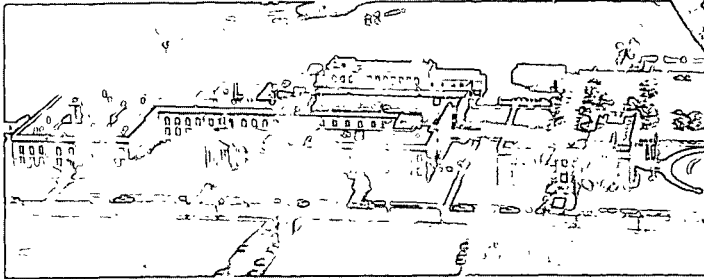


BASE-LINE
MAY-JUNE, 1975



THE INSTITUTE OF PAPER CHEMISTRY, APPLETON, WISCONSIN

CONTINUOUS BASE-LINE STUDY (MODIFIED)
(MILL CORRUGATING MEDIUM DATA FOR MAY AND JUNE, 1975)

Project 2694-2

Report Fifteen

A Progress Report

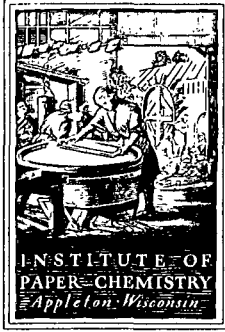
to

FOURDRINIER KRAFT BOARD INSTITUTE, INC.

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

August 20, 1975

(FORM LETTER)



THE INSTITUTE OF PAPER CHEMISTRY
Post Office Box 1048
Appleton, Wisconsin 54911
Phone: 414/734-9251

August 20, 1975

Project 2694-2

Dear Mr. Boren:

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

Report Fifteen, Project 2694-2, a progress report entitled "Continuous Baseline Study of Mill Corrugating Medium: Data for May and June, 1975" dated August 20, 1975.

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,

A handwritten signature in dark ink, appearing to read 'R. C. McKee', written in a cursive style.

R. C. McKee
Director
Container Section

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

RCM/mjm
Enclosure

Same mailing to: T. J. Gross

RECEIVED AUG 25 1975

1043 East South River Street

Subject Project 2694-2

Code Letters for Report Fifteen
dated August 20, 1975; Mill Corrugating
Medium Data for May and June, 1975

| | <u>Company</u> | <u>Mill</u> | <u>Machine No.</u> | <u>Code Letter</u> | <u>Comments</u> |
|-----|---------------------------|---|------------------------|------------------------|------------------------------------|
| 1. | Alton Box Board Co. | Alton Alton | 3 4 | F2 Y1 | |
| 2. | Boise Cascade Corp. | Wallula | 2 | F1 | |
| 3. | Container Corp. of Am. | Circleville Fernandina Beach Wilmington | 5 4 1 | J1 X1 P1 | - NO DATA |
| 4. | Continental Can Co., Inc. | Hodge Hopewell | 1 1 | S1 I1 | |
| 5. | Crown Zellerbach Corp. | Baltimore Baltimore Bogalusa | 1 2 4 | K1 Z1 G1 | |
| 6. | Georgia-Pacific Corp. | Toledo | 2 | D1 | |
| 7. | Great Southern Paper Co. | Cedar Springs | 3 | B1 | |
| 8. | Green Bay Packaging Inc. | Green Bay | - | J2 | |
| 9. | Hoerner Waldorf Corp. | Ontonagon St. Paul St. Paul | 1 4 5 | E1 D2 A2 | |
| 10. | Inland Container Corp. | New Johnsonville | 1 | I2 | |
| 11. | International Paper Co. | Bastrop Bastrop Georgetown | 1 2 1 | E2 C1 B2 | |
| 12. | The Mead Corp. | Harriman Silva Silva | - 1 2 | G2 Q1 W1 | - HARRIMAN SOLD SYLVA SHUT DOWN |
| 13. | Olinkraft, Inc. | Monroe | 1 | N1 | |

| <u>Company</u> | <u>Mill</u> | <u>Machine No.</u> | <u>Code Letter</u> | <u>Comments</u> |
|----------------------------|--------------|------------------------|------------------------|-----------------|
| 14. Packaging Corp. of Am. | Filer City | 1 | A1 | |
| | Filer City | 2 | H1 | |
| | Filer City | 3 | L1 | |
| 15. Stone Container | Coshocton | 1 | U1 | |
| | Coshocton | 2 | H2 | |
| 16. Union Camp Corp. | Savannah | 2 | V1 | |
| 17. Westvaco Corp. | Charleston | 3 | K2 | |
| | Covington | 6 | T1 | |
| | Williamsburg | 1 | M1 | - NO DATA |
| | Williamsburg | 2 | O1 | - NO DATA |
| 18. Weyerhaeuser Company | Plymouth | 3 | R1 | |
| | Valliant | 2 | C2 | |

