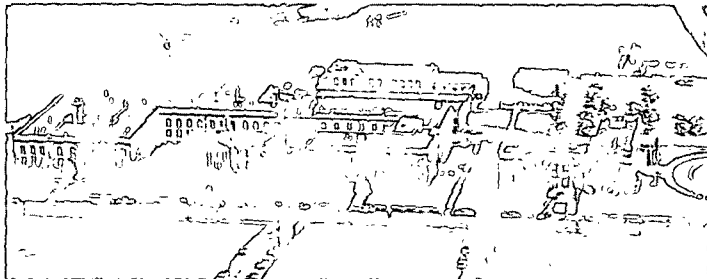


BASE-LINE

JULY-AUGUST, 1976



THE INSTITUTE OF PAPER CHEMISTRY, APPLETON, WISCONSIN

CONTINUOUS BASE-LINE STUDY (MODIFIED)
(MILL CORRUGATING MEDIUM DATA FOR JULY AND AUGUST, 1976)

Project 2694-2

Report Twenty-Two

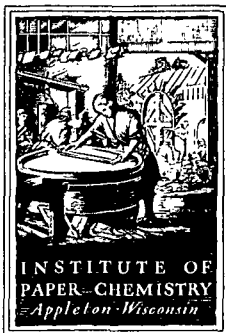
A Progress Report

to

FOURDRINIER KRAFT BOARD INSTITUTE, INC.

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

October 27, 1976



THE INSTITUTE OF PAPER CHEMISTRY
Post Office Box 1039
Appleton, Wisconsin 54911
Phone: 414/734-9251

October 27, 1976

Project 2694-2

Dear Mr. Boren:

We are enclosing a copy of the following report to the Fourdrinier Kraft Board Institute, Inc.:

Report Twenty-Two, Project 2694-2, a progress report
entitled "Continuous Baseline Study of Mill Corrugating
Medium; Data for July and August, 1976" dated October 27, 1976.

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.

Yours very truly,

Terrence S. Fox
Director
Container Division

Mr. A. Rodney Boren
President
Fourdrinier Kraft Board Institute, Inc.
280 Park Avenue
New York, New York 10017

RECEIVED NOV 10 1976

1043 East South River Street

The Institute of Paper Chemistry

MEMORANDUM

From G. J. Subert

To T. S. Fox

Date October 27, 1976

Subject Project 2694-2

Code Letters for Report Twenty-Two
 Dated October 27, 1976; Mill Corrugating
 Medium Data for July and August, 1976

<u>Company</u>	<u>Mill</u>	<u>Machine No.</u>	<u>Code Letter</u>	<u>Comments</u>
1. Alton Box Board Company	*Alton	3	O1	
	*Alton	4	L2	
2. Boise Cascade Corp.	Wallula	2	E1	
3. Container Corp. of America	Circleville	5	I1	
	Fernandina Beach	4	P1	
	*Wilmington	1	H2	
4. Continental Group, Inc.	Hodge	1	A2	
	Hopewell	1	J1	
5. Crown Zellerbach	*Baltimore	1	I2	
	*Baltimore	2	H1	
	**Bogalusa	4	C1	No Aug. data
6. Georgia-Pacific Corp.	Toledo	2	G2	
7. Great Southern Paper Co.	Cedar Springs	3	J2	
8. Green Bay Packaging	Green Bay	-	Q1	
9. Hoerner Waldorf	Ontonagon	1	F1	
	St. Paul	4	B2	
	St. Paul	5	V1	
10. Inland Container	New Johnsonville	1	G1	
	*Newport	1	A1	
11. International Paper Co.	Bastrop	1	C2	No data
	Bastrop	2	S1	
	Georgetown	1	K1	
12. Mead Corporation	Stevenson	-	D2	
13. Olinkraft	Monroe	1	W1	

FROM G. J. Subert
TO T. S. Fox

October 27, 1976
Page 2

<u>Company</u>	<u>Mill</u>	<u>Machine No.</u>	<u>Code Letter</u>	<u>Comments</u>
14. Packaging Corp. of America	Filer City	1	R1	
	Filer City	2	Y1	
	Filer City	3	K2	
15. Stone Container	Coshocton	1	E2	
	Coshocton	2	M1	
16. St. Regis	*York	5	F2	
17. Union Camp	Savannah	2	T1	
18. Virginia Fibre	Riverville	1	Z1	
19. Weston Paper	No. 2	4	X1	
	No. 2	5	L1	
20. Westvaco	**Charleston	3	N1	No data
	Covington	6	B1	
21. Weyerhaeuser	Plymouth	3	U1	
	Valliant	2	D1	

