



# *Institute of Paper Science and Technology*

BASE-LINE  
1st HALF, 1991

CONTINUOUS BASE-LINE STUDY (MODIFIED)  
(MILL CORRUGATING MEDIUM DATA FOR JAN-FEB, MAR-APR, MAY-JUN, 1991)

A Progress Report

to

THE CONTAINERBOARD & KRAFT PAPER GROUP

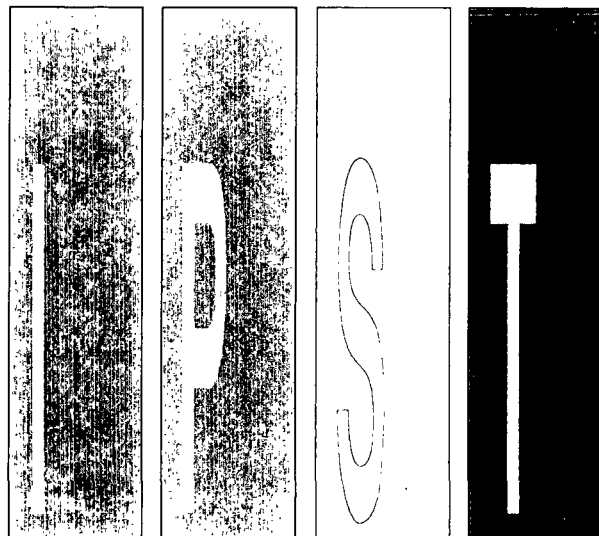
OF THE

AMERICAN PAPER INSTITUTE

Project 2694-2

Report Seventy-Three

September 1, 1991



Atlanta, Georgia



November 4, 1991

Mr. Doug Armstrong  
Georgia Pacific Corporation  
P.O. Box 105605  
133 Peachtree Street  
Atlanta, GA 30348

Dear Sir:

We are enclosing a copy of the following report to the Containerboard & Kraft Paper Group of The American Paper Institute.

Report Seventy Three, **Project 2694-2** a progress report entitled, "Continuous Baseline Study (modified); Mill Corrugating Medium Data for Jan-Feb, Mar-Apr, May-Jun 1991" dated September 1, 1991.

The code identities for paper machines in your company from which data were submitted for evaluation are:

| MILL          | MACHINE # | CODE LETTER |
|---------------|-----------|-------------|
| Cedar Springs | 3         | A3          |
| Toledo*       | 2         | A4          |
| Big Island    | 1         | I3          |
| Big Island    | 3         | I4          |

Sincerely,

Roger H. Van Eperen  
Principal Assoc. Technologist  
Paper Analysis Group  
Research Services Division

RHV/CW  
Enclosure

*Institute of Paper Science and Technology, Inc.*

BASE-LINE  
1st HALF, 1991

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, 1991)

Project 2694-2

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OF THE

AMERICAN PAPER INSTITUTE

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September 1, 1991

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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, 1991)

**SUMMARY**

**MOISTURE CONTENT, %**

| Medium Grade Wt. |      | JAN-FEB  |          | MAR-APR  |          | MAY-JUN  |          |
|------------------|------|----------|----------|----------|----------|----------|----------|
|                  |      | Total    | Recycled | Total    | Recycled | Total    | Recycled |
| 26 Lb.           | Max. | 9.6      | 9.4      | 9.5      | 9.4      | 9.4      | 9.1      |
|                  | Min. | 5.7      | 5.7      | 5.6      | 5.6      | 5.8      | 5.8      |
|                  | Ave. | 7.3 (28) | 6.4 (10) | 7.4 (27) | 7.1 (9)  | 7.4 (25) | 7.3 (9)  |
| 33 Lb.           | Max. | 9.6      | 8.5      | 9.2      | 8.6      | 9.3      | 8.6      |
|                  | Min. | 6.8      | 6.8      | 6.0      | 6.0      | 5.9      | 5.9      |
|                  | Ave. | 7.7 (19) | 7.5 (4)  | 7.6 (19) | 7.1 (4)  | 7.6 (18) | 7.3 (4)  |

**BASIS WEIGHT**

|        |      | JAN-FEB   |           | MAR-APR   |           | MAY-JUN   |           |
|--------|------|-----------|-----------|-----------|-----------|-----------|-----------|
|        |      | Total     | Recycled  | Total     | Recycled  | Total     | Recycled  |
| 26 Lb. | Max. | 26.7      | 26.7      | 26.7      | 26.7      | 26.8      | 26.8      |
|        | Min. | 25.3      | 25.4      | 25.4      | 25.5      | 25.4      | 25.4      |
|        | Ave. | 26.2 (29) | 26.3 (11) | 26.1 (28) | 26.3 (10) | 26.2 (26) | 26.3 (10) |
| 33 Lb. | Max. | 33.3      | 33.2      | 33.6      | 33.6      | 34.1      | 33.8      |
|        | Min. | 32.2      | 32.9      | 32.4      | 32.9      | 29.1      | 29.1      |
|        | Ave. | 33.0 (20) | 33.1 (5)  | 33.0 (20) | 33.1 (5)  | 32.8 (19) | 32.4 (5)  |

**CALIPER**

|        |      | JAN-FEB   |          | MAR-APR   |          | MAY-JUN   |          |
|--------|------|-----------|----------|-----------|----------|-----------|----------|
|        |      | Total     | Recycled | Total     | Recycled | Total     | Recycled |
| 26 Lb. | Max. | 11.8      | 11.6     | 11.0      | 11.0     | 10.9      | 10.9     |
|        | Min. | 7.1       | 8.8      | 7.2       | 8.6      | 8.2       | 8.6      |
|        | Ave. | 9.5 (27)  | 9.9 (11) | 9.6 (26)  | 9.6 (10) | 9.2 (24)  | 9.5 (10) |
| 33 Lb. | Max. | 13.8      | 13.7     | 13.0      | 11.5     | 13.1      | 11.1     |
|        | Min. | 9.4       | 10.5     | 9.3       | 10.6     | 9.3       | 10.3     |
|        | Ave. | 11.5 (19) | 11.6 (5) | 11.3 (19) | 11.0 (5) | 11.2 (18) | 10.9 (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.)

## CONCORA

| Medium Grade Wt. |      | JAN-FEB   |           | MAR-APR   |           | MAY-JUN   |           |
|------------------|------|-----------|-----------|-----------|-----------|-----------|-----------|
|                  |      | Total     | Recycled  | Total     | Recycled  | Total     | Recycled  |
| 26 Lb.           | Max. | 74.0      | 64.0      | 71.0      | 64.8      | 77.0      | 65.9      |
|                  | Min. | 58.0      | 58.3      | 57.7      | 57.7      | 57.4      | 57.4      |
|                  | Ave. | 61.9 (29) | 60.4 (11) | 61.7 (28) | 60.7 (10) | 62.1 (26) | 60.7 (10) |
| 33 Lb.           | Max. | 83.2      | 78.0      | 84.0      | 78.0      | 86.0      | 77.7      |
|                  | Min. | 68.0      | 68.5      | 67.4      | 75.0      | 69.0      | 75.0      |
|                  | Ave. | 75.3 (19) | 74.2 (4)  | 75.3 (19) | 76.6 (4)  | 75.2 (18) | 76.5 (4)  |

## C.D. RING CRUSH

|        |      | JAN-FEB   |          | MAR-APR   |          | MAY-JUN   |          |
|--------|------|-----------|----------|-----------|----------|-----------|----------|
|        |      | Total     | Recycled | Total     | Recycled | Total     | Recycled |
| 26 Lb. | Max. | 40.0      | 35.5     | 41.8      | 33.0     | 39.3      | 34.0     |
|        | Min. | 26.4      | 26.4     | 25.4      | 25.4     | 25.3      | 25.3     |
|        | Ave. | 33.0 (13) | 31.3 (5) | 32.9 (16) | 28.9 (5) | 31.9 (14) | 29.1 (6) |
| 33 Lb. | Max. | 62.8      | 56.5     | 61.1      | 58.4     | 62.0      | 56.5     |
|        | Min. | 40.6      | 40.6     | 39.7      | 39.7     | 36.4      | 36.4     |
|        | Ave. | 54.6 (15) | 52.4 (5) | 53.0 (15) | 49.7 (5) | 50.9 (12) | 47.8 (5) |

## STFI

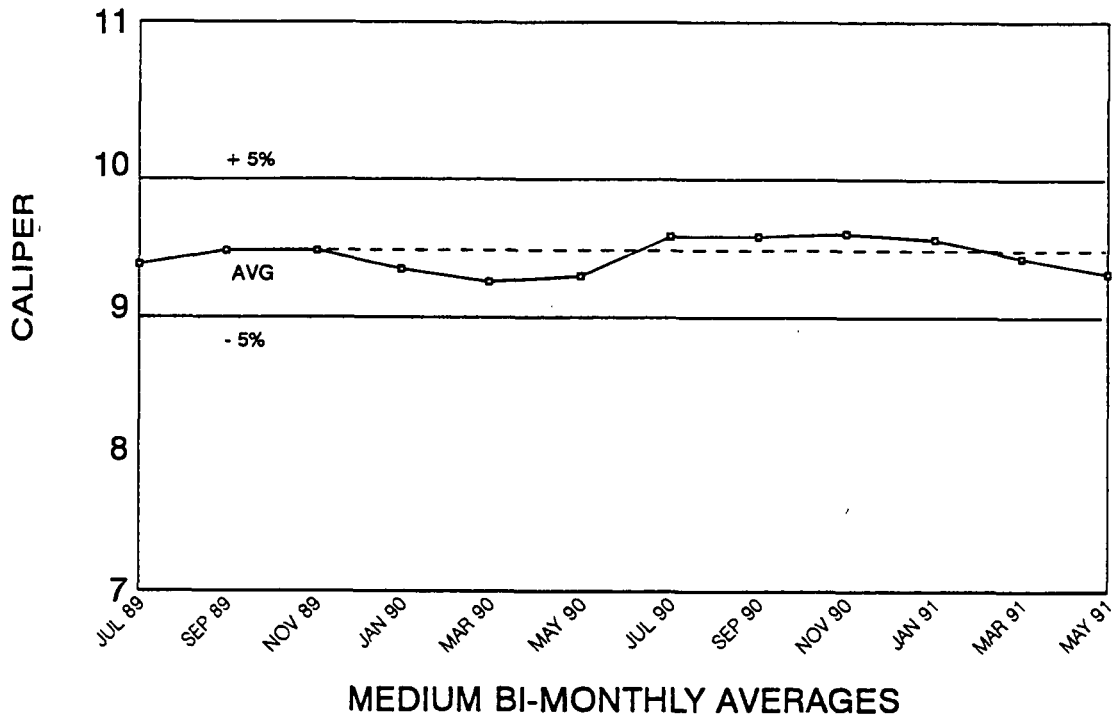
|        |      | JAN-FEB   |          | MAR-APR   |           | MAY-JUN   |          |
|--------|------|-----------|----------|-----------|-----------|-----------|----------|
|        |      | Total     | Recycled | Total     | Recycled  | Total     | Recycled |
| 26 Lb. | Max. | 16.0      | 12.3     | 16.0      | 12.7      | 17.5      | 12.8     |
|        | Min. | 11.1      | 11.1     | 11.5      | 11.8      | 11.6      | 11.7     |
|        | Ave. | 12.9 (16) | 11.8 (3) | 13.0 (15) | 12.25 (2) | 13.0 (16) | 12.2 (2) |
| 33 Lb. | Max. | 18.5      | 16.6     | 18.8      | 16.6      | 19.3      | 16.4     |
|        | Min. | 14.3      | 14.8     | 13.4      | 16.6      | 15.0      | 16.4     |
|        | Ave. | 16.7 (12) | 15.7 (2) | 16.3 (11) | 16.6 (1)  | 16.8 (13) | 16.4 (1) |

Max. and Min. values are current machine averages.