GJS/mjm

gja

1975 MAILING LIST FOR MEDIUM BASELINE REPORTS

| | | | |
|-----------------------|---------------------|--------------------------|----------------------------|
| B. E. McMahon | | | |
| D.G. Estebo | Alton Box Board | P.O. Box 276 | Alton, IL 62002 |
| R.E. Bowen | " " | 401 Alton St. | " " " |
| B.C. Drumm | " " | " " | " " " |
| K.G. Kleinschmidt | " " | " " | " " " |
| R.M. WILKENS ON | " " | " " | " " " |
| D.R. Bauer | Boise Cascade | P.O. Box 500 | Wallula, WA 99363 |
| T.R. Lock | " " | P.O. Box 1414 | Portland, OR 97207 |
| Gary Guttry | Boise Southern | P.O. Box 1000 | De Ridder, LA 70634 |
| 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. Wandamacher | " " | North Eighth St. | Fernandina Beach, FL 32034 |
| J.A. Allen | " " | - | Oaks, PA 19456 |
| JACK CARNEY | " " | - | WILMINGTON, DEL. 19879 |
| O.H. Atkinson | Continental Can | 51 Weaver St. | Greenwich, CT 06830 |
| E.A. Henry | " " | " " | " " |
| A.C. Elliot | " " | " " | " " |
| W.O. Kroeschell | " " | Box 1425 | Augusta, GA 30903 |
| J.A. Walecka | " " | " " | " " " |
| J.W. Daniel | " " | " " | " " " |
| R.F. Miller | " " | - | Hodge, IA 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 | 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 |
| V.G. Gerttula (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 |
| H.M. McDowell | 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 | " " | " " | " " " |

| | | | |
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| 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 | " " |
| J.O. Harris | 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 |
| A. Oetken | " " | " " | " " " |
| R.F. Ledet | " " | " " | " " " |
| P.D. Schulz | " " | P.O. Box 2328 | Mobile, AL 36601 |
| 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 |
| W.L. Allen | MacMillan Bloedel | - | Pine Hill, AL 36769 |
| J.O. Boesinger (6cps) | 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 60601 |
| W.B. Stengle | Tennessee River | Box 33 | Counce, TN 38326 |
| C.P. Spring | " " | " " | " " " |

January 1, 1975

| | | | |
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| 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 |
| K.F. Halladin | " " | " " | " " |
| | | | |
| P.A. Christjohn | Westvaco | 299 Park Avenue | New York, NY 10017 |
| J.R. Ballengee | " | " " | " " " |
| E.C. Williams, Jr. | " | - | Covington, VA 24426 |
| H.B. Casey | " | - | " " |
| J.L. Ferner | " | - | Williamsburg, PA 16693 |
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| C.J. Gose | " | 60 Romanelli Ave. | S.Hackensack, NJ 07606 |
| D.O. Adams | " | P.O. Box 5207 | N.Charleston, SC 29406 |
| F.C. Haas | " | " " | " " " " |
| Dir.Inf.Serv.Ctr. (2cps) | " | " " | " " " " |
| | | | |
| R.M. Morris | Weyerhaeuser | - | Tacoma, WA 98401 |
| C.M. Koon | " | P.O. Box 188 | Longview, WA 98632 |
| <i>R.E. Perry</i> | " | - | Plymouth, NC 27962 |
| T.D. McDonald | " | - | Tacoma, WA 98401 |
| J.W. Homans | " | P.O. Drawer C. | Valliant, OK 74764 |
| <i>W.S. FULLER</i> | " | <i>Box 1228</i> | <i>EVERETT, WA 98206</i> |
| T.J. Gross | FKI | Ste.810, 1605 Main St. | Sarasota, FL 33577 |
| A.R. Boren | " | 280 Park Avenue | New York, NY 10017 |