* Recycled

**Kraft

GJS/ku

gjs

1975 MAILING LIST FOR MEDIUM BASELINE REPORTS

B.E. McMahon	Alton Box Board	P.O. Box 276	Alton, IL 62002
D.G. Estebo	" "	401 Alton St.	" " "
R.E. Bowen	" "	" "	" " "
B.C. Drumm	" "	" "	" " "
K.G. Kleinschmidt	" "	" "	" " "
R.M. Wilkinson			
D.R. Bauer	Boise Cascade	P.O. Box 500	Wallula, WA 99363
T.R. Lock	" "	P.O. Box 1414	Portland, OR 97207
R.R. Stolz	" "	" 50	Boise, Idaho 83728
C. T. Hazelwood	Boise Southern	P.O. Box 1000	De Ridder, LA 70634
K.R. Elliott	" "		Torrance, California 90503
A.W. Plummer	Chesapeake Corp.	-	West Point, VA 23181
O.V. Hyde	" "	-	" " "
H.J. Schroeder	Container Corp.	401 West Mill St.	Circleville, OH 43113
W.R. Richards	" "	1 First Nat'l Plaza	Chicago, IL 60670
G.G. Maltenfort	" "	500 E. North Ave.	Carol Stream, IL 60187
W.N. Wandmacher	" "	North Eighth St.	Fernandina Beach, FL 32034
J.A. Allen	" "	" "	Oaks, PA 19456
Jack Carney	" "	P.O. Box 511	Wilmington, Delaware 19895
O.H. Atkinson	Continental Can	51 Weaver St.	Greenwich, CT 06830
E.A. Henry	" "	Av. Nove de Julho CEP 01406	Sao Paulo, Brazil
A.C. Elliot	" "	" "	" "
W.O. Kroeschell	" "	Box 1425	Augusta, GA 30903
J.A. Walecka	" "	" "	" " "
J.W. Daniel	" "	" "	" " "
R.F. Miller	" "	-	Hodge, LA 71247
B. McKinstry	" "	-	" " "
W.L. Coker	" "	P.O. Box 201	Hopewell, VA 23860
J.H. Lewis	" "	" "	" " "
J.L. Jonakin	" "	P.O. Box 4068	Port Wentworth, GA 31407
E.A. Mitchell	Crown Zellerbach Int'l.	One Bush Street	San Francisco, CA 94119
W. Williams	" "	" " "	" " "
B.A. Mecker	" "	Leatherby Bldg. Ste. 621	Fullerton, CA 92632
R.L. McCray	" "	P.O. Box 1060	Bogalusa, LA 70427
J.J. Goss (2cps.)	" "	" "	" "
G.G. Vincent	" "	Central Res. Div.	Camas, WA 98607
T.W. Hardy	" "	143 Arsenal St.	St. Louis, MO 63118
H.A. Barber	" "	P.O. Box 325	Lebanon, OR 97355
J.W. Walz	" "	-	Baltimore, OH 43105
Verle McCaffery	" "	-	" " "
C.E. Young	" "	P.O. Box 1057	Antioch, CA 94509
W.H. Pound	Georgia-Pacific	P.O. Box 580	Toledo, OR 97391
Rodger Fife	" "	P.O. Box 2407	S. San Francisco, CA 94080
Bruce P. Ellen	Great Southern	P.O. Box 44	Cedar Springs, GA 31732
R.W. O'Donnell	" "	" "	" " " "
E.T. Bridges	" "	" "	" " " "
W.M. Taunton	" "	" "	" " " "
W.R. Nelson	Green Bay Packaging	P.O. Box 1107	Green Bay, WI 54305
G.L. Hollimon	" "	" "	" " " "
Roger Hoffman	" "	" "	" " " "

