

THE INSTITUTE OF PAPER CHEMISTRY, APPLETON, WISCONSIN

CONTINUOUS BASE-LINE STUDY (MODIFIED)
(MILL CORRUGATING MEDIUM DATA FOR JANUARY, FEBRUARY, MARCH, 1982)

Project 2694-2

Report Fifty-One

A Progress Report

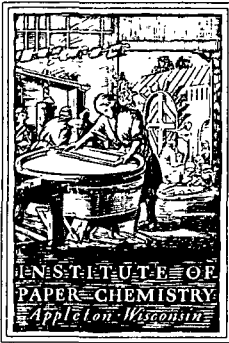
to

FOURDRINIER KRAFT BOARD GROUP

OF THE

AMERICAN PAPER INSTITUTE

June 1, 1983



THE INSTITUTE OF PAPER CHEMISTRY

Post Office Box 1039
Appleton, Wisconsin 54912
Phone: 414/734-9251

June 1, 1983

Dear Sir:

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

Report Fifty-One, Project 2694-2, a progress report entitled, "Continuous Baseline Study (Modified) of Mill Corrugating Medium Data for January, February, March, 1983" dated June 1, 1983

This project has been expanded to include CD ring crush data. These data will be included in the present and future reports.

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

Sincerely,

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

RHV/kam

Enclosure

GEORGIA-PACIFIC CORPORATION

Your machine is identified in this report
by the following code

Toledo	Machine #2	T1
--------	------------	----

BASE-LINE
1st QUARTER, 1983

THE INSTITUTE OF PAPER CHEMISTRY

Appleton, Wisconsin

CONTINUOUS BASE-LINE STUDY (MODIFIED)
(MILL CORRUGATING MEDIUM DATA FOR JANUARY, FEBRUARY, MARCH, 1983)

Project 2694-2

Report Fifty-One

A Progress Report

to

FOURDRINIER KRAFT BOARD GROUP

OF THE

AMERICAN PAPER INSTITUTE

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

June 1, 1983

TABLE OF CONTENTS

	Page
SUMMARY	1
INTRODUCTION	2
PRESENTATION OF DATA	2
Presentations (Tables):	
Tables I-II-III-IV. 26-Lb Corrugating Medium, Monthly Averages of Mill Data	3-4-5-6
Table V. Data on Conditioning and Testing Environments	7
APPENDIX. NOTES A, B, C, D, AND E USED IN TABULATION OF MILL DATA	9

THE INSTITUTE OF PAPER CHEMISTRY

Appleton, Wisconsin

CONTINUOUS BASE-LINE STUDY (MODIFIED)
(MILL CORRUGATING MEDIUM DATA FOR JANUARY, FEBRUARY, MARCH, 1983)

SUMMARY OF 26-LB CORRUGATING MEDIUM DATA
(DEC-MAR, 1983)

Test		DEC		JAN		FEB		MAR	
		Total	Recycled	Total	Recycled	Total	Recycled	Total	Recycled
Moisture content, %	Max.	9.5	7.3	9.5	7.3	9.5	7.4	9.4	7.4
	Min.	3.6	3.6	3.6	3.6	3.5	3.5	3.4	3.4
	Ave.	6.6(26)	5.8(12)	6.6(29)	5.9(12)	6.5(28)	5.8(13)	6.5(31)	5.8(13)
Adj. basis weight, lb/M sq ft	Max.	28.6	28.6	27.4	27.4	27.1	27.1	27.1	27.1
	Min.	25.4	26.3	25.5	26.3	25.5	26.2	25.4	25.9
	Ave.	26.4(26)	26.8(12)	26.4(29)	26.7(12)	26.4(28)	26.6(13)	26.4(31)	26.6(13)
Caliper, pt.	Max.	11.7	11.7	12.8	12.8	12.3	12.3	12.4	12.4
	Min.	8.0	8.0	8.0	8.0	8.0	8.0	7.9	7.9
	Ave.	9.6(25)	9.5(11)	9.6(26)	9.6(11)	9.6(25)	9.6(12)	9.6(28)	9.6(12)
Concor, lb	Max.	69.2	69.2	69.4	69.4	70.0	68.6	69.0	68.5
	Min.	52.5	52.5	55.0	55.2	53.8	53.8	54.0	54.0
	Ave.	61.2(26)	60.8(12)	61.0(29)	61.2(12)	60.4(28)	60.7(13)	60.4(31)	60.4(13)
CD Ring Crush, lb	Max.	*****	*****	36.0	36.0	35.0	35.0	38.0	37.0
	Min.	*****	*****	26.0	27.0	21.0	28.0	22.0	22.0
	Ave.	()	()	29.6(10)	31.8(4)	28.5(10)	30.8(4)	29.0(17)	28.2(6)

Max. and Min. values are current machine averages.