Mead Paperboard

4400 Marburg Avenue
Cincinnati, Ohio 45209

Telephone: 513-871-5000

July 15, 1975

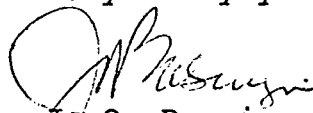
Mr. R. C. McKee
Chairman, Container Section
The Institute of Paper Chemistry
P. O. Box 1048
Appleton, Wisconsin 54911

Re: Continuous Baseline Study - Corrugating Medium

Dear Mr. McKee:

As you are probably aware, we have shut down the mill at Sylva and sold the mill at Harriman. Therefore, both these mills should be deleted from the baseline study. We are in the process of including our new mill at Stevenson, Alabama, in the program and you should be receiving data from them to include in the study. At the present time, we are receiving six copies of the baseline study. We would appreciate your reducing this to four copies. Thanks very much.

~~Very truly yours,~~
Very truly yours,


J. O. Boesinger

Mead Board Customer Services

JOB:MW
cc: T. Gross





Continental
Mill
Operations

Continental Can Company, Inc
Mill Operations Division
Hopewell VA 23860
Tel 703 458 9831

July 29, 1975

The institute of Paper Chemistry
Appleton, Wisconsin 54911

Attn: Mr. R. C. McKee

Dear Sir:

We have ceased operations for the production of corrugating medium.

During this period we will not be a participant in Project 2694-2. We would, however, wish to continue to receive the Base-Line Study results from the participating mills.

Very truly yours,

J. H. Boone
J. H. Boone

McD

RM

BASE-LINE
MAY-JUNE, 1975

THE INSTITUTE OF PAPER CHEMISTRY

Appleton, Wisconsin

CONTINUOUS BASE-LINE STUDY (MODIFIED)
(MILL CORRUGATING MEDIUM DATA FOR MAY AND JUNE, 1975)

Project 2694-2

Report Fifteen

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

August 20, 1975

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THE INSTITUTE OF PAPER CHEMISTRY

Appleton, Wisconsin

CONTINUOUS BASE-LINE STUDY (MODIFIED)
(MILL CORRUGATING MEDIUM DATA FOR MAY AND JUNE, 1975)

SUMMARY OF 26-LB CORRUGATING MEDIUM DATA
(MARCH-JUNE, 1975)

| Test | | March | April | May | June |
|--|-------------------|-----------|-----------|-----------|-----------|
| Moisture Content, % | Max. ^a | 9.0 | 9.0 | 9.1 | 9.0 |
| | Min. ^a | 3.6 | 3.5 | 3.6 | 3.7 |
| | Av. ^b | 6.2 (28) | 6.0 (29) | 6.1 (30) | 6.1 (28) |
| Adj. Basis Weight, lb/M ft ² | Max. ^a | 27.4 | 27.4 | 27.3 | 27.6 |
| | Min. ^a | 25.8 | 25.9 | 25.7 | 25.9 |
| | Av. ^b | 26.4 (28) | 26.5 (29) | 26.5 (30) | 26.5 (28) |
| Caliper, pt. | Max. ^a | 11.6 | 12.0 | 11.8 | 11.6 |
| | Min. ^a | 9.0 | 8.9 | 8.7 | 8.7 |
| | Av. ^b | 9.9 (28) | 10.0 (29) | 9.9 (30) | 9.9 (28) |
| Concora, psi | Max. ^a | 45.7 | 48.2 | 48.6 | 45.8 |
| | Min. ^a | 32.8 | 35.6 | 35.8 | 33.0 |
| | Av. ^b | 38.4 (28) | 38.8 (29) | 39.0 (30) | 38.6 (28) |

^aCurrent machine average.

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

INTRODUCTION

The continuous-based 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
 MAY AND JUNE, 1975