January 1, 1975

J.E. Hoeft	Hoerner Waldorf	115 Lakeshore Rd.	Ontonagon, MI 49953
F.B. Williams	" "	P.O. Box 3260	St. Paul, MN 55165
R.M. Johnson	" "	" "	" " "
J. Challas	" "	" "	" " "
M.J. Frisch	" "	" "	" " "
C.G. Ames	Inland Container	Box 925	Indianapolis, IN 46206
R.A. Surber	" "	Box 68523	" "
B. Lancashire	" "	Box 925	" "
J.M. Vaughan	" "	" "	" "
C.E. Lindsay	" "	Box 299	New Johnsonville, TN 37134
O.C. Parker	International Paper	220 E. 42nd St.	New York, NY 10017
E. B. Pettiss	" "	" "	" " "
R. D. Quina	" "	P. O. Box 16807	Mobile, Ala 36616
P.D. Schulz	" "	P.O. Box 2328 16807	Mobile, AL 36601 36616
Mill Manager	" "	P.O. Box 312	Bastrop, LA 71220
Mill Manager	" "	P.O. Box 528	Georgetown, SC 29440
J.A. Lock	" "	Parsippany Rd.	Whippany, NJ 07981
H. W. Tanner	" "	Container Div.	Georgetown, S.C. 29440
W.L. Allen	MacMillan Bloedel	-	Pine Hill, AL 36769
J.O. Boesinger (4cps)	Mead Corp.	4400 Marburg Ave.	Cincinnati, OH 45209
E.B. Shaver	Olinkraft, Inc.	Box 488	West Monroe, LA 71291
T.A. McCrocklin	" "	" "	" " " "
R.A. Somsen	" "	" "	" " " "
T.G. Zentner	" "	" "	" " " "
G.J. Bick	Owens-Illinois	P.O. Box 1035	Toledo, OH 43651
C.F. Mills	Packaging Corp. Amer.	P.O. Box 6	Manistee, MI 49660
R.L. Hall	" " "	1603 Orrington Ave.	Evanston, IL 60204
C.W. Tasker	" " "	470 Market St. S.W.	Grand Rapids, MI 49502
J.L. Ham	" " "	P.O. Box 6	Manistee, MICH 49660
F.B. Biggar	Pineville Kraft	P.O. Box 870	Pineville, LA 71360
T.S. Coldewey	St. Joe Paper	P.O. Box 190	Port St. Joe, FL 32456
E.T. Ford (4 cps)	" " "	" "	" " " "
W.E. Carlson	St. Regis Paper	Gulf Life Tower	Jacksonville, FL 32207
Mrs. M. Baldwin (2cps.)	" " "	Tech. Ops. Div.	West Nyack, NY 10994
P.F. Pratte	" " "	7 Parkway Center	Pittsburgh, PA 15220
Roland Whisler	" " "	P.O. Box 1429	York, PA 17405
Stephen Miller	" " "	P.O. Box 149	Coshocton, OH 43812
B.K. Mayer	" " "	Tech. Ops. Div.	West Nyack, NY 10994
I.H. Stockel	" " "	" "	" " "
R.J. Romagnoli	" " "	" "	" " "
C.R. Hamilton	So. Carolina Ind.	P.O. Box 4000	Florence, SC 29501
F.E. Kneip	Stone Container Corporation		Chicago, Illinois
D.L. Hutchison	" "	P.O. Box 116	Coshocton, Ohio 43812
W.B. Stengle	Tennessee River	Box 33	Counce, TN 38326
C.P. Spring	" "	" "	" " "
W.W. Ricketson	VIRGINIA FIBRE CORPORATION	P.O. Box 339	Amhurst, VA 24321

