



Institute of Paper Science and Technology

BASE-LINE
1st HALF, 1992

CONTINUOUS BASE-LINE STUDY (MODIFIED)
(MILL CORRUGATING MEDIUM DATA FOR JAN-FEB, MAR-APR, MAY-JUN, 1992)

A Progress Report

to

THE CONTAINERBOARD & KRAFT PAPER GROUP

OF THE

AMERICAN PAPER INSTITUTE

Project 2694-2

Report Seventy-Five

September 1, 1992



Atlanta, Georgia

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THE INSTITUTE OF PAPER SCIENCE AND TECHNOLOGY
Atlanta, Georgia

CONTINUOUS BASE-LINE STUDY (MODIFIED)
(MILL CORRUGATING MEDIUM DATA FOR JAN-FEB, MAR-APR, MAY-JUN, 1992)

SUMMARY

MOISTURE CONTENT, %

Medium Grade Wt.		JAN-FEB		MAR-APR		MAY-JUN	
		Total	Recycled	Total	Recycled	Total	Recycled
26 Lb.	Max.	9.6	9.0	9.4	9.1	9.3	9.3
	Min.	5.7	5.7	5.5	5.5	5.5	5.5
	Ave.	7.4 (31)	7.2 (14)	7.3 (30)	7.0 (13)	7.4 (30)	7.3 (14)
33 Lb.	Max.	9.5	8.7	9.6	9.0	9.5	9.1
	Min.	5.2	5.2	5.8	5.8	5.5	5.5
	Ave.	7.4 (25)	7.0 (12)	7.5 (25)	7.3 (11)	7.5 (27)	7.2 (12)
40 Lb.	Max.	10.1	8.6	9.5	8.7	9.9	8.9
	Min.	6.2	7.2	5.8	5.8	5.9	5.9
	Ave.	8.0 (12)	8.1 (3)	7.8 (13)	7.6 (4)	7.8 (15)	7.6 (5)

ADJUSTED BASIS WEIGHT, lb/M sq ft.

		JAN-FEB		MAR-APR		MAY-JUN	
		Total	Recycled	Total	Recycled	Total	Recycled
26 Lb.	Max.	28.0	28.0	27.7	27.7	27.7	27.7
	Min.	25.5	25.6	25.5	25.6	25.4	25.6
	Ave.	26.3 (31)	26.6 (14)	26.3 (30)	26.6 (13)	26.3 (30)	26.5 (14)
33 Lb.	Max.	35.6	35.6	35.1	35.1	35.4	35.4
	Min.	32.3	32.4	31.5	32.5	32.2	32.3
	Ave.	33.3 (25)	33.6 (12)	33.1 (25)	33.3 (11)	33.3 (27)	33.6 (12)
40 Lb.	Max.	40.6	39.7	41.1	41.1	40.6	40.4
	Min.	39.0	39.6	39.1	39.7	38.9	39.8
	Ave.	39.9 (12)	39.7 (3)	40.0 (13)	40.1 (4)	40.0 (15)	40.0 (5)

Max. and Min. values are current machine averages.

Ave. is current C.K.P.G. average, number of machines is indicated in parentheses.

SUMMARY (cont.)

CALIPER. pt.

		JAN-FEB		MAR-APR		MAY-JUN	
		Total	Recycled	Total	Recycled	Total	Recycled
26 Lb.	Max.	11.8	10.8	11.0	11.0	11.0	11.0
	Min.	7.5	8.3	7.3	8.4	7.9	7.9
	Ave.	9.4 (25)	9.5 (12)	9.4 (27)	9.7 (10)	9.4 (27)	9.6 (11)
33 Lb.	Max.	14.0	13.5	13.5	13.5	13.5	13.5
	Min.	9.4	9.8	9.5	10.3	10.1	10.3
	Ave.	11.6 (24)	11.5 (11)	11.7 (23)	11.7 (9)	11.7 (25)	11.8 (10)
40 Lb.	Max.	16.0	13.5	15.4	14.1	15.4	13.8
	Min.	12.5	12.7	12.4	12.4	12.3	12.3
	Ave.	13.9 (11)	13.1 (2)	13.9 (12)	13.3 (3)	14.0 (13)	13.1 (3)

CONCORA, lb

Medium Grade Wt.		JAN-FEB		MAR-APR		MAY-JUN	
		Total	Recycled	Total	Recycled	Total	Recycled
26 Lb.	Max.	76.5	66.0	74.0	63.2	66.3	63.0
	Min.	52.7	55.8	49.9	54.9	55.4	55.4
	Ave.	61.1 (30)	59.7 (14)	61.0 (30)	59.3 (13)	60.8 (30)	59.3 (14)
33 Lb.	Max.	88.8	88.8	87.7	87.7	92.7	92.7
	Min.	65.5	65.5	68.0	68.0	63.0	63.0
	Ave.	74.9 (23)	74.8 (11)	74.8 (23)	74.9 (10)	74.4 (25)	74.5 (11)
40 Lb.	Max.	96.0	83.0	97.0	83.0	91.0	84.0
	Min.	71.0	71.0	72.5	73.0	67.5	67.5
	Ave.	79.5 (3)	77.5 (3)	79.7 (13)	77.3 (5)	78.4 (13)	74.1 (47)

Max. and Min. values are current machine averages.

Ave. is current C.K.P.G. average, number of machines is indicated in parentheses.

SUMMARY (cont.)

C.D. RING CRUSH, lb

		JAN-FEB				MAR-APR				MAY-JUN			
		Total	Recycled			Total	Recycled			Total	Recycled		
26 Lb.	Max.	36.6	36.6			40.5	37.5			40.0	37.5		
	Min.	30.0	30.0			25.2	28.0			31.0	31.0		
	Ave.	33.3	(12) 33.4	(7)		33.4	(16) 32.3	(7)		34.6	(12) 33.4	(6)	
33 Lb.	Max.	61.8	55.3			63.6	56.9			65.2	54.8		
	Min.	40.8	40.8			41.7	41.7			44.2	44.2		
	Ave.	53.3	(13) 49.9	(7)		54.2	(15) 50.1	(7)		55.6	(14) 50.4	(6)	
40 Lb.	Max.	80.8	73.5			86.5	73.5			92.2	72.1		
	Min.	64.5	64.5			62.5	62.5			51.1	64.0		
	Ave.	74.1	(6) 69.0	(2)		75.3	(8) 69.8	(3)		74.4	(10) 69.0	(4)	

STFI, lb/in

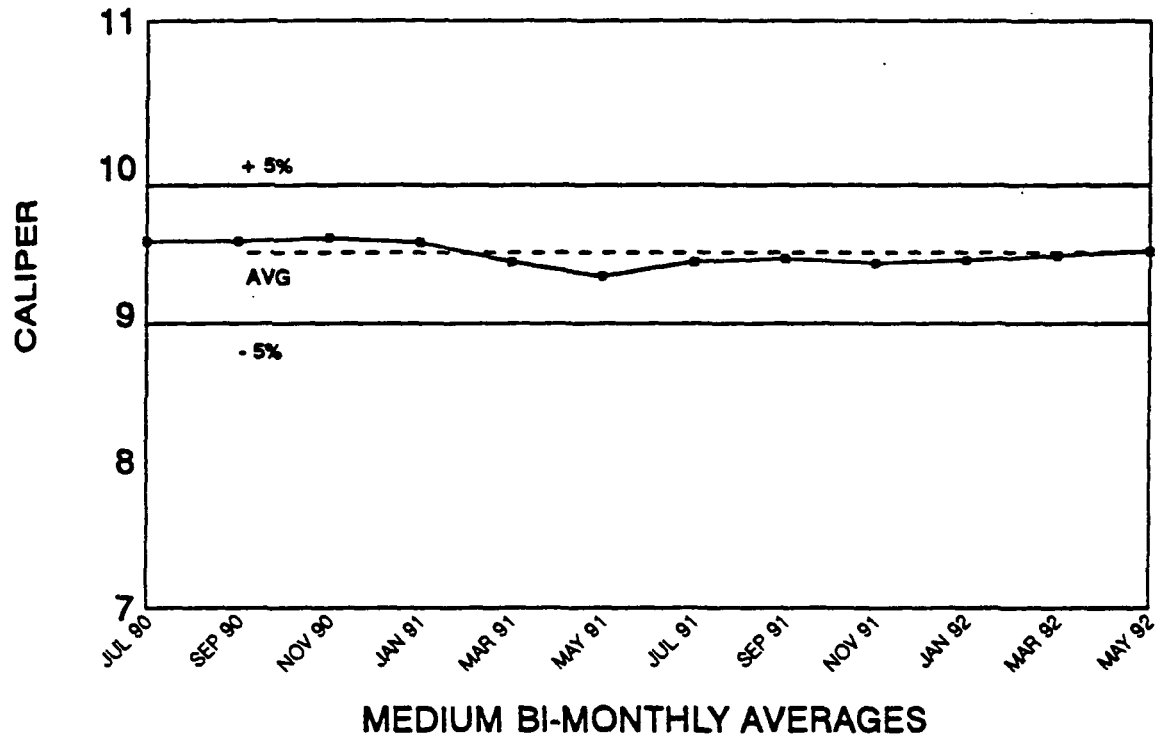
		JAN-FEB				MAR-APR				MAY-JUN			
		Total	Recycled			Total	Recycled			Total	Recycled		
26 Lb.	Max.	15.6	13.3			16.2	12.9			17.2	12.9		
	Min.	11.6	11.6			11.5	11.5			12.0	12.0		
	Ave.	12.8	(16) 12.2	(6)		13.0	(18) 12.2	(7)		13.2	(19) 12.3	(8)	
33 Lb.	Max.	20.5	16.2			20.0	16.4			20.3	16.5		
	Min.	14.0	14.0			14.8	14.8			14.0	14.0		
	Ave.	16.5	(15) 14.9	(5)		16.6	(15) 15.6	(5)		16.7	(17) 15.3	(6)	
40 Lb.	Max.	21.8	20.1			23.0	20.8			24.2	20.7		
	Min.	20.0	20.1			19.9	20.8			19.3	20.7		
	Ave.	20.9	(7) 20.1	(1)		21.4	(7) 20.8	(1)		21.5	(7) 20.7	(1)	

Max. and Min. values are current machine averages.