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

TABLE II
 AVERAGES OF ROUTINE MILL QUALITY CONTROL DATA FOR 26 LB. CORRUGATING MEDIUM
 MAY, 1975

| CODE | 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 | 6.7 | 7.3 | 91.8 | 108.1 | 26.4 | 26.1 | 101.1 | 100.0 | 10.4 | 10.7 | 97.2 | 105.0 | 38.0 | 34.9 | 108.9 | 102.7 |
| B1 | 6.7 | 6.7 | 100.0 | 108.1 | 26.2 | 25.9 | 101.2 | 99.2 | 10.2 | 10.2 | 100.0 | 103.0 | 40.2 | 41.2 | 97.6 | 108.6 |
| C1 | 6.4 | 6.4 | 100.0 | 103.2 | 26.2 | 26.0 | 100.8 | 99.2 | 10.6 | 10.8 | 98.1 | 107.1 | 35.9 | 32.8 | 109.4 | 97.0 |
| D1 | 4.8 | 5.6 | 85.7 | 77.4 | 26.6 | 26.7 | 99.6 | 100.8 | 9.3 | 9.2 | 101.1 | 93.9 | 40.1 | 36.6 | 109.6 | 108.4 |
| E1 | 7.5 | 7.3 | 102.7 | 121.0 | 26.3 | 26.4 | 99.6 | 99.6 | 11.4 | 10.9 | 104.6 | 115.2 | 37.7 | 38.7 | 97.4 | 101.9 |
| F1 | 9.1 | 9.1 | 100.0 | 146.8 | 25.7 | 25.8 | 99.6 | 97.3 | 10.9 | 11.0 | 99.1 | 110.1 | 40.1 | 40.0 | 100.2 | 108.4 |
| G1 | 6.1 | 6.2 | 98.4 | 98.4 | 27.2 | 27.2 | 100.0 | 103.0 | 9.7 | 9.8 | 99.0 | 98.0 | 37.4 | 37.6 | 99.5 | 101.1 |
| H1 | 6.9 | 7.0 | 98.6 | 111.3 | 26.4 | 26.4 | 100.0 | 100.0 | 10.8 | 10.8 | 100.0 | 109.1 | 37.0 | 35.6 | 103.9 | 100.0 |
| I1 | 5.3 | 4.5 | 117.8 | 85.5 | 26.3 | 26.2 | 100.4 | 99.6 | 9.9 | 9.5 | 104.2 | 100.0 | 37.5 | 37.3 | 100.5 | 101.4 |
| J1 | | 6.8 | | | | 26.4 | | | | | | | | 37.4 | | |
| K1 | 3.6 | 3.9 | 92.3 | 58.1 | 26.8 | 27.9 | 96.0 | 101.5 | 9.0 | 9.1 | 98.9 | 90.9 | 39.3 | 38.0 | 103.4 | 106.2 |
| L1 | 7.0 | 7.2 | 97.2 | 112.9 | 26.6 | 26.5 | 100.4 | 100.8 | 9.9 | 9.9 | 100.0 | 100.0 | 38.0 | 36.6 | 103.8 | 102.7 |
| M1 | | 6.1 | | | | 26.3 | | | | | 9.6 | | | 34.2 | | |
| N1 | 5.1 | 5.1 | 100.0 | 82.2 | 26.3 | 26.2 | 100.4 | 99.6 | 10.7 | 10.7 | 100.0 | 108.1 | 39.1 | 38.2 | 102.4 | 105.7 |
| O1 | | 6.1 | | | | 26.1 | | | | | 9.7 | | | 33.2 | | |
| P1 | 6.5 | 6.9 | 94.2 | 104.8 | 26.5 | 26.4 | 100.4 | 100.4 | 9.0 | 9.0 | 100.0 | 90.9 | 39.6 | 38.0 | 104.2 | 107.0 |
| Q1 | | | | | | | | | | | | | | | | |
| R1 | 5.8 | 6.0 | 96.7 | 93.5 | 26.2 | 26.1 | 100.4 | 99.2 | 9.5 | 9.6 | 99.0 | 96.0 | 39.0 | 40.2 | 97.0 | 105.4 |
| S1 | 5.7 | 6.2 | 91.9 | 91.9 | 26.2 | 26.2 | 100.0 | 99.2 | 9.9 | 9.6 | 103.1 | 100.0 | 35.8 | 36.0 | 99.4 | 96.8 |