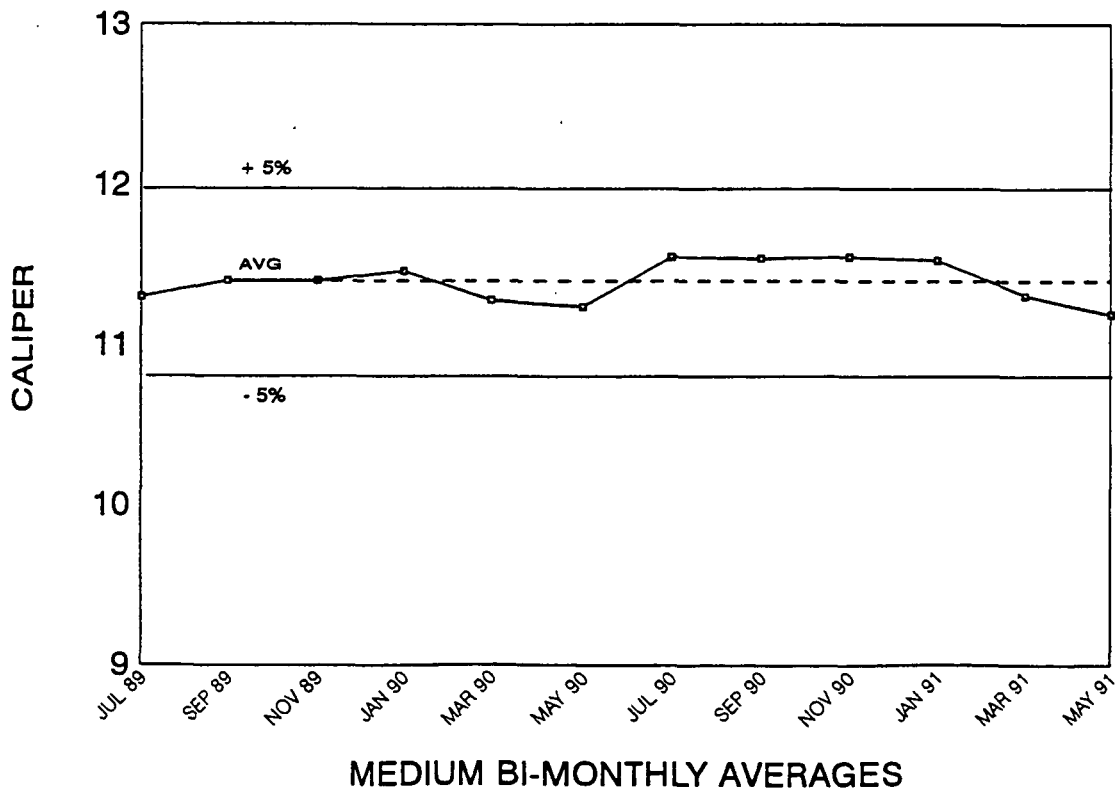
Ave. is current C.K.P.G. average, number of machines is indicated in parentheses.