Ave. value is current F.K.B.G. average, number of machines is indicated in parentheses.

INTRODUCTION

The continuous base-line study (modified) is a compilation of monthly averages of mill test data obtained routinely on 26-lb corrugating medium manufactured in the member mills of F.K.B.G. Mill data are included for moisture content, basis weight, caliper, Concora, and C.D. Ring Crush made on the production of individual machines which produced at least 500 tons of this grade weight during a given month.

PRESENTATION OF DATA

For the 26-lb grade weight of corrugating medium referred to earlier, data on conditioning and testing environments, mill test averages for moisture content, adjusted basis weight, caliper, Concora, and C.D. Ring Crush results are compiled in the following tables.

Table Number	Description
I-II-III-IV	Mill Test Averages on 26-Lb Corrugating Medium
V	Data on Conditioning and Testing Environments

The procedure used in calculating cumulative machine averages, machine factors, machine indexes, and F.K.B.G. indexes are described in the Appendix.

It should be explained that the number of machines for which data are compiled in each table for a specified month varies for these reasons: a machine must have (a) produced at least 500 tons of 26-lb corrugating medium during the specified month, or (b) produced 500 tons of 26-lb corrugating medium during any one or more of the 12 months prior to the specified month (so that a cumulative average is available), to be included in a given table.

