6	38.3	38.4	99.7	10.5	10.4	101.0

Notes A and B are given in the appendix.

Table IX (cont.)

AVERAGES OF MILL QUALITY DATA FOR NOV-DEC 1992 38 #

Code	CD Ring Crush Lbs			CD Short Span Comp Lbs/in			Bursting Strength PSIG		
	Cur Avg	Cum Avg	Ind *B	Cur Avg	Cum Avg	Ind *B	Cur Avg	Cum Avg	Ind *B
A3							98.0	95.4	96.7
B2		74.0						101.0	
B4		84.9						116.0	
D2				19.2	18.5	100.0	109.5	106.2	108.1
D4					19.5			104.8	
E3				18.3	18.5	95.3	104.6	102.3	103.3
F4	89.8	90.3	114.7				100.0	106.7	98.7
H1	72.0	67.2	92.0	19.9	18.5	103.6	116.5	107.6	115.0
H2	67.0	81.0	85.6	19.0	21.0	99.0	106.0	111.0	104.6
H3		56.0			17.9			95.7	
H4	71.0	75.3	90.7	18.8	19.8	97.9	110.0	108.2	108.6
J1	71.5	75.1	91.3				91.5	93.9	90.3
K2	76.0	76.0	97.1		21.0		117.0	108.0	115.5
K3	73.0	76.0	93.2	19.0	19.6	99.0	102.0	96.5	100.7
M1				20.7	20.7	107.8	100.0	99.0	98.7
M3		80.9			21.3			104.0	
M4	82.6	81.2	105.5				98.0	97.7	96.7
N1		63.0						103.0	
P1		86.3			17.9			111.2	
P4		67.0						82.1	
S2	74.5	74.3	95.1				105.0	92.1	103.7
T3		88.1						103.3	
T4				18.8	18.8	97.9	95.3	96.9	94.1
V3	87.9		112.3				103.5		102.2
W2	79.9	78.8	102.0				91.2	92.0	90.0
Y1	68.0		86.8	19.2		100.0	104.2		102.9
CKPG-L	76.5	78.3	97.7	19.1	19.2	99.5	102.6	101.3	101.3

Notes A and B are given in the appendix.

Table X

AVERAGES OF MILL QUALITY DATA FOR JUL-AUG 1992 42 #

Code	Moist @ reel Percent			Adjusted Basis Weight Lbs/M Sq Ft			Caliper Mils		
	Cur Avg	Cum Avg	Ind *B	Cur Avg	Cum Avg	Ind *B	Cur Avg	Cum Avg	Ind *B
A1	6.1	6.1	100.0	41.4	41.5	97.9	11.9	11.8	104.4
A3	6.0	6.2	98.4	42.1	42.2	99.5	11.9	11.9	104.4
B2	5.8	5.8	95.1	42.0	42.1	99.3	11.6	11.4	101.8
B4	7.0	6.9	114.8	42.3	42.4	100.0	11.0	11.6	96.5
D1	6.7	6.6	109.8	42.3	42.2	100.0	11.6	11.5	101.8
D2	6.0	5.9	98.4	42.1	42.1	99.5	11.9	12.0	104.4
D3	5.8	5.7	95.1	42.2	42.5	99.8		10.9	
D4	6.1	6.1	100.0	41.5	41.6	98.1	12.6	11.9	110.5
E2	5.6	5.7	91.8	42.1	42.7	99.5	11.5	11.7	100.9
E3	6.7	6.5	109.8	42.5	42.3	100.5	10.5	11.1	92.1
E4	5.5	5.3	90.2	42.7	42.4	100.9	11.0	11.2	96.5
F4		6.1			43.1			11.0	
G3	5.2	5.2	85.2	42.1	42.1	99.5	12.0	12.3	105.3
H1	6.2	5.9	101.6	42.4	42.2	100.2	11.6	11.5	101.8
H2	5.8	5.8	95.1	42.3	42.3	100.0	11.5	11.2	100.9
H3		6.0			42.1			12.1	
H4	6.5	6.5	106.6	41.7	41.8	98.6	11.7	11.3	102.6
I2	6.5	6.4	106.6	42.1	42.2	99.5	11.6	11.5	101.8
J1	6.1	6.1	100.0	41.9	41.9	99.1	11.9	12.1	104.4
J3	6.0	6.0	98.4	42.0	42.1	99.3	10.4	10.7	91.2
J4	7.0	7.1	114.8	42.1	42.1	99.5	12.0	11.7	105.3
K2	6.7	6.7	109.8	42.1	42.0	99.5	11.7	11.4	102.6
K3	6.5		106.6	42.8		101.2	11.0		96.5
M1	7.1	7.1	116.4	42.1	42.1	99.5	11.2	11.2	98.2
M2	6.6	6.6	108.2	42.2	42.2	99.8	11.9	12.0	104.4
M3	5.9	6.0	96.7	42.2	42.2	99.8	11.3	11.2	99.1
M4	6.5	6.5	106.6		42.7			12.6	
N1	5.2	4.7	85.2	40.9	42.4	96.7	12.8	10.7	112.3
N3	5.1	5.1	83.6	42.2	42.2	99.8	11.7	12.2	102.6
P1	5.9	6.3	96.7	42.3	42.2	100.0	10.6	11.2	93.0
P2	6.9	6.7	113.1	41.7	41.7	98.6	10.9	10.7	95.6
Q1					43.1			11.6	
Q3	5.5	5.5	90.2	42.1	42.2	99.5	11.9	11.4	104.4
R1	5.8	5.7	95.1	42.4	42.1	100.2	11.7	11.6	102.6
R2	6.5		106.6	42.7		100.9	11.4		100.0
S2	5.6	5.7	91.8	42.1	42.6	99.5	11.6	11.4	101.8
T3		6.4			43.2			10.5	
T4	6.4		104.9	41.8		98.8	12.7		111.4
U2	5.1	5.1	83.6	42.2	42.2	99.8	11.4	11.9	100.0
V3	5.9	5.9	96.7	43.7	43.6	103.3	10.7	10.6	93.9
V4	7.2	6.9	118.0	42.1	42.1	99.5	10.4	10.6	91.2
W1	6.5	6.2	106.6		42.5			11.0	
W2	6.7	6.4	109.8	41.9	42.2	99.1	10.9	11.5	95.6
X2	5.3	5.7	86.9	42.3	42.0	100.0	12.4	12.0	108.8
X3	6.0	6.0	98.4	41.7	41.8	98.6	11.1	10.8	97.4
X4				43.0	43.0	101.7	12.6	12.2	110.5
Y1	5.9	6.0	96.7	42.1	42.2	99.5	11.4	11.5	100.0
Z1	6.6	6.6	108.2	42.3	42.2	100.0	11.6	12.1	101.8
CKPG-L	6.1	6.1	100.0	42.2	42.3	99.8	11.5	11.4	100.9

Notes A and B are given in the appendix.

Table X (cont.)