**2 YEAR TREND PLOT FOR CALIPER**

• 26 LB

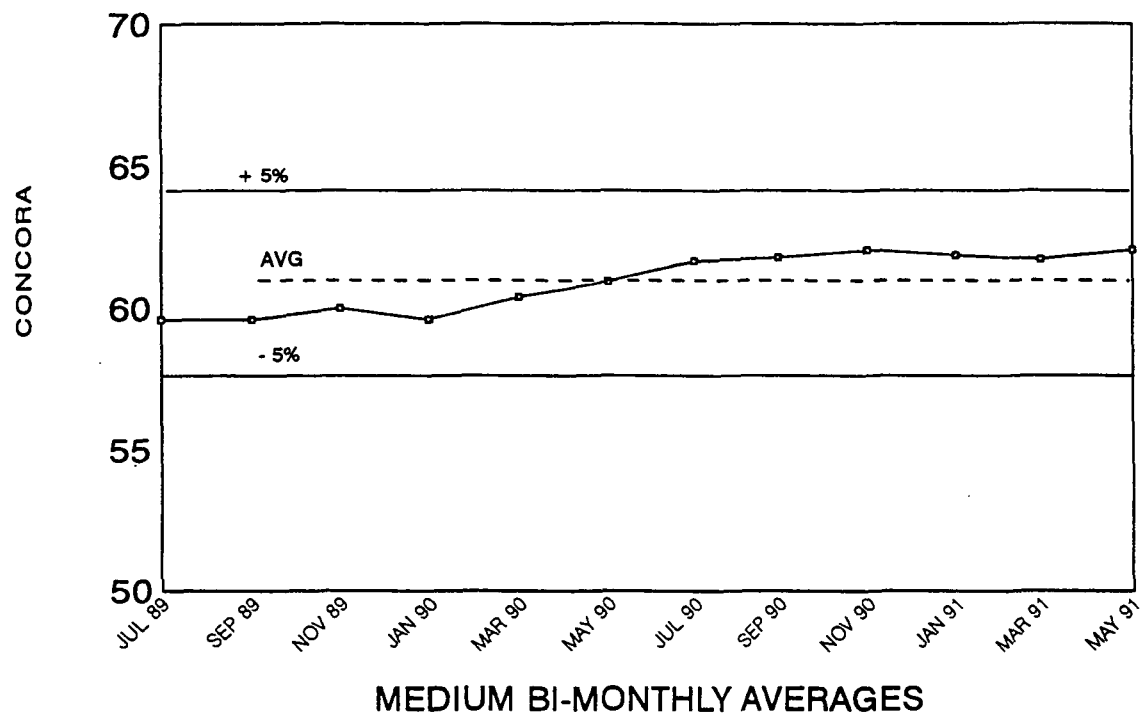


• 33 LB

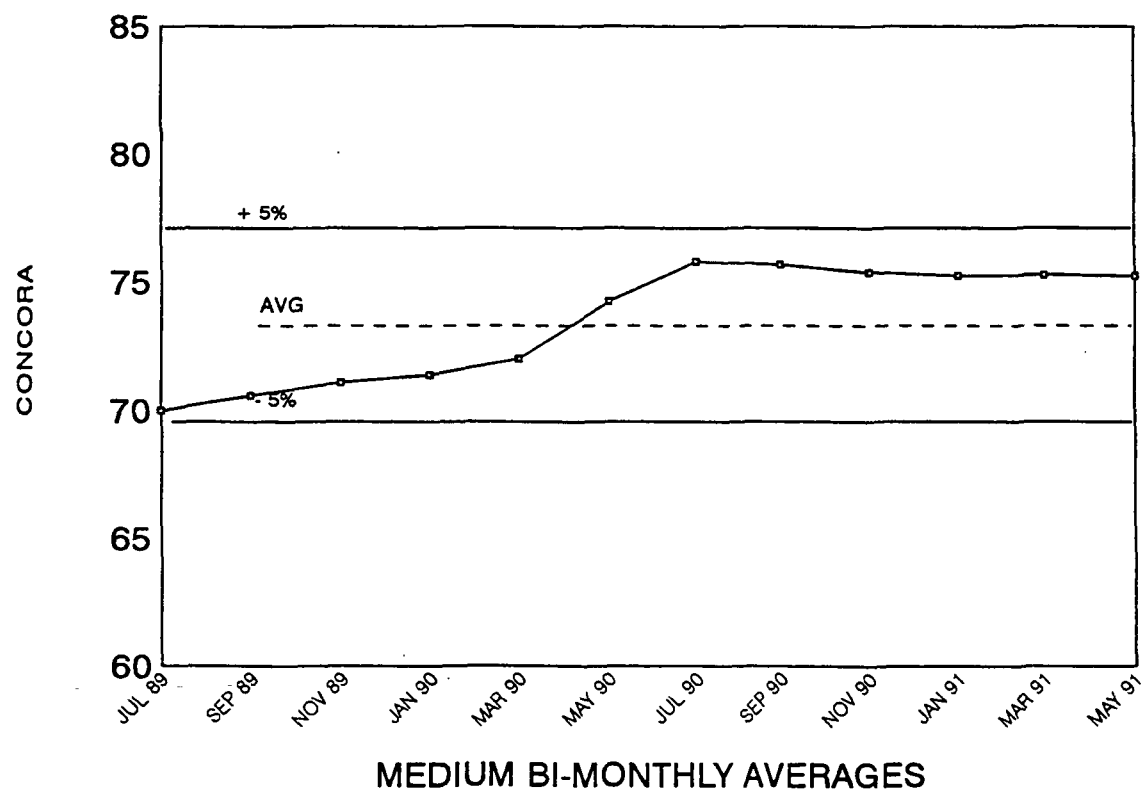


**2 YEAR TREND PLOT FOR CONCORA**

- 26 LB



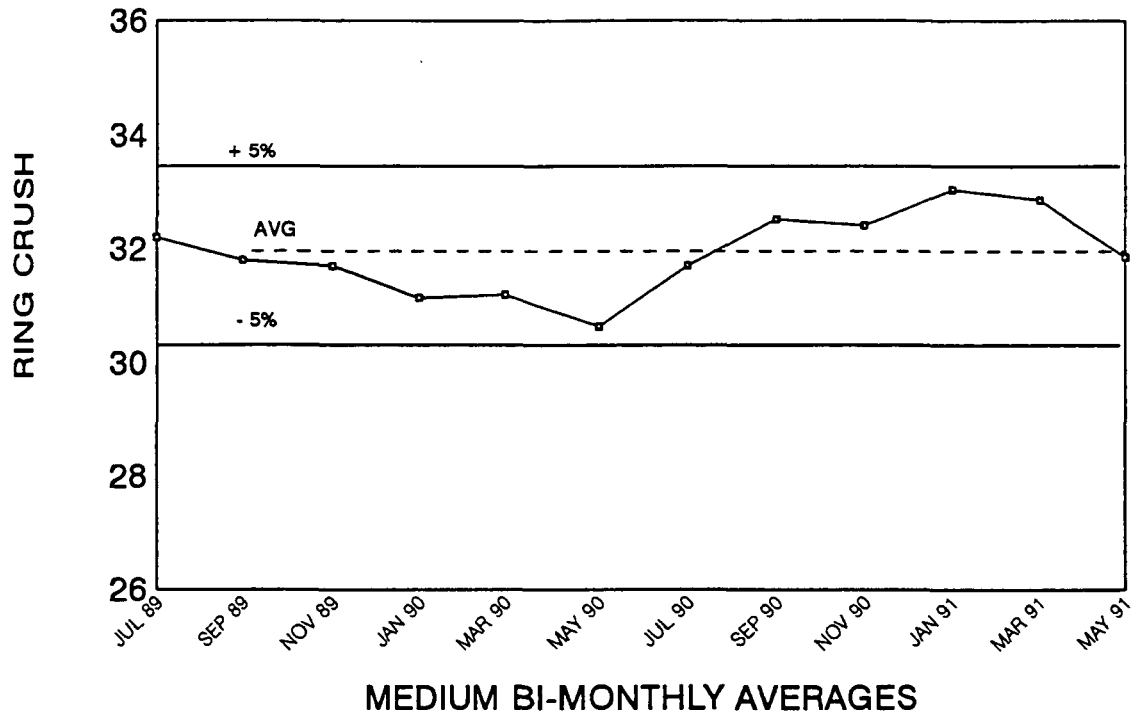
- 33 LB



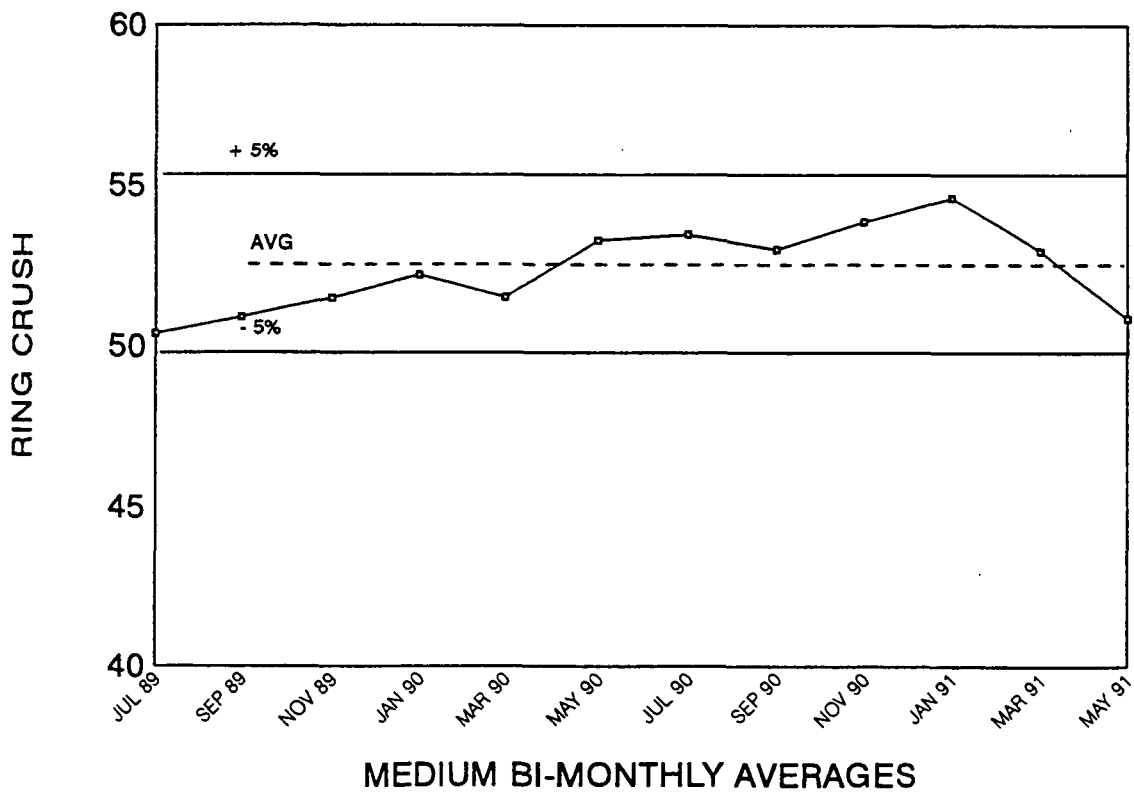


**2 YEAR TREND PLOT FOR RING CRUSH**

26 LB

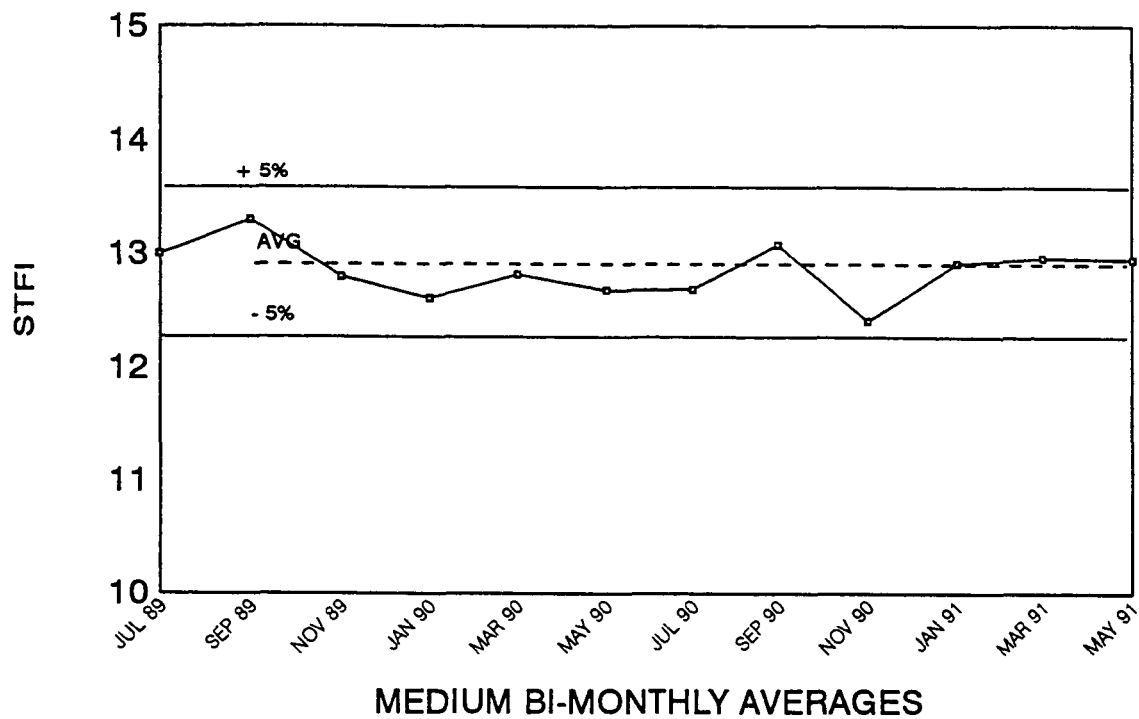


33 LB

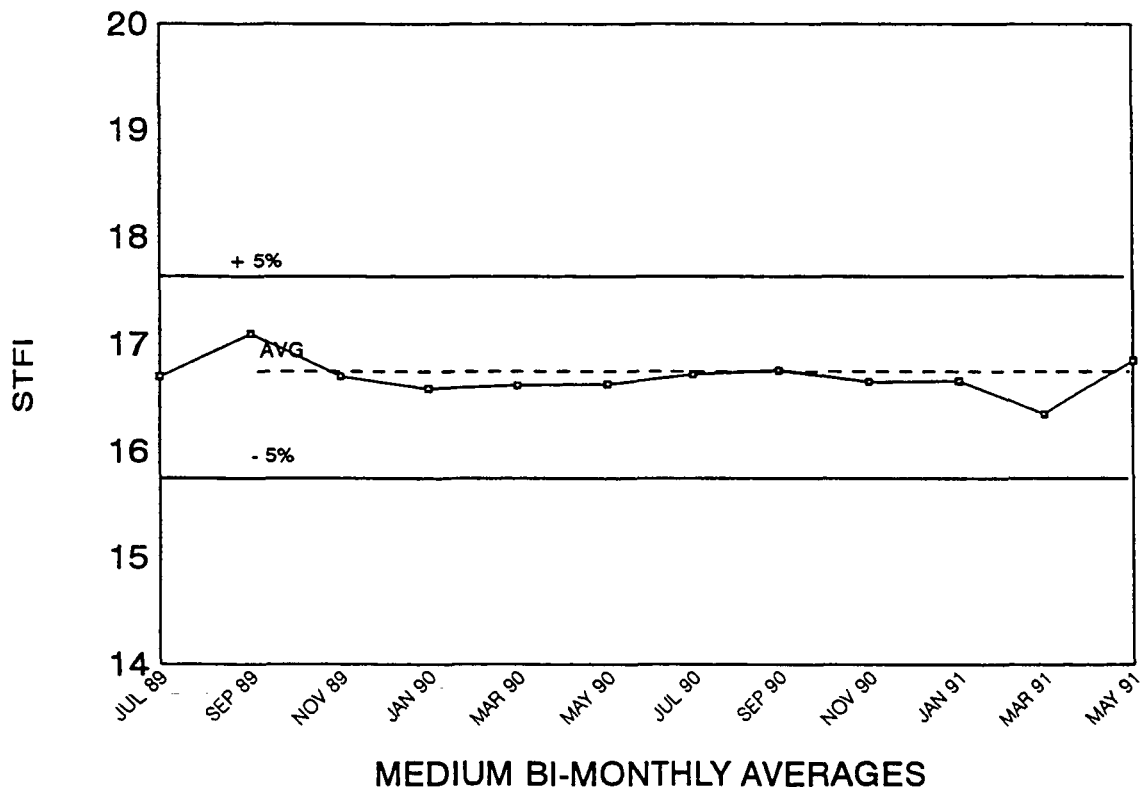


**2 YEAR TREND PLOT FOR STFI**

+ 26 LB



+ 33 LB



## INTRODUCTION

The continuous base-line study (modified) is a compilation of bimonthly averages of mill test data obtained routinely on 26-lb and 33-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 two 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 two 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          | 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, 1991