1975 Medium Baseline Mlg. Lists

-3-

January 1, 1975

R.G. Barker	Union Camp	P.O. Box 412	Princeton, NJ 08540
Roger Bart	"	P.O. Box 570	Savannah, GA 31402
E.V. Benedict, Jr.	"	" "	" "
J.E. Hungerpiller	"	" "	" "
W.A. Pfeifer	"	1600 Valley Rd.	Wayne, NJ 07470
W.H. Trice	"	" "	" "
J.J. Batelka	"	" "	" "
H.T. Scordas	"	P.O. Box 570	Savannah, GA 31402
J. Fuko	"	-	Monroe, MI 48161
E.J. McCue	"	-	" " "
H.T. Robson	"	P.O. Box 326	Montgomery, AL 36101
W.W. Shorter	"	" "	" "
R.A. Dinehart	Western Kraft	P.O. Box 339	Albany, OR 97321
R.B. Keller	" "	1300 S.W. 5th Ave.	Portland, OR 97201
T.L. Campbell	" "	" "	" "
P.A. Christjohn	Westvaco	299 Park Avenue	New York, NY 10017
J.R. Ballengee	"	" "	" " "
E.C. Williams, Jr.	"	-	Covington, VA 24426
H.B. Casey	"	-	" "
	"	-	Williamsburg, PA 16693
	"	-	" "
C.J. Gose	"	60 Romanelli Ave.	S. Hackensack, NJ 07606
D.O. Adams	"	P.O. Box 5207	N. Charleston, SC 29406
	"	" "	" " " "
Dir. Inf. Serv. Ctr. (2cps)	"	" "	" " " "
R.M. Morris	Weyerhaeuser	-	Tacoma, WA 98401
C.M. Koon	"	P.O. Box 188	Longview, WA 98632
R.E. Perry	"	-	Plymouth, NC 27962
R.H. Quick	"	-	Tacoma, WA 98401
J.W. Homans	"	P.O. Drawer C.	Valliant, OK 74764
W. S. Fuller	"	P. O. Box 1228	Everett, WA 98206
T.J. Gross	FKI	Ste. 810, 1605 Main St.	Sarasota, FL 33577
A.R. Boren	"	280 Park Avenue	New York, NY 10017
D. Meighen	Weston Paper	Box 539	Terre Haute, Ind. 57808

BASE-LINE
JULY-AUGUST, 1976

THE INSTITUTE OF PAPER CHEMISTRY
Appleton, Wisconsin

CONTINUOUS BASE-LINE STUDY (MODIFIED)
(MILL CORRUGATING MEDIUM DATA FOR JULY AND AUGUST, 1976)

Project 2694-2

Report Twenty-Two

A Progress Report

to

FOURDRINIER KRAFT BOARD INSTITUTE, INC.

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

October 27, 1976

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THE INSTITUTE OF PAPER CHEMISTRY

Appleton, Wisconsin

CONTINUOUS BASE-LINE STUDY (MODIFIED)
(MILL CORRUGATING MEDIUM DATA FOR JULY AND AUGUST, 1976)

Test	May		June		July		August	
	Total Recycled		Total Recycled		Total Recycled		Total Recycled	
Moisture Content, %	Max. ^a 9.4	Min. ^a 4.3	Max. ^a 9.2	Min. ^a 4.6	Max. ^a 9.3	Min. ^a 4.4	Max. ^a 9.3	Min. ^a 4.5
	Av. ^b 6.4(36)	5.7(7)	6.4(37)	5.9(7)	6.3(36)	5.7(7)	6.4(35)	5.8(7)
Adj. basis weight, lb/M ft ²	Max. ^a 27.1	27.0	27.0	26.9	27.5	27.0	26.9	26.8
	Min. ^a 25.7	26.3	25.5	26.2	25.7	26.3	25.8	26.1
	Av. ^b 26.4(36)	26.6(7)	26.4(37)	26.6(7)	26.4(36)	26.6(7)	26.4(35)	26.5(7)
Caliper, pt.	Max. ^a 11.3	10.0	11.6	10.0	10.9	10.0	11.3	10.0
	Min. ^a 8.9	9.0	8.7	9.0	8.8	9.0	8.6	9.0
	Av. ^b 9.9(35)	9.2(7)	9.8(36)	9.2(7)	9.7(35)	9.2(7)	9.8(34)	9.2(7)
Concora, psi	Max. ^a 44.9	39.0	46.0	39.6	44.8	40.2	44.5	39.6
	Min. ^a 35.0	36.0	36.1	36.4	33.8	36.1	35.6	35.6
	Av. ^b 38.8(36)	37.5(7)	38.9(37)	37.5(7)	38.7(36)	37.4(7)	38.7(35)	37.3(7)

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

SUMMARY OF 26-LB CORRUGATING MEDIUM DATA
(MAY-AUGUST, 1976)

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 members mills of F.K.B.I., Inc. Mill data are included for moisture content, basis weight, caliper, and Concora 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, and Concora results are compiled in the following tables.