TABLE I
AVERAGES OF ROUTINE MILL QUALITY CONTROL DATA FOR 26 LB. CORRUGATING MEDIUM
JANUARY, 1983

CODE *E	MOISTURE CONTENT, PERCENT				ADJ. BASIS WT., *A LB./ M SQ. FT.				CALIPER, PT.				CONCORA TEST LB.			
	MACHINE DATA				MACHINE DATA				MACHINE DATA				MACHINE DATA			
	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C
J1(R)	6.5	6.5	100.0	98.5	26.3	26.4	99.6	99.6	9.5	9.6	99.0	99.0	61.2	60.5	101.2	100.2
J1(R)	6.2	6.3	98.4	93.9	26.5	26.6	99.6	100.4	9.1	9.0	101.1	94.8	62.0	61.6	100.6	101.5
K1(R)	5.5	5.2	105.8	83.3	26.8	26.8	100.0	101.5	9.5	9.7	97.9	99.0	59.9	59.8	100.2	98.0
M1	6.7	6.7	100.0	101.5	26.4	26.6	99.2	100.0	9.3	10.1	92.1	96.9	55.0	64.2	35.7	90.0
J1	7.6	8.4	90.5	115.2	25.3	26.2	100.4	99.6	10.1	10.2	99.0	105.2	63.4	63.0	100.6	103.8
T1(R)	7.3	7.1	102.8	110.6	26.3	26.3	100.0	99.6	12.8	11.1	115.3	133.3	60.7	62.0	97.9	99.3
J2(R)		5.4				26.3				9.2				55.7		
F2(R)	6.0	6.0	100.0	90.9	27.0	26.8	100.7	102.3	9.0	9.0	100.0	93.8	55.2	51.4	107.4	90.3
H2(R)	4.8	4.3	111.6	72.7	26.8	26.9	99.6	101.5	9.4	9.5	98.9	97.9	60.7	59.2	102.5	99.3
I2		7.2				26.2				8.9				65.2		
K2	6.1	5.7	107.0	92.4	26.3	26.5	99.2	99.6	10.2	10.2	100.0	106.2	61.0	61.7	98.9	99.3
H2	6.5	6.8	95.6	98.5	26.3	26.3	100.0	99.6	8.9	8.7	102.3	92.7	59.4	61.1	97.2	97.2
S2	6.8	7.2	94.4	103.0	26.4	26.3	100.4	100.0	9.6	9.0	106.7	100.0	69.0	68.1	101.3	112.9
I2(R)	3.6	3.6	100.0	54.5	27.2	27.2	100.0	103.0	8.0	8.0	100.0	83.3	61.0	61.3	99.5	99.9
C3(R)	6.5	6.5	100.0	98.5	26.5	26.4	100.4	100.4	10.2	10.0	102.0	106.2	60.7	60.6	100.2	99.3
F3		7.0				26.2				9.2				62.0		
I3(R)	7.0	7.0	100.0	106.1	26.4	26.2	100.8	100.0	9.2	9.4	97.9	95.8	69.4	69.1	100.4	113.6
J3	6.8	7.0	97.1	103.0	26.1	26.1	100.0	98.9	9.1	8.8	103.4	94.8	69.0	68.6	100.6	112.9
L3	7.8	7.5	104.0	118.2	26.1	26.1	100.0	98.9		10.4			57.0	57.5	99.1	93.3
M3	5.7	5.6	101.8	86.4	26.1	26.3	99.2	98.9	9.2	8.9	103.4	95.8	63.0	63.5	99.2	103.1
H3		6.1				27.0				10.5				57.8		
J3	5.9	5.6	105.4	89.4	25.9	26.0	99.6	98.1	10.0	9.9	101.0	104.2	63.0	63.8	98.7	103.1
P3	8.2	8.2	100.0	124.2	26.0	26.1	99.6	98.5	9.1	9.2	98.9	94.8	60.0	61.1	98.2	98.2
S3	7.4	7.1	104.2	112.1	26.1	26.1	100.0	98.9	10.4	9.9	105.0	108.3	56.0	58.1	96.4	91.6
V3	7.7	7.2	106.9	116.7	26.7	26.3	101.5	101.1		10.6			59.0	58.0	101.7	95.6
F4	7.2	7.3	98.6	109.1	26.5	26.3	100.8	100.4	9.0	8.9	101.1	93.8	61.4	61.1	100.5	100.5
H4(R)	4.4	4.7	93.6	66.7	27.4	27.1	101.1	103.8	9.0	9.0	100.0	93.8	56.0	52.1	107.5	91.6
J4	7.6	7.2	105.6	115.2	26.2	26.2	100.0	99.2	10.5	10.5	100.0	109.4	55.0	58.2	94.5	90.0
M4(R)	5.5	5.7	96.5	83.3	26.5	26.4	100.4	100.4	9.5	9.5	100.0	99.0	66.3	64.8	102.3	108.5
N4	6.6	6.8	97.0	100.0	26.3	26.2	100.4	99.6	9.9	9.8	101.0	103.1	57.0	57.0	100.0	93.3
R4(R)	7.2	7.1	101.4	109.1	26.4	26.2	100.8	100.0					62.0	62.4	99.4	101.5
S4	7.3	7.5	97.3	110.6	26.2	26.3	99.6	99.2	10.5	10.4	101.0	109.4	59.9	60.7	98.7	98.0
I4		7.4				26.5								56.5		
U4	9.5	9.3	102.2	143.9	25.5	25.4	100.4	96.6	9.8	9.6	102.1	102.1	65.4	65.0	100.6	107.0

FK9G DATA

	TOTAL	RECYCLED	TOTAL	RECYCLED	TOTAL	RECYCLED	TOTAL	RECYCLED
CUR. AV	6.6	5.9	26.4	26.7	9.6	9.6	61.0	61.2
CUM. AV	6.6	5.7	26.4	26.6	9.6	9.3	61.1	59.9
IND. *D	100.0	103.5	100.0	100.4	100.0	103.2	99.8	102.2

(*)-- NOTES A, B, C, D, AND E, ARE GIVEN IN APPENDIX.