26 LB Corrugating Medium

| Code   | Moisture Content Percent |             |            | Adj. Basis Wt. *A<br>Lb/M Sq. Ft. |             |            | Caliper Mils |             |            |
|--------|--------------------------|-------------|------------|-----------------------------------|-------------|------------|--------------|-------------|------------|
|        | Cur.<br>Av.              | Cum.<br>Av. | Ind.<br>*B | Cur.<br>Av.                       | Cum.<br>Av. | Ind.<br>*B | Cur.<br>Av.  | Cum.<br>Av. | Ind.<br>*B |
| A1     | 9.6                      | 9.5         | 131.2      | 25.3                              | 25.5        | 96.5       | 9.3          | 9.2         | 99.7       |
| A2 (R) |                          |             |            | 26.2                              | 26.7        | 99.8       | 9.6          | 9.7         | 102.9      |
| A3     | 7.2                      | 7.1         | 98.9       | 26.0                              | 26.0        | 99.0       | 9.9          | 9.8         | 106.1      |
| A4 (R) | 8.5                      | 8.5         | 116.8      | 26.1                              | 26.3        | 99.6       | 10.4         | 10.6        | 111.5      |
| B1 (R) |                          | 8.5         |            |                                   | 26.7        |            |              | 8.5         |            |
| B2     | 6.4                      | 6.6         | 87.9       | 26.5                              | 26.5        | 101.0      | 8.1          | 8.7         | 86.8       |
| B3 (R) | 6.6                      |             | 90.7       | 26.2                              | 26.2        | 100.0      | 8.8          | 8.9         | 94.3       |
| B4     | 7.1                      | 7.3         | 97.6       | 25.9                              | 26.1        | 98.8       | 9.1          | 9.2         | 97.5       |
| C1 (R) |                          | 7.8         |            |                                   | 26.0        |            |              |             |            |
| C2     | 7.5                      | 7.3         | 103.1      | 26.1                              | 26.1        | 99.4       | 8.4          | 8.5         | 90.0       |
| C3     |                          | 6.7         |            |                                   | 26.1        |            |              | 7.9         |            |
| C4     | 6.7                      | 6.6         | 92.1       | 26.1                              | 26.1        | 99.4       | 7.1          | 7.5         | 76.1       |
| D1     | 7.1                      | 7.5         | 97.6       | 26.2                              | 26.2        | 99.8       | 8.5          | 8.3         | 91.1       |
| D2     | 7.5                      | 7.5         | 103.3      | 26.2                              | 26.2        | 99.7       | 11.8         | 11.0        | 126.0      |
| D3     | 7.9                      | 7.9         | 108.6      | 26.2                              | 26.1        | 99.7       |              |             |            |
| D4     | 7.4                      | 7.2         | 101.7      | 26.3                              | 26.2        | 100.3      |              |             |            |
| E1     |                          | 7.4         |            |                                   | 26.0        |            |              |             |            |
| E2     |                          | 7.4         |            |                                   | 26.0        |            |              |             |            |
| E3     |                          | 7.2         |            |                                   | 26.5        |            |              |             |            |
| E4 (R) | 6.5                      | 6.3         | 88.6       | 26.7                              | 26.5        | 101.7      | 10.9         | 10.7        | 116.8      |
| F1 (R) | 7.0                      | 6.2         | 95.5       | 26.7                              | 26.7        | 101.9      | 11.3         | 10.4        | 120.6      |
| F2     |                          | 6.1         |            |                                   | 27.5        |            |              | 9.4         |            |
| F3     | 7.8                      | 7.3         | 106.9      | 26.0                              | 26.1        | 99.0       | 9.6          | 9.8         | 102.9      |
| F4     | 7.8                      | 7.4         | 107.2      | 26.0                              | 26.2        | 99.0       | 9.3          | 9.7         | 99.7       |
| G1     |                          | 6.3         |            |                                   | 26.3        |            |              | 8.5         |            |
| G2 (R) | 6.9                      | 6.9         | 94.8       | 26.0                              | 25.9        | 98.9       | 9.5          | 9.5         | 101.8      |
| G3 (R) | 7.8                      | 7.9         | 107.2      | 26.3                              | 26.3        | 100.2      | 11.6         | 10.5        | 124.3      |
| G4 (R) | 5.8                      | 5.9         | 79.7       | 26.6                              | 26.5        | 101.2      | 9.1          | 9.0         | 97.0       |
| H1 (R) | 5.7                      | 5.6         | 78.3       | 26.7                              | 26.7        | 101.7      | 9.2          | 9.1         | 98.1       |
| H2     | 7.3                      | 7.2         | 99.8       | 26.1                              | 26.1        | 99.5       | 9.5          | 9.6         | 101.8      |
| H3 (R) | 9.4                      | 9.1         | 128.5      | 25.4                              | 25.6        | 96.9       | 9.4          | 9.5         | 100.8      |
| H4     | 8.6                      | 8.6         | 118.5      | 26.0                              | 25.8        | 99.2       | 9.4          | 9.3         | 100.8      |
| I1 (R) | 6.5                      | 6.6         | 89.3       | 26.7                              | 26.8        | 101.7      | 9.1          | 9.1         | 97.5       |
| I2     | 7.6                      |             | 104.4      | 26.2                              | 26.3        | 99.7       | 8.8          | 8.9         | 94.3       |
| I3     | 7.1                      | 7.1         | 97.7       | 26.1                              | 26.2        | 99.6       | 10.1         | 10.2        | 108.6      |
| I4     | 7.9                      | 8.0         | 109.1      | 25.9                              | 25.9        | 98.6       | 9.8          | 10.0        | 105.1      |
| J1     | 6.5                      | 6.9         | 89.3       | 26.3                              | 26.1        | 100.2      | 8.6          | 8.3         | 92.2       |
| CKPG   | 7.3                      | 7.3         | 100.9      | 26.2                              | 26.2        | 99.7       | 9.5          | 9.3         | 101.6      |
| (R)    | 6.4                      |             |            | 26.3                              |             |            | 9.9          |             |            |

Notes A and B are given in the appendix.

Table I (Cont)

Averages of Mill Quality Data for JAN-FEB, 1991

26 LB Corrugating Medium

| Code        | Concora<br>Lb. |             |            | CD Ring Crush<br>Lb. |             |            | CD STFI<br>Lb./In. |             |            |
|-------------|----------------|-------------|------------|----------------------|-------------|------------|--------------------|-------------|------------|
|             | Cur.<br>Av.    | Cum.<br>Av. | Ind.<br>*B | Cur.<br>Av.          | Cum.<br>Av. | Ind.<br>*B | Cur.<br>Av.        | Cum.<br>Av. | Ind.<br>*B |
| A1          | 68.7           | 66.3        | 112.0      |                      | 23.5        |            |                    |             |            |
| A2 (R)      | 63.9           | 63.3        | 104.3      |                      |             |            |                    |             |            |
| A3          | 61.0           | 65.0        | 99.5       | 40.0                 | 42.0        | 126.7      | 13.0               | 13.5        | 101.6      |
| A4 (R)      | 63.6           | 63.1        | 103.8      | 33.0                 | 32.7        | 104.5      |                    |             |            |
| B1 (R)      |                | 63.3        |            |                      |             |            |                    |             |            |
| B2          | 60.9           | 58.8        | 99.4       | 37.5                 | 36.2        | 118.8      | 12.9               | 13.1        | 100.8      |
| B3 (R)      | 60.0           | 59.8        | 97.9       | 28.6                 | 28.4        | 90.6       |                    |             |            |
| B4          | 60.0           | 60.9        | 97.9       | 35.5                 | 32.0        | 112.4      | 13.5               | 13.3        | 105.5      |
| C1 (R)      |                | 47.6        |            |                      |             |            |                    |             |            |
| C2          | 69.0           | 66.7        | 112.6      |                      |             |            | 12.1               | 12.4        | 94.5       |
| C3          |                | 64.0        |            |                      |             |            |                    | 14.8        |            |
| C4          | 74.0           | 72.4        | 120.7      |                      |             |            | 14.7               | 16.2        | 114.9      |
| D1          | 61.0           | 60.2        | 99.5       | 35.0                 | 35.8        | 110.9      | 14.0               | 14.2        | 109.4      |
| D2          | 67.1           | 64.9        | 109.5      |                      |             |            |                    | 10.8        |            |
| D3          | 59.0           | 60.7        | 96.3       | 30.0                 | 30.1        | 95.0       | 11.2               | 11.3        | 87.1       |
| D4          | 58.0           | 58.5        | 94.6       | 30.0                 | 29.8        | 95.0       | 12.1               | 12.4        | 94.7       |
| E1          |                | 60.7        |            |                      | 33.3        |            |                    |             |            |
| E2          |                | 62.3        |            |                      |             |            |                    |             |            |
| E3          |                | 60.7        |            |                      | 32.7        |            |                    |             |            |
| E4 (R)      | 58.8           | 59.7        | 95.9       |                      |             |            |                    |             |            |
| F1 (R)      | 58.3           | 60.2        | 95.1       |                      |             |            |                    |             |            |
| F2          |                | 61.5        |            |                      |             |            |                    |             |            |
| F3          | 58.0           | 54.0        | 94.6       |                      | 27.5        |            | 13.6               | 13.1        | 106.3      |
| F4          | 58.0           | 58.9        | 94.6       |                      |             |            | 13.2               | 13.6        | 102.9      |
| G1          |                | 66.1        |            |                      |             |            |                    |             |            |
| G2 (R)      | 60.8           | 47.0        | 99.2       | 26.4                 | 25.6        | 83.6       |                    |             |            |
| G3 (R)      | 59.5           | 62.1        | 97.1       | 35.5                 | 34.3        | 112.4      | 11.1               | 10.8        | 86.7       |
| G4 (R)      | 58.8           | 60.0        | 95.9       |                      | 22.6        |            |                    |             |            |
| H1 (R)      | 58.9           | 59.5        | 96.1       |                      | 23.3        |            |                    |             |            |
| H2          | 58.0           | 58.8        | 94.6       | 32.0                 | 29.5        | 101.4      | 12.8               | 12.4        | 100.0      |
| H3 (R)      | 58.3           | 59.0        | 95.0       |                      |             |            | 12.3               | 12.3        | 96.1       |
| H4          | 61.0           | 62.2        | 99.5       |                      |             |            | 12.3               | 11.6        | 96.1       |
| I1 (R)      | 64.0           | 61.7        | 104.4      | 33.0                 | 32.7        | 104.5      | 11.9               | 11.9        | 93.0       |
| I2          | 60.0           | 60.8        | 97.9       | 33.0                 | 37.8        | 104.5      |                    |             |            |
| I3          | 66.7           | 65.7        | 108.9      |                      | 39.3        |            |                    |             |            |
| I4          | 63.9           | 62.6        | 104.3      |                      | 33.8        |            |                    |             |            |
| J1          | 65.0           | 69.0        | 106.1      |                      |             |            | 16.0               |             | 125.0      |
| CKPG<br>(R) | 61.9<br>60.4   | 61.3        | 100.9      | 33.0<br>31.3         | 31.6        | 104.6      | 12.9<br>11.8       | 12.8        | 100.9      |

Note B is given in the appendix.