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

The procedures used in calculating cumulative machine averages, machine factors, machine indexes, and F.K.I. 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
DATA ON CONDITIONING AND TESTING ENVIRONMENTS
JULY AND AUGUST, 1976

Code	Conditioning Environment				Testing Environment
	Are Quality Samples Conditioned Before Testing?	Time	Temp., °F	RH, %	Are Quality Samples Tested Under Controlled Conditions of Temperature and Humidity?
A1	No	--	--	--	Yes: $73 \pm 2^{\circ}\text{F}$; $50 \pm 5\%$ RH
B1	Yes	--	--	--	Yes: $73 \pm 2^{\circ}\text{F}$; $50 \pm 5\%$ RH
C1	Yes	20 Min	--	--	Yes: $73 \pm 2^{\circ}\text{F}$; $50 \pm 2\%$ RH
D1	No	--	--	--	No
E1	No	--	--	--	No
F1	No	--	--	--	Yes: $72 \pm 2^{\circ}\text{F}$; $50 \pm 2\%$ RH
G1	No	--	--	--	No
H1	No	--	--	--	No
I1	No	--	--	--	Yes: $72 \pm 2^{\circ}\text{F}$; $50 \pm 5\%$ RH
J1	No	--	--	--	No
K1	No	--	--	--	No
L1	No	--	--	--	Yes: $72 \pm 1^{\circ}\text{F}$; $50 \pm 2\%$ RH
M1	No	--	--	--	No
N1	No data submitted for July and August				No
O1	No	--	--	--	No
P1	No	--	--	--	Yes: $73 \pm 3^{\circ}\text{F}$; $50 \pm 2\%$ RH
Q1	No	--	--	--	Yes: $73 \pm 1^{\circ}\text{F}$; $50 \pm 2\%$ RH
R1	No	--	--	--	Yes: $73 \pm 2^{\circ}\text{F}$; $50 \pm 2\%$ RH
S1	No	--	--	--	No
T1	No	--	--	--	Yes: $73 \pm 3.5^{\circ}\text{F}$; $50 \pm 2\%$ RH
U1	No	--	--	--	No
V1	No	--	--	--	No
W1	No	--	--	--	Yes: $73 \pm 1^{\circ}\text{F}$; $50 \pm 2\%$ RH
X1	No	--	--	--	Yes: $72 \pm 1^{\circ}\text{F}$; $50 \pm 2\%$ RH
Y1	No	--	--	--	Yes: $73 \pm 2^{\circ}\text{F}$; $50 \pm 2\%$ RH
Z1	No	--	--	--	No
A2	Yes	20 Min	--	--	Yes: $72 \pm 2^{\circ}\text{F}$; $50 \pm 2\%$ RH
B2	No	--	--	--	No
C2	No data submitted for July and August				No
D2	No	--	--	--	No
E2	No	--	--	--	No
F2	No	--	--	--	Yes: $72 \pm 2^{\circ}\text{F}$; $50 \pm 3\%$ RH
G2	Yes	--	73	50	Yes: 73°F ; $50 \pm 2\%$ RH
H2	No	--	--	--	No
I2	No	--	--	--	No
J2	No	--	--	--	No
K2	No	--	--	--	Yes: $73 \pm 2^{\circ}\text{F}$; $50 \pm 2\%$ RH
L2	No	--	--	--	No