AVERAGES OF MILL QUALITY DATA FOR JUL-AUG 1992 42 #

Code	CD Ring Crush Lbs			CD Short Span Comp Lbs/in			Bursting Strength PSIG		
	Cur Avg	Cum Avg	Ind *B	Cur Avg	Cum Avg	Ind *B	Cur Avg	Cum Avg	Ind *B
A1	77.5	77.4	91.3				103.0	105.3	95.1
A3							104.0	101.7	96.0
B2	88.0	86.6	103.7				106.5	104.7	98.3
B4	91.5	95.1	107.8				130.2	125.1	120.2
D1				21.0	20.4	101.0	109.5	110.8	101.1
D2		71.2		18.8	18.6	90.4	106.5	103.9	98.3
D3	77.2	78.9	90.9				110.3	107.1	101.8
D4				19.2	19.3	92.3	108.9	107.3	100.6
E2	76.5	78.3	90.1				98.5	98.5	91.0
E3				19.8	20.5	95.2	112.1	109.1	103.5
E4	63.9	69.2	75.3	21.3	18.9	102.4	106.0	110.7	97.9
F4		96.2						116.8	
G3	86.0	89.2	101.3	20.5	19.3	98.6	107.5	109.0	99.3
H1	67.5	72.9	79.5	18.8	20.2	90.4	119.5	111.8	110.3
H2	79.0	84.4	93.1	20.5	20.9	98.6	111.5	114.0	103.0
H3		72.0			20.2			103.0	
H4	83.5	86.6	98.4	21.7	22.5	104.3	109.0	116.7	100.6
I2	80.0	79.9	94.2	20.5	20.1	98.6	104.3	105.9	96.3
J1	82.0	85.2	96.6				101.0	101.2	93.3
J3	82.5	84.1	97.2				102.7	104.4	94.8
J4				21.4	20.5	102.9	106.0	108.0	97.9
K2	85.0	85.0	100.1	22.0	23.0	105.8	103.5	114.1	95.6
K3	84.5		99.5	21.6		103.8	104.0		96.0
M1				20.8	21.1	100.0	105.0	104.8	97.0
M2				20.2	20.4	97.1	103.0	103.1	95.1
M3	87.5	89.5	103.1	22.5	22.1	108.2	110.5	106.8	102.0
M4	90.0	91.0	106.0				104.3	104.3	96.3
N1	66.4	73.5	78.2		21.2		102.5	110.7	94.6
N3				18.6	17.9	89.4	101.0	105.8	93.3
P1	83.6	100.6	98.5	22.6	25.8	108.7	116.2	122.0	107.3
P2	78.9	84.1	92.9	20.1	20.1	96.6	104.8	105.8	96.8
Q1		82.5						112.5	
Q3	99.3	99.8	117.0	22.2	22.6	106.7	118.0	113.1	109.0
R1	78.5	74.0	92.5				102.0	103.0	94.2
R2	80.5		94.8	20.6		99.0	106.0		97.9
S2	78.0	79.3	91.9				97.5	100.0	90.0
T3		97.8						111.2	
T4				20.1		96.6	99.4		91.8
U2				21.6	20.6	103.8	105.5	109.4	97.4
V3	93.4	94.4	110.0				107.7	107.2	99.4
V4				22.4	21.9	107.7	112.0	114.4	103.4
W1	91.7	93.3	108.0				105.1	106.9	97.0
W2	89.9	92.2	105.9				103.6	102.3	95.7
X2	78.5	81.0	92.5				107.0	102.0	98.8
X3	86.0	83.7	101.3				109.0	105.8	100.6
X4				19.9	19.2	95.7	109.0	105.7	100.6
Y1	71.8	74.1	84.6	19.2	20.2	92.3	108.5	105.8	100.2
Z1	78.5	82.6	92.5	22.5	21.4	108.2	112.5	111.4	103.9
CKPG-L	81.5	84.9	96.0	20.6	20.8	99.0	107.2	108.3	99.0

Notes A and B are given in the appendix.

Table XI

AVERAGES OF MILL QUALITY DATA FOR SEP-OCT 1992 42 #

Code	Moist @ reel Percent			Adjusted Basis Weight Lbs/M Sq Ft			Caliper Mils		
	Cur Avg	Cum Avg	Ind *B	Cur Avg	Cum Avg	Ind *B	Cur Avg	Cum Avg	Ind *B
A1	6.1	6.1	100.0	41.4	41.4	98.1	11.9	11.9	104.4
A3	6.0	6.1	98.4	42.0	42.2	99.5	12.3	11.8	107.9
B2	5.8	5.7	95.1	42.0	42.1	99.5	11.7	11.3	102.6
B4	7.0	6.9	114.8	42.3	42.4	100.2	11.5	11.5	100.9
D1	7.3	6.7	119.7	42.2	42.2	100.0	11.8	11.5	103.5
D2	6.0	6.0	98.4	42.1	42.1	99.8	11.8	12.1	103.5
D3	5.8	5.8	95.1	42.2	42.4	100.0	10.4	10.9	91.2
D4	6.1	6.1	100.0	41.6	41.6	98.6	12.0	12.0	105.3
E2	5.6	5.7	91.8	42.2	42.6	100.0	11.6	11.6	101.8
E3	6.6	6.6	108.2	42.6	42.4	100.9	10.0	10.9	87.7
E4	5.5	5.3	90.2	41.4	42.5	98.1	11.3	11.1	99.1
F4		6.1			43.1			11.0	
G3		5.2			42.1			12.2	
H1	6.2	6.0	101.6	42.4	42.3	100.5	11.2	11.4	98.2
H2	5.8	5.8	95.1	42.4	42.3	100.5	11.3	11.2	99.1
H3		6.0			42.1			12.2	
H4	6.5	6.5	106.6	41.7	41.8	98.8	11.5	11.3	100.9
I2	6.4	6.4	104.9	42.1	42.2	99.8	11.5	11.5	100.9
J1		6.1			41.9			12.0	
J3	6.1	6.0	100.0	42.2	42.1	100.0	10.6	10.7	93.0
J4	7.0	7.1	114.8	42.1	42.1	99.8	11.7	11.8	102.6
K1	5.0		82.0	42.6		100.9	11.8		103.5
K2	6.6	6.7	108.2	42.1	42.0	99.8	12.0	11.4	105.3
K3	6.5	6.5	106.6	42.5	42.8	100.7	11.6	11.0	101.8
M1	7.1	7.1	116.4	42.1	42.1	99.8	11.3	11.2	99.1
M2	6.5	6.6	106.6	42.2	42.2	100.0	12.0	12.0	105.3
M3	6.0	5.9	98.4	42.1	42.2	99.8	11.1	11.2	97.4
M4	6.5	6.5	106.6		42.9			12.6	
N1	4.6	4.9	75.4	40.8	42.1	96.7	11.9	11.1	104.4
N3	5.3	5.1	86.9	42.2	42.2	100.0	12.2	12.1	107.0
P1	6.3	6.2	103.3	42.2	42.2	100.0	11.2	11.0	98.2
P2	7.0	6.7	114.8	41.6	41.7	98.6	10.8	10.7	94.7
Q1					43.1			11.6	
Q3	5.5	5.5	90.2	42.1	42.2	99.8	12.2	11.4	107.0
Q4	5.3		86.9	42.7		101.2	10.4		91.2
R1	5.8	5.7	95.1	42.2	42.3	100.0	11.4	11.7	100.0
R2	6.5	6.5	106.6	42.5	42.7	100.7	11.2	11.4	98.2
S2	5.8	5.6	95.1	42.2	42.5	100.0	11.5	11.4	100.9
T3		6.4			43.2			10.5	
T4	6.5	6.4	106.6	41.8	41.8	99.1	12.6	12.7	110.5
U2	4.9	5.1	80.3	42.7	42.2	101.2	11.8	11.8	103.5
V3	5.9	5.9	96.7	43.6	43.6	103.3	11.0	10.6	96.5
V4	7.6	7.0	124.6	42.1	42.1	99.8	10.7	10.6	93.9
W1	6.5	6.3	106.6		42.5			11.1	
W2	6.5	6.4	106.6	41.9	42.1	99.3	11.0	11.4	96.5
X2	5.7	5.4	93.4	42.5	42.2	100.7	12.1	12.3	106.1
X3	5.8	6.0	95.1	41.9	41.7	99.3	10.7	10.9	93.9
X4				43.7	43.0	103.6	12.1	12.3	106.1
Y1	6.0	6.0	98.4	42.1	42.1	99.8	11.3	11.5	99.1
Z1	6.6	6.6	108.2	42.1	42.2	99.8	12.2	12.0	107.0
CKPG-L	6.2	6.1	101.6	42.2	42.2	100.0	11.5	11.4	100.9

Notes A and B are given in the appendix.