Table II

Averages of Mill Quality Data for MAR-APR, 1991

26 LB Corrugating Medium

| Code   | Moisture Content<br>Percent |             |            | Adj. Basis Wt. *A<br>Lb/M Sq. Ft. |             |            | Caliper<br>Mils |             |            |
|--------|-----------------------------|-------------|------------|-----------------------------------|-------------|------------|-----------------|-------------|------------|
|        | Cur.<br>Av.                 | Cum.<br>Av. | Ind.<br>*B | Cur.<br>Av.                       | Cum.<br>Av. | Ind.<br>*B | Cur.<br>Av.     | Cum.<br>Av. | Ind.<br>*B |
| A1     | 9.5                         | 9.5         | 131.2      | 25.4                              | 25.5        | 96.9       | 9.0             | 9.2         | 96.4       |
| A2 (R) |                             |             |            | 26.0                              | 26.6        | 99.1       | 9.4             | 9.7         | 100.7      |
| A3     | 7.4                         | 7.1         | 102.2      | 26.0                              | 26.0        | 99.2       | 9.9             | 9.8         | 106.1      |
| A4 (R) | 8.6                         | 8.5         | 118.8      | 26.3                              | 26.3        | 100.4      | 10.5            | 10.6        | 112.5      |
| B1 (R) |                             | 8.5         |            |                                   | 26.7        |            |                 | 8.6         |            |
| B2     | 6.5                         | 6.6         | 89.8       | 26.6                              | 26.4        | 101.3      | 8.2             | 8.5         | 87.9       |
| B3 (R) | 6.9                         | 6.6         | 95.3       | 26.2                              | 26.2        | 99.7       | 8.6             | 8.9         | 92.1       |
| B4     | 7.1                         | 7.3         | 98.1       | 25.9                              | 26.1        | 98.7       | 9.2             | 9.1         | 98.6       |
| C1 (R) |                             | 7.8         |            |                                   | 26.0        |            |                 |             |            |
| C2     | 7.6                         | 7.4         | 105.0      | 26.1                              | 26.1        | 99.4       | 8.6             | 8.5         | 92.1       |
| C3     |                             | 6.3         |            |                                   | 26.1        |            |                 | 7.8         |            |
| C4     | 6.9                         | 6.6         | 95.3       | 26.1                              | 26.1        | 99.4       | 7.2             | 7.4         | 77.1       |
| D1     | 7.1                         | 7.4         | 98.1       | 26.2                              | 26.2        | 99.9       | 8.5             | 8.4         | 91.1       |
| D2     | 7.6                         | 7.5         | 104.3      | 26.1                              | 26.1        | 99.6       | 10.9            | 11.1        | 116.9      |
| D3     | 8.0                         | 6.6         | 109.8      | 26.4                              | 26.2        | 100.7      |                 |             |            |
| D4     | 7.3                         | 7.3         | 100.8      | 26.3                              | 26.3        | 100.4      |                 |             |            |
| E1     |                             | 7.4         |            |                                   | 26.0        |            |                 |             |            |
| E2     |                             | 7.5         |            |                                   | 26.0        |            |                 |             |            |
| E3     |                             | 7.2         |            |                                   | 26.5        |            |                 |             |            |
| E4 (R) | 6.9                         | 6.5         | 95.3       | 26.4                              | 26.5        | 100.7      | 11.0            | 10.7        | 117.3      |
| F1 (R) | 7.0                         | 6.4         | 96.0       | 26.7                              | 26.7        | 101.9      | 10.7            | 10.5        | 114.6      |
| F2     |                             | 6.0         |            |                                   | 27.8        |            |                 | 9.4         |            |
| F3     | 7.8                         | 7.5         | 107.6      | 26.0                              | 26.1        | 99.0       | 9.7             | 9.8         | 103.9      |
| F4     | 7.8                         | 7.4         | 107.8      | 26.0                              | 26.2        | 99.0       | 9.5             | 9.6         | 101.8      |
| G1 (R) |                             | 6.4         |            |                                   | 26.3        |            |                 | 8.5         |            |
| G2 (R) | 6.9                         | 6.9         | 95.3       | 26.0                              | 25.9        | 98.9       | 9.5             | 9.5         | 101.8      |
| G3     |                             | 7.9         |            |                                   | 26.2        |            |                 | 10.8        |            |
| G4 (R) | 6.0                         | 5.9         | 82.9       | 26.5                              | 26.5        | 101.0      | 9.1             | 9.0         | 97.0       |
| H1 (R) | 5.6                         | 5.6         | 77.4       | 26.7                              | 26.7        | 101.7      | 9.1             | 9.1         | 97.5       |
| H2     | 7.4                         | 7.4         | 101.8      | 26.1                              | 26.0        | 99.4       | 9.6             | 9.5         | 102.9      |
| H3 (R) | 9.4                         | 9.1         | 129.2      | 25.5                              | 25.6        | 97.1       | 9.4             | 9.4         | 100.7      |
| H4     | 8.6                         | 8.6         | 119.1      | 25.7                              | 25.8        | 97.9       | 9.3             | 9.3         | 99.6       |
| I1 (R) | 6.8                         | 6.6         | 93.9       | 26.5                              | 26.8        | 101.0      | 9.1             | 9.1         | 97.5       |
| I2     | 7.7                         | 7.6         | 106.4      | 26.1                              | 26.2        | 99.6       | 8.9             | 8.9         | 95.4       |
| I3     | 7.1                         | 7.1         | 97.8       | 26.1                              | 26.2        | 99.5       | 10.1            | 10.2        | 108.0      |
| I4     | 8.0                         | 8.0         | 109.8      | 25.9                              | 25.9        | 98.6       | 9.8             | 10.0        | 104.5      |
| J1     | 6.1                         | 6.7         | 84.3       | 26.1                              | 26.2        | 99.4       | 8.5             | 8.5         | 91.1       |
| CKPG   | 7.4                         | 7.2         | 102.0      | 26.1                              | 26.2        | 99.6       | 9.4             | 9.3         | 100.2      |
| (R)    | 7.1                         |             |            | 26.3                              |             |            | 9.6             |             |            |

Notes A and B are given in the appendix.

Table II (Cont)

Averages of Mill Quality Data for MAR-APR, 1991

26 LB Corrugating Medium

| Code        | Concora<br>Lb. |             |            | CD Ring Crush<br>Lb. |             |            | CD STFI<br>Lb./In. |             |            |
|-------------|----------------|-------------|------------|----------------------|-------------|------------|--------------------|-------------|------------|
|             | Cur.<br>Av.    | Cum.<br>Av. | Ind.<br>*B | Cur.<br>Av.          | Cum.<br>Av. | Ind.<br>*B | Cur.<br>Av.        | Cum.<br>Av. | Ind.<br>*B |
| A1          | 65.5           | 66.7        | 106.4      |                      | 23.5        |            |                    |             |            |
| A2 (R)      | 64.8           | 63.4        | 105.3      |                      |             |            |                    |             |            |
| A3          | 62.0           | 64.0        | 100.7      | 40.0                 | 41.8        | 125.8      | 13.0               | 13.5        | 100.0      |
| A4 (R)      | 62.7           | 63.2        | 101.9      | 33.0                 | 32.8        | 103.7      |                    |             |            |
| B1 (R)      |                | 62.8        |            |                      |             |            |                    |             |            |
| B2          | 58.9           | 59.0        | 95.7       | 34.9                 | 35.7        | 109.7      | 13.3               | 13.0        | 102.3      |
| B3 (R)      | 60.0           | 60.0        | 97.5       | 30.1                 | 28.7        | 94.6       |                    |             |            |
| B4          | 61.2           | 60.8        | 99.4       | 35.5                 | 32.6        | 111.6      | 13.0               | 13.3        | 100.0      |
| C1 (R)      |                | 51.1        |            |                      |             |            |                    |             |            |
| C2          | 68.0           | 67.2        | 110.5      |                      |             |            | 12.2               | 12.3        | 93.8       |
| C3          |                | 65.0        |            |                      |             |            |                    | 15.1        |            |
| C4          | 71.0           | 73.0        | 115.3      |                      |             |            | 14.9               | 16.2        | 114.6      |
| D1          | 60.0           | 60.2        | 97.5       | 33.0                 | 36.0        | 103.7      | 13.5               | 14.2        | 103.8      |
| D2          | 65.1           | 65.5        | 105.8      | 38.8                 |             | 122.0      |                    | 10.7        |            |
| D3          | 60.5           | 60.3        | 98.3       | 31.5                 | 30.2        | 99.0       | 11.5               | 11.3        | 88.2       |
| D4          | 58.5           | 58.4        | 95.0       | 31.0                 | 29.8        | 97.5       | 12.5               | 12.3        | 96.3       |
| E1          |                | 60.5        |            |                      | 32.5        |            |                    |             |            |
| E2          |                | 62.5        |            |                      |             |            |                    |             |            |
| E3          |                | 60.0        |            |                      | 32.5        |            |                    |             |            |
| E4 (R)      | 60.0           | 59.5        | 97.5       |                      |             |            |                    |             |            |
| F1 (R)      | 59.7           | 59.8        | 97.0       |                      |             |            |                    |             |            |
| F2          |                | 61.5        |            |                      |             |            |                    |             |            |
| F3          | 58.0           | 58.0        | 94.2       |                      |             |            | 13.0               | 13.2        | 99.7       |
| F4          | 58.0           | 58.9        | 94.2       |                      |             |            | 13.1               | 13.6        | 100.7      |
| G1 (R)      |                | 65.7        |            |                      |             |            |                    |             |            |
| G2 (R)      | 61.3           | 51.5        | 99.6       | 26.5                 | 25.4        | 83.3       |                    |             |            |
| G3          |                | 61.8        |            |                      | 34.7        |            |                    | 10.9        |            |
| G4 (R)      | 58.8           | 59.7        | 95.5       | 25.4                 | 23.1        | 79.9       |                    |             |            |
| H1 (R)      | 58.7           | 59.3        | 95.4       | 26.3                 | 23.8        | 82.7       |                    |             |            |
| H2          | 58.0           | 58.5        | 94.2       | 32.0                 | 30.3        | 100.6      | 12.2               | 12.2        | 93.8       |
| H3 (R)      | 57.7           | 59.0        | 93.6       |                      |             |            | 12.7               | 12.4        | 97.7       |
| H4          | 62.0           | 62.0        | 100.7      |                      |             |            | 11.9               | 11.8        | 91.5       |
| I1 (R)      | 63.0           | 62.2        | 102.3      | 32.0                 | 33.0        | 100.6      | 11.8               | 12.0        | 90.7       |
| I2          | 60.0           | 60.8        | 97.5       | 34.0                 | 36.7        | 106.9      |                    |             |            |
| I3          | 65.0           | 65.9        | 105.6      | 41.8                 | 39.3        | 131.5      |                    |             |            |
| I4          | 63.2           | 62.9        | 102.7      |                      | 33.8        |            |                    |             |            |
| J1          | 67.0           | 67.0        | 108.8      |                      |             |            | 16.0               | 16.0        | 123.0      |
| CKPG<br>(R) | 61.7<br>60.7   | 61.6        | 100.3      | 32.9<br>28.9         | 31.8        | 103.3      | 13.0<br>12.3       | 13.0        | 99.7       |

Note B is given in the appendix.