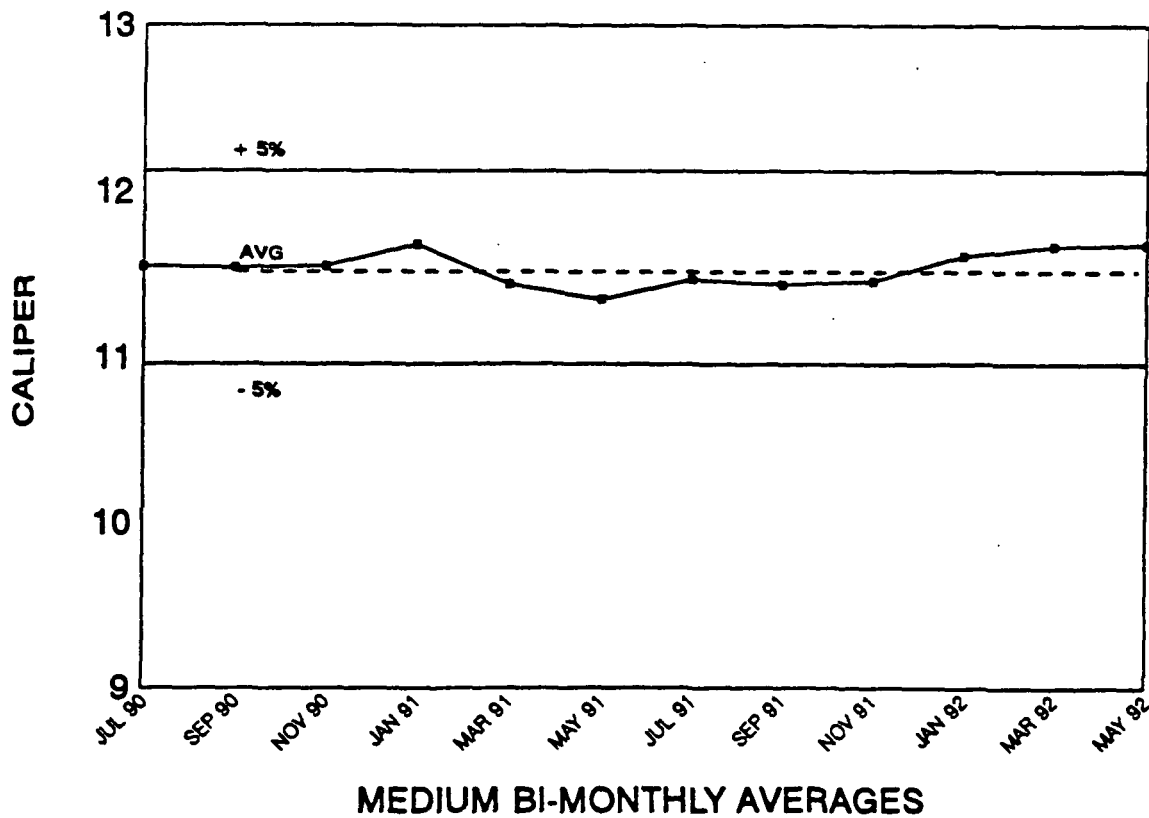
Ave. is current C.K.P.G. average, number of machines is indicated in parentheses.