Table XI (cont.)

AVERAGES OF MILL QUALITY DATA FOR SEP-OCT 1992 42 #

Code	CD Ring Crush Lbs			CD Short Span Comp Lbs/in			Bursting Strength PSIG		
	Cur Avg	Cum Avg	Ind *B	Cur Avg	Cum Avg	Ind *B	Cur Avg	Cum Avg	Ind *B
A1	76.5	77.5	90.6				104.7	104.6	97.0
A3							106.0	101.7	98.2
B2	86.0	87.3	101.9				105.5	105.3	97.8
B4	91.7	93.8	108.6				124.6	126.0	115.5
D1				20.3	20.6	98.1	109.5	110.0	101.5
D2		70.0		19.7	18.6	95.2	107.0	104.5	99.2
D3	78.1	78.4	92.5				110.6	107.9	102.5
D4				20.9	19.3	101.0	110.5	107.7	102.4
E2	76.5	78.1	90.6				94.0	97.1	87.1
E3				19.7	20.4	95.2	110.7	110.1	102.6
E4	70.4	69.2	83.4	19.0	19.2	91.8	104.0	105.4	96.4
F4		96.7						116.3	
G3	87.5	87.7	103.7		19.8		104.5	113.8	96.8
H1	74.0	71.8	87.7	20.4	19.9	98.6	120.5	113.6	111.7
H2	81.0	83.2	96.0	20.5	20.8	99.0	114.0	113.8	105.7
H3		60.0			20.2			104.0	
H4	83.0	85.6	98.3	21.6	22.3	104.3	107.0	115.5	99.2
I2	81.6	79.5	96.7	20.8	20.2	100.5	104.3	105.7	96.7
J1		84.4						101.2	
J3	85.9	81.8	101.8				101.3	104.7	93.9
J4				21.4	20.8	103.4	108.0	107.3	100.1
K1				20.3		98.1	106.0		98.2
K2	84.0	85.0	99.5	22.0	22.5	106.3	108.0	111.3	100.1
K3	80.0	84.5	94.8	20.3	21.6	98.1	106.0	104.0	98.2
M1				20.9	21.0	101.0	104.5	105.0	96.8
M2				20.4	20.4	98.6	102.5	103.1	95.0
M3	86.0	89.7	101.9	22.0	22.4	106.3	109.0	107.5	101.0
M4	92.8	91.3	110.0				105.0	104.2	97.3
N1	56.8	72.4	67.3	21.9	21.1	105.8	102.0	108.8	94.5
N3				18.3	18.1	88.4	100.5	104.8	93.1
P1		98.7		31.8	26.6	153.6	129.0	119.2	119.6
P2	79.3	83.0	94.0	21.0	19.9	101.4	106.0	105.7	98.2
Q1		82.5						112.5	
Q3	103.1	99.7	122.2	22.2	22.5	107.2	112.0	113.8	103.8
Q4				21.0		101.4	119.0		110.3
R1	76.5	77.0	90.6				98.0	102.3	90.8
R2	83.5	80.5	98.9	21.3	20.6	102.9	128.0	106.0	118.6
S2	78.5	79.2	93.0				94.5	99.1	87.6
T3		97.8						110.1	
T4				19.5	20.1	94.2	99.5	99.4	92.2
U2				20.5	20.8	99.0	106.5	107.5	98.7
V3	94.1	94.1	111.5				106.0	107.2	98.2
V4				22.0	22.0	106.3	112.5	114.1	104.3
W1	93.1	93.1	110.3				105.2	106.7	97.5
W2	88.8	92.3	105.2				102.4	102.3	94.9
X2	79.0	79.3	93.6				101.0	105.3	93.6
X3	88.0	84.1	104.3				117.5	106.6	108.9
X4				20.7	19.6	100.0	100.0	106.0	92.7
Y1	73.5	73.9	87.1	20.1	19.9	97.1	112.0	106.8	103.8
Z1	82.5	82.3	97.7	23.0	21.9	111.1	116.5	112.3	108.0
CKPG-L	82.9	84.4	98.2	20.9	20.7	101.0	107.6	107.9	99.7

Notes A and B are given in the appendix.

Table XII

AVERAGES OF MILL QUALITY DATA FOR NOV-DEC 1992 42 #

Code	Moist @ reel Percent			Adjusted Basis Weight Lbs/M Sq Ft			Caliper Mils		
	Cur Avg	Cum Avg	Ind *B	Cur Avg	Cum Avg	Ind *B	Cur Avg	Cum Avg	Ind *B
A1	6.1	6.1	100.0	41.4	41.4	98.1	12.1	11.9	106.1
A3	6.2	6.1	101.6	41.9	42.2	99.3	12.4	11.9	108.8
B2	5.8	5.7	95.1	42.0	42.1	99.5	12.1	11.5	106.1
B4	6.8	6.9	111.5	42.3	42.4	100.2	11.3	11.4	99.1
D1	7.6	6.8	124.6	42.2	42.2	100.0	11.6	11.6	101.8
D2	6.0	6.0	98.4	42.1	42.1	99.8	12.6	12.1	110.5
D3	5.9	5.8	96.7	42.3	42.4	100.2	10.5	10.5	92.1
D4	6.0	6.1	98.4	41.5	41.6	98.3	12.1	12.0	106.1
E2	5.7	5.6	93.4	42.2	42.4	100.0	11.7	11.7	102.6
E3	6.5	6.6	106.6	42.5	42.4	100.7	9.7	10.7	85.1
E4	5.6	5.3	91.8	41.3	42.3	97.9	11.3	11.2	99.1
F4		6.2			43.0			10.8	
G3	5.2	5.2	85.2	42.2	42.1	100.0	12.3	12.2	107.9
H1	6.3	6.0	103.3	42.4	42.3	100.5	11.2	11.4	98.2
H2	5.9	5.8	96.7	42.4	42.3	100.5	11.8	11.2	103.5
H3		6.0			42.1			12.6	
H4	6.5	6.5	106.6	41.7	41.8	98.8	11.5	11.3	100.9
I2	6.4	6.4	104.9	42.2	42.2	100.0	11.6	11.6	101.8
J1		6.1			42.0			12.1	
J3	6.0	6.0	98.4	42.3	42.1	100.2	10.6	10.6	93.0
J4		7.1			42.1			11.8	
K1	5.2	5.0	85.2	42.5	42.6	100.7	11.7	11.8	102.6
K2	6.6	6.6	108.2	42.0	42.1	99.5	11.9	11.5	104.4
K3	6.5	6.5	106.6	42.4	42.7	100.5	11.0	11.3	96.5
M1	7.0	7.1	114.8	42.1	42.1	99.8	11.4	11.2	100.0
M2	6.7	6.6	109.8	42.2	42.2	100.0	12.0	12.0	105.3
M3		6.0			42.2			11.2	
M4	6.5	6.5	106.6		43.1			12.6	
N1	5.0	4.8	82.0	41.0	41.8	97.2	11.3	11.2	99.1
N3	5.3	5.2	86.9	42.2	42.2	100.0	12.5	12.1	109.6
P1		6.2			42.2			11.1	
P2	6.9	6.8	113.1	41.8	41.7	99.1	11.0	10.7	96.5
Q1					43.1			11.6	
Q3	5.4	5.5	88.5	42.0	42.1	99.5	12.2	11.6	107.0
Q4	5.7	5.3	93.4	42.5	42.7	100.7	11.0	10.4	96.5
R1	5.8	5.8	95.1	42.2	42.3	100.0	11.7	11.5	102.6
R2	6.9	6.5	113.1	42.5	42.6	100.7	11.3	11.3	99.1
S2	5.8	5.7	95.1	42.2	42.4	100.0	11.4	11.5	100.0
T3	5.8	6.4	95.1	43.1	43.2	102.1	10.9	10.4	95.6
T4	6.8	6.5	111.5	41.7	41.8	98.8	12.7	12.6	111.4
U2	5.1	5.1	83.6	42.2	42.3	100.0	11.5	11.8	100.9
V3	5.9	5.9	96.7	44.0	43.6	104.3	11.2	10.7	98.2
V4	7.6	7.1	124.6	42.1	42.1	99.8	10.6	10.6	93.0
W1	6.5	6.4	106.6		42.5			11.1	
W2	6.4	6.4	104.9	41.9	42.1	99.3	11.0	11.4	96.5
X2	5.4	5.5	88.5	42.5	42.3	100.7	12.4	12.2	108.8
X3	6.0	6.0	98.4	42.0	41.7	99.5	10.8	10.7	94.7
X4				43.1	43.1	102.1	11.9	12.3	104.4
Y1	6.0	6.0	98.4	42.1	42.1	99.8	11.6	11.5	101.8
Z1	6.6	6.6	108.2	42.2	42.2	100.0	12.0	11.9	105.3
CKPG-L	6.1	6.1	100.0	42.2	42.2	100.0	11.5	11.4	100.9