Table III

Averages of Mill Quality Data for MAY-JUN, 1991

26 LB Corrugating Medium

| Code   | Moisture Content<br>Percent |             |            | Adj. Basis Wt. *A<br>Lb/M Sq. Ft. |             |            | Caliper<br>Mils |             |            |
|--------|-----------------------------|-------------|------------|-----------------------------------|-------------|------------|-----------------|-------------|------------|
|        | Cur.<br>Av.                 | Cum.<br>Av. | Ind.<br>*B | Cur.<br>Av.                       | Cum.<br>Av. | Ind.<br>*B | Cur.<br>Av.     | Cum.<br>Av. | Ind.<br>*B |
| A1     | 9.4                         | 9.5         | 127.5      | 25.6                              | 25.4        | 97.7       | 9.0             | 9.2         | 95.3       |
| A2 (R) |                             |             |            | 26.2                              | 26.5        | 100.0      | 9.1             | 9.8         | 96.9       |
| A3     | 7.2                         | 7.2         | 98.2       | 26.0                              | 26.0        | 99.1       | 9.8             | 9.9         | 104.3      |
| A4 (R) | 8.5                         | 8.5         | 115.9      | 26.4                              | 26.3        | 100.9      | 10.1            | 10.6        | 107.5      |
| B1 (R) |                             | 8.5         |            |                                   | 26.8        |            |                 | 8.7         |            |
| B2     | 6.4                         | 6.6         | 87.3       | 26.6                              | 26.5        | 101.5      | 8.4             | 8.5         | 89.4       |
| B3 (R) | 7.1                         | 6.8         | 96.9       | 26.1                              | 26.2        | 99.8       | 8.6             | 8.8         | 91.0       |
| B4     | 7.3                         | 7.4         | 99.6       | 25.9                              | 26.0        | 99.0       | 9.2             | 9.1         | 97.9       |
| C1 (R) |                             | 7.8         |            |                                   | 26.0        |            |                 |             |            |
| C2     | 7.8                         | 7.5         | 106.4      | 26.1                              | 26.1        | 99.5       | 8.6             | 8.5         | 91.6       |
| C4     | 6.7                         | 6.6         | 91.4       | 26.1                              | 26.1        | 99.5       | 7.4             | 7.3         | 78.8       |
| D1     | 7.0                         | 7.4         | 95.5       | 26.2                              | 26.2        | 100.1      | 8.8             | 8.5         | 93.7       |
| D2     | 7.5                         | 7.5         | 102.9      | 26.2                              | 26.1        | 100.0      | 10.9            | 11.2        | 115.8      |
| D3     | 8.0                         | 7.9         | 108.4      | 26.2                              | 26.2        | 100.0      |                 |             |            |
| D4     | 7.4                         | 7.3         | 100.9      | 26.4                              | 26.3        | 100.6      |                 |             |            |
| E1     |                             | 7.4         |            |                                   | 26.0        |            |                 |             |            |
| E2     |                             | 7.4         |            |                                   | 26.0        |            |                 |             |            |
| E3     |                             | 7.3         |            |                                   | 26.4        |            |                 |             |            |
| E4 (R) | 7.4                         | 6.6         | 100.3      | 26.4                              | 26.5        | 100.9      | 10.9            | 10.7        | 116.0      |
| F1 (R) | 7.1                         | 6.6         | 96.9       | 26.8                              | 26.7        | 102.3      | 10.8            | 10.5        | 114.5      |
| F2     |                             | 6.0         |            |                                   | 26.6        |            |                 | 9.3         |            |
| F3     | 7.8                         | 7.5         | 106.1      | 26.0                              | 26.1        | 99.3       | 9.7             | 9.9         | 103.3      |
| F4     | 7.8                         | 7.4         | 106.5      | 26.0                              | 26.2        | 99.1       | 9.4             | 9.6         | 100.1      |
| G1 (R) |                             | 6.7         |            |                                   | 26.3        |            |                 | 8.5         |            |
| G2 (R) | 7.0                         | 6.9         | 94.8       | 25.9                              | 25.9        | 99.0       | 9.0             | 9.5         | 95.8       |
| G3     |                             | 7.9         |            |                                   | 26.2        |            |                 | 11.1        |            |
| G4 (R) | 5.9                         | 5.9         | 80.5       | 26.5                              | 26.5        | 101.3      | 9.1             | 9.0         | 96.9       |
| H1 (R) | 5.8                         | 5.6         | 79.1       | 26.6                              | 26.7        | 101.6      | 9.1             | 9.1         | 96.9       |
| H2     | 7.4                         | 7.4         | 100.8      | 26.1                              | 26.0        | 99.5       | 9.6             | 9.5         | 102.2      |
| H3 (R) | 9.1                         | 9.1         | 124.1      | 25.4                              | 25.6        | 97.1       | 9.1             | 9.4         | 96.4       |
| H4     | 8.9                         | 8.6         | 121.4      | 25.8                              | 25.8        | 98.4       | 9.3             | 9.3         | 99.0       |
| I1 (R) | 7.5                         | 6.6         | 102.3      | 26.5                              | 26.7        | 101.1      | 9.2             | 9.1         | 97.9       |
| I2     | 7.6                         | 7.7         | 103.7      | 26.2                              | 26.2        | 99.8       | 8.7             | 8.9         | 92.6       |
| I3     |                             | 7.1         |            |                                   | 26.1        |            |                 | 10.2        |            |
| I4     |                             | 8.0         |            |                                   | 25.9        |            |                 | 9.9         |            |
| J1     | 6.3                         | 6.5         | 85.9       | 26.1                              | 26.2        | 99.5       | 8.2             | 8.5         | 87.3       |
| CKPG   | 7.4                         | 7.3         | 101.3      | 26.2                              | 26.2        | 99.9       | 9.2             | 9.4         | 98.4       |
| (R)    | 7.3                         |             |            | 26.3                              |             |            | 9.5             |             |            |

Notes A and B are given in the appendix.



Table III (Cont)

Averages of Mill Quality Data for MAY-JUN, 1991

26 LB Corrugating Medium

| Code        | Concora<br>Lb. |             |            | CD Ring Crush<br>Lb. |             |            | CD STFI<br>Lb./In. |             |            |
|-------------|----------------|-------------|------------|----------------------|-------------|------------|--------------------|-------------|------------|
|             | Cur.<br>Av.    | Cum.<br>Av. | Ind.<br>*B | Cur.<br>Av.          | Cum.<br>Av. | Ind.<br>*B | Cur.<br>Av.        | Cum.<br>Av. | Ind.<br>*B |
| A1          | 68.0           | 66.6        | 110.0      |                      | 21.5        |            |                    |             |            |
| A2 (R)      | 65.9           | 63.6        | 106.6      |                      |             |            |                    |             |            |
| A3          | 62.0           | 63.7        | 100.3      | 39.0                 | 41.7        | 121.3      | 12.0               | 13.5        | 93.4       |
| A4 (R)      | 63.0           | 63.1        | 101.9      | 34.0                 | 32.8        | 105.7      |                    |             |            |
| B1 (R)      |                | 62.3        |            |                      |             |            |                    |             |            |
| B2          | 60.1           | 59.2        | 97.3       | 35.6                 | 35.9        | 110.7      | 13.5               | 13.1        | 105.0      |
| B3 (R)      | 59.8           | 60.2        | 96.8       | 32.0                 | 29.2        | 99.5       |                    |             |            |
| B4          | 61.2           | 60.8        | 99.0       | 36.0                 | 32.8        | 111.9      | 13.5               | 13.0        | 105.0      |
| C1 (R)      |                | 58.7        |            |                      |             |            |                    |             |            |
| C2          | 69.0           | 67.3        | 111.7      |                      |             |            | 12.2               | 12.3        | 94.9       |
| C4          | 77.0           | 72.4        | 124.6      |                      |             |            | 14.9               | 16.0        | 115.9      |
| D1          | 60.0           | 59.8        | 97.1       | 30.0                 | 35.2        | 93.3       | 12.9               | 14.0        | 100.4      |
| D2          | 66.0           | 65.9        | 106.8      | 39.3                 | 38.8        | 122.3      |                    | 10.7        |            |
| D3          | 61.0           | 60.3        | 98.7       | 31.5                 | 30.5        | 98.0       | 12.3               | 11.3        | 95.5       |
| D4          | 58.5           | 58.4        | 94.7       | 28.0                 | 29.8        | 87.1       | 12.0               | 12.3        | 93.5       |
| E1          |                | 61.0        |            |                      | 33.0        |            |                    |             |            |
| E2          |                | 64.0        |            |                      |             |            |                    |             |            |
| E3          |                | 61.0        |            |                      | 33.0        |            |                    |             |            |
| E4 (R)      | 59.8           | 59.5        | 96.7       |                      |             |            |                    |             |            |
| F1 (R)      | 59.9           | 59.6        | 96.8       |                      |             |            |                    |             |            |
| F2          |                | 61.5        |            |                      |             |            |                    |             |            |
| F3          | 58.0           | 58.2        | 93.9       |                      |             |            | 12.8               | 13.2        | 99.9       |
| F4          | 59.0           | 58.9        | 95.5       |                      |             |            | 13.1               | 13.5        | 101.8      |
| G1 (R)      |                | 65.3        |            |                      |             |            |                    |             |            |
| G2 (R)      | 60.5           | 56.3        | 97.9       | 25.3                 | 25.5        | 78.7       |                    |             |            |
| G3          |                | 61.2        |            |                      | 34.7        |            |                    | 10.9        |            |
| G4 (R)      | 59.9           | 59.3        | 96.9       | 25.6                 | 23.4        | 79.6       |                    |             |            |
| H1 (R)      | 58.9           | 59.1        | 95.3       | 25.7                 | 24.2        | 79.9       |                    |             |            |
| H2          | 59.0           | 58.3        | 95.5       | 32.0                 | 30.8        | 99.5       | 12.6               | 12.2        | 98.2       |
| H3 (R)      | 57.4           | 58.9        | 92.8       |                      |             |            | 12.8               | 12.7        | 99.2       |
| H4          | 62.0           | 62.0        | 100.3      |                      |             |            | 12.0               | 11.9        | 93.4       |
| I1 (R)      | 62.0           | 62.2        | 100.3      | 32.0                 | 32.8        | 99.5       | 11.7               | 11.9        | 91.0       |
| I2          | 60.0           | 60.7        | 97.1       |                      | 36.0        |            | 11.6               |             | 90.2       |
| I3          |                | 65.7        |            |                      | 40.0        |            |                    |             |            |
| I4          |                | 63.0        |            |                      | 33.8        |            |                    |             |            |
| J1          | 66.0           | 67.0        | 106.8      |                      |             |            | 17.5               | 16.0        | 136.2      |
| CKPG<br>(R) | 62.1<br>60.7   | 61.8        | 100.4      | 31.9<br>29.1         | 32.2        | 99.1       | 13.0<br>12.2       | 12.9        | 100.9      |

Note B is given in the appendix.