2 YEAR TREND PLOT FOR CALIPER

→ 26 LB

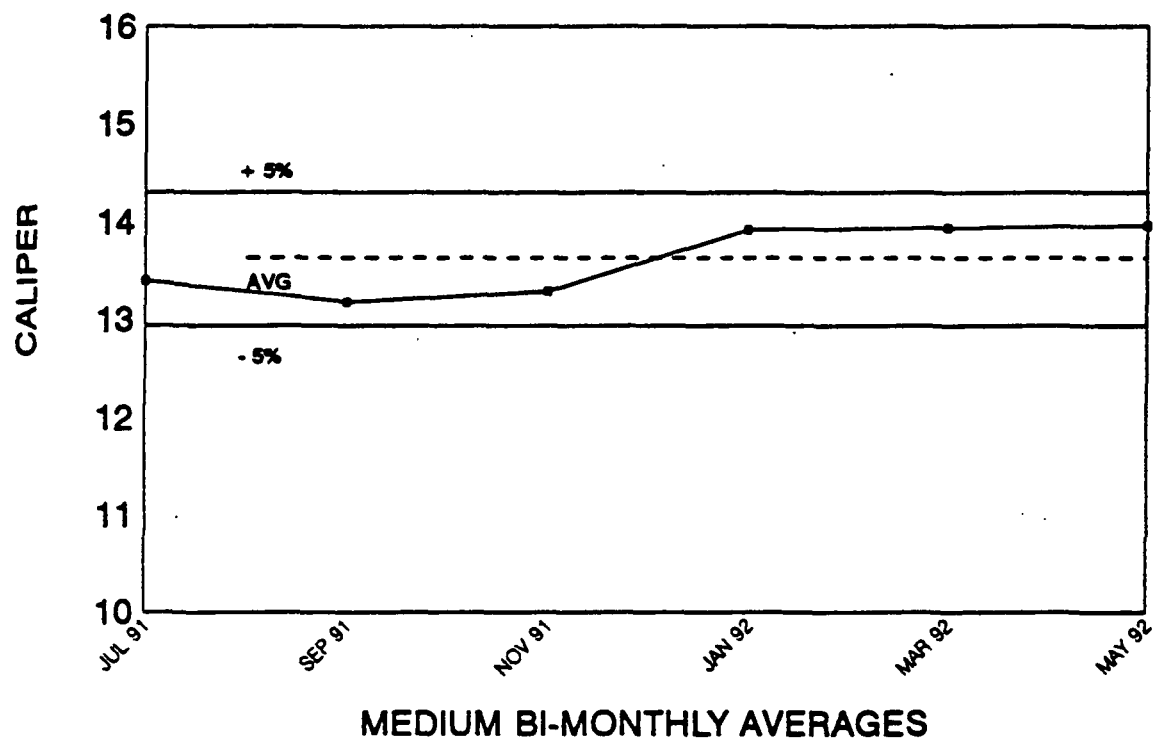


→ 33 LB



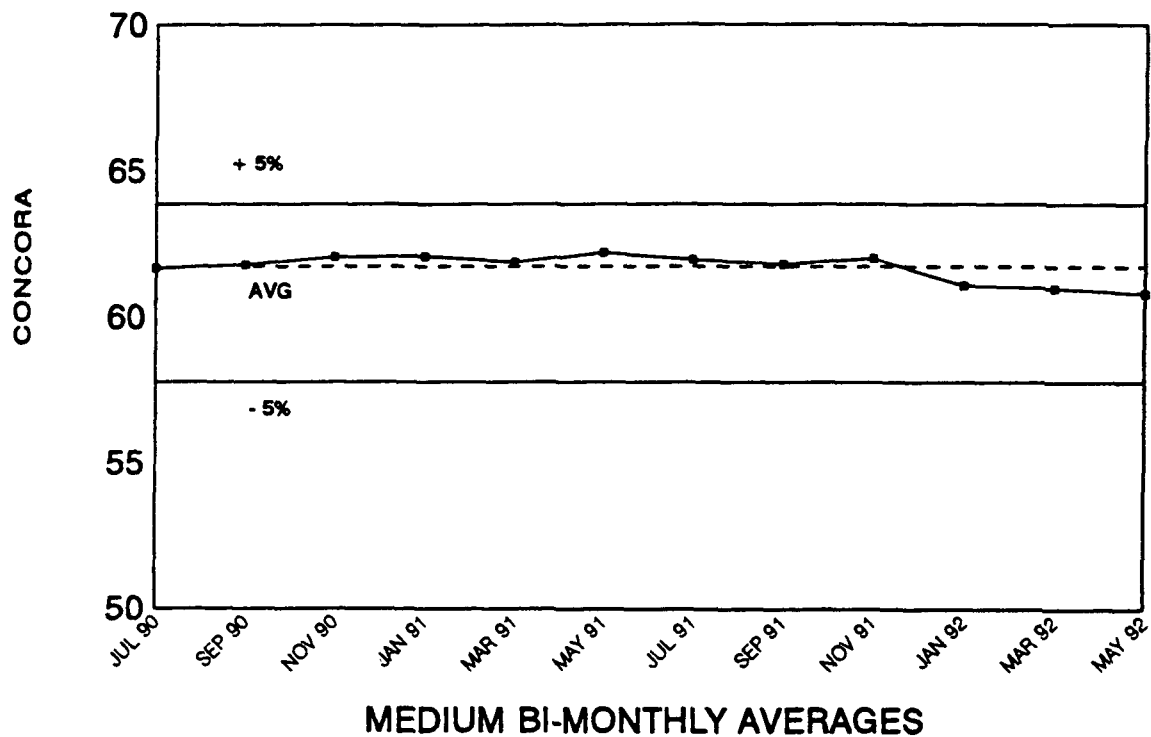
1 YEAR TREND PLOT FOR CALIPER

→ 40 LB

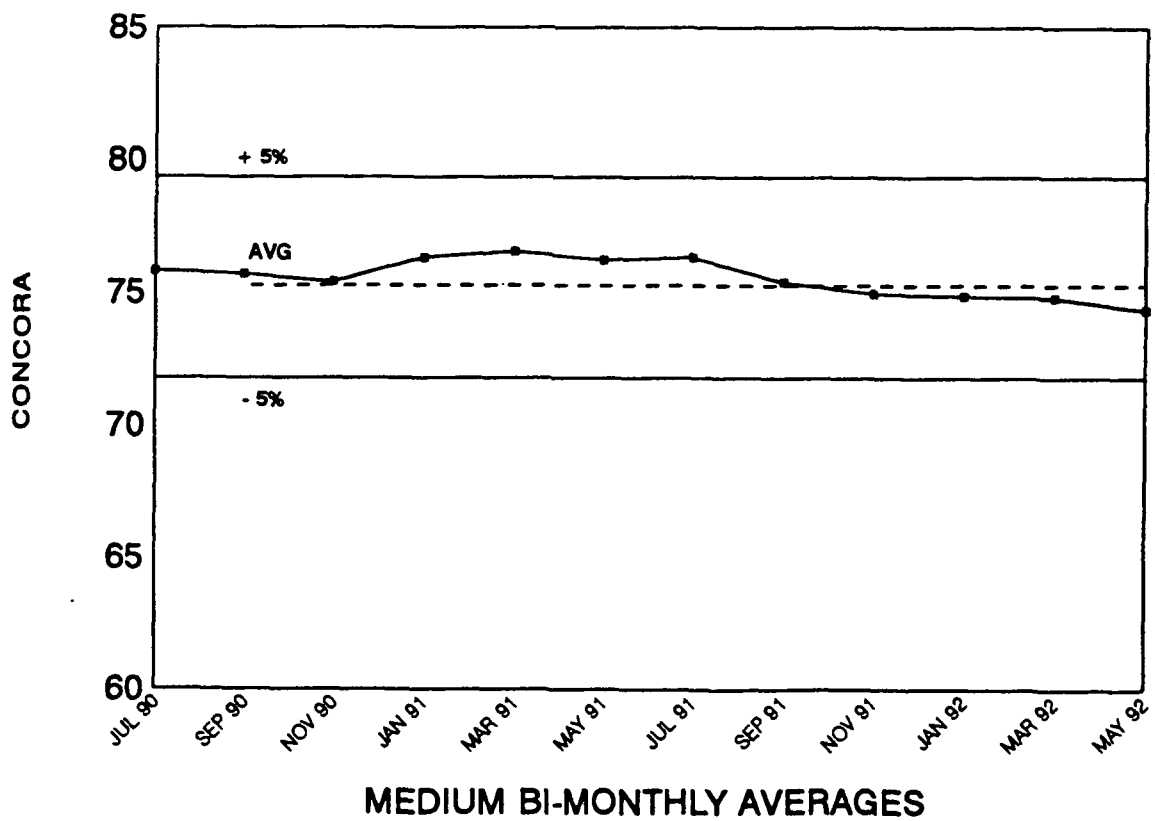


2 YEAR TREND PLOT FOR CONCORA

+ 26 LB

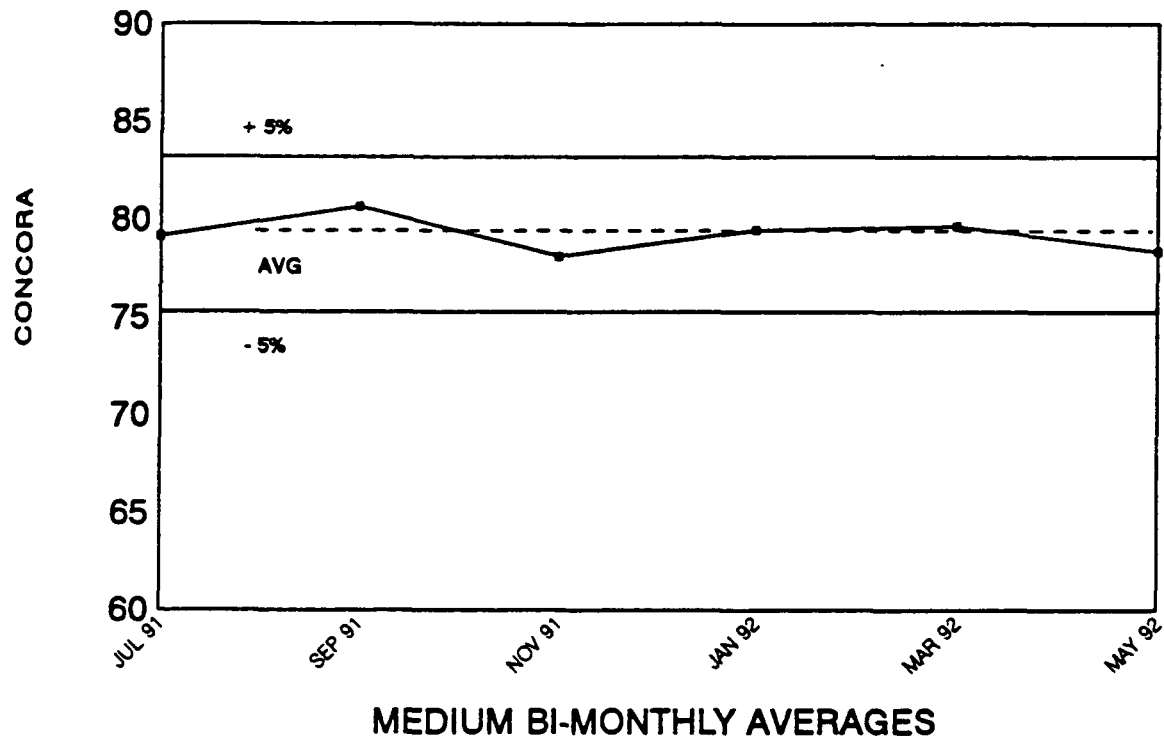


+ 33 LB



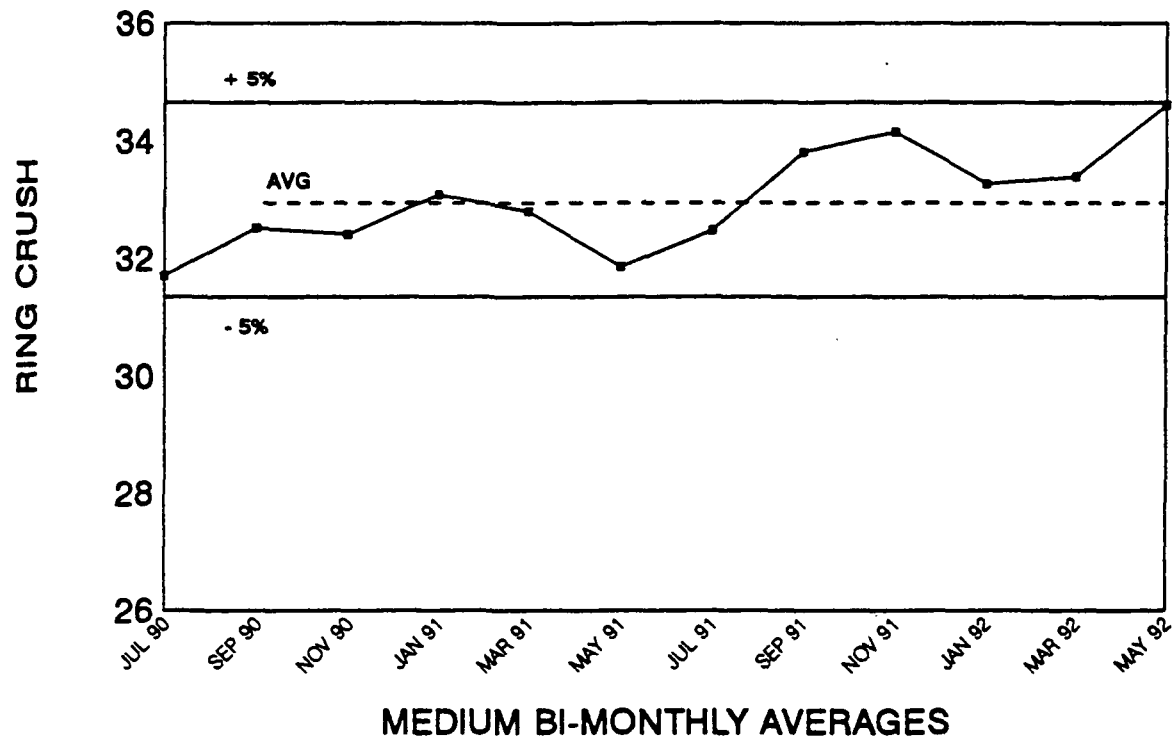
1 YEAR TREND PLOT FOR CONCORA

→ 40 LB

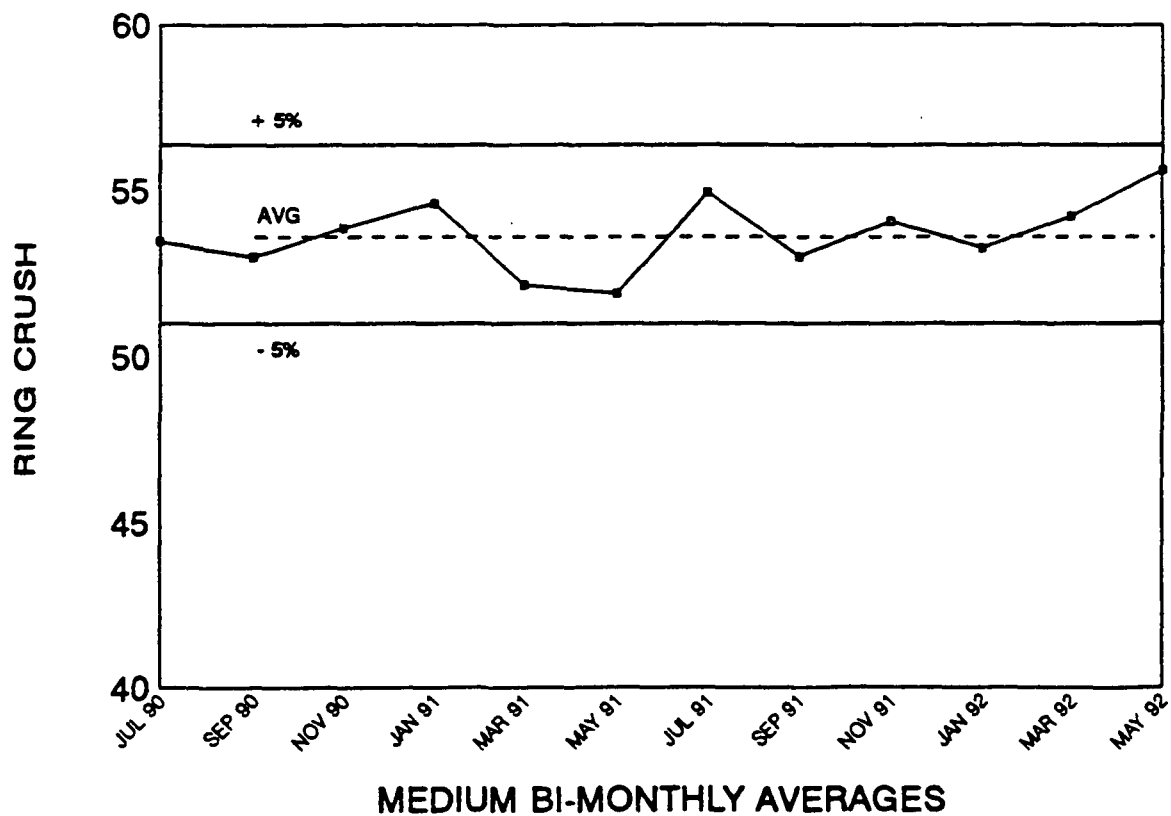


2 YEAR TREND PLOT FOR RING CRUSH

→ 26 LB

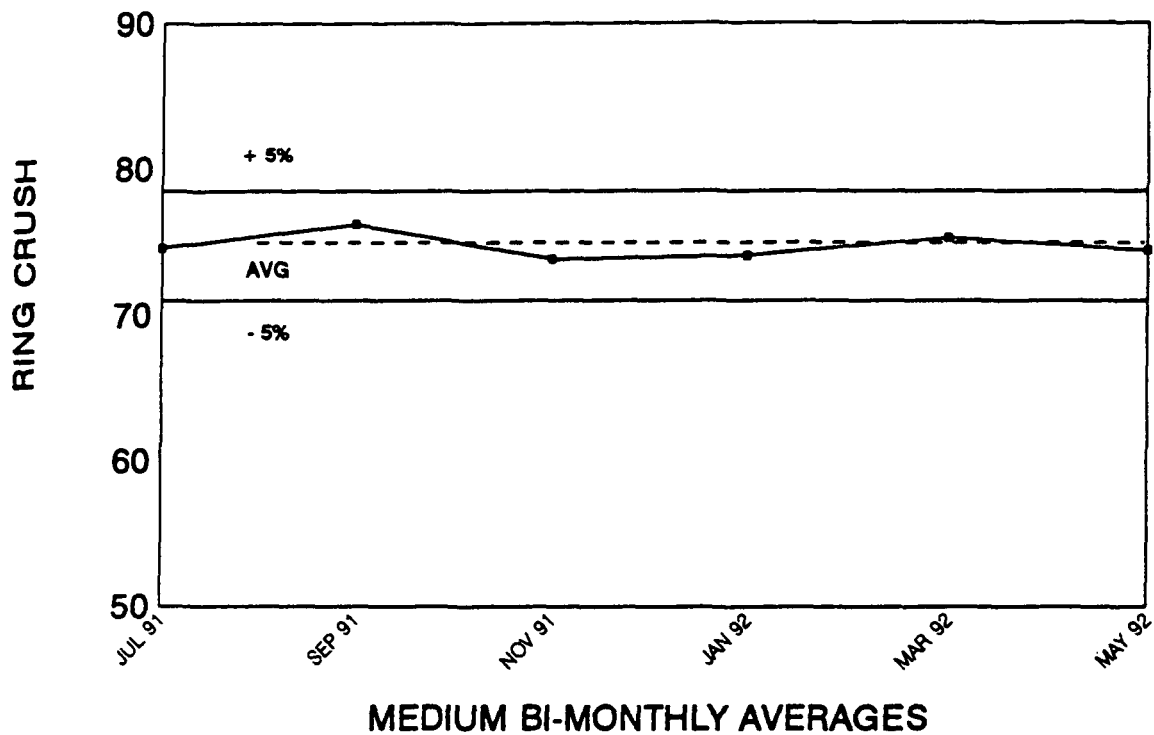


→ 33 LB



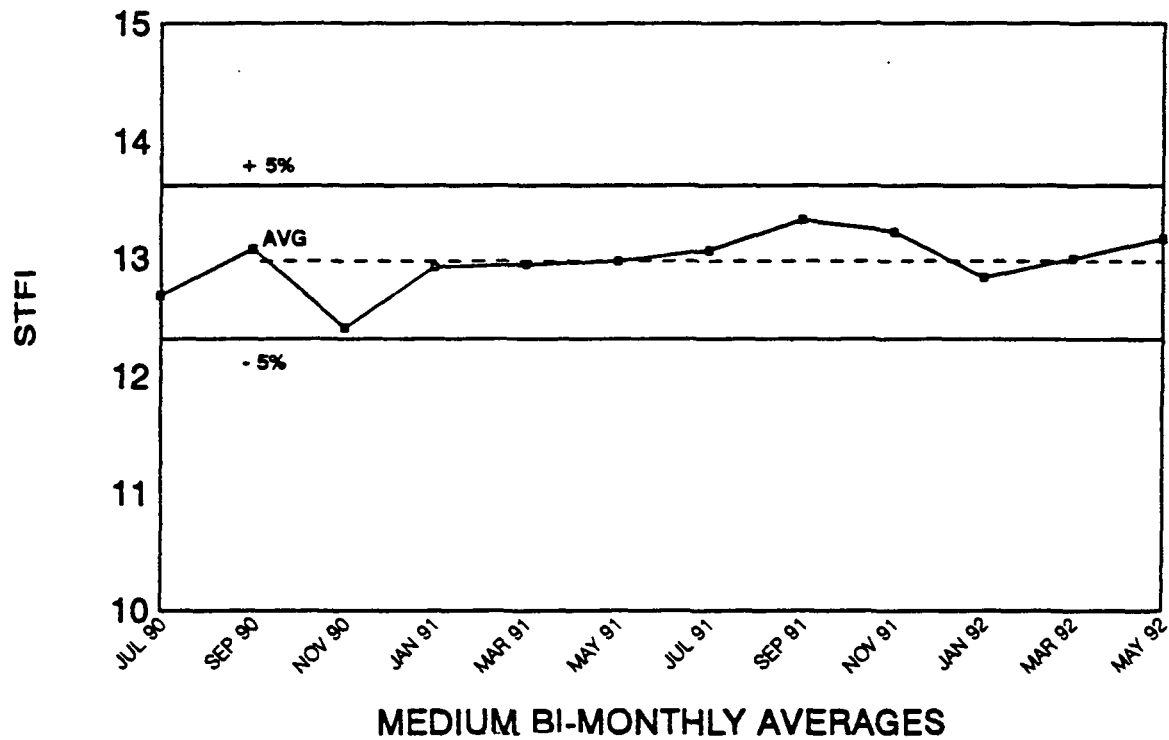
1 YEAR TREND PLOT FOR RING CRUSH

40 LB

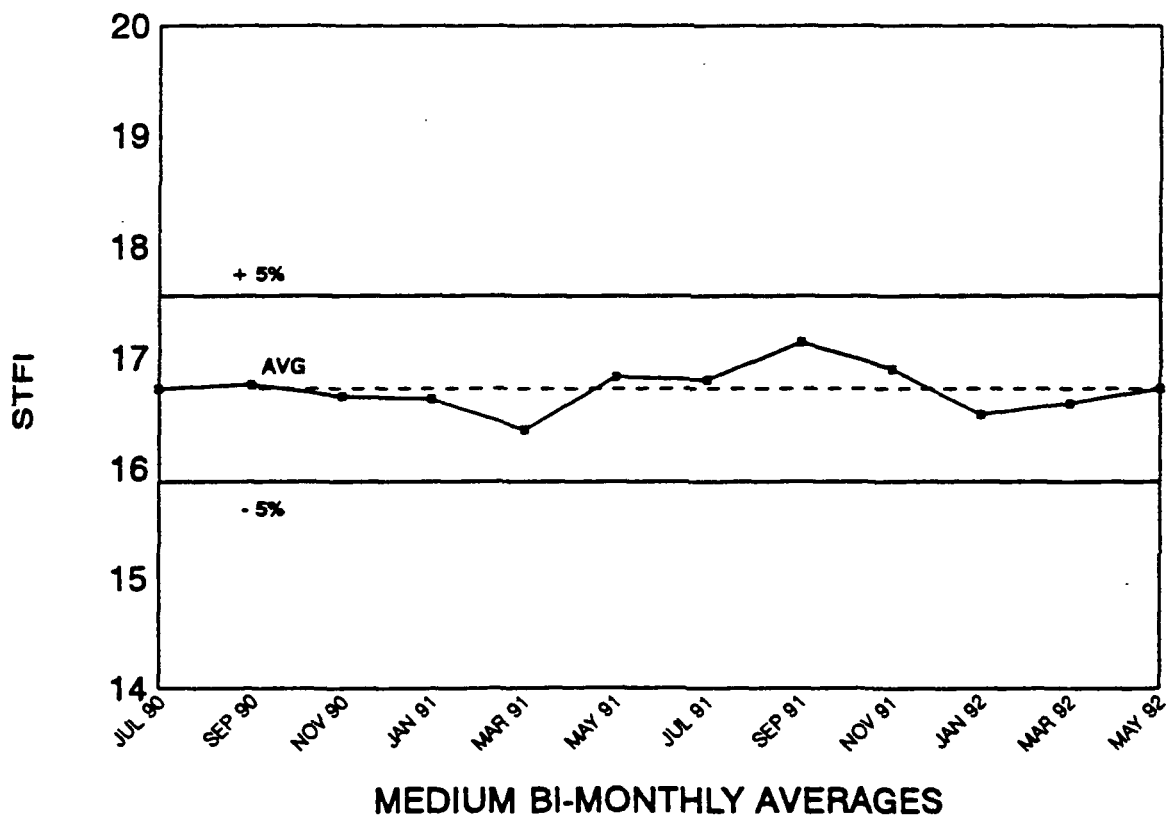


2 YEAR TREND PLOT FOR STFI

→ 26 LB

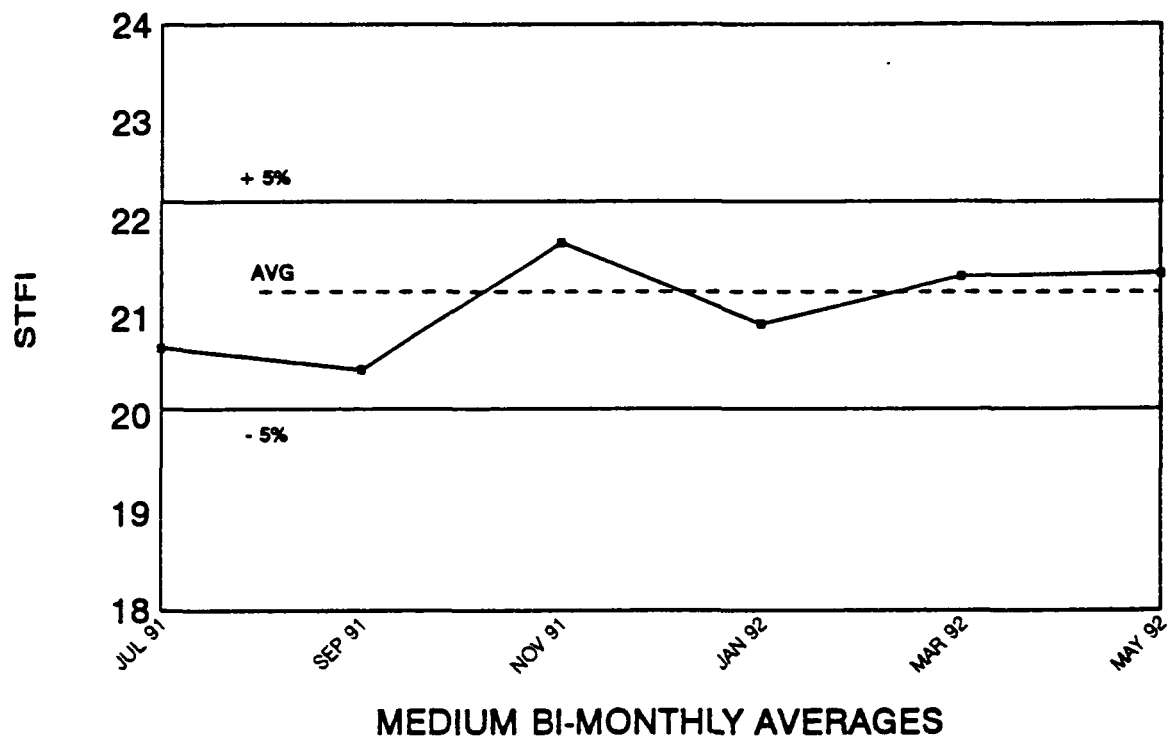


→ 33 LB



1 YEAR TREND PLOT FOR STFI

→ 40 LB



INTRODUCTION

The continuous base-line study (modified) is a compilation of bimonthly averages of mill test data obtained routinely on 26-lb, 33-lb, and 40-lb corrugating medium manufactured in the member mills of C.K.P.G. Mill data are included for moisture content, basis weight, caliper, Concora, C.D. ring crush, and C.D. STFI tests made on the production of individual machines which produced at least 500 tons of one of three major grade weights during a given period.

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

Table Number	Description
I-II-III	Mill Test Averages on 26-lb Corrugating Medium
IV-V-VI	Mill Test Averages on 33-lb Corrugating Medium
VII-VIII-IX	Mill Test Averages on 40-lb Corrugating Medium
X	Data on Conditioning and Testing Environments

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

In the tables, an (R) following a company code indicates a medium manufactured from recycled fibers.

Table I

Averages of Mill Quality Data for JAN-FEB, 1992