Notes A and B are given in the appendix.

Table XII (cont.)

AVERAGES OF MILL QUALITY DATA FOR NOV-DEC 1992 42 #

Code	CD Ring Crush Lbs			CD Short Span Comp Lbs/in			Bursting Strength PSIG		
	Cur Avg	Cum Avg	Ind *B	Cur Avg	Cum Avg	Ind *B	Cur Avg	Cum Avg	Ind *B
A1	79.5	77.5	94.5				103.6	104.7	96.0
A3							105.0	102.5	97.3
B2	84.5	87.1	100.5				103.5	105.1	95.9
B4	84.4	93.2	100.4				117.1	127.2	108.5
D1				20.6	20.5	99.5	110.0	109.9	101.9
D2		69.5		17.9	18.8	86.5	105.5	105.3	97.8
D3	76.2	78.4	90.6				107.3	108.4	99.4
D4				20.9	19.6	101.0	109.0	108.5	101.0
E2	79.5	77.8	94.5				101.5	95.9	94.1
E3				19.8	20.2	95.7	109.1	110.6	101.1
E4	71.9	70.0	85.5	19.1	19.3	92.3	102.5	105.2	95.0
F4		97.0						117.2	
G3	85.0	86.5	101.1	19.3	19.8	93.2	112.5	108.2	104.3
H1	74.5	71.3	88.6	20.6	19.7	99.5	118.5	115.7	109.8
H2	79.0	82.8	93.9	20.5	20.8	99.0	113.5	114.1	105.2
H3					20.2			106.0	
H4	80.0	85.0	95.1	21.9	22.1	105.8	111.5	114.0	103.3
I2	79.2	79.2	94.2	20.3	20.3	98.1	103.7	105.1	96.1
J1		83.8						101.4	
J3	87.4	81.0	103.9				101.3	104.4	93.9
J4					21.1			107.3	
K1				20.6	20.3	99.5	104.0	106.0	96.4
K2	83.5	84.5	99.3	21.7	21.8	104.8	116.0	110.0	107.5
K3	81.5	83.0	96.9	20.8	20.9	100.5	107.5	105.0	99.6
M1				20.8	21.0	100.5	105.0	104.8	97.3
M2				20.8	20.4	100.5	101.5	103.0	94.1
M3		89.4			22.4			108.0	
M4	92.7	91.5	110.2				101.2	104.4	93.8
N1	74.1	71.1	88.1	19.7	21.1	95.2	105.5	107.9	97.8
N3				17.8	18.1	86.0	101.5	104.4	94.1
P1		98.7			27.6			120.6	
P2	87.2	82.4	103.7	20.7	20.0	100.0	108.2	105.6	100.3
Q1		82.5						112.5	
Q3	106.7	100.4	126.9	24.0	22.5	115.9	115.0	113.4	106.6
Q4				22.6	21.0	109.2	109.0	119.0	101.0
R1	82.0	76.8	97.5				97.5	100.6	90.4
R2	79.5	82.0	94.5	20.4	21.0	98.6	108.0	117.0	100.1
S2	81.0	78.9	96.3				108.0	97.8	100.1
T3	89.3	97.8	106.2				99.5	110.4	92.2
T4				19.9	19.8	96.1	99.1	99.4	91.8
U2				22.2	20.7	107.2	103.5	107.3	95.9
V3	94.6	93.8	112.5				107.1	107.3	99.3
V4				22.4	22.0	108.2	115.0	114.3	106.6
W1	95.3	93.0	113.3				104.2	106.6	96.6
W2	89.0	92.5	105.8				101.9	102.4	94.4
X2	79.5	79.2	94.5				97.0	103.6	89.9
X3	89.0	84.9	105.8				111.0	108.4	102.9
X4				20.9	19.9	101.0	101.5	105.3	94.1
Y1	72.2	73.8	85.9	19.4	19.9	93.7	105.8	107.7	98.1
Z1	84.5	82.3	100.5	21.0	22.3	101.4	111.0	113.3	102.9
CKPG-L	83.0	84.1	98.7	20.5	20.7	99.0	106.5	107.9	98.7

Notes A and B are given in the appendix.

Table XIII

AVERAGES OF MILL QUALITY DATA FOR JUL-AUG 1992 69 #

Code	Moist @ reel Percent			Adjusted Basis Weight Lbs/M Sq Ft			Caliper Mils		
	Cur Avg	Cum Avg	Ind *B	Cur Avg	Cum Avg	Ind *B	Cur Avg	Cum Avg	Ind *B
A1	6.6	6.6	101.5	67.5	68.0	97.3	18.7	19.0	100.5
A3	6.5	6.5	100.0	69.1	68.8	99.6	20.4	19.2	109.7
B2	6.0	6.3	92.3	69.3	69.2	99.9	19.3	19.0	103.8
B4	6.7	6.6	103.1	69.7	69.6	100.4	18.7	18.6	100.5
C3	7.1	6.4	109.2	69.2	69.2	99.7	18.1	17.9	97.3
D3	6.3	6.2	96.9	69.1	69.7	99.6		17.1	
D4	7.0	7.1	107.7	68.8	69.0	99.1	19.7	19.6	105.9
E2	5.7	5.7	87.7	69.2	70.1	99.7	18.7	19.1	100.5
E3	6.6	6.6	101.5	69.6	69.3	100.3	17.4	18.4	93.5
E4	5.6	5.6	86.2	68.0	69.0	98.0	18.5	18.9	99.5
H1	6.2	6.2	95.4	69.9	69.2	100.7	17.9	17.5	96.2
H2	6.9	6.8	106.2	68.9	69.0	99.3	18.8	18.6	101.1
I2	7.0	7.0	107.7	69.3	69.2	99.9	18.6	18.4	100.0
J3	6.8	6.5	104.6	69.4	69.3	100.0	17.1	17.9	91.9
K2	7.2	6.9	110.8	69.0	69.0	99.4	19.8	20.2	106.5
K3	6.4		98.5	70.0		100.9	17.9		96.2
L4	6.0	6.0	92.3	69.1	69.3	99.6	19.4	19.3	104.3
M1	7.0	7.1	107.7	69.2	69.2	99.7	17.1	16.9	91.9
P2	7.4	7.6	113.8	68.4	68.5	98.6	17.9	18.1	96.2
Q3	6.1	6.1	93.8	69.1	69.2	99.6	18.5	18.4	99.5
R1	6.0	6.1	92.3	69.4	69.5	100.0	19.4	20.1	104.3
R2	6.5		100.0	70.0		100.9	18.3		98.4
T3		6.3			70.4			18.2	
T4	6.7		103.1	68.9		99.3	21.9		117.7
U2	5.7	5.6	87.7	69.2	69.3	99.7	19.2	19.6	103.2
V3	6.6	6.1	101.5	70.6	70.9	101.7	17.4	17.2	93.5
W1	6.5	6.4	100.0		72.0			18.6	
X3	6.6	6.6	101.5	68.1	68.5	98.1	17.5	17.1	94.1
X4				70.4	70.7	101.4	18.9	19.0	101.6
Y1	7.0	7.0	107.7	69.2	69.2	99.7	18.9	19.4	101.6
Z1	7.6	7.6	116.9	69.2	69.2	99.7	18.8	19.1	101.1
CKPG-L	6.5	6.5	100.0	69.2	69.4	99.7	18.6	18.6	100.0

Notes A and B are given in the appendix.