TABLE II
AVERAGES OF ROUTINE MILL QUALITY CONTROL DATA FOR 26 LB. CORRUGATING MEDIUM
JULY, 1976

CODE *E	MOISTURE CONTENT, PERCENT				ADJ. BASIS WT.,*A LB./ M SQ. FT.				CALIPER, PT.				CONCORA TEST, P.S.I.			
	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
A1(R)	5.6	5.7	98.2	89.0	26.7	26.8	99.6	101.0	9.1	8.8	103.4	91.4	37.2	37.1	100.3	95.8
B1	6.1	6.2	98.4	97.0	26.5	26.5	100.0	100.2	10.2	10.4	98.1	102.5	37.0	37.4	98.9	95.3
C1	6.5	6.0	108.3	103.3	27.0	27.3	98.9	102.1	9.1	9.9	91.9	91.4	37.4	38.0	98.4	96.4
D1	6.8	6.7	101.5	108.1	26.3	26.7	98.5	99.5	9.0	9.6	93.8	90.4	39.0	38.8	100.5	100.5
E1	9.3	9.2	101.1	147.8	25.8	25.8	100.0	97.6	10.6	10.6	100.0	106.5	41.4	42.7	97.0	106.7
F1	7.1	6.8	104.4	112.8	26.3	26.6	98.9	99.5	10.4	10.8	96.3	104.5	38.1	38.0	100.3	98.2
G1	6.1	6.4	95.3	97.0	26.5	26.4	100.4	100.2	9.0	9.4	95.7	90.4	37.2	37.8	98.4	95.8
H1(R)	6.1	6.0	101.7	97.0	26.3	26.3	100.0	99.5	9.0	9.0	100.0	90.4	37.5	36.9	101.6	96.6
I1	6.8	6.6	103.0	108.1	26.4	26.6	99.2	99.8					39.6	40.8	97.0	102.0
J1	4.6	5.1	90.2	73.1	26.2	26.4	99.2	99.1	9.7	9.9	98.0	97.5	36.1	36.9	97.8	93.0
K1	6.3	6.4	98.4	100.1	26.1	26.4	98.9	98.7	9.4	9.5	98.9	94.5	44.8	45.9	97.6	115.4
L1	6.0	6.0	100.0	95.4	26.3	26.4	99.6	99.5	10.4	10.4	100.0	104.5	39.6	39.8	99.5	102.0
M1	6.6	6.3	104.8	104.9	26.2	26.4	99.2	99.1	9.7	9.8	99.0	97.5	40.8	40.4	101.0	105.1
N1		6.0				26.4					9.3			37.2		
O1(R)	6.3	5.2	121.2	100.1	26.7	26.9	99.2	101.0	9.1	9.1	100.0	91.4	36.4	36.8	98.9	93.8
P1	6.1	6.3	96.8	97.0	26.4	26.4	100.0	99.8	9.4	9.9	94.9	94.5	42.4	42.0	101.0	109.2
Q1	7.0	6.9	101.4	111.2	26.1	26.1	100.0	98.7	10.1	10.0	101.0	101.5	42.0	42.2	99.5	108.2
R1	6.7	7.0	95.7	106.5	26.4	26.2	100.8	99.8	10.0	10.5	95.2	100.5	39.0	36.7	106.3	100.5
S1	6.5	6.4	101.6	103.3	26.1	26.2	99.6	98.7	10.4	10.5	99.0	104.5	33.8	35.2	96.0	87.1
T1	6.3	5.8	108.6	100.1	26.7	26.7	100.0	101.0	9.1	8.9	102.2	91.4	39.7	40.1	99.0	102.3
U1	5.9	5.7	103.5	93.8	26.2	26.2	100.0	99.1	10.0	9.5	105.3	100.5	39.6	39.6	100.0	102.0
V1	6.2	7.3	84.9	98.5	25.7	25.9	99.2	97.2	9.8	10.8	90.7	98.5	37.4	37.1	100.8	96.4
W1	6.0	5.7	105.3	95.4	26.2	26.2	100.0	99.1	10.4	10.9	95.4	104.5	38.3	38.0	100.8	98.7
X1	5.9	5.8	101.7	93.8	26.2	26.4	99.2	99.1	9.9	10.5	94.3	99.5	40.2	40.4	99.5	103.6
Y1	7.6	7.2	105.6	120.8	26.0	26.2	99.2	98.3	10.1	10.6	95.3	101.5	38.0	36.1	105.3	97.9
Z1	5.6	6.3	88.9	89.0	26.9	27.0	99.6	101.7	9.3	9.5	97.9	93.5	39.2	41.4	94.7	101.0
A2	7.3	7.0	104.3	116.0	26.3	26.2	100.4	99.5	10.6	10.1	105.0	106.5	36.6	36.2	101.1	94.3
B2	5.1	6.0	85.0	81.0	26.9	26.2	102.7	101.7	10.9	11.6	94.0	109.5	36.5	36.6	99.7	94.0
C2		6.2				26.1					10.7			39.0		
D2	5.9	5.7	103.5	93.8	26.3	26.7	98.5	99.5	10.8	11.0	98.2	108.5	39.5	40.5	97.5	101.8
E2	6.7	6.2	108.1	106.5	26.3	26.6	98.9	99.5	10.0	10.0	100.0	100.5	39.6	40.0	99.0	102.0
F2(R)	6.1	6.2	98.4	97.0	26.4	26.5	99.6	99.8	10.0	10.0	100.0	100.5	38.3	39.0	98.2	98.7
G2	6.9	5.7	121.0	109.7	27.5	26.6	103.4	104.0	8.8	8.9	98.9	88.4	38.3	39.6	96.7	98.7
H2(R)	6.0	6.4	93.8	95.4	27.0	26.5	101.9	102.1	9.0	9.1	98.9	90.4	40.2	39.4	102.0	103.6
I2(R)	4.4	4.1	107.3	69.9	26.7	27.1	98.5	101.0	9.0	9.0	100.0	90.4	36.4	37.3	97.6	93.8
J2	6.7	6.6	101.5	106.5	25.9	26.0	99.6	98.0	10.4	10.2	102.0	104.5	40.8	41.1	99.3	105.1
K2	6.7	6.9	97.1	106.5	26.5	26.4	100.4	100.2	9.3	10.1	92.1	93.5	40.0	37.4	107.0	103.1
L2(R)	5.6	4.8	116.7	89.0	26.7	26.8	99.6	101.0	9.0	9.0	100.0	90.4	36.1	35.3	102.3	93.0
FKI DATA																
	TOTAL		RECYCLED		TOTAL		RECYCLED		TOTAL		RECYCLED		TOTAL		RECYCLED	
CUR. AV	6.3		5.7		26.4		26.6		9.7		9.2		38.7		37.4	
CUM. AV	6.3		5.8		26.4		26.5		9.9		9.5		38.8		37.7	
IND. *D	100.0		98.3		100.0		100.4		98.0		96.8		99.7		99.2	