26 LB Corrugating Medium

Code	Moisture Content Percent			Adj. Basis Wt. *A Lb/M Sq. Ft.			Caliper Mils		
	Cur. Av.	Cum. Av.	Ind. *B	Cur. Av.	Cum. Av.	Ind. *B	Cur. Av.	Cum. Av.	Ind. *B
A1	7.6	7.7	102.5	26.2	26.1	100.4	8.8	8.8	94.2
A2 (R)	6.6	6.9	89.0	26.9	26.5	103.1	9.2	9.2	98.5
A3 (R)	9.0	8.9	121.4	25.7	26.1	98.5	9.1	9.2	97.5
A4 (R)	8.9	9.0	120.1	25.6	25.9	98.1	9.2	9.3	98.5
A5	7.2	7.3	97.1	26.2	26.0	100.4	9.3	9.5	99.6
B1 (R)	5.7	5.7	76.9	27.6	26.1	105.8	9.8	9.1	104.9
B2 (R)	6.0	5.9	80.9	27.0	26.0	103.5	9.6	9.1	102.8
B3	7.9	7.8	106.6	26.2	26.4	100.4	11.8	11.3	126.4
B4 (R)	6.9	6.9	93.1	26.0	25.7	99.7	9.3	9.4	99.6
B5 (R)	6.9	6.5	93.1	26.3	26.0	100.8	8.3	8.3	88.9
C1	7.8	7.8	105.2	26.1	26.1	100.0	9.5	9.4	101.7
C2	7.8	7.8	105.2	26.2	26.0	100.4	9.9	9.6	106.0
C3	5.7		76.9	26.6		102.0	9.9		106.0
C4 (R)	6.9	7.0	93.1	27.0	26.6	103.5	10.8	11.2	115.7
C5 (R)	7.1	7.0	95.8	28.0	26.4	107.3	10.3	10.8	110.3
D4 (R)	7.3	7.4	98.5	26.6	26.3	102.0			
D5 (R)	7.9	8.0	106.6	26.9	26.5	103.1			
E1	7.6	7.6	102.5	26.2	26.1	100.4	10.7	11.2	114.6
E2	7.4	7.2	99.8	26.0	26.0	99.7	8.5	8.6	91.0
E3	6.7	7.2	90.4	26.3	26.0	100.8	7.7	7.7	82.5
E4		6.5			26.0			8.5	
E5	7.3	6.9	98.5	26.1	26.0	100.0	7.5	7.4	80.3
F2	8.3	7.9	112.0	25.9	26.0	99.3	8.7	8.6	93.2
F4	7.2	7.2	97.1	25.7	25.9	98.5	9.0	9.1	96.4
F5	7.0	7.0	94.4	26.3	26.1	100.8	8.6	8.7	92.1
G1 (R)	6.5	6.4	87.7	26.2	26.1	100.4	8.5	8.4	91.0
G3	8.2	7.9	110.6	25.8	25.9	98.9	9.6	9.7	102.8
G4	7.2	7.2	97.1	26.2	26.0	100.4	9.9	10.1	106.0
G5 (R)	8.6	8.6	116.0	25.9	26.2	99.3	10.3	10.4	110.3
H1	7.2	7.3	97.1	26.1	25.9	100.0	9.7	9.8	103.9
H2 (R)	5.9	7.8	79.6	26.8	26.0	102.7	9.5	9.4	101.7
H3	9.6	9.5	129.5	25.5	25.9	97.7	8.8	9.0	94.2
CKPG	7.4	7.4	99.2	26.3	26.1	100.9	9.4	9.3	100.4
(R)	7.2			26.6			9.5		

Notes A and B are given in the appendix.