Table IV

Averages of Mill Quality Data for JAN-FEB, 1991

33 LB Corrugating Medium

| Code   | Moisture Content<br>Percent |             |            | Adj. Basis Wt. *A<br>Lb/M Sq. Ft. |             |            | Caliper<br>Mils |             |            |
|--------|-----------------------------|-------------|------------|-----------------------------------|-------------|------------|-----------------|-------------|------------|
|        | Cur.<br>Av.                 | Cum.<br>Av. | Ind.<br>*B | Cur.<br>Av.                       | Cum.<br>Av. | Ind.<br>*B | Cur.<br>Av.     | Cum.<br>Av. | Ind.<br>*B |
| A1     | 9.6                         | 9.6         | 128.3      | 32.2                              | 32.4        | 97.3       | 11.6            | 11.5        | 101.9      |
| A2 (R) |                             |             |            | 33.1                              | 33.2        | 100.1      | 11.9            | 11.8        | 105.0      |
| A3     | 7.4                         | 7.2         | 98.9       | 32.9                              | 33.0        | 99.6       | 12.5            | 12.3        | 110.3      |
| A4 (R) | 8.5                         | 8.6         | 113.6      | 33.0                              | 33.0        | 99.8       | 10.5            | 10.7        | 92.6       |
| B1 (R) |                             | 8.5         |            |                                   | 33.3        |            |                 | 10.3        |            |
| B2     | 7.1                         | 7.0         | 94.9       | 32.9                              | 33.0        | 99.7       | 10.3            | 10.7        | 90.9       |
| B4     | 7.2                         | 7.4         | 95.6       | 32.9                              | 33.2        | 99.5       | 11.5            | 11.4        | 101.4      |
| C1 (R) |                             | 7.9         |            |                                   | 33.0        |            |                 |             |            |
| C2     | 7.7                         | 7.4         | 102.9      | 33.1                              | 33.1        | 100.1      | 10.9            | 11.1        | 96.1       |
| C3     |                             | 6.3         |            |                                   | 33.0        |            |                 | 9.9         |            |
| C4     | 6.8                         | 6.6         | 90.9       | 33.1                              | 33.1        | 100.1      | 9.4             | 9.4         | 82.9       |
| D1     | 7.2                         | 7.6         | 96.2       | 33.3                              | 33.3        | 100.8      | 10.4            | 10.3        | 91.7       |
| D2     | 8.3                         | 8.2         | 111.2      | 32.7                              | 32.8        | 99.0       | 13.8            | 13.3        | 121.9      |
| D3     | 8.4                         | 8.3         | 111.6      | 32.9                              | 32.8        | 99.4       |                 |             |            |
| F2     |                             | 6.3         |            |                                   | 33.4        |            |                 | 12.0        |            |
| F4     | 7.8                         | 7.8         | 104.4      | 33.1                              | 33.0        | 100.1      | 11.9            | 11.9        | 105.0      |
| G2 (R) | 7.0                         | 6.9         | 93.6       | 32.9                              | 33.1        | 99.5       | 11.0            | 11.0        | 97.0       |
| G3 (R) | 7.9                         | 7.9         | 104.9      | 33.2                              | 33.2        | 100.5      | 13.7            | 12.7        | 120.4      |
| H1 (R) |                             | 5.7         |            |                                   | 33.9        |            |                 | 11.2        |            |
| H2     | 7.2                         | 7.1         | 95.6       | 33.1                              | 33.3        | 100.2      | 12.0            | 11.9        | 105.8      |
| H4     | 8.3                         | 8.3         | 110.3      | 32.6                              | 32.6        | 98.7       | 11.5            | 11.5        | 101.4      |
| I1 (R) | 6.8                         | 6.8         | 90.9       | 33.1                              | 33.1        | 100.1      | 10.7            | 10.7        | 94.4       |
| I2     | 8.1                         |             | 108.3      | 33.0                              | 32.9        | 99.8       | 10.6            | 11.0        | 93.5       |
| I3     | 7.4                         | 7.4         | 98.6       | 33.0                              | 33.1        | 100.0      | 12.6            | 13.1        | 111.0      |
| I4     | 8.1                         | 7.9         | 107.9      | 32.8                              | 32.8        | 99.2       | 12.3            | 12.1        | 108.6      |
| J1     |                             | 6.9         |            |                                   | 33.1        |            |                 | 10.6        |            |

|      |     |     |       |      |      |      |      |      |       |
|------|-----|-----|-------|------|------|------|------|------|-------|
| CKPG | 7.7 | 7.5 | 103.1 | 33.0 | 33.1 | 99.7 | 11.5 | 11.3 | 101.7 |
| (R)  | 7.5 |     |       | 33.1 |      |      | 11.6 |      |       |

Notes A and B are given in the appendix.

Table IV (Cont)

Averages of Mill Quality Data for JAN-FEB, 1991

33 LB Corrugating Medium

| Code   | Concora<br>Lb. |             |            | CD Ring Crush<br>Lb. |             |            | CD STFI<br>Lb./In. |             |            |
|--------|----------------|-------------|------------|----------------------|-------------|------------|--------------------|-------------|------------|
|        | Cur.<br>Av.    | Cum.<br>Av. | Ind.<br>*B | Cur.<br>Av.          | Cum.<br>Av. | Ind.<br>*B | Cur.<br>Av.        | Cum.<br>Av. | Ind.<br>*B |
| A1     | 76.9           | 76.8        | 103.9      |                      | 39.6        |            |                    |             |            |
| A2 (R) |                |             |            | 56.0                 | 62.5        | 106.2      |                    |             |            |
| A3     | 74.0           | 76.8        | 100.0      | 62.0                 | 63.7        | 117.6      | 17.0               | 17.8        | 99.5       |
| A4 (R) | 76.4           | 77.4        | 103.3      | 55.0                 | 53.3        | 104.3      |                    |             |            |
| B1 (R) |                | 82.2        |            |                      |             |            |                    |             |            |
| B2     | 74.4           | 71.8        | 100.5      | 55.6                 | 54.6        | 105.5      | 16.9               | 16.7        | 98.9       |
| B4     | 76.8           | 73.4        | 103.8      | 59.0                 | 51.9        | 111.9      | 17.5               | 17.1        | 102.4      |
| C1 (R) |                | 55.4        |            |                      |             |            |                    |             |            |
| C2     | 68.0           | 67.5        | 91.9       |                      |             |            | 14.8               | 15.5        | 86.6       |
| C3     |                | 67.0        |            |                      |             |            |                    | 19.8        |            |
| C4     | 73.0           | 77.0        | 98.7       |                      |             |            | 17.7               | 19.4        | 103.6      |
| D1     | 80.0           | 81.7        | 108.1      | 54.0                 | 56.2        | 102.4      | 18.5               | 19.0        | 108.2      |
| D2     | 81.7           | 77.1        | 110.4      | 59.5                 | 59.1        | 112.8      |                    | 14.0        |            |
| D3     | 70.0           | 70.6        | 94.6       | 47.0                 | 47.4        | 89.2       | 14.3               | 16.4        | 83.8       |
| F2     |                |             |            |                      |             |            |                    | 17.7        |            |
| F4     | 72.0           | 72.2        | 97.3       |                      |             |            | 18.2               | 18.0        | 106.7      |
| G2 (R) | 74.0           | 57.7        | 100.0      | 40.6                 | 40.3        | 77.0       |                    |             |            |
| G3 (R) | 68.5           | 71.9        | 92.6       | 56.5                 | 56.3        | 107.2      | 14.8               | 14.3        | 86.3       |
| H1 (R) |                | 76.8        |            |                      | 35.0        |            |                    |             |            |
| H2     | 74.0           | 73.7        | 100.0      | 47.0                 | 46.8        | 89.2       | 18.1               | 16.9        | 105.7      |
| H4     | 75.0           | 76.2        | 101.4      |                      |             |            | 15.6               | 14.8        | 91.3       |
| I1 (R) | 78.0           | 77.3        | 105.4      | 54.0                 | 54.1        | 102.4      | 16.6               | 16.7        | 97.1       |
| I2     | 78.0           | 79.7        | 105.4      | 51.0                 | 55.2        | 96.8       |                    |             |            |
| I3     | 76.2           | 78.5        | 102.9      | 62.8                 | 61.4        | 119.1      |                    |             |            |
| I4     | 83.2           | 83.3        | 112.4      | 59.2                 | 58.7        | 112.4      |                    |             |            |
| J1     |                | 74.0        |            |                      |             |            |                    | 19.5        |            |

|      |      |      |       |      |      |       |      |      |      |
|------|------|------|-------|------|------|-------|------|------|------|
| CKPG | 75.3 | 74.0 | 101.7 | 54.6 | 52.7 | 103.6 | 16.7 | 17.1 | 97.5 |
| (R)  | 74.2 |      |       | 52.4 |      |       | 15.7 |      |      |

Note B is given in the appendix.

Table V

Averages of Mill Quality Data for MAR-APR 1991

33 LB Corrugating Medium

| Code   | Moisture Content<br>Percent |             |            | Adj. Basis Wt. *A<br>Lb/M Sq. Ft. |             |            | Caliper<br>Mils |             |            |
|--------|-----------------------------|-------------|------------|-----------------------------------|-------------|------------|-----------------|-------------|------------|
|        | Cur.<br>Av.                 | Cum.<br>Av. | Ind.<br>*B | Cur.<br>Av.                       | Cum.<br>Av. | Ind.<br>*B | Cur.<br>Av.     | Cum.<br>Av. | Ind.<br>*B |
| A1     | 9.2                         | 9.6         | 122.6      | 32.4                              | 32.3        | 97.9       | 11.4            | 11.5        | 100.1      |
| A2 (R) |                             |             |            | 33.0                              | 33.2        | 99.9       | 11.5            | 11.9        | 101.4      |
| A3     | 7.6                         | 7.2         | 101.8      | 33.0                              | 33.0        | 99.8       | 12.4            | 12.3        | 109.3      |
| A4 (R) | 8.6                         | 8.6         | 115.2      | 32.9                              | 33.0        | 99.5       | 10.6            | 10.6        | 93.5       |
| B1 (R) |                             | 8.5         |            |                                   | 33.3        |            |                 | 10.3        |            |
| B2     | 6.8                         | 7.0         | 91.1       | 33.1                              | 33.0        | 100.0      | 10.2            | 10.6        | 89.9       |
| B4     | 7.1                         | 7.5         | 94.4       | 32.9                              | 33.1        | 99.6       | 11.5            | 11.3        | 101.0      |
| C1 (R) |                             | 7.9         |            |                                   | 33.0        |            |                 |             |            |
| C2     | 7.8                         | 7.5         | 104.5      | 33.1                              | 33.1        | 100.2      | 11.2            | 11.0        | 98.7       |
| C3     |                             | 6.3         |            |                                   | 33.0        |            |                 | 9.9         |            |
| C4     | 6.5                         | 6.6         | 87.1       | 33.1                              | 33.1        | 100.2      | 9.3             | 9.4         | 82.0       |
| D1     | 7.1                         | 7.5         | 95.1       | 33.3                              | 33.3        | 100.6      | 10.6            | 10.3        | 93.5       |
| D2     | 8.2                         | 8.2         | 110.4      | 32.8                              | 32.7        | 99.1       | 13.0            | 13.4        | 114.3      |
| D3     | 8.4                         | 6.9         | 112.5      | 32.8                              | 32.8        | 99.4       |                 |             |            |
| F2     |                             | 6.3         |            |                                   | 33.4        |            |                 | 11.9        |            |
| F4     | 7.8                         | 7.8         | 104.8      | 33.0                              | 33.0        | 99.9       | 12.0            | 11.9        | 105.8      |
| G2 (R) | 7.0                         | 6.9         | 93.8       | 32.9                              | 33.0        | 99.5       | 11.0            | 11.0        | 97.0       |
| G3     |                             | 7.9         |            |                                   | 33.2        |            |                 | 13.0        |            |
| H1 (R) | 6.0                         | 5.7         | 80.4       | 33.6                              | 33.9        | 101.8      | 11.0            | 11.2        | 97.0       |
| H2     | 7.2                         | 7.2         | 97.0       | 33.1                              | 33.2        | 100.1      | 12.0            | 11.9        | 105.8      |
| H4     | 8.2                         | 8.2         | 109.8      | 32.6                              | 32.6        | 98.8       | 11.6            | 11.5        | 102.3      |
| I1 (R) | 6.9                         | 6.8         | 92.4       | 33.1                              | 33.1        | 100.2      | 10.9            | 10.7        | 96.1       |
| I2     | 8.1                         | 8.1         | 108.5      | 33.0                              | 32.9        | 99.8       | 10.9            | 10.9        | 96.1       |
| I3     | 7.4                         | 7.4         | 99.3       | 33.0                              | 33.1        | 99.8       | 12.3            | 13.0        | 108.3      |
| I4     | 8.0                         | 7.9         | 106.6      | 32.7                              | 32.8        | 99.1       | 11.7            | 12.1        | 102.8      |
| J1     |                             | 6.9         |            |                                   | 33.1        |            |                 | 10.6        |            |

|      |     |     |       |      |      |      |      |      |      |
|------|-----|-----|-------|------|------|------|------|------|------|
| CKPG | 7.6 | 7.5 | 101.4 | 33.0 | 33.0 | 99.7 | 11.3 | 11.3 | 99.7 |
| (R)  | 7.1 |     |       | 33.1 |      |      | 11.0 |      |      |

Notes A and B are given in the appendix.