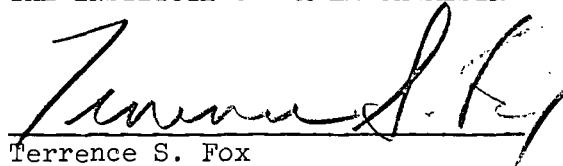
(*)-- NOTES A, B, C, D, AND E, ARE GIVEN IN APPENDIX.

TABLE III
AVERAGES OF ROUTINE MILL QUALITY CONTROL DATA FOR 26 LB. CORRUGATING MEDIUM
AUGUST, 1976

CODE *E	MOISTURE CONTENT, PERCENT				ADJ. BASIS WT.,*A LB./ M SQ. FT.				CALIPER, PT.				CONCORA TEST, P.S.I.			
	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
A1(R)	5.6	5.7	98.2	89.0	26.7	26.8	99.6	101.0	9.1	8.8	103.4	91.7	37.8	37.1	101.9	97.5
B1	6.2	6.2	100.0	98.5	26.3	26.5	99.2	99.5	10.4	10.4	100.0	104.8	36.6	37.4	97.9	94.4
C1		6.0				27.3				9.8				38.1		
D1	6.6	6.7	98.5	104.9	26.6	26.7	99.6	100.6	9.0	9.6	93.8	90.7	38.8	38.8	100.0	100.0
E1	9.3	9.2	101.1	147.8	25.8	25.8	100.0	97.6	10.6	10.6	100.0	106.8	42.0	42.7	98.4	108.3
F1	6.8	6.8	100.0	108.1	26.7	26.6	100.4	101.0	10.2	10.8	94.4	102.8	38.8	38.0	102.1	100.0
G1	6.4	6.4	100.0	101.7	26.4	26.4	100.0	99.8	9.2	9.4	97.9	92.7	36.7	37.5	97.9	94.6
H1(R)	6.0	6.0	100.0	95.4	26.1	26.3	99.2	98.7	9.0	9.0	100.0	90.7	36.7	36.9	99.4	94.6
I1	6.8	6.6	103.0	108.1	26.4	26.5	99.6	99.8					39.6	40.6	97.5	102.1
J1	4.6	5.1	90.2	73.1	26.2	26.4	99.2	99.1	9.2	9.9	92.9	92.7	36.8	36.8	100.0	94.9
K1	6.3	6.4	98.4	100.1	26.2	26.4	99.2	99.1	9.5	9.5	100.0	95.7	44.5	45.6	97.6	114.7
L1	6.4	6.0	106.7	101.7	26.4	26.4	100.0	99.8	10.5	10.4	101.0	105.8	39.6	39.8	99.5	102.1
M1	6.8	6.3	107.9	108.1	26.3	26.4	99.6	99.5	9.6	9.7	99.0	96.7	40.2	40.8	98.5	103.6
N1		6.0				26.4				9.3				37.2		
O1(R)	6.6	5.3	124.5	104.9	26.7	26.9	99.2	101.0	9.1	9.1	100.0	91.7	36.1	36.8	98.1	93.1
P1	6.1	6.3	96.8	97.0	26.4	26.4	100.0	99.8	9.7	9.9	98.0	97.7	42.2	42.0	100.5	108.8
Q1	6.9	7.0	98.6	109.7	26.2	26.1	100.4	99.1	10.1	10.0	101.0	101.8	42.5	42.2	100.7	109.6
R1	7.1	7.0	101.4	112.8	26.2	26.2	100.0	99.1	9.9	10.4	95.2	99.7	37.0	36.7	100.8	95.4
S1	6.4	6.4	100.0	101.7	26.0	26.2	99.2	98.3	10.4	10.5	99.0	104.8	35.9	35.2	102.0	92.6
T1	6.6	5.9	111.9	104.9	26.6	26.7	99.6	100.6	8.9	8.9	100.0	89.7	39.8	40.0	99.5	102.6
U1	5.8	5.8	100.0	92.2	26.1	26.2	99.6	98.7	10.1	9.6	105.2	101.8	39.6	39.6	100.0	102.1
V1	6.7	7.2	93.0	106.5	25.8	25.9	99.6	97.6	10.4	10.7	97.2	104.8	36.8	37.2	98.9	94.9
W1	5.6	5.7	98.2	89.0	26.6	26.2	101.5	100.6	10.7	10.8	99.1	107.8	38.3	38.0	100.8	98.8
X1	5.9	5.8	101.7	93.8	26.1	26.4	98.9	98.7	10.6	10.3	102.9	106.8	40.2	40.4	99.5	103.6
Y1	7.6	7.3	104.1	120.8	26.1	26.2	99.6	98.7	10.1	10.6	95.3	101.8	38.0	36.1	105.3	98.0
Z1	5.7	6.2	91.9	90.6	26.9	27.0	99.6	101.7	9.3	9.4	98.9	93.7	39.1	41.1	95.1	100.8