Table I (Cont)

Averages of Mill Quality Data for JAN-FEB, 1992

26 LB Corrugating Medium

Code	Concora Lb.			CD Ring Crush Lb.			CD STFI Lb./In.		
	Cur. Av.	Cum. Av.	Ind. *B	Cur. Av.	Cum. Av.	Ind. *B	Cur. Av.	Cum. Av.	Ind. *B
A1	58.5	60.5	93.9		33.8		12.0	12.1	92.0
A2 (R)	59.4	62.1	95.4	31.2	32.5	95.8	11.6	11.8	88.9
A3 (R)	60.5	61.3	97.2				12.6	12.1	96.6
A4 (R)	59.0	57.6	94.8				11.7	12.5	89.7
A5	57.5	58.1	92.3	33.0	32.0	101.3	12.4	12.5	95.0
B1 (R)	56.0	58.8	89.9		26.0		12.0		92.0
B2 (R)	55.8	59.2	89.6		25.5		11.8		90.4
B3	61.0	61.4	98.0	36.0	35.8	110.5	12.7	12.1	97.3
B4 (R)	61.3	61.1	98.4	30.8	26.5	94.6			
B5 (R)	62.4	63.9	100.2						
C1	56.5	57.8	90.7				13.8	13.2	105.7
C2	56.5	57.3	90.7				13.0	13.2	99.6
C3	59.8		96.0						
C4 (R)	59.3	60.0	95.2						
C5 (R)	57.6	59.6	92.5						
D4 (R)	56.5	57.5	90.7	30.0	29.3	92.1		12.3	
D5 (R)	61.0	60.7	98.0	36.5	30.9	112.1	13.3	12.3	101.9
E1	65.5	66.1	105.2	35.6	37.6	109.3			
E2	55.5	59.9	89.1	31.0	32.6	95.2	13.0	13.4	99.6
E3	72.5	76.5	116.4				13.0	14.5	99.6
E4		65.9						16.5	
E5	76.5	74.9	122.9				15.6	15.2	119.5
F2	67.5	67.0	108.4				13.0	12.3	99.6
F4	63.0	60.5	101.2		37.3		14.0	13.3	107.3
F5	52.7	58.3	84.6	30.0	31.0	92.1			
G1 (R)	58.1	59.6	93.3	36.5	35.7	112.1		13.5	
G3	61.3	61.9	98.4						
G4	65.1	66.0	104.5		41.8				
G5 (R)	63.1	63.1	101.3	32.0	32.8	98.3			
H1		61.9						12.1	
H2 (R)	66.0	65.3	106.0	36.6		112.4			
H3	67.0	66.5	107.6						
CKPG	61.1	62.3	98.1	33.3	32.6	102.1	12.8	13.1	98.4
(R)	59.7			33.4			12.2		

Note B is given in the appendix.

Table II

Averages of Mill Quality Data for MAR-APR, 1992

26 LB Corrugating Medium

Code	Moisture Content Percent			Adj. Basis Wt. *A Lb/M Sq. Ft.			Caliper Mils		
	Cur. Av.	Cum. Av.	Ind. *B	Cur. Av.	Cum. Av.	Ind. *B	Cur. Av.	Cum. Av.	Ind. *B
A1	7.6	7.7	103.1	26.2	26.1	100.3	9.2	8.8	98.4
A2 (R)	6.3	6.9	85.5	26.6	26.5	101.8	9.4	9.2	100.5
A3 (R)	9.1	8.9	123.5	25.6	26.0	98.0	9.1	9.2	97.3
A4 (R)		8.9			25.9			9.2	
A5	7.3	7.3	99.1	26.1	26.0	99.9	9.1	9.4	97.3
B1 (R)	5.5	5.7	74.6	27.7	26.4	106.0	10.0	9.3	107.0
B2 (R)	5.9	6.0	80.1	27.6	26.3	105.6	9.7	9.3	103.7
B3	7.8	7.8	105.9	26.2	26.3	100.3	9.9	11.4	105.9
B4 (R)	6.9	6.9	93.6	26.0	25.7	99.5	9.3	9.4	99.5
B5 (R)	7.0	6.7	95.0	26.1	26.0	99.9		8.3	
C1	7.8	7.8	105.9	26.1	26.1	99.9	9.4	9.4	100.5
C2	7.8	7.8	105.9	26.1	26.1	99.9	9.6	9.7	102.7
C3	5.8	5.7	78.7	26.6	26.0	101.8	10.2	9.9	109.1
C4 (R)	6.9	7.0	93.6	27.1	26.7	103.7	11.0	11.1	117.6
C5 (R)	7.1	7.1	96.4	26.9	26.7	103.0	10.6	10.7	113.4
D4 (R)	7.4	7.4	100.4	26.5	26.4	101.4			
D5 (R)	8.5	8.0	115.4	26.4	26.6	101.0			
E1	7.6	7.6	103.1	26.2	26.1	100.3	10.8	11.0	115.5
E2	7.3	7.2	99.1	26.1	26.0	99.9	8.7	8.6	93.0
E3		7.0			26.0			7.7	
E4	6.3	6.5	85.5	26.4	26.0	101.0	8.3	8.5	88.8
E5	7.4	7.0	100.4	26.1	26.0	99.9	7.3	7.5	78.1
F2	8.0	8.0	108.6	25.9	26.0	99.1	8.5	8.6	90.9
F4	7.3	7.2	99.1	26.0	25.8	99.5	9.0	9.1	96.3
F5	6.8	7.1	92.3	26.3	26.2	100.7	8.7	8.6	93.0
G1 (R)	6.6	6.5	89.6	26.4	26.1	101.0	8.4	8.4	89.8
G3	8.4	8.0	114.0	25.7	25.9	98.4	9.5	9.7	101.6
G4	7.2	7.2	97.7	26.1	26.0	99.9	10.1	10.0	108.0
G5 (R)	8.5	8.6	115.4	25.8	26.2	98.7	10.2	10.4	109.1
H1	7.3	7.3	99.1	26.0	25.9	99.5	9.6	9.8	102.7
H2 (R)	5.9	7.5	80.1	26.5	26.1	101.4	9.4	9.4	100.5
H3	9.4	9.5	127.6	25.5	26.0	97.6	8.8	8.9	94.1
CKPG (R)	7.3 7.0	7.4	98.9	26.3 26.6	26.1	100.6	9.4 9.7	9.4	100.5

Notes A and B are given in the appendix.

Table II (Cont)

Averages of Mill Quality Data for MAR-APR, 1992

26 LB Corrugating Medium

Code	Concora Lb.			CD Ring Crush Lb.			CD STFI Lb./In.		
	Cur. Av.	Cum. Av.	Ind. *B	Cur. Av.	Cum. Av.	Ind. *B	Cur. Av.	Cum. Av.	Ind. *B
A1	59.0	60.2	95.3		34.0		12.0	12.1	92.3
A2 (R)	58.7	61.4	94.9	31.1	32.2	93.5	11.5	11.8	88.5
A3 (R)	61.0	61.1	98.6				12.3	12.2	94.7
A4 (R)		57.7						12.4	
A5	57.5	58.0	92.9	32.5	32.3	97.7	12.7	12.4	97.7
B1 (R)	54.9	57.9	88.7		26.0		12.3	12.0	94.7
B2 (R)	55.5	58.2	89.7		25.5		12.1	11.8	93.1
B3	62.0	61.8	100.2	36.0	35.9	108.2	13.0	12.7	100.0
B4 (R)	60.5	61.2	97.8	29.8	27.3	89.6	11.9		91.6
B5 (R)	63.2	63.3	102.1						
C1	57.0	57.7	92.1				13.6	13.3	104.7
C2	57.0	57.2	92.1				13.1	13.1	100.8
C3	63.5	59.8	102.6						
C4 (R)	58.7	60.2	94.9						
C5 (R)	57.6	59.4	93.1						
D4 (R)	57.0	57.3	92.1	28.0	29.3	84.2	12.2	12.4	93.9
D5 (R)	60.0	61.0	97.0	31.5	32.2	94.7	12.9	12.7	99.3
E1	67.8	65.8	109.6	37.1	37.2	111.5			
E2	59.5	58.9	96.2	33.0	31.9	99.2	13.6	13.3	104.7
E3		75.2						14.0	
E4	65.0	66.1	105.0				16.1	16.6	123.9
E5	74.0	75.3	119.6				16.2	15.3	124.7
F2	68.5	66.8	110.7				13.0	12.5	100.0
F4	60.0	61.0	97.0	35.4	37.6	106.4	13.5	13.4	103.9
F5	49.9	57.1	80.6	30.5	31.2	91.7			
G1 (R)	59.0	59.2	95.3	36.0	35.5	108.2		13.6	
G3	62.1	61.5	100.4	25.2		75.8			
G4	64.3	65.3	103.9	38.1	41.8	114.5			
G5 (R)	62.5	63.0	101.0	32.0	32.6	96.2			
H1	63.5	59.8	102.6	40.5	39.7	121.7	12.0	12.3	92.3
H2 (R)	62.9	65.6	101.6	37.5	36.6	112.7			
H3	67.5	66.2	109.1						
CKPG (R)	61.0 59.3	61.9	98.6	33.4 32.3	33.3	100.4	13.0 12.2	13.0	100.0

Note B is given in the appendix.