Table XIII (cont.)

AVERAGES OF MILL QUALITY DATA FOR JUL-AUG 1992 69 #

Code	CD Ring Crush Lbs			CD Short Span Comp Lbs/in			Bursting Strength PSIG		
	Cur Avg	Cum Avg	Ind *B	Cur Avg	Cum Avg	Ind *B	Cur Avg	Cum Avg	Ind *B
A1	126.5	127.6	93.4				147.1	152.5	98.3
A3							140.0	133.4	93.6
B2	138.0	136.4	101.8				140.5	140.9	93.9
B4	145.5	164.5	107.4				167.2	174.8	111.8
C3				31.2	31.5	97.2	142.5	146.7	95.3
D3	129.5	129.6	95.6				140.9	140.9	94.2
D4				31.5	30.0	98.1	158.5	149.4	105.9
E2	128.5	127.6	94.8				136.0	136.4	90.9
E3				34.5	35.6	107.5	147.9	145.6	98.9
E4	102.5	116.6	75.6	28.6	26.7	89.1	141.5	143.2	94.6
H1	115.0	119.8	84.9	31.7	33.1	98.8	169.5	159.8	113.3
H2	118.0	117.8	87.1	30.0	29.8	93.5	150.0	150.8	100.3
I2	135.9	135.5	100.3	33.9	33.6	105.6	150.4	154.7	100.5
J3	142.6	141.8	105.2				145.4	147.2	97.2
K2	144.0	134.4	106.3	35.5	35.7	110.6	144.0	156.5	96.3
K3	138.0		101.8	34.5		107.5	146.5		97.9
L4	128.5	120.9	94.8				140.0	138.0	93.6
M1				31.2	33.1	97.2	145.0	149.0	96.9
P2	157.4	141.0	116.2	37.3	34.0	116.2	141.5	144.5	94.6
Q3	155.2	164.9	114.5	33.8	34.9	105.3	145.3	148.7	97.1
R1	135.5	129.0	100.0				144.5	131.0	96.6
R2	134.0		98.9	33.4		104.0	148.0		98.9
T3		149.1						157.7	
T4				29.9		93.1	144.0		96.3
U2				32.7	30.1	101.9	144.5	155.4	96.6
V3	148.9	149.4	109.9				156.6	154.1	104.7
W1	145.7	147.2	107.5				148.1	159.4	99.0
X3	149.5	140.9	110.3				161.5	145.0	108.0
X4				32.9	32.2	102.5	149.0	147.5	99.6
Y1	114.0	118.3	84.1	30.4	30.9	94.7	154.5	146.6	103.3
Z1	121.0	128.0	89.3	33.0	31.3	102.8	148.5	151.2	99.3
CKPG-L	133.7	135.5	98.7	32.4	32.1	100.9	148.2	149.6	99.1

Notes A and B are given in the appendix.

Table XIV

AVERAGES OF MILL QUALITY DATA FOR SEP-OCT 1992 69 #

Code	Moist @ reel Percent			Adjusted Basis Weight Lbs/M Sq Ft			Caliper Mils		
	Cur Avg	Cum Avg	Ind *B	Cur Avg	Cum Avg	Ind *B	Cur Avg	Cum Avg	Ind *B
A1	6.6	6.6	101.5	67.4	67.9	97.1	18.9	18.9	101.6
A3	6.3	6.6	96.9	68.6	68.9	98.8	19.1	19.4	102.7
B2	6.0	6.2	92.3	69.2	69.2	99.7	19.2	19.0	103.2
B4	6.6	6.5	101.5	69.9	69.7	100.7	15.4	18.5	82.8
C3	6.8	6.6	104.6	69.2	69.2	99.7	17.8	17.9	95.7
D1	7.3		112.3	69.5		100.1	19.8		106.5
D3	6.6	6.2	101.5	69.0	69.5	99.4	17.5	17.1	94.1
D4	7.0	7.0	107.7	68.9	69.0	99.3	20.1	19.6	108.1
E2	5.6	5.7	86.2	69.3	69.9	99.9	18.9	19.0	101.6
E3	6.5	6.6	100.0	69.6	69.4	100.3	17.2	18.0	92.5
E4	5.8	5.5	89.2	68.1	68.8	98.1	19.2	18.9	103.2
H1	6.2	6.2	95.4	69.6	69.4	100.3	17.4	17.5	93.5
H2	6.7	6.8	103.1	68.9	69.0	99.3	18.5	18.7	99.5
I2	7.0	7.0	107.7	69.2	69.2	99.7	18.7	18.5	100.5
J3	6.6	6.6	101.5	68.6	69.2	98.8	17.5	17.7	94.1
K2	7.3	7.0	112.3	69.2	69.1	99.7	20.0	19.8	107.5
K3	6.4	6.4	98.5	69.7	70.0	100.4	18.3	17.9	98.4
L4	5.8	6.0	89.2	69.5	69.3	100.1	19.8	19.3	106.5
M1	7.1	7.1	109.2	69.2	69.2	99.7	17.0	17.0	91.4
P2	7.8	7.6	120.0	68.5	68.5	98.7	18.4	18.0	98.9
Q3	6.1	6.1	93.8	69.1	69.1	99.6	18.2	18.4	97.8
Q4	6.1		93.8	69.7		100.4	18.6		100.0
R1	6.1	6.0	93.8	69.4	69.4	100.0	19.0	19.6	102.2
R2	6.5	6.5	100.0	69.8	70.0	100.6	18.1	18.3	97.3
T3		6.3			70.4			18.2	
T4	6.3	6.7	96.9	68.8	68.9	99.1	21.8	21.9	117.2
U2	5.7	5.7	87.7	69.2	69.3	99.7	19.4	19.5	104.3
V3	6.0	6.2	92.3	71.1	70.9	102.4	17.5	17.2	94.1
W1	6.7	6.5	103.1		73.0			18.9	
X3	6.6	6.5	101.5	68.5	68.4	98.7	17.2	17.1	92.5
X4				70.2	70.7	101.2	18.0	19.0	96.8
Y1	6.9	7.0	106.2	69.3	69.2	99.9	18.8	19.3	101.1
Z1	7.6	7.6	116.9	69.3	69.2	99.9	19.0	19.0	102.2
CKPG-L	6.5	6.5	100.0	69.2	69.4	99.7	18.5	18.6	99.5

Notes A and B are given in the appendix.

Table XIV (cont.)