TABLE II
AVERAGES OF ROUTINE MILL QUALITY CONTROL DATA FOR 26 LB. CORRUGATING MEDIUM
FEBRUARY, 1983

CODE *E	MOISTURE CONTENT, PERCENT				ADJ. BASIS WT., *A LB./ M SQ. FT.				CALIPER, PT.				CONCORA TEST LB.			
	MACHINE DATA				MACHINE DATA				MACHINE DATA				MACHINE DATA			
	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C
D1(R)	6.5	6.5	100.0	98.5	26.5	26.4	100.4	100.4	9.6	9.6	100.0	100.0	61.0	60.5	100.8	99.8
J1(R)	6.2	6.3	98.4	93.9	26.5	26.6	99.6	100.4	9.2	9.0	102.2	95.8	63.0	61.8	101.9	103.1
K1(R)	5.4	5.2	103.8	81.8	26.8	26.8	100.0	101.5	9.8	9.8	100.0	102.1	60.1	59.7	100.7	98.4
M1	6.6	6.7	98.5	100.0	26.4	26.6	99.2	100.0	9.4	10.0	94.0	97.9	55.0	63.4	86.8	90.0
Q1	8.0	8.4	95.2	121.2	26.1	26.1	100.0	98.9	10.0	10.2	98.0	104.2	63.7	63.0	101.1	104.2
T1(R)	7.1	7.1	100.0	107.6	26.2	26.3	99.6	99.2	12.3	11.2	109.8	128.1	62.0	61.9	100.2	101.5
D2(R)	5.6	5.4	103.7	84.8	26.3	26.3	100.0	99.6	9.1	9.2	98.9	94.8	56.7	55.7	101.8	92.8
F2(R)	6.0	6.0	100.0	90.9	26.9	26.8	100.4	101.9	9.0	9.0	100.0	93.8	53.8	51.6	104.3	88.0
H2(R)	5.1	4.3	118.6	77.3	26.7	26.9	99.2	101.1	9.9	9.5	104.2	103.1	60.0	59.3	101.2	98.2
I2		7.2				26.2				8.9				65.2		
K2	5.9	5.7	103.5	89.4	26.4	26.5	99.6	100.0	10.1	10.1	100.0	105.2	60.0	61.6	97.4	98.2
R2	6.6	6.8	97.0	100.0	26.3	26.3	100.0	99.6	9.1	8.8	103.4	94.8	60.3	61.0	98.8	93.7
S2	6.2	7.2	85.1	93.9	26.6	26.3	101.1	100.8	9.2	9.1	101.1	95.8	70.0	68.3	102.5	114.6
T2(R)	3.5	3.6	97.2	53.0	27.1	27.2	99.6	102.6	8.0	8.0	100.0	83.3	61.0	61.2	99.7	99.8
C3(R)	6.5	6.5	100.0	98.5	26.5	26.4	100.4	100.4	10.1	10.1	100.0	105.2	60.9	60.5	100.7	99.7
F3		7.0				26.2				9.2				62.0		
I3(R)	6.7	7.0	95.7	101.5	26.6	26.3	101.1	100.8	9.3	9.3	100.0	96.9	68.6	69.2	99.1	112.3
J3		7.0				26.1				8.9				68.8		
L3	7.6	7.6	100.0	115.2	26.4	26.1	101.1	100.0		10.4			57.0	58.0	98.3	93.3
M3		5.7				26.3				8.9				63.5		
N3		6.1				27.0				10.5				57.8		
Q3	5.2	5.6	92.8	78.8	26.0	26.0	100.0	98.5	9.7	9.9	98.0	101.0	61.0	63.8	95.6	99.8
P3	8.2	8.2	100.0	124.2	26.1	26.1	100.0	98.9	9.2	9.2	100.0	95.8	60.0	61.0	98.4	98.2
Q3	7.2	7.2	100.0	109.1	26.2	26.2	100.0	99.2	10.3	10.0	103.0	107.3	57.0	57.8	98.6	93.3
V3	7.7	7.3	105.5	116.7	26.3	26.4	99.6	99.6		10.6			59.0	58.5	100.8	96.6
F4	7.2	7.3	98.6	109.1	26.5	26.3	100.8	100.4	8.7	8.9	97.8	90.6	59.5	61.0	97.5	97.4
H4(R)	4.3	4.6	93.5	65.2	27.0	27.1	99.6	102.3	9.0	9.0	100.0	93.8	55.5	52.4	105.9	90.8
J4	7.5	7.3	102.7	113.6	26.2	26.2	100.0	99.2	10.4	10.5	99.0	108.3	56.0	57.7	97.0	91.6
H4(R)	5.6	5.7	98.2	34.8	26.5	26.4	100.4	100.4	9.5	9.5	100.0	99.0	65.7	64.3	101.4	107.5
N4	6.6	6.8	97.0	100.0	26.4	26.2	100.8	100.0	10.5	9.8	107.1	109.4	57.0	57.0	100.0	93.3
R4(R)	7.4	7.1	104.2	112.1	26.2	26.2	100.0	99.2					61.0	62.3	97.9	99.8
S4	7.2	7.4	97.3	109.1	26.3	26.3	100.0	99.6	10.3	10.4	99.0	107.3	60.3	60.6	99.5	93.7
T4		7.4				26.4								56.4		
U4	9.5	9.3	102.2	143.9	25.5	25.4	100.4	96.6	9.7	9.7	100.0	101.0	66.1	64.9	101.8	108.2