Table III

Averages of Mill Quality Data for MAY-JUN, 1992

26 LB Corrugating Medium

Code	Moisture Content Percent			Adj. Basis Wt. *A Lb/M Sq. Ft.			Caliper Mils		
	Cur. Av.	Cum. Av.	Ind. *B	Cur. Av.	Cum. Av.	Ind. *B	Cur. Av.	Cum. Av.	Ind. *B
A1	7.6	7.6	103.3	26.2	26.1	100.2	9.2	8.9	98.3
A2 (R)	6.7	6.8	91.0	26.4	26.5	100.9	9.1	9.3	97.2
A3 (R)	9.3	9.0	126.4	26.1	26.1	99.8	9.1	9.1	97.2
A4 (R)	9.0	8.8	122.3	25.6	25.9	97.9	9.3	9.2	99.4
A5	7.2	7.3	97.8	26.1	26.0	99.8	9.0	9.3	96.2
B1 (R)	5.5	5.7	74.7	27.7	26.7	105.9	9.8	9.6	104.7
B2 (R)	6.0	5.9	81.5	27.5	26.7	105.1	9.6	9.5	102.6
B3	7.9	7.8	107.3	26.2	26.3	100.2	10.9	11.1	116.5
B4 (R)	7.0	6.9	95.1	25.9	25.7	99.0	9.5	9.4	101.5
B5 (R)	7.0	6.8	95.1	26.2	26.0	100.2		8.3	
C1	7.8	7.8	106.0	26.0	26.1	99.4	9.3	9.4	99.4
C2	7.8	7.8	106.0	26.0	26.1	99.4	9.0	9.7	96.2
C3	5.9	5.8	80.2	26.6	26.0	101.7	10.2	10.1	109.0
C4 (R)	7.0	7.0	95.1	27.4	26.7	104.8	11.0	11.1	117.5
C5 (R)	7.0	7.1	95.1	26.9	26.8	102.9	10.6	10.7	113.2
D4 (R)	7.4	7.4	100.6	26.5	26.4	101.3			
D5 (R)	9.0	8.0	122.3	26.3	26.6	100.6			
E1	7.6	7.6	103.3	26.2	26.1	100.2	10.9	11.0	116.5
E2	7.0	7.3	95.1	26.1	26.0	99.8	8.3	8.6	88.7
E3		7.0			26.0			7.7	
E4	6.5	6.5	88.3	26.4	26.0	100.9	8.3	8.5	88.7
E5	7.9	7.1	107.3	26.0	26.0	99.4	8.1	7.5	86.5
F2	8.4	8.0	114.1	25.8	26.0	98.6	8.7	8.6	92.9
F4	7.3	7.2	99.2	26.0	25.8	99.4	8.9	9.1	95.1
F5		7.0			26.2			8.7	
G1 (R)	6.7	6.5	91.0	26.2	26.0	100.2	7.9	8.5	84.4
G3	8.3	8.0	112.8	25.8	25.9	98.6	9.6	9.6	102.6
G4	7.2	7.2	97.8	26.1	26.0	99.8	10.2	10.0	109.0
G5 (R)	8.5	8.6	115.5	25.7	26.2	98.3	10.3	10.3	110.0
H1	7.4	7.3	100.6	26.0	25.9	99.4	9.6	9.7	102.6
H2 (R)	5.8	7.2	78.8	26.6	26.1	101.7	9.5	9.4	101.5
H3	9.2	9.5	125.0	25.4	26.0	97.1	8.7	8.9	92.9
CKPG	7.4	7.4	101.0	26.3	26.2	100.4	9.4	9.4	100.7
(R)	7.3			26.5			9.6		

Notes A and B are given in the appendix.

Table III (Cont)

Averages of Mill Quality Data for MAY-JUN, 1992

26 LB Corrugating Medium

Code	Concora Lb.			CD Ring Crush Lb.			CD STFI Lb/In.		
	Cur. Av.	Cum. Av.	Ind. *B	Cur. Av.	Cum. Av.	Ind. *B	Cur. Av.	Cum. Av.	Ind. *B
A1	61.5	59.9	99.4				12.0	12.1	92.3
A2 (R)	61.0	60.8	98.6	33.0	32.0	99.6	12.0	11.7	92.3
A3 (R)	61.0	60.9	98.6				12.4	12.2	95.4
A4 (R)	57.7		93.3				12.2	12.4	93.9
A5	57.5	57.9	93.0	32.0	32.5	96.5	12.9	12.5	99.3
B1 (R)	55.6	56.6	89.9		25.7		12.2	12.2	93.9
B2 (R)	55.4	57.1	89.6		25.6		12.0	12.0	92.3
B3	61.0	61.8	98.6	34.0	35.9	102.6	12.6	12.8	97.0
B4 (R)	59.8	61.0	96.7		27.9		12.0	11.9	92.3
B5 (R)	63.0	62.9	101.9						
C1	58.0	57.7	93.8				13.5	13.4	103.9
C2	58.0	57.1	93.8				14.4	13.1	110.8
C3	62.3	61.7	100.7						
C4 (R)	59.7	60.0	96.5						
C5 (R)	56.0	59.0	90.5						
D4 (R)	57.0	57.0	92.2	31.0	28.8	93.5	12.9	12.2	99.3
D5 (R)	60.0	60.9	97.0	31.0	32.2	93.5	12.8	12.9	98.5
E1	66.3	66.3	107.2	37.4	37.0	112.8			
E2	60.0	58.8	97.0	35.0	31.9	105.6	13.9	13.3	107.0
E3		75.2						14.0	
E4	66.0	65.7	106.7				17.2	16.6	132.4
E5	63.5	75.8	102.7				15.5	15.6	119.3
F2	65.0	67.0	105.1				12.9	12.6	99.3
F4	63.0	60.8	101.9	36.6	37.6	110.4	13.8	13.5	106.2
F5		55.4			31.3				
G1 (R)	55.9	59.2	90.4	35.7	35.7	107.7		13.7	
G3	62.2	61.3	100.6		35.2				
G4	64.3	64.8	104.0		38.1				
G5 (R)	63.0	62.9	101.9	32.0	32.3	96.5			
H1	63.0	60.1	101.9	40.0	39.8	120.7	13.0	12.2	100.0
H2 (R)	62.0	65.3	100.2	37.5	37.1	113.1			
H3	66.0	66.5	106.7						
CKPG (R)	60.8 59.3	61.9	98.3	34.6 33.4	33.1	104.4	13.2 12.3	13.0	101.3

Note B is given in the appendix.

Table IV

Averages of Mill Quality Data for JAN-FEB, 1992

33 LB Corrugating Medium

Code	Moisture Content Percent			Adj. Basis Wt. *A Lb/M Sq. Ft.			Caliper Mils		
	Cur. Av.	Cum. Av.	Ind. *B	Cur. Av.	Cum. Av.	Ind. *B	Cur. Av.	Cum. Av.	Ind. *B
A1	8.1	8.1	108.4	32.9	33.1	99.8	10.8	10.8	94.1
A2 (R)	6.8	7.1	91.0	33.5	33.0	101.6	11.3	10.9	98.5
A3 (R)	8.7	8.5	116.5	32.6	32.9	98.9	11.3	11.5	98.5
A5	7.2	7.3	96.4	33.3	32.9	101.0	11.5	11.7	100.2
B1 (R)	5.3	6.0	71.0	35.6	33.1	108.0	12.3	11.1	107.2
B2 (R)	6.5	6.5	87.0	35.1	33.1	106.5	12.6	11.4	109.8
B3	7.8	7.9	104.4	33.3	33.3	101.0	14.0	13.3	122.0
B4 (R)	6.6	6.8	88.4	33.1	32.6	100.4	11.0	11.0	95.9
B5 (R)	7.1	6.5	95.1	33.3	32.9	101.0	9.8	10.1	85.4
C1	7.8	7.8	104.4	33.0	33.0	100.1	11.9	11.9	103.7
C3	6.0		80.3	33.5		101.6	12.6		109.8
C4 (R)	6.9	6.8	92.4	34.1	33.9	103.4	13.5	13.2	117.7
C5 (R)	7.1	6.9	95.1	33.4	33.2	101.3	12.4	12.6	108.1
D5 (R)	8.6	8.4	115.1	32.9	33.1	99.8			
E1	8.2	8.3	109.8	33.0	33.0	100.1	13.0	13.4	113.3
E2	7.4	7.2	99.1	32.9	33.0	99.8	10.7	10.6	93.3
E4		6.5			33.0			11.1	
E5	7.5	6.9	100.4	33.1	33.0	100.4	9.4	9.4	81.9
F2	8.5	8.0	113.8	32.7	33.0	99.2	11.5	11.2	100.2
F4	7.3	7.3	97.7	33.0	32.8	100.1	11.4	11.4	99.4
G1 (R)	6.9	6.9	92.4	32.9	32.6	99.8	10.6	10.4	92.4
G3	8.1	8.0	108.4	32.9	32.9	99.8	11.7	11.8	102.0
G4		7.4			32.9			12.3	
G5 (R)	8.7	8.6	116.5	32.4	32.8	98.3	10.4	10.5	90.7
H1	7.4	7.5	99.1	32.9	32.9	99.8	12.0	12.5	104.6
H2 (R)	5.2	7.8	69.6	34.0	32.4	103.1	11.8	11.5	102.9
H3	9.5	9.2	127.2	32.3	32.9	98.0	11.2	11.2	97.6
CKPG	7.4	7.5	99.2	33.3	33.0	100.9	11.6	11.5	101.2
(R)	7.0			33.6			11.5		

Notes A and B are given in the appendix.

Table IV (Cont)

Averages of Mill Quality Data for JAN-FEB, 1992

33 LB Corrugating Medium

Code	Concora Lb.			CD Ring Crush Lb.			CD STFI Lb/In.		
	Cur. Av.	Cum. Av.	Ind. *B	Cur. Av.	Cum. Av.	Ind. *B	Cur. Av.	Cum. Av.	Ind. *B
A1	76.0	79.8	100.5		51.8		16.0	16.4	94.8
A2 (R)	71.6	75.5	94.7	51.8	52.9	99.3	16.2	16.3	95.9
A3 (R)	74.0	74.7	97.8				15.8	15.6	93.6
A5	69.5	71.8	91.9	51.5	48.7	98.7	16.4	17.1	97.1
B1 (R)	67.1	75.8	88.7		38.1		14.3		84.7
B2 (R)	69.1	74.5	91.4		43.9		14.0		82.9
B3	79.0	71.9	104.5	61.0	57.0	116.9	17.4	16.1	103.0
B4 (R)	79.0	75.0	104.5	46.6	40.4	89.3			
B5 (R)		74.1		40.8	46.3	78.2			
C1	68.0	71.8	89.9				17.5	17.2	103.6
C3							18.6		110.2
C4 (R)	87.3	85.7	115.4						
C5 (R)	88.8	87.8	117.4						
D5 (R)	68.5	69.7	90.6	49.0	47.3	93.9	14.0	15.3	82.9
E1	74.8	76.7	98.9	58.8	59.0	112.7			
E2	78.5	81.3	103.8	48.5	50.1	92.9	17.3	17.6	102.5
E4		70.0						19.3	
E5	88.0	82.3	116.4				20.5	19.0	121.4
F2	67.5	67.8	89.2				15.4	15.3	91.2
F4	71.7	75.0	94.8		57.6		17.5	17.4	103.6
G1 (R)	65.5	70.6	86.6	55.0	52.7	105.4		17.0	
G3	77.0	79.8	101.8	61.8	58.7	118.4			
G4		75.2			62.9				
G5 (R)	76.8	77.3	101.5	51.0	52.8	97.7			
H1	71.5	70.5	94.5	61.5	61.8	117.8	16.5	16.8	97.7
H2 (R)	74.9		99.0	55.3	57.4	106.0			
H3	78.0	76.2	103.1						
CKPG	74.9	75.6	99.0	53.3	52.2	102.1	16.5	16.9	97.7
(R)	74.8			49.9			14.9		

Note B is given in the appendix.