AVERAGES OF MILL QUALITY DATA FOR SEP-OCT 1992 69 #

Code	CD Ring Crush Lbs			CD Short Span Comp Lbs/in			Bursting Strength PSIG		
	Cur Avg	Cum Avg	Ind *B	Cur Avg	Cum Avg	Ind *B	Cur Avg	Cum Avg	Ind *B
A1	126.5	126.8	93.6				157.8	151.2	105.8
A3							144.0	134.2	96.6
B2	134.5	136.8	99.5				139.5	140.5	93.6
B4	170.6	161.9	126.2				190.0	174.0	127.4
C3				32.4	31.9	100.6	145.0	145.8	97.3
D1				31.1		96.6	142.0		95.2
D3	125.9	129.6	93.1				138.9	140.9	93.2
D4				31.6	30.2	98.1	158.9	151.2	106.6
E2	126.5	128.3	93.6				136.0	135.6	91.2
E3				33.2	35.6	103.1	148.8	147.0	99.8
E4	118.9	115.3	87.9	27.1	27.0	84.2	139.0	142.4	93.2
H1	116.0	119.3	85.8	32.1	32.9	99.7	162.0	161.3	108.7
H2	119.0	116.7	88.0	30.5	29.8	94.7	151.0	151.2	101.3
I2	133.3	135.6	98.6	33.1	33.7	102.8	157.7	153.9	105.8
J3	151.1	139.7	111.8				143.8	147.0	96.4
K2	144.0	136.4	106.5	36.0	34.9	111.8	151.0	153.2	101.3
K3	131.0	138.0	96.9	32.9	34.5	102.2	146.5	146.5	98.3
L4	128.0	122.8	94.7				137.5	138.3	92.2
M1				31.7	32.7	98.4	147.5	147.5	98.9
P2	163.7	143.0	121.1	35.7	33.6	110.9	146.0	143.4	97.9
Q3	140.5	162.5	103.9	36.0	34.7	111.8	152.0	147.5	101.9
Q4				31.7		98.4	150.0		100.6
R1	122.5	133.3	90.6				143.5	140.0	96.2
R2	137.5	134.0	101.7	34.4	33.4	106.8	162.0	148.0	108.7
T3		149.1						156.5	
T4				28.5	29.9	88.5	135.9	144.0	91.1
U2				32.5	30.8	100.9	148.0	150.9	99.3
V3	144.9	149.0	107.2				160.0	155.5	107.3
W1	144.1	146.9	106.6				143.3	156.9	96.1
X3	152.0	142.6	112.4				167.0	147.3	112.0
X4				32.5	32.5	100.9	150.0	148.1	100.6
Y1	120.0	117.6	88.8	31.9	30.7	99.1	157.1	148.6	105.4
Z1	129.5	127.0	95.8	33.0	31.8	102.5	155.0	151.8	104.0
CKPG-L	134.7	135.2	99.6	32.3	32.2	100.3	150.3	149.1	100.8

Notes A and B are given in the appendix.

Table XV

AVERAGES OF MILL QUALITY DATA FOR NOV-DEC 1992 69 #

Code	Moist @ reel Percent			Adjusted Basis Weight Lbs/M Sq Ft			Caliper Mils		
	Cur Avg	Cum Avg	Ind *B	Cur Avg	Cum Avg	Ind *B	Cur Avg	Cum Avg	Ind *B
A1	6.6	6.6	101.5	67.7	67.7	97.7	19.3	18.9	103.8
A3	6.4	6.5	98.5	68.8	68.8	99.3	16.6	19.3	89.2
B2	6.0	6.1	92.3	69.3	69.2	100.0	19.8	19.2	106.5
B4	6.6	6.6	101.5	69.6	69.7	100.4	17.3	17.9	93.0
C3	6.6	6.6	101.5	69.2	69.2	99.9	17.8	18.0	95.7
D1	7.8	7.3	120.0	69.6	69.5	100.4	19.5	19.8	104.8
D3	6.4	6.3	98.5	68.8	69.4	99.3	17.3	17.3	93.0
D4	7.0	7.0	107.7	68.8	68.9	99.3	19.9	19.8	107.0
E2	5.7	5.7	87.7	69.2	69.7	99.9	18.6	19.0	100.0
E3	6.6	6.6	101.5	69.7	69.5	100.6	16.2	17.8	87.1
E4	5.5	5.6	84.6	68.0	68.6	98.1	18.7	19.0	100.5
H1	6.2	6.2	95.4	69.6	69.4	100.4	18.1	17.5	97.3
H2	7.0	6.8	107.7	68.8	69.0	99.3	18.7	18.6	100.5
I2	7.0	7.0	107.7	69.2	69.2	99.9	18.9	18.6	101.6
J3	6.6	6.6	101.5	69.1	69.0	99.7	17.6	17.6	94.6
K2	7.3	7.0	112.3	69.2	69.1	99.9	19.8	19.8	106.5
K3	6.5	6.4	100.0	69.6	69.9	100.4	17.7	18.1	95.2
L4	6.1	6.0	93.8	69.4	69.3	100.1	19.9	19.4	107.0
M1	7.1	7.1	109.2	69.2	69.2	99.9	17.6	17.1	94.6
P2	7.5	7.5	115.4	68.8	68.6	99.3	18.4	18.2	98.9
Q3	6.1	6.1	93.8	69.1	69.1	99.7	18.7	18.4	100.5
Q4	7.0	6.1	107.7	69.7	69.7	100.6	18.4	18.6	98.9
R1	5.9	6.1	90.8	69.5	69.4	100.3	19.9	19.4	107.0
R2	6.5	6.5	100.0	69.6	69.9	100.4	17.7	18.2	95.2
T3		6.3			70.4			18.1	
T4	7.0	6.5	107.7	68.8	68.9	99.3	21.7	21.9	116.7
U2	5.7	5.7	87.7	69.2	69.3	99.9	18.8	19.4	101.1
V3	6.2	6.1	95.4	70.9	70.9	102.3	17.4	17.3	93.5
W1	6.6	6.5	101.5		69.5			18.2	
X3	6.5	6.4	100.0	68.5	68.4	98.8	17.2	17.2	92.5
X4				70.5	70.6	101.7	18.2	19.0	97.8
Y1	7.0	7.0	107.7	69.2	69.2	99.9	19.4	19.2	104.3
Z1	7.7	7.6	118.5	69.2	69.3	99.9	19.1	19.0	102.7
CKPG-L	6.6	6.5	101.5	69.2	69.3	99.9	18.5	18.6	99.5

Notes A and B are given in the appendix.

Table XV (cont.)

AVERAGES OF MILL QUALITY DATA FOR NOV-DEC 1992 69 #

Code	CD Ring Crush Lbs			CD Short Span Comp Lbs/in			Bursting Strength PSIG		
	Cur Avg	Cum Avg	Ind *B	Cur Avg	Cum Avg	Ind *B	Cur Avg	Cum Avg	Ind *B
A1	125.0	127.2	92.7				161.9	152.9	108.5
A3							140.5	136.0	94.2
B2	137.5	137.0	102.0				138.5	140.2	92.8
B4	149.6	162.1	111.0				178.6	177.0	119.7
C3				32.3	32.0	100.0	143.0	145.5	95.8
D1				31.6	31.1	97.8	145.0	142.0	97.2
D3	128.4	128.8	95.3				145.5	140.5	97.5
D4				32.0	30.5	99.1	141.8	153.1	95.0
E2	132.5	128.0	98.3				140.0	135.1	93.8
E3				35.4	35.9	109.6	145.1	147.8	97.3
E4	124.5	116.7	92.4	27.6	26.8	85.4	138.0	142.4	92.5
H1	122.0	119.1	90.5	33.7	32.9	104.3	161.0	162.0	107.9
H2	113.5	116.1	84.2	30.0	29.8	92.9	148.0	151.8	99.2
I2	128.5	134.9	95.3	31.8	33.6	98.5	145.8	154.7	97.7
J3	137.6	141.9	102.1				142.2	146.4	95.3
K2	140.0	137.7	103.9	36.0	34.4	111.5	161.0	152.5	107.9
K3	136.5	135.7	101.3	34.2	33.7	105.9	151.5	146.5	101.5
L4	126.5	124.4	93.8				138.5	138.0	92.8
M1				31.0	32.4	96.0	141.0	147.8	94.5
P2	149.6	145.3	111.0	33.8	33.7	104.6	144.4	143.5	96.8
Q3	158.8	156.0	117.8	33.5	34.9	103.7	149.5	147.9	100.2
Q4				32.9	31.7	101.9	143.0	150.0	95.8
R1	152.0	129.0	112.8				134.0	141.4	89.8
R2	134.5	135.8	99.8	33.5	33.9	103.7	143.5	155.0	96.2
T3		149.1						156.2	
T4				27.6	29.2	85.4	132.7	139.9	88.9
U2				33.8	31.1	104.6	138.5	149.3	92.8
V3	146.0	147.7	108.3				159.8	156.7	107.1
W1	143.4	143.3	106.4				148.3	152.9	99.4
X3	145.0	143.9	107.6				152.5	151.3	102.2
X4				33.7	32.9	104.3	151.5	148.5	101.5
Y1	115.5	118.0	85.7	30.9	31.0	95.7	148.6	150.0	99.6
Z1	130.5	128.0	96.8	31.5	32.5	97.5	156.5	151.9	104.9
CKPG-L	135.0	134.8	100.1	32.3	32.3	100.0	147.5	149.2	98.9