FK3G DATA

	TOTAL	RECYCLED	TOTAL	RECYCLED	TOTAL	RECYCLED	TOTAL	RECYCLED
CUR. AV	6.5	5.8	26.4	26.6	9.6	9.6	60.4	60.7
CUM. AV	6.6	5.7	26.4	26.6	9.6	9.4	61.1	59.9
IND. *D	98.5	101.8	100.0	100.0	100.0	102.1	98.8	101.3

(*)-- NOTES A, B, C, D, AND E, ARE GIVEN IN APPENDIX.

TABLE III
AVERAGES OF ROUTINE MILL QUALITY CONTROL DATA FOR 26 LB. CORRUGATING MEDIUM
MARCH, 1983

CODE *E	MOISTURE CONTENT, PERCENT				ADJ. BASIS WT., *A LB./ M SQ. FT.				CALIPER, PT.				CONCORD TEST LB.			
	MACHINE DATA				MACHINE DATA				MACHINE DATA				MACHINE DATA			
	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C
D1(R)	6.5	6.5	100.0	100.0	26.5	26.4	100.4	100.4	9.7	9.6	101.0	101.0	61.2	60.6	101.0	100.3
S1	7.2			110.8	26.4			100.0	9.6			100.0	62.0			101.6
J1(R)	6.0	6.3	95.2	92.3	26.6	26.6	100.0	100.8	9.2	9.0	102.2	95.8	63.0	61.9	101.8	103.3
K1(R)	5.1	5.3	96.2	78.5	26.8	26.7	100.4	101.5	10.1	9.8	103.1	105.2	60.4	59.7	101.2	99.0
M1	6.7	6.7	100.0	103.1	26.3	26.5	99.2	99.6	9.3	9.9	93.9	96.9	56.0	62.0	90.3	91.3
D1	7.1	8.3	85.5	109.2	26.2	26.1	100.4	99.2	10.4	10.2	102.0	108.3	63.2	63.1	100.2	103.6
I1(R)	7.0	7.1	98.6	107.7	25.9	26.3	98.5	98.1	12.4	11.4	108.8	129.2	61.8	61.8	100.0	101.3
O2(R)	5.7	5.4	105.6	87.7	26.1	26.4	98.9	98.9	9.4	9.2	102.2	97.9	55.0	56.6	97.2	90.2
F2(R)	6.0	6.0	100.0	92.3	26.9	26.9	100.0	101.9	9.0	9.0	100.0	93.8	54.0	51.9	104.0	88.5
H2(R)	4.6	4.4	104.5	70.8	26.8	26.9	99.6	101.5	9.7	9.6	101.0	101.0	59.0	59.3	99.5	96.7
I2		7.2				26.2				8.9				65.2		
K2	6.2	5.7	108.8	95.4	26.4	26.5	99.6	100.0	9.8	10.1	97.0	102.1	62.0	61.4	101.0	101.6
R2	6.6	6.7	98.5	101.5	26.3	26.3	100.0	99.6	8.9	8.8	101.1	92.7	58.8	61.0	96.4	96.4
S2	7.3	7.0	104.3	112.3	26.1	26.4	98.9	98.9	9.1	9.1	100.0	94.8	69.0	68.6	100.6	113.1
I2(R)	3.4	3.6	94.4	52.3	27.0	27.2	99.3	102.3	7.9	8.0	98.8	82.3	60.6	61.2	99.0	99.3
O3(R)	6.5	6.5	100.0	100.0	26.5	26.4	100.4	100.4	10.2	10.1	101.0	106.2	60.3	60.5	99.7	98.8
F3	6.9	7.0	93.6	106.2	26.2	26.2	100.0	99.2	8.9	9.2	96.7	92.7	58.0	62.0	93.5	95.1
I3(R)	6.8	6.9	98.6	104.6	26.5	26.3	100.8	100.4	9.3	9.3	100.0	96.9	68.5	69.0	99.3	112.3
J3		7.1				26.1				8.8				69.2		
L3	7.4	7.6	97.4	113.8	26.4	26.1	101.1	100.0		10.4			58.0	58.0	100.0	95.1
M3	5.7	5.7	100.0	87.7	26.2	26.3	99.6	99.2	8.9	8.9	100.0	92.7	62.5	63.3	98.7	102.4
N3		6.0				27.1				10.6				57.6		
O3	5.6	5.6	100.0	86.2	26.2	26.0	100.8	99.2	9.8	9.8	100.0	102.1	63.0	63.5	99.2	103.3
P3	8.2	8.2	100.0	126.2	26.1	26.1	100.0	98.9	8.7	9.2	96.6	90.6	60.0	60.8	98.7	98.4
Q3	7.3	7.2	101.4	112.3	26.3	26.2	100.4	99.6	10.2	10.0	102.0	106.2	56.0	57.6	97.2	91.8
V3	7.3	7.4	98.6	112.3	26.5	26.4	100.4	100.4		10.6			58.0	58.7	98.8	95.1
F4	7.1	7.3	97.3	109.2	26.4	26.4	100.0	100.0	9.0	8.9	101.1	93.8	60.4	60.9	99.2	99.0
H4(R)	4.3	4.6	93.5	66.2	27.1	27.1	100.0	102.6	9.0	9.0	100.0	93.8	55.8	52.8	105.7	91.3
J4	7.4	7.3	101.4	113.8	26.3	26.2	100.4	99.6	10.3	10.6	97.2	107.3	56.0	57.4	97.6	91.3
H4(R)	5.6	5.7	98.2	86.2	26.5	26.4	100.4	100.4	9.5	9.5	100.0	99.0	64.7	64.8	99.8	106.1
N4	6.7	6.8	98.5	103.1	26.4	26.2	100.8	100.0	10.3	9.9	104.0	107.3	58.0	57.0	101.8	95.1
R4(R)	7.4	7.2	102.8	113.8	26.2	26.2	100.0	99.2					61.2	62.1	98.6	100.3
S4	7.4	7.4	100.0	113.8	26.3	26.3	100.0	99.6	10.3	10.4	99.0	107.3	60.5	60.5	100.0	99.2
T4		7.4				26.4								56.8		
U4	9.4	9.3	101.1	144.6	25.4	25.4	100.0	96.2	9.6	9.7	99.0	100.0	66.0	65.0	101.5	108.2