Table V

Averages of Mill Quality Data for MAR-APR 1992

33 LB Corrugating Medium

Code	Moisture Content Percent			Adj. Basis Wt. *A Lb/M Sq. Ft.			Caliper Mils		
	Cur. Av.	Cum. Av.	Ind. *B	Cur. Av.	Cum. Av.	Ind. *B	Cur. Av.	Cum. Av.	Ind. *B
A1	8.2	8.1	110.8	33.0	33.1	100.0	11.2	10.8	97.2
A2 (R)	6.7	7.1	90.5	33.4	33.0	101.2	11.4	11.0	98.9
A3 (R)	9.0	8.5	121.6	32.5	32.9	98.5	10.9	11.4	94.6
A5	7.3	7.3	98.6	33.3	33.0	100.9	11.2	11.6	97.2
B1 (R)		5.7			33.6			11.5	
B2 (R)	6.5	6.5	87.8	35.1	33.6	106.3	12.8	11.7	111.1
B3	7.9	7.8	106.8	33.2	33.3	100.6	13.5	13.4	117.2
B4 (R)	6.9	6.8	93.2	33.0	32.6	100.0	11.0	11.0	95.5
B5 (R)	7.2	6.7	97.3	33.0	32.9	100.0		10.0	
C1	7.8	7.8	105.4	33.0	33.0	100.0	11.9	11.9	103.3
C3	6.0	6.0	81.1	33.4	32.9	101.2	12.7	12.6	110.2
C4 (R)	6.9	6.8	93.2	34.0	33.9	103.0	13.5	13.3	117.2
C5 (R)	7.0	7.0	94.6	33.6	33.2	101.8	12.3	12.5	106.7
D5 (R)	8.4	8.4	113.5	33.0	33.1	100.0			
E1	8.2	8.2	110.8	33.0	33.0	100.0	13.1	13.2	113.7
E2	7.3	7.2	98.6	33.1	33.0	100.3	10.7	10.6	92.9
E4		6.5			33.0			11.1	
E5	7.2	7.0	97.3	33.2	33.0	100.6	9.5	9.4	82.4
F2	8.4	8.1	113.5	32.8	33.0	99.4	11.2	11.3	97.2
F4	7.4	7.3	100.0	31.5	32.8	95.4	10.6	11.4	92.0
G1 (R)	7.0	6.9	94.6	32.9	32.6	99.7	10.3	10.5	89.4
G3	8.4	8.0	113.5	33.0	32.9	100.0	12.1	11.7	105.0
G4	7.5	7.4	101.4	33.2	32.9	100.6	12.7	12.1	110.2
G5 (R)	8.6	8.6	116.2	32.6	32.8	98.8	10.5	10.5	91.1
H1	7.4	7.5	100.0	32.9	32.9	99.7	11.9	12.4	103.3
H2 (R)	5.8	7.4	78.4	33.5	32.4	101.5	12.2	11.5	105.9
H3	9.6	9.2	129.7	32.3	32.9	97.8	11.1	11.2	96.3
CKPG (R)	7.5 7.3	7.4	101.9	33.1 33.3	33.0	100.3	11.7 11.7	11.5	101.2

Notes A and B are given in the appendix.

Table V (Cont)

Averages of Mill Quality Data for MAR-APR 1992

33 LB Corrugating Medium

Code	Concora Lb.			CD Ring Crush Lb.			CD STFI Lb./In.		
	Cur. Av.	Cum. Av.	Ind. *B	Cur. Av.	Cum. Av.	Ind. *B	Cur. Av.	Cum. Av.	Ind. *B
A1	79.5	79.4	105.6		52.0		15.9	16.3	95.2
A2 (R)	70.8	74.5	94.0	51.7	52.6	99.2	16.2	16.3	97.0
A3 (R)	76.5	74.5	101.6				16.4	15.6	98.2
A5	70.0	70.9	93.0	52.5	49.6	100.7	16.9	16.7	101.2
B1 (R)		72.9			38.1			14.3	
B2 (R)	70.3	72.4	93.4		43.9		14.8	14.0	88.7
B3	72.0	74.5	95.6	57.0	58.1	109.3	17.0	16.9	101.8
B4 (R)	73.9	76.0	98.1	44.0	41.6	84.4	14.8		88.7
B5 (R)		73.9		41.7	43.6	80.0			
C1	70.0	71.2	93.0				17.1	17.1	102.4
C3							17.5	18.6	104.8
C4 (R)	87.7	85.7	116.5						
C5 (R)	85.0	87.9	112.9						
D5 (R)	68.5	69.4	91.0	50.0	47.7	95.9	15.7	15.2	94.0
E1	78.8	75.5	104.6	59.8	58.9	114.7			
E2	79.0	81.0	104.9	49.0	49.3	94.0	17.4	17.4	104.2
E4		70.0						19.3	
E5	76.0	84.8	100.9				20.0	19.5	119.8
F2	71.0	67.8	94.3				15.3	15.4	91.6
F4	72.6	74.2	96.4	55.6	57.3	106.6	17.3	17.4	103.6
G1 (R)	68.0	69.1	90.3	53.5	52.6	102.6		17.0	
G3	76.9	78.8	102.1	63.6	59.2	122.0			
G4	73.1	74.7	97.1	62.6	62.9	120.1			
G5 (R)	78.7	77.4	104.5	53.0	52.1	101.7			
H1	74.5	70.2	98.9	62.5	61.7	119.9	16.5	16.8	98.8
H2 (R)	69.4	74.9	92.2	56.9	57.3	109.1			
H3	78.5	76.4	104.2						
CKPG (R)	74.8 74.9	75.3	99.3	54.2 50.1	52.1	104.0	16.6 15.6	16.7	99.4

Note B is given in the appendix.

Table VI

Averages of Mill Quality Data for MAY-JUN, 1992

33 LB Corrugating Medium

Code	Moisture Content Percent			Adj. Basis Wt. *A Lb/M Sq. Ft.			Caliper Mils		
	Cur. Av.	Cum. Av.	Ind. *B	Cur. Av.	Cum. Av.	Ind. *B	Cur. Av.	Cum. Av.	Ind. *B
A1	8.0	8.1	107.8	33.0	33.1	99.9	11.3	10.8	97.7
A2 (R)	6.9	7.1	93.0	33.3	33.0	100.8	11.0	11.1	95.1
A3 (R)	9.1	8.7	122.6	32.8	32.9	99.3	11.0	11.3	95.1
A5	7.2	7.3	97.0	33.3	33.0	100.8	11.0	11.4	95.1
B1 (R)	5.5	5.6	74.1	35.4	33.9	107.2	12.2	11.7	105.5
B2 (R)	6.6	6.5	88.9	35.1	34.1	106.2	12.6	12.3	109.0
B3	7.9	7.8	106.4	33.5	33.3	101.4	13.3	13.4	115.0
B4 (R)	7.0	6.7	94.3	33.0	32.6	99.9	11.0	11.0	95.1
B5 (R)	7.2	6.9	97.0	33.3	32.9	100.8		10.0	
C1	7.8	7.8	105.1	33.0	33.0	99.9	11.6	11.9	100.3
C3	6.0	6.0	80.8	33.6	32.9	101.7	12.7	12.7	109.8
C4 (R)	7.0	6.9	94.3	34.1	33.8	103.2	13.5	13.3	116.8
C5 (R)	7.1	7.0	95.7	34.3	33.2	103.8	13.0	12.5	112.4
D5 (R)	8.8	8.4	118.6	32.8	33.1	99.3			
E1	8.4	8.2	113.2	32.8	33.0	99.3	13.0	13.2	112.4
E2	7.2	7.3	97.0	33.1	33.0	100.2	10.5	10.7	90.8
E4	6.5	6.5	87.6	33.5	33.0	101.4	10.9	11.1	94.3
E5	7.8	7.1	105.1	33.0	33.0	99.9	10.1	9.5	87.4
F2	8.5	8.2	114.5	32.7	33.0	99.0	11.2	11.3	96.9
F4	7.1	7.4	95.7	33.0	32.5	99.9	11.2	11.3	96.9
G1 (R)	7.0	6.9	94.3	32.8	32.6	99.3	10.3	10.5	89.1
G3	8.3	8.1	111.8	33.1	33.0	100.2	12.2	11.8	105.5
G4	7.4	7.5	99.7	33.1	33.0	100.2	12.6	12.3	109.0
G5 (R)	8.3	8.6	111.8	32.3	32.9	97.8	10.6	10.5	91.7
H1	7.5	7.5	101.0	33.0	32.9	99.9	11.8	12.3	102.1
H2 (R)	5.8	7.0	78.1	33.9	32.4	102.6	12.5	11.6	108.1
H3	9.5	9.3	128.0	32.2	32.9	97.5	10.9	11.1	94.3
CKPG (R)	7.5 7.2	7.4	100.5	33.3 33.6	33.0	100.8	11.7 11.8	11.6	101.0

Notes A and B are given in the appendix.

Table VI (Cont)

Averages of Mill Quality Data for MAY-JUN, 1992

33 LB Corrugating Medium

Code	Concora Lb.			CD Ring Crush Lb.			CD STFI Lb./In.		
	Cur. Av.	Cum. Av.	Ind. *B	Cur. Av.	Cum. Av.	Ind. *B	Cur. Av.	Cum. Av.	Ind. *B
A1	80.5	79.6	107.6				15.7	16.2	94.3
A2 (R)	71.9	73.4	96.1	51.3	52.3	98.2	16.1	16.2	96.7
A3 (R)	75.0	74.7	100.2				16.5	15.8	99.1
A5	70.0	70.7	93.5	51.5	50.4	98.5	16.5	16.8	99.1
B1 (R)	68.3	71.1	91.3		36.4		14.7	14.3	88.3
B2 (R)	68.1	70.6	91.0		45.7		14.0	14.4	84.1
B3	70.0	74.0	93.5	56.0	57.9	107.1	16.4	17.0	98.5
B4 (R)	72.7	75.7	97.1		41.9		14.5	14.8	87.1
B5 (R)		72.7		44.2	42.9	84.6			
C1	70.0	70.8	93.5				17.9	17.1	107.5
C3							16.6	18.1	99.7
C4 (R)	87.0	85.6	116.3						
C5 (R)	92.7	87.3	123.9						
D5 (R)	69.0	69.4	92.2	48.0	48.1	91.8	15.9	15.6	95.5
E1	77.2	75.8	103.2	61.8	58.9	118.2			
E2	82.0	80.2	109.6	54.0	49.7	103.3	18.5	17.5	111.1
E4	69.0	70.0	92.2				19.2	19.3	115.3
E5	68.5	84.7	91.5				20.3	19.7	121.9
F2	71.5	68.2	95.5				15.8	15.4	94.9
F4	75.6	73.6	101.0	65.2	57.1	124.7	18.7	17.6	112.3
G1 (R)	63.0	69.2	84.2	53.0	52.8	101.4		17.2	
G3	77.4	77.9	103.4	63.5	59.9	121.5			
G4	75.4	73.4	100.8	63.3	63.6	121.1			
G5 (R)	77.6	77.7	103.7	51.0	51.9	97.6			
H1	74.5	70.5	99.5	61.0	62.0	116.7	17.0	16.7	102.1
H2 (R)	73.9	72.2	98.7	54.8	57.0	104.9			
H3	78.0	76.8	104.2						
CKPG (R)	74.4 74.5	74.8	99.3	55.6 50.4	52.3	106.4	16.7 15.3	16.7	100.4

Note B is given in the appendix.