Notes A and B are given in the appendix.

Table XVI

AVERAGES OF MILL QUALITY DATA FOR JUL-AUG 1992 90 #

Code	Moist @ reel Percent			Adjusted Basis Weight Lbs/M Sq Ft			Caliper Mils		
	Cur Avg	Cum Avg	Ind *B	Cur Avg	Cum Avg	Ind *B	Cur Avg	Cum Avg	Ind *B
A1	8.7	8.1	127.9	89.1	88.9	98.8	24.6	25.4	100.4
A3		6.7			90.0			25.2	
C3	6.5	6.2	95.6	90.2	90.3	100.0	22.6	23.2	92.2
D3	6.0	6.2	88.2	90.3	90.9	100.1		23.1	
H1		6.6			89.9			24.4	
H2	6.8	6.8	100.0	90.1	90.2	99.9	24.5	24.5	100.0
J3	6.4	6.5	94.1	89.2	89.9	98.9	22.9	24.1	93.5
K2	7.6	7.3	111.8	90.4	90.5	100.2	26.4	25.4	107.8
K3	6.5		95.6	90.8		100.7	22.9		93.5
L4	6.1	6.0	89.7	89.7	90.5	99.4	24.2	25.1	98.8
M1	7.1	7.1	104.4	90.3	90.3	100.1	19.4	21.0	79.2
Q3	6.2	6.1	91.2	90.3	90.2	100.1	25.1	24.5	102.4
R2	6.5		95.6	91.3		101.2	24.6		100.4
W1	6.5	6.4	95.6		90.3			23.4	
Z1	7.4	7.6	108.8	90.5	90.5	100.3	24.6	25.0	100.4
CKPG-L	6.7	6.8	98.5	90.3	90.2	100.1	23.7	24.5	96.7

Notes A and B are given in the appendix.

Table XVI (cont.)

AVERAGES OF MILL QUALITY DATA FOR JUL-AUG 1992 90 #

Code	CD Ring Crush Lbs			CD Short Span Comp Lbs/in			Bursting Strength PSIG		
	Cur Avg	Cum Avg	Ind *B	Cur Avg	Cum Avg	Ind *B	Cur Avg	Cum Avg	Ind *B
A1	147.0	157.9	85.1				184.7	189.6	102.6
A3								172.6	
C3				44.8	41.8	103.0	182.5	182.6	101.3
D3	172.9	171.0	100.1				176.9	173.9	98.2
H1		149.3			41.2			199.3	
H2	166.5	159.7	96.4	44.0	43.4	101.1	180.5	180.8	100.2
J3	165.1	176.7	95.5				171.0	159.4	94.9
K2	175.5	168.5	101.6	45.7	49.7	105.1	166.5	185.4	92.4
K3	173.0		100.1	46.5		106.9	173.5		96.3
L4	156.0	155.1	90.3				176.0	167.5	97.7
M1				41.9	43.2	96.3	186.0	189.0	103.3
Q3	202.8	214.5	117.4	49.6	47.3	114.0	173.7	185.8	96.4
R2	163.0		94.3	42.1		96.8	179.0		99.4
W1	187.7	184.6	108.6				177.8	189.3	98.7
Z1	165.0	168.7	95.5	42.0	39.7	96.6	181.0	183.5	100.5
CKPG-L	172.3	172.8	99.7	44.5	43.5	102.3	177.4	180.1	98.5

Notes A and B are given in the appendix.

Table XVII

AVERAGES OF MILL QUALITY DATA FOR SEP-OCT 1992 90 #

Code	Moist @ reel Percent			Adjusted Basis Weight Lbs/M Sq Ft			Caliper Mils		
	Cur Avg	Cum Avg	Ind *B	Cur Avg	Cum Avg	Ind *B	Cur Avg	Cum Avg	Ind *B
A1		8.2			88.7			25.3	
A3	6.3	6.8	92.6	90.0	89.4	99.9	24.6	25.1	101.2
C3	6.6	6.3	97.1	90.2	90.3	100.1	22.3	23.0	91.8
D3	6.2	6.1	91.2	90.3	90.8	100.2	23.1	23.1	95.1
H1		6.5			89.8			24.0	
H2	6.8	6.8	100.0	90.1	90.1	100.0	24.1	24.4	99.2
J3	6.5	6.5	95.6	89.9	89.7	99.8	22.8	23.7	93.8
K2	8.0	7.4	117.6	90.3	90.6	100.2	27.0	25.7	111.1
K3	6.5	6.5	95.6	90.8	90.8	100.8	23.5	22.9	96.7
L4	6.0	6.0	88.2	90.2	90.4	100.1	25.5	25.0	104.9
M1	7.0	7.1	102.9	90.3	90.3	100.2	21.1	20.2	86.8
Q3	6.2	6.1	91.2	90.3	90.3	100.2	25.0	24.7	102.9
Q4	7.2		105.9	90.6		100.6	24.0		98.8
R2		6.5			91.3			24.6	
W1	6.5	6.5	95.6		90.2			23.5	
Z1	7.7	7.5	113.2	90.4	90.5	100.3	25.2	24.9	103.7
CKPG-L	6.7	6.8	98.5	90.3	90.1	100.2	24.3	24.3	100.0

Notes A and B are given in the appendix.

Table XVII (cont.)

AVERAGES OF MILL QUALITY DATA FOR SEP-OCT 1992 90 #

Code	CD Ring Crush Lbs			CD Short Span Comp Lbs/in			Bursting Strength PSIG		
	Cur Avg	Cum Avg	Ind *B	Cur Avg	Cum Avg	Ind *B	Cur Avg	Cum Avg	Ind *B
A1		154.9						187.9	
A3							158.0	174.2	88.2
C3				43.9	43.0	100.2	181.0	181.6	101.1
D3	167.0	171.5	96.8				176.0	174.7	98.3
H1		146.0			40.4			214.0	
H2	157.5	159.9	91.3	41.5	43.6	94.7	183.0	182.5	102.2
J3	183.1	173.9	106.1				170.5	161.5	95.2
K2	178.0	169.4	103.2		47.2		174.5	181.8	97.4
K3	173.0	173.0	100.3	46.6	46.5	106.4	178.5	173.5	99.7
L4	162.0	155.2	93.9				166.5	168.5	93.0
M1				41.9	42.7	95.7	184.0	187.2	102.7
Q3	207.6	211.0	120.3	48.3	47.7	110.3	184.5	182.1	103.0
Q4				43.2		98.6	189.5		105.8
R2		163.0			42.1			179.0	
W1	191.4	184.8	111.0				176.5	185.7	98.5
Z1	162.5	167.7	94.2	39.5	40.6	90.2	185.0	182.8	103.3
CKPG-L	176.5	172.5	102.3	43.6	43.8	99.5	177.1	179.1	98.9

Notes A and B are given in the appendix.