FK3G DATA

	TOTAL	RECYCLED	TOTAL	RECYCLED	TOTAL	RECYCLED	TOTAL	RECYCLED
CUR. AV	6.5	5.8	26.4	26.6	9.6	9.6	60.4	60.4
CUM. AV	6.5	5.7	26.4	26.6	9.6	9.6	61.0	60.0
IND. *D	100.0	101.8	100.0	100.0	100.0	102.1	99.0	100.7

(*)-- NOTES A, B, C, D, AND E, ARE GIVEN IN APPENDIX.

TABLE IV
AVERAGES OF ROUTINE MILL QUALITY CONTROL DATA FOR 26 LB. CORRUGATING MEDIUM
RING COMPRESSION, LBS.

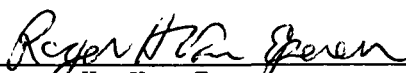
	JANUARY, 1983				FEBRUARY, 1983				MARCH, 1983			
	MACHINE DATA				MACHINE DATA				MACHINE DATA			
	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C
D1(R)												
G1									38.0			131.0
J1(R)	36.0				35.0	36.0	97.2	118.2	37.0	35.5	104.2	127.6
K1(R)									24.5			84.5
M1												
O1												
T1(R)									22.0			75.9
D2(R)									36.0			124.1
F2(R)	27.0				28.0	27.0	103.7	94.6	23.0	27.5	83.6	79.3
H2(R)									24.9			85.9
I2												
K2	27.0				30.0	27.0	111.1	101.4	30.0	28.5	105.3	103.4
R2	29.1				21.0	29.1	72.2	70.9	28.1	25.0	112.4	96.9
S2												
I2(R)												
C3(R)												
F3												
I3(R)												
J3												
L3									30.0			103.4
M3												
N3												
O3	33.0				31.0	33.0	93.9	104.7	33.0	32.0	103.1	113.8
P3												
Q3	26.0				26.0	26.0	100.0	87.8	26.0	26.0	100.0	89.6
V3									28.0			96.6
F4												
H4(R)	32.0				29.0	32.0	90.6	98.0	26.0	30.5	85.2	89.6
J4	27.0				26.0	27.0	96.3	87.8	26.0	26.5	98.1	89.6
M4(R)	32.4				31.4	32.4	96.9	106.1	32.5	31.9	101.9	112.1
N4	27.0				28.0	27.0	103.7	94.6	28.0	27.5	101.8	96.6
R4(R)												
S4												
T4												
U4												
FKBG DATA												
	TOTAL		RECYCLED		TOTAL		RECYCLED		TOTAL		RECYCLED	
CUR. AV	29.6		31.8		28.5		30.8		29.0		28.2	
CUM. AV					29.6		31.8		29.0		31.3	
IND. *D					96.3		96.8		100.0		90.1	

(*)-- NOTES A, B, C, D, AND E, ARE GIVEN IN APPENDIX.