| T1 | 6.3 | 6.0 | 105.0 | 101.6 | 26.7 | 26.6 | 100.4 | 101.1 | 10.1 | 10.1 | 100.0 | 102.0 | 36.0 | 37.8 | 95.2 | 97.3 |
| U1 | 6.1 | 5.9 | 103.4 | 98.4 | 27.2 | 27.0 | 100.7 | 103.0 | 9.9 | 10.1 | 98.0 | 100.0 | 37.8 | 39.0 | 96.9 | 102.2 |
| V1 | 5.6 | 5.8 | 96.6 | 90.3 | 26.5 | 26.4 | 100.4 | 100.4 | 8.7 | 9.4 | 92.6 | 87.9 | 41.5 | 36.8 | 112.8 | 112.2 |
| W1 | | | | | | | | | | | | | | | | |
| X1 | 5.6 | 6.0 | 93.3 | 90.3 | 26.3 | 26.3 | 100.0 | 99.6 | 9.6 | 9.7 | 99.0 | 97.0 | 42.6 | 41.5 | 102.6 | 115.1 |
| Y1 | 4.0 | 3.8 | 105.3 | 64.5 | 26.9 | 26.9 | 100.0 | 101.9 | 9.4 | 9.2 | 102.2 | 94.9 | 37.5 | 32.5 | 115.4 | 101.4 |
| Z1 | 6.1 | 6.1 | 100.0 | 98.4 | 26.4 | 26.7 | 98.9 | 100.0 | 9.2 | 9.3 | 98.9 | 92.9 | 37.7 | 37.8 | 99.7 | 101.9 |
| A2 | 7.7 | 7.5 | 102.7 | 124.2 | 26.1 | 26.0 | 100.4 | 98.9 | 10.3 | 10.2 | 101.0 | 104.0 | 37.2 | 36.4 | 102.2 | 100.5 |
| B2 | 6.4 | 5.6 | 114.3 | 103.2 | 26.4 | 26.5 | 99.6 | 100.0 | 9.3 | 9.2 | 101.1 | 93.9 | 48.6 | 45.0 | 108.0 | 131.4 |
| C2 | 7.1 | 7.1 | 100.0 | 114.5 | 26.3 | 26.4 | 99.6 | 99.6 | 9.7 | 9.4 | 103.2 | 98.0 | 38.6 | 38.8 | 99.5 | 104.3 |
| D2 | 5.8 | 6.2 | 93.5 | 93.5 | 26.9 | 26.4 | 101.9 | 101.9 | 11.8 | 11.4 | 103.5 | 119.2 | 36.5 | 35.0 | 104.3 | 98.6 |
| E2 | | 6.8 | | | | 26.0 | | | | | 10.6 | | | 36.4 | | |
| F2 | 4.0 | 3.8 | 105.3 | 64.5 | 27.3 | 27.3 | 100.0 | 103.4 | 10.0 | 9.7 | 103.1 | 101.0 | 37.7 | 32.4 | 116.4 | 101.9 |
| G2 | | | | | | | | | | | | | | | | |
| H2 | 6.0 | 5.5 | 109.1 | 96.8 | 26.4 | 26.8 | 98.5 | 100.0 | 9.8 | 10.2 | 96.1 | 99.0 | 39.0 | 37.8 | 103.2 | 105.4 |
| I2 | 5.8 | 5.7 | 101.8 | 93.5 | 26.6 | 26.6 | 100.0 | 100.8 | 9.4 | 9.3 | 101.1 | 94.9 | 40.4 | 37.0 | 109.2 | 109.2 |
| J2 | 6.9 | 6.9 | 100.0 | 111.3 | 26.1 | 26.2 | 99.6 | 98.9 | 9.7 | 9.9 | 98.0 | 98.0 | 43.3 | 41.6 | 104.1 | 117.0 |
| K2 | 6.3 | | | 101.6 | 26.4 | | | 100.0 | 9.8 | | | | 99.0 | 38.6 | | 104.3 |
| FKI DATA | | | | | | | | | | | | | | | | |
| CUR. | | | | | | | | | | | | | | | | |
| AV. | 6.1 | | | | 26.5 | | | | 9.9 | | | | 39.0 | | | |
| CUM. | | | | | | | | | | | | | | | | |
| AV. | 6.2 | | | | 26.4 | | | | 9.9 | | | | 37.0 | | | |
| IND. | | | | | | | | | | | | | | | | |
| *D | 98.4 | | | | 100.4 | | | | 100.0 | | | | 105.4 | | | |