Table XVIII

AVERAGES OF MILL QUALITY DATA FOR NOV-DEC 1992 90 #

Code	Moist @ reel Percent			Adjusted Basis Weight Lbs/M Sq Ft			Caliper Mils		
	Cur Avg	Cum Avg	Ind *B	Cur Avg	Cum Avg	Ind *B	Cur Avg	Cum Avg	Ind *B
A1	8.4	8.1	125.4	85.6	88.6	94.9	24.2	25.1	99.6
A3	6.5	6.6	97.0	90.0	89.5	99.8	24.9	25.0	102.5
C3	6.2	6.4	92.5	90.3	90.3	100.1	22.4	22.9	92.2
D3	6.5	6.1	97.0	90.3	90.7	100.1	23.2	23.1	95.5
D4	7.0		104.5	89.7		99.4	25.6		105.3
H1		6.5			89.8			24.0	
H2	6.9	6.8	103.0	90.0	90.0	99.8	24.1	24.2	99.2
J3	6.5	6.5	97.0	90.4	89.6	100.2	23.4	23.3	96.3
K2	7.6	7.5	113.4	90.4	90.6	100.2	26.7	25.9	109.9
K3	6.4	6.5	95.5	90.7	90.8	100.6	22.8	23.2	93.8
L4	6.1	6.0	91.0	90.1	90.3	99.9	25.2	25.1	103.7
M1	7.0	7.1	104.5	90.4	90.3	100.2	21.8	20.2	89.7
Q3	6.3	6.1	94.0	90.3	90.2	100.1	25.1	24.8	103.3
Q4	7.3	7.2	109.0	91.1	90.6	101.0	24.0	24.0	98.8
R2	6.5	6.5	97.0	90.4	91.3	100.2	23.4	24.6	96.3
W1	6.6	6.5	98.5		90.0			23.5	
Z1	7.6	7.6	113.4	90.3	90.5	100.1	25.0	24.9	102.9
CKPG-L	6.8	6.7	101.5	90.2	90.2	100.0	24.2	24.3	99.6

Notes A and B are given in the appendix.

Table XVIII (cont.)

AVERAGES OF MILL QUALITY DATA FOR NOV-DEC 1992 90 #

Code	CD Ring Crush Lbs			CD Short Span Comp Lbs/in			Bursting Strength PSIG		
	Cur Avg	Cum Avg	Ind *B	Cur Avg	Cum Avg	Ind *B	Cur Avg	Cum Avg	Ind *B
A1		155.8					195.7	188.8	109.6
A3							154.5	170.1	86.5
C3				45.6	43.8	103.9	180.0	181.8	100.8
D3	156.0	171.0	90.3				168.0	174.8	94.1
D4				39.7		90.4	174.1		97.5
H1		146.0			40.4			214.0	
H2	157.5	159.3	91.1	43.0	43.3	97.9	183.5	184.5	102.7
J3	175.5	173.5	101.6				158.2	162.7	88.6
K2	174.5	171.6	101.0	44.3	44.5	100.9	188.5	179.3	105.5
K3	172.0	173.0	99.5	46.1	46.5	105.0	186.5	176.0	104.4
L4	154.5	156.8	89.4				167.5	168.2	93.8
M1				42.6	42.0	97.0	189.0	187.0	105.8
Q3	200.9	207.0	116.3	47.4	47.8	108.0	177.5	180.9	99.4
Q4				44.7	43.2	101.8	180.0	189.5	100.8
R2	167.5	163.0	96.9	44.3	42.1	100.9	181.5	179.0	101.6
W1	183.3	186.7	106.1				177.9	182.9	99.6
Z1	166.0	167.3	96.1	37.5	40.8	85.4	187.0	184.7	104.7
CKPG-L	170.8	172.8	98.8	43.6	43.9	99.3	177.1	178.6	99.2

Notes A and B are given in the appendix.

Data submitted by the participating mills relative to conditioning and testing environments are summarized in Table XIX. The procedures used in calculating adjusted basis weight, cumulative machine averages, machine indexes, and C.K.P.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 period varies for these reasons: a machine must have (a) produced at least 500 tons of the pertinent grade weight during the specified period, or (b) produced 500 tons of pertinent grade weight during ANY ONE OR MORE of the 12 months prior to the specified period (so that a cumulative average is available), to be included in a given table.

Table XIX

Code	Pre-Conditioned?	Conditioned?	Temp. (Deg. C)	RH (%)	Time (min.)
A1	No	Yes	23	50	0
A3		Yes	23		0
B2	No	No			
B4	No	No		50	
C1	No	Yes	22		0
C3	No	No			
D1	No	No		50	
D2	No	Yes	21	50	0
D3	No	Yes	23	50	13
D4	Yes	Yes	22		7
E2	No	No			
E3	No	No			
E4	No	No		50	
F1	No	Yes	22	50	0
F4	No	Yes	22	50	0
G3	No	Yes	22	50	10
H1	No	Yes	23	50	0
H2	No	Yes	23	50	0
H3	No	Yes	21	50	0
H4		Yes	22		60
I2	No	No		50	
I4	No	Yes	24		20
J1	No	No			
J3	No	No			
J4	No	No			
K1	No	No		50	
K2		Yes	22	50	60
K3	Yes	Yes	23		480
L2				50	
L4	No	Yes	22		10
M1	No	No		50	
M2	No	Yes	22	45	10
M3	No	Yes	27		0
M4	No	No			
N1	No	No		50	
N3	No	Yes		50	0
P1		Yes	22		60
P2	No	No		50	
P4	No	Yes	23		0
Q1	No	No		50	
Q3	No	Yes	21		60
Q4	No	No		50	
R1	No	Yes	23	50	15
R2	Yes	Yes	23		480
R3	No	No			

Table XIX (cont.)

Code	Pre-Conditioned?	Conditioned?	Temp. (Deg. C)	RH (%)	Time (min.)
S2	No	No			
T1	No	No		50	
T3	No	Yes	22	50	0
T4		Yes	23	50	731
U1	No	Yes	22	50	10
U2	No	Yes		50	0
V3	No	Yes	22		0
V4	No	No			
W1	No	No			
W2	No	No		50	
X2	No	Yes	23		15
X3	No	No			
X4	No	No			
Y1	No	No		50	
Y4	No	Yes	21	50	0
Z1		Yes	22	50	60
Z3	No	Yes	22		0

APPENDIX

NOTES A AND B USED IN TABULATIONS OF MILL DATA

Notes A and B used in the tables of mill data are given below; these notes define the procedure used in calculating adjusted basis weight, machine index, and C.K.P.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 7.8%: ABW = RBW {(100 - reported moisture content, %)/(100-7.8)}

NOTE B: Machine index (%) =

[(current machine average/cumulative C.K.P.G. average)* 100]

Where Cumulative C.K.P.G. average =

[Average CCKPG for previous six periods, excluding current CCKPG]

C.K.P.G. index (%) =

[(current C.K.P.G. average/cumulative C.K.P.G. average)* 100]

Where Current C.K.P.G. average =

[CMA's for current period for all machines/number of machines]

Cumulative Machine average =
[Average CMA for previous six periods, excluding current CMA]

CMA = current machine average for a specific physical property of a specific linerboard grade weight obtained during a given period on a specific machine.

CCKPG = current C.K.P.G. average for a specific physical property of a specific linerboard grade weight obtained during a given period.

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