TABLE V
DATA ON CONDITIONING AND TESTING ENVIRONMENTS
JANUARY, FEBRUARY, MARCH, 1983

Code	Conditioning Environment				Testing Environment
	Are Quality Samples Conditioned Before Testing?	Time	Temp., °F	RH, %	Are Quality Samples Tested Under Controlled Conditions of Temperature & Humidity?
D1	No	--	--	--	Yes: 72 ± 4°F; 50 ± 5% RH
G1	No	--	--	--	Yes: 72 ± 2°F; 50 ± 1% RH
J1	No	--	--	--	No
K1	No	--	--	--	No
M1	No	--	--	--	No
O1	No	--	--	--	Yes: 72 ± 3°F; 50 ± 2% RH
T1	Yes	--	--	--	Yes: 70 ± 2°F; 50 ± 2% RH
D2	Yes	20 min	--	--	Yes: 72 ± 3.5°F; 50 ± 2% RH
F2	No	--	--	--	Yes: 73 ± 3°F; 50 ± 2% RH
H2	No	--	--	--	No
I2	No data submitted for this quarter				
K2	No	--	--	--	Yes: 73 ± 1°F; 50 ± 2% RH
R2	Yes	20 min	--	--	Yes: 72 ± 2°F; 50 ± 2% RH
S2	No	--	--	--	Yes: 73 ± 2°F; 50 ± 2% RH
T2	No	--	--	--	Yes: 73 ± 2°F; 50 ± 5% RH
C3	No	--	--	--	Yes: 72 ± 4°F; 50 ± 5% RH
F3	No	--	--	--	No
I3	No	--	--	--	Yes: 72 ± 1°F; 50 ± 1% RH
J3	No	--	--	--	Yes: 73 ± 2°F; 50 ± 2% RH
L3	No	--	--	--	Yes: 73 ± 2°F; 50 ± 2% RH
M3	No	--	--	--	No
N3	No data submitted for this quarter				
O3	No	--	--	--	No
P3	No	--	--	--	Yes: 70 ± 2°F; 50 ± 10% RH
Q3	No	--	--	--	No
V3	No	--	--	--	Yes: 73 ± 2°F; 50 ± 2% RH
F4	No	--	--	--	No
H4	No	--	--	--	Yes: 73 ± 3°F; 50 ± 2% RH
J4	No	--	--	--	No
M4	No	--	--	--	Yes: 72 ± 2°F; 50 ± 3% RH
N4	No	--	--	--	No
R4	No	--	--	--	Yes: 72 ± 2°F; 50 ± 5% RH
S4	No	--	--	--	Yes: 70 ± 2°F; 50 ± 2% RH
T4	No data submitted for this quarter				
U4	No	--	--	--	No

THE INSTITUTE OF PAPER CHEMISTRY



Roger H. Van Eperen
Research Fellow
Paper Materials & Systems Division

Approved by



Gary A. Baum
Director
Paper Materials Division

APPENDIX

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

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

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

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

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

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

Note C: Machine index (%) = $\left[\frac{\text{Current machine average}}{\text{Cumulative F.K.B.G. total average}} \right] \cdot 100$ where

$$\text{Cumulative F.K.B.G. average} = \sum \frac{\text{CFKBGA's}^b \text{ for previous 12 months excluding CFKBGA for current month}}{12}$$

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

$$\text{Current F.K.B.G. average} = \sum \frac{\text{CMA's}^a \text{ for current month for all machines}}{\text{Number of machines}}$$

Note E: (R) - Indicates a medium manufactured from recycled fibers.

^aCMA = current machine average for a specific physical property of 26-lb corrugating medium obtained during a given month on a specific machine.

^bCFKBGA = current F.K.B.G. average for a specific physical property of 26-lb corrugating medium obtained during a given month.

IPST HASELTON LIBRARY



5 0602 01060812 5