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

TABLE III

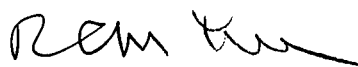
AVERAGES OF ROUTINE MILL QUALITY CONTROL DATA FOR 26 LB. CORRUGATING MEDIUM

JUNE, 1975

| CODE | 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 | 6.7 | 7.2 | 93.0 | 108.1 | 26.4 | 26.1 | 101.1 | 100.0 | 10.5 | 10.7 | 98.1 | 106.1 | 38.0 | 35.3 | 107.6 | 102.2 |
| B1 | 6.6 | 6.7 | 98.5 | 106.4 | 26.1 | 25.9 | 100.8 | 98.9 | 10.2 | 10.2 | 100.0 | 103.0 | 40.8 | 41.2 | 99.0 | 109.7 |
| C1 | 6.4 | 6.4 | 100.0 | 103.2 | 26.2 | 26.0 | 100.8 | 99.2 | 10.6 | 10.8 | 98.1 | 107.1 | 34.9 | 32.9 | 106.1 | 93.8 |
| D1 | 4.8 | 5.4 | 88.9 | 77.4 | 26.6 | 26.7 | 99.6 | 100.8 | 9.4 | 9.2 | 102.2 | 94.9 | 39.2 | 37.1 | 105.7 | 105.4 |
| E1 | 7.4 | 7.3 | 101.4 | 119.4 | 26.1 | 26.4 | 98.9 | 98.9 | 10.7 | 11.0 | 97.3 | 108.1 | 37.9 | 38.5 | 98.4 | 101.9 |
| F1 | 9.0 | 9.1 | 98.9 | 145.2 | 25.9 | 25.8 | 100.4 | 98.1 | 10.7 | 11.0 | 97.3 | 108.1 | 41.3 | 40.1 | 103.0 | 111.0 |
| G1 | 5.9 | 6.1 | 96.7 | 95.2 | 27.3 | 27.2 | 100.4 | 103.4 | 9.8 | 9.8 | 100.0 | 99.0 | 38.2 | 37.5 | 101.9 | 102.7 |
| H1 | 6.7 | 7.0 | 95.7 | 108.1 | 26.5 | 26.4 | 100.4 | 100.4 | 10.6 | 10.8 | 98.1 | 107.1 | 37.0 | 35.7 | 103.6 | 99.5 |
| I1 | | 4.6 | | | | 26.2 | | | | 9.6 | | | | 37.4 | | |
| J1 | | 6.8 | | | | 26.4 | | | | | | | | 37.5 | | |
| K1 | 3.7 | 3.8 | 97.4 | 59.7 | 26.8 | 27.8 | 96.4 | 101.5 | 9.0 | 9.1 | 98.9 | 90.9 | 38.9 | 38.2 | 101.8 | 104.6 |
| L1 | 6.9 | 7.2 | 95.8 | 111.3 | 26.4 | 26.5 | 99.6 | 100.0 | 9.9 | 9.9 | 100.0 | 100.0 | 40.0 | 36.8 | 108.7 | 107.5 |
| M1 | | 6.1 | | | | 26.3 | | | | 9.6 | | | | 34.2 | | |
| N1 | 5.7 | 5.1 | 111.8 | 91.9 | 26.3 | 26.2 | 100.4 | 99.6 | 11.1 | 10.7 | 103.7 | 112.1 | 37.8 | 38.4 | 98.4 | 101.6 |
| O1 | | 6.0 | | | | 26.2 | | | | 9.7 | | | | 33.2 | | |
| P1 | 6.0 | 6.8 | 88.2 | 96.8 | 26.8 | 26.5 | 101.1 | 101.5 | 9.0 | 9.0 | 100.0 | 90.9 | 39.6 | 38.2 | 103.7 | 106.4 |
| Q1 | | | | | | | | | | | | | | | | |
| R1 | 5.7 | 6.0 | 95.0 | 91.9 | 26.1 | 26.1 | 100.0 | 98.9 | 9.6 | 9.6 | 100.0 | 97.0 | 39.6 | 40.1 | 98.8 | 106.4 |
| S1 | 6.3 | 6.2 | 101.6 | 101.6 | 26.7 | 26.2 | 101.9 | 101.1 | 9.9 | 9.7 | 102.1 | 100.0 | 36.1 | 36.0 | 100.3 | 97.0 |
| T1 | 6.6 | 6.1 | 108.2 | 106.4 | 26.6 | 26.6 | 100.0 | 100.8 | 10.0 | 10.1 | 99.0 | 101.0 | 37.0 | 37.8 | 97.9 | 99.5 |
| U1 | 6.1 | 6.0 | 101.7 | 98.4 | 27.0 | 27.1 | 99.6 | 102.3 | 9.9 | 10.0 | 99.0 | 100.0 | 33.0 | 38.4 | 85.9 | 88.7 |
| V1 | 5.6 | 5.8 | 96.6 | 90.3 | 26.7 | 26.4 | 101.1 | 101.1 | 8.7 | 9.4 | 92.6 | 87.9 | 41.7 | 37.2 | 112.1 | 112.1 |
| W1 | | | | | | | | | | | | | | | | |