A2	7.2	7.1	101.4	114.4	26.2	26.2	100.0	99.1	10.1	10.2	99.0	101.8	37.0	36.3	101.9	95.4
B2	5.2	5.9	88.1	82.6	26.8	26.3	101.9	101.4	11.3	11.5	98.3	113.8	36.6	36.6	100.0	94.4
C2		6.2				26.1				10.7				39.0		
D2	6.0	5.7	105.3	95.4	26.5	26.6	99.6	100.2	10.5	11.0	95.4	105.8	39.2	40.4	97.0	101.1
E2	6.8	6.2	109.7	108.1	26.3	26.5	99.2	99.5	10.0	10.0	100.0	100.8	39.0	40.2	97.0	100.6
F2(R)	6.2	6.2	100.0	98.5	26.3	26.5	99.2	99.5	10.0	10.0	100.0	100.8	38.7	38.9	99.5	99.8
G2	6.9	5.9	116.9	109.7	26.8	26.7	100.4	101.4	8.6	8.9	96.6	86.6	39.1	39.5	99.0	100.8
H2(R)	6.0	6.4	93.8	95.4	26.8	26.5	101.1	101.4	9.0	9.1	98.9	90.7	39.6	39.5	100.2	102.1
I2(R)	4.5	4.1	109.8	71.5	26.8	27.0	99.2	101.4	9.0	9.0	100.0	90.7	36.7	37.2	98.6	94.6
J2	6.6	6.6	100.0	104.9	25.9	26.0	99.6	98.0	10.1	10.2	99.0	101.8	40.8	41.1	99.3	105.2
K2	6.9	6.9	100.0	109.7	26.4	26.4	100.0	99.8	9.5	10.0	95.0	95.7	40.0	37.6	106.4	103.1
L2(R)	5.6	4.9	114.3	89.0	26.4	26.8	98.5	99.8	9.0	9.0	100.0	90.7	35.6	35.4	100.6	91.8
FKI DATA																
	TOTAL		RECYCLED		TOTAL		RECYCLED		TOTAL		RECYCLED		TOTAL		RECYCLED	
CUR. AV	6.4		5.8		26.4		26.5		9.8		9.2		38.7		37.3	
CUM. AV	6.3		5.8		26.4		26.6		9.9		9.5		38.8		37.6	
IND. *D	101.6		100.0		100.0		99.6		99.0		96.8		99.7		99.2	

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

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A handwritten signature in dark ink, appearing to read "Terrence S. Fox", is written over a horizontal line.

Terrence S. Fox
Director
Container Division

APPENDIX

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

Notes A, B, C, 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.I. index. It should be stressed that each formula is applicable only to a specific physical property of a specific grade weight of linerboard.

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

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

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

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

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

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

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

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

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.

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

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