Table VII

Averages of Mill Quality Data for JAN--FEB, 1992

40 LB Corrugating Medium

Code	Moisture Content Percent			Adj. Basis Wt. *A Lb/M Sq. Ft.			Caliper Mils		
	Cur. Av.	Cum. Av.	Ind. *B	Cur. Av.	Cum. Av.	Ind. *B	Cur. Av.	Cum. Av.	Ind. *B
A1	8.0	8.0	104.5	40.0	40.1	100.4	12.7	13.0	95.3
A3 (R)	8.5		111.0	39.7		99.6	13.5		101.3
B3	8.1		105.8	40.2		100.9	16.0		120.0
B5 (R)		7.0			39.8			11.4	
C1	7.9	7.8	103.2	40.0	40.0	100.4	14.5	14.1	108.8
C3	6.2		81.0	40.6		101.9	14.9		111.8
D5 (R)	8.6		112.3	39.7		99.6			
E1	8.6	8.1	112.3	39.8	40.0	99.9	15.5	15.5	116.3
E2	7.4		96.6	40.2		100.9	12.5		93.8
F4	7.3	7.3	95.3	40.2	39.9	100.9	13.5	13.4	101.3
G1 (R)	7.2	7.1	94.0	39.6	39.3	99.4	12.7	12.5	95.3
G3	8.3	8.3	108.4	39.6	39.8	99.4	13.6	13.4	102.0
H3	10.1		131.9	39.0		97.9	13.7		102.8
CKPG	8.0	7.7	104.7	39.9	39.8	100.1	13.9	13.3	104.4
(R)	8.1			39.7			13.1		

Notes A and B are given in the appendix.

Table VII (Cont)

Averages of Mill Quality Data for JAN-FEB, 1992

40 LB Corrugating Medium

Code	Concora Lb.			CD Ring Crush Lb.			CD STFI Lb/In.		
	Cur. Av.	Cum. Av.	Ind. *B	Cur. Av.	Cum. Av.	Ind. *B	Cur. Av.	Cum. Av.	Ind. *B
A1	77.0	79.8	95.9				20.0	19.8	93.0
A3 (R)	83.0		103.4				20.1		93.5
B3	75.5		94.1	79.0		107.1	21.3		99.1
B5 (R)					58.4				
C1	72.5	76.3	90.3				20.7	20.8	96.3
C3							21.8		101.4
D5 (R)	78.5		97.8	64.5		87.4			
E1	81.2	82.1	101.2	79.7	78.5	108.1			
E2	96.0		119.6	67.0		90.8	21.7		100.9
F4	84.6	86.4	105.4		81.0		21.0	24.0	97.7
G1 (R)	71.0	74.4	88.5	73.5	72.5	99.6		21.4	
G3	78.2	82.6	97.4	80.8	78.4	109.5			
H3	76.5		95.3						
CKPG (R)	79.5 77.5	80.3	99.0	74.1 69.0	73.8	100.4	20.9 20.1	21.5	97.4

Note B is given in the appendix.

Table VIII

Averages of Mill Quality Data for MAR-APR, 1992

40 LB Corrugating Medium

Code	Moisture Content Percent			Adj. Basis Wt. *A Lb/M Sq. Ft.			Caliper Mils		
	Cur. Av.	Cum. Av.	Ind. *B	Cur. Av.	Cum. Av.	Ind. *B	Cur. Av.	Cum. Av.	Ind. *B
A1	8.1	8.0	102.4	39.9	40.1	99.9	13.4	12.9	98.0
A3 (R)	8.7	8.5	110.0	39.7	40.0	99.4	13.3	13.5	97.3
B3	7.9	8.1	99.9	40.5	40.3	101.4	15.4	16.0	112.6
B5 (R)		7.0			39.8			11.4	
C1	7.9	7.8	99.9	40.0	40.0	100.1	14.3	14.2	104.6
C3	6.1	6.2	77.1	40.6	39.9	101.6	15.1	14.9	110.4
D5 (R)	8.7	8.6	110.0	39.8	40.0	99.6			
E1	8.5	8.4	107.5	39.8	40.1	99.6	15.4	15.5	112.6
E2	7.5	7.4	94.8	40.1	40.0	100.4	12.8	12.5	93.6
F4	7.4	7.3	93.6	40.1	40.0	100.4	13.2	13.5	96.5
G1 (R)	7.2	7.1	91.1	39.7	39.3	99.4	12.4	12.6	90.7
G3	8.4	8.3	106.2	39.5	39.8	98.9	14.3	13.4	104.6
H2 (R)	5.8		73.3	41.1		102.9	14.1		103.1
H3	9.5	10.1	120.1	39.1	40.0	97.9	13.6	13.7	99.5
CKPG	7.8	7.9	98.9	40.0	39.9	100.1	13.9	13.7	102.0
(R)	7.6			40.1			13.3		

Notes A and B are given in the appendix.

Table VIII (Cont)

Averages of Mill Quality Data for MAR-APR, 1992

40 LB Corrugating Medium

Code	Concora Lb.			CD Ring Crush Lb.			CD STFI Lb./In.		
	Cur. Av.	Cum. Av.	Ind. *B	Cur. Av.	Cum. Av.	Ind. *B	Cur. Av.	Cum. Av.	Ind. *B
A1	81.5	79.1	101.3				19.9	19.9	93.9
A3 (R)	83.0	83.0	103.2				20.8	20.1	98.2
B3	78.5	75.5	97.6	78.5	79.0	108.1	21.5	21.3	101.5
B5 (R)	81.5	79.0	101.3		58.4				
C1	72.5	75.4	90.1				21.8	20.8	102.9
C3							21.6	21.8	101.9
D5 (R)	75.5	78.5	93.9	62.5	64.5	86.1			
E1	83.3	81.7	103.6	81.6	79.1	112.4			
E2	97.0	96.0	120.6	66.0	67.0	90.9	21.4	21.7	101.0
F4	85.2	85.5	105.9	86.5	81.0	119.1	23.0	22.5	108.6
G1 (R)	73.0	73.5	90.8	73.5	72.8	101.2		21.4	
G3	77.8	81.5	96.7	80.4	79.0	110.7			
H2 (R)	73.3		91.1	73.3		101.0			
H3	73.5	76.5	91.4						
CKPG	79.7	80.4	99.0	75.3	72.6	103.7	21.4	21.2	101.1
(R)	77.3			69.8			20.8		

Note B is given in the appendix.

Table IX

Averages of Mill Quality Data for MAY-JUN, 1992

40 LB Corrugating Medium

Code	Moisture Content Percent			Adj. Basis Wt. *A Lb/M Sq. Ft.			Caliper Mils		
	Cur. Av.	Cum. Av.	Ind. *B	Cur. Av.	Cum. Av.	Ind. *B	Cur. Av.	Cum. Av.	Ind. *B
A1	8.0	8.0	103.2	40.0	40.1	100.1	13.6	13.0	99.2
A3 (R)	8.8	8.6	113.5	39.8	40.1	99.6	13.2	13.4	96.3
B3	8.3	8.0	107.1	40.2	40.4	100.6	15.4	15.7	112.3
B5 (R)	7.4	7.0	95.5	40.0	39.8	100.1		11.4	
C1	7.8	7.8	100.6	40.1	40.0	100.3	13.9	14.2	101.4
C3	6.2	6.2	80.0	40.6	39.9	101.6	15.2	15.0	110.9
D5 (R)	8.9	8.7	114.8	39.8	40.1	99.6			
E1	8.4	8.4	108.4	39.7	40.1	99.3	15.3	15.5	111.6
E2	6.9	7.5	89.0	40.4	40.0	101.1	12.6	12.7	91.9
F4	7.2	7.3	92.9	40.2	39.9	100.6	13.1	13.4	95.6
G1 (R)	7.2	7.1	92.9	39.8	39.3	99.6	12.3	12.5	89.7
G3	8.4	8.3	108.4	39.5	39.8	98.8	14.4	13.6	105.1
G4	7.5		96.8	40.1		100.3	15.3		111.6
H2 (R)	5.9	5.8	76.1	40.4	40.2	101.1	13.8	14.1	100.7
H3	9.9	9.8	127.7	38.9	39.9	97.3	13.4	13.7	97.8
CKPG	7.8	7.8	100.5	40.0	40.0	100.0	14.0	13.7	101.9
(R)	7.6			40.0			13.1		

Notes A and B are given in the appendix.

Table IX (Cont)

Averages of Mill Quality Data for MAY-JUN, 1992

40 LB Corrugating Medium

Code	Concora Lb.			CD Ring Crush Lb.			CD STFI Lb./In.		
	Cur. Av.	Cum. Av.	Ind. *B	Cur. Av.	Cum. Av.	Ind. *B	Cur. Av.	Cum. Av.	Ind. *B
A1	75.6	79.6	94.7				19.3	19.9	90.7
A3 (R)	84.0	83.0	105.2				20.7	20.5	97.3
B3	77.0	77.0	96.5	77.0	78.8	105.6	21.2	21.4	99.6
B5 (R)				51.1	58.4	70.1			
C1	76.0	74.8	95.2				21.7	21.0	102.0
C3							20.1	21.7	94.5
D5 (R)	74.0	77.0	92.7	64.0	63.5	87.8			
E1	82.7	82.2	103.6	82.7	79.9	113.4			
E2	91.0	96.5	114.0	73.0	66.5	100.1	23.0	21.6	108.1
F4	86.4	85.4	108.2	92.2	83.8	126.4	24.2	22.7	113.7
G1 (R)	67.5	73.4	84.6	71.0	72.9	97.3		21.4	
G3	77.2	80.8	96.7	79.3	79.3	108.7			
G4	78.7		98.6	82.0		112.4			
H2 (R)	70.8	73.3	88.7	72.1	73.3	98.9			
H3	78.0	75.0	97.7						
CKPG	78.4	79.8	98.2	74.4	72.9	102.1	21.5	21.3	100.9
(R)	74.1			69.0			20.7		

Note B is given 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 the 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 X
Data on Conditioning and Testing Environments
JAN-FEB, MAR-APR, MAY-JUN, 1992

<u>Code</u>	<u>Conditioned Before Testing?</u>	<u>Temp. C°</u>	<u>RH. %</u>	<u>Time. min</u>
A1	NO	---	---	0
A2	NO	---	---	0
A3	NO	---	---	0
A4	NO	---	---	0
A5	YES	20.0	50	0
B1	NO	---	---	0
B2	NO	---	---	0
B3	NO	---	---	0
B4	YES	22.8	50	0
B5	NO	---	---	0
C1	YES	22.2	50	0
C2	YES	22.2	50	0
C3	NO	---	---	0
C4	YES	22.2	50	0
C5	YES	22.2	50	0
D1	NO	---	---	0
D2	NO	---	---	0
D3	NO	---	---	0
D4	NO	---	---	0
D5	NO	---	---	0
E1	YES	21.0	50	10
E2	YES	23.0	50	0
E3	NO	---	---	0
E4	NO	---	---	0
E5	NO	---	---	0
F1	NO	---	---	0
F2	NO	---	---	0
F3	NO	---	---	0
F4	YES	22.8	50	60
F5	NO	---	---	0
G1	NO	---	---	0
G2	NO	---	---	0
G3	NO	---	---	0
G4	NO	---	---	0
G5	YES	23.0	50	0
H1	YES	23.0	50	0
H2	YES	22.5	50	0
H3	NO	---	---	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 corrugating medium.

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

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

NOTE B: Machine index (%) =

$$[(\text{current machine average} / \text{cumulative C.K.P.G. average}) * 100]$$

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

$$[\text{CCKPGA's for previous six periods, excluding current CCKPGA} / 6]$$

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

$$[(\text{current C.K.P.G. average} / \text{cumulative C.K.P.G. average}) * 100]$$

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

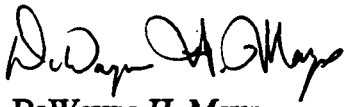
$$[\text{CMA's for current period for all machines} / \text{number of machines}]$$

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

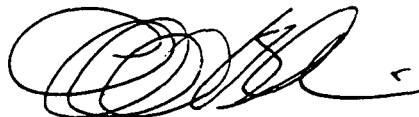
CCKPG = current C.K.P.G. average for a specific physical property of a specific corrugating medium grade weight obtained during a given period.

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