| X1 | 5.8 | 5.9 | 98.3 | 93.5 | 26.2 | 26.3 | 99.6 | 99.2 | 9.6 | 9.7 | 99.0 | 97.0 | 40.9 | 41.6 | 98.3 | 109.9 |
| Y1 | 4.0 | 3.8 | 105.3 | 64.5 | 26.8 | 26.8 | 100.0 | 101.5 | 9.2 | 9.2 | 100.0 | 92.9 | 37.4 | 32.9 | 113.7 | 100.5 |
| Z1 | | 6.1 | | | | 26.6 | | | | 9.3 | | | | 37.8 | | |
| A2 | 7.9 | 7.5 | 105.3 | 127.4 | 26.0 | 26.0 | 100.0 | 98.5 | 10.6 | 10.2 | 103.9 | 107.1 | 36.8 | 36.6 | 100.5 | 98.9 |
| B2 | 6.4 | 5.6 | 114.3 | 103.2 | 26.5 | 26.5 | 100.0 | 100.4 | 9.3 | 9.2 | 101.1 | 93.9 | 45.8 | 45.2 | 101.3 | 123.1 |
| C2 | 7.0 | 7.1 | 98.6 | 112.9 | 26.4 | 26.4 | 100.0 | 100.0 | 9.3 | 9.4 | 98.9 | 93.9 | 38.3 | 38.8 | 98.7 | 103.0 |
| D2 | 6.3 | 6.2 | 101.6 | 101.6 | 26.5 | 26.4 | 100.4 | 100.4 | 11.6 | 11.4 | 101.8 | 117.2 | 36.3 | 35.2 | 103.1 | 97.6 |
| E2 | | 6.7 | | | | 26.0 | | | | 10.7 | | | | 36.5 | | |
| F2 | 3.8 | 3.8 | 100.0 | 61.3 | 27.6 | 27.3 | 101.1 | 104.5 | 9.8 | 9.8 | 100.0 | 99.0 | 38.5 | 33.0 | 116.7 | 103.5 |
| G2 | | | | | | | | | | | | | | | | |
| H2 | 4.8 | 5.8 | 82.8 | 77.4 | 27.5 | 26.6 | 103.4 | 104.2 | 9.7 | 10.0 | 97.0 | 98.0 | 36.6 | 38.4 | 95.3 | 98.4 |
| I2 | 6.2 | 5.8 | 106.9 | 100.0 | 26.4 | 26.6 | 99.2 | 100.0 | 9.5 | 9.3 | 102.2 | 96.0 | 40.7 | 37.4 | 108.8 | 109.4 |
| J2 | 6.8 | 6.9 | 98.6 | 109.7 | 26.1 | 26.2 | 99.6 | 98.9 | 9.8 | 9.8 | 100.0 | 99.0 | 42.4 | 41.8 | 101.4 | 114.0 |
| K2 | 6.2 | 6.3 | 98.4 | 100.0 | 26.3 | 26.4 | 99.6 | 99.6 | 9.6 | 9.8 | 98.0 | 97.0 | 36.8 | 38.6 | 95.3 | 98.9 |
| FKI DATA | | | | | | | | | | | | | | | | |
| CUR. | | | | | | | | | | | | | | | | |
| AV. | 6.1 | | | | 26.5 | | | | 9.9 | | | | 38.6 | | | |
| CUM. | | | | | | | | | | | | | | | | |
| AV. | 6.2 | | | | 26.4 | | | | 9.9 | | | | 37.2 | | | |
| IND. | | | | | | | | | | | | | | | | |
| *D | 98.4 | | | | 100.4 | | | | 100.0 | | | | 103.8 | | | |

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

THE INSTITUTE OF PAPER CHEMISTRY



R. C. McKee
Chairman
Container Section

APPENDIX

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

Notes A, B, C, and D, used in the tables of mill data are given below; these notes define the procedure used in calculating adjusted basis weight, machine factor, machine index, and F.K.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

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

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

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

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

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

^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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