Table V (Cont)

Averages of Mill Quality Data for MAR-APR 1991

33 LB Corrugating Medium

| Code        | Concora<br>Lb. |             |            | CD Ring Crush<br>Lb. |             |            | CD STFI<br>Lb./In. |             |            |
|-------------|----------------|-------------|------------|----------------------|-------------|------------|--------------------|-------------|------------|
|             | Cur.<br>Av.    | Cum.<br>Av. | Ind.<br>*B | Cur.<br>Av.          | Cum.<br>Av. | Ind.<br>*B | Cur.<br>Av.        | Cum.<br>Av. | Ind.<br>*B |
| A1          | 76.0           | 76.8        | 102.2      |                      | 39.6        |            |                    |             |            |
| A2 (R)      |                |             |            | 58.4                 | 62.1        | 110.7      |                    |             |            |
| A3          | 73.0           | 76.2        | 98.2       | 61.0                 | 63.7        | 115.6      | 17.0               | 17.8        | 99.9       |
| A4 (R)      | 76.9           | 77.2        | 103.4      | 54.0                 | 53.8        | 102.3      |                    |             |            |
| B1 (R)      |                | 82.4        |            |                      |             |            |                    |             |            |
| B2          | 67.4           | 72.7        | 90.6       | 52.3                 | 54.1        | 99.1       | 16.4               | 16.7        | 96.4       |
| B4          | 76.2           | 73.9        | 102.5      | 56.5                 | 53.1        | 107.1      | 16.5               | 17.0        | 97.0       |
| C1 (R)      |                | 60.4        |            |                      |             |            |                    |             |            |
| C2          | 69.0           | 67.5        | 92.8       |                      |             |            | 15.1               | 15.3        | 88.8       |
| C3          |                | 67.0        |            |                      |             |            |                    | 19.8        |            |
| C4          | 77.0           | 75.7        | 103.5      |                      |             |            | 18.8               | 18.8        | 110.5      |
| D1          | 84.0           | 81.2        | 113.0      | 47.0                 | 56.0        | 89.1       | 16.8               | 19.0        | 98.8       |
| D2          | 77.3           | 78.1        | 104.0      | 60.2                 | 59.1        | 114.0      |                    | 13.9        |            |
| D3          | 68.5           | 70.6        | 92.1       | 48.0                 | 47.3        | 91.0       | 13.4               | 15.9        | 78.8       |
| F2          |                |             |            |                      |             |            |                    | 17.6        |            |
| F4          | 73.0           | 72.2        | 98.2       |                      |             |            | 16.9               | 18.2        | 99.5       |
| G2 (R)      | 75.0           | 63.6        | 100.9      | 42.4                 | 39.9        | 80.4       |                    |             |            |
| G3          |                | 70.8        |            |                      | 56.8        |            |                    | 14.4        |            |
| H1 (R)      | 76.6           | 76.7        | 103.0      | 39.7                 | 36.1        | 75.2       |                    |             |            |
| H2          | 71.0           | 73.7        | 95.5       | 49.0                 | 46.6        | 92.9       | 16.7               | 16.6        | 98.2       |
| H4          | 76.0           | 75.8        | 102.2      |                      |             |            | 15.6               | 15.0        | 91.7       |
| I1 (R)      | 78.0           | 77.7        | 104.9      | 54.0                 | 54.5        | 102.3      | 16.6               | 16.7        | 97.6       |
| I2          | 78.0           | 79.5        | 104.9      | 52.0                 | 54.0        | 98.6       |                    |             |            |
| I3          | 75.5           | 77.9        | 101.6      | 61.1                 | 61.7        | 115.9      |                    |             |            |
| I4          | 82.1           | 83.3        | 110.4      | 58.9                 | 58.8        | 111.5      |                    |             |            |
| J1          |                | 74.0        |            |                      |             |            |                    | 19.5        |            |
| CKPG<br>(R) | 75.3<br>76.6   | 74.4        | 101.3      | 53.0<br>49.7         | 52.8        | 100.4      | 16.3<br>16.6       | 17.0        | 96.1       |

Note B is given in the appendix.

Table VI

Averages of Mill Quality Data for MAY-JUN, 1991

33 LB Corrugating Medium

| Code        | Moisture Content<br>Percent |             |            | Adj. Basis Wt. *A<br>Lb/M Sq. Ft. |             |            | Caliper<br>Mils |             |            |
|-------------|-----------------------------|-------------|------------|-----------------------------------|-------------|------------|-----------------|-------------|------------|
|             | Cur.<br>Av.                 | Cum.<br>Av. | Ind.<br>*B | Cur.<br>Av.                       | Cum.<br>Av. | Ind.<br>*B | Cur.<br>Av.     | Cum.<br>Av. | Ind.<br>*B |
| A1          | 9.3                         | 9.5         | 122.2      | 32.3                              | 32.3        | 97.9       | 11.3            | 11.5        | 98.6       |
| A2 (R)      |                             |             |            | 29.1                              | 33.2        | 88.1       | 11.0            | 11.8        | 96.4       |
| A3          | 7.4                         | 7.3         | 97.7       | 32.9                              | 32.9        | 99.7       | 12.7            | 12.3        | 111.3      |
| A4 (R)      | 8.6                         | 8.6         | 113.6      | 33.1                              | 33.0        | 100.1      | 10.3            | 10.6        | 90.3       |
| B1 (R)      |                             | 8.5         |            |                                   | 33.4        |            |                 | 10.4        |            |
| B2          | 6.9                         | 7.0         | 91.1       | 32.9                              | 33.0        | 99.6       | 10.4            | 10.5        | 91.2       |
| B4          | 7.4                         | 7.5         | 97.7       | 32.6                              | 33.1        | 98.7       | 11.4            | 11.4        | 99.5       |
| C1 (R)      |                             | 7.9         |            |                                   | 33.0        |            |                 |             |            |
| C2          | 8.0                         | 7.6         | 105.7      | 33.1                              | 33.1        | 100.2      | 11.2            | 11.1        | 98.2       |
| C4          | 6.7                         | 6.6         | 88.5       | 33.1                              | 33.1        | 100.2      | 9.3             | 9.4         | 81.5       |
| D1          | 7.3                         | 7.5         | 96.4       | 33.3                              | 33.3        | 100.7      | 10.8            | 10.4        | 94.7       |
| D2          | 8.4                         | 8.2         | 110.3      | 32.7                              | 32.7        | 98.8       | 13.1            | 13.5        | 115.0      |
| D3          | 8.3                         | 8.3         | 109.6      | 32.8                              | 32.8        | 99.3       |                 |             |            |
| F2          |                             | 6.2         |            |                                   | 33.4        |            |                 | 11.8        |            |
| F4          | 7.8                         | 7.8         | 103.3      | 33.0                              | 33.0        | 99.8       | 12.0            | 11.9        | 105.2      |
| G2 (R)      | 7.0                         | 7.0         | 92.5       | 32.9                              | 32.9        | 99.5       | 11.0            | 11.0        | 96.4       |
| G3          |                             | 7.9         |            |                                   | 33.2        |            |                 | 13.2        |            |
| H1 (R)      | 5.9                         | 5.7         | 77.9       | 33.8                              | 33.9        | 102.2      | 11.1            | 11.2        | 97.3       |
| H2          | 7.4                         | 7.3         | 98.1       | 34.1                              | 33.2        | 103.1      | 11.6            | 11.9        | 101.7      |
| H4          | 8.5                         | 8.2         | 112.4      | 32.7                              | 32.6        | 98.8       | 11.6            | 11.6        | 101.7      |
| I1 (R)      | 7.7                         | 6.8         | 101.7      | 33.1                              | 33.1        | 100.2      | 11.0            | 10.7        | 96.4       |
| I2          | 8.1                         | 8.1         | 107.0      | 33.0                              | 33.0        | 99.8       | 10.6            | 10.9        | 92.9       |
| I3          |                             | 7.4         |            |                                   | 33.1        |            |                 | 12.8        |            |
| I4          |                             | 7.9         |            |                                   | 32.8        |            |                 | 12.0        |            |
| J1          | 6.5                         | 6.9         | 85.9       | 33.1                              | 33.1        | 100.2      | 11.1            | 10.6        | 97.3       |
| CKPG<br>(R) | 7.6<br>7.3                  | 7.6         | 100.6      | 32.8<br>32.4                      | 33.0        | 99.3       | 11.2<br>10.9    | 11.4        | 98.1       |

Notes A and B are given in the appendix.

Table VI (Cont)

Averages of Mill Quality Data for MAY-JUN, 1991

33 LB Corrugating Medium

| Code   | Concora<br>Lb. |             |            | CD Ring Crush<br>Lb. |             |            | CD STFI<br>Lb./In. |             |            |
|--------|----------------|-------------|------------|----------------------|-------------|------------|--------------------|-------------|------------|
|        | Cur.<br>Av.    | Cum.<br>Av. | Ind.<br>*B | Cur.<br>Av.          | Cum.<br>Av. | Ind.<br>*B | Cur.<br>Av.        | Cum.<br>Av. | Ind.<br>*B |
| A1     | 77.0           | 76.6        | 102.4      |                      |             |            |                    |             |            |
| A2 (R) |                |             |            | 56.5                 | 61.7        | 105.5      |                    |             |            |
| A3     | 72.0           | 75.7        | 95.8       | 62.0                 | 63.3        | 115.8      | 17.0               | 17.8        | 101.6      |
| A4 (R) | 77.7           | 77.1        | 103.3      | 54.0                 | 53.8        | 100.9      |                    |             |            |
| B1 (R) |                | 82.5        |            |                      |             |            |                    |             |            |
| B2     | 72.9           | 71.9        | 97.0       | 50.2                 | 53.7        | 93.8       | 17.0               | 16.6        | 101.6      |
| B4     | 76.2           | 74.2        | 101.3      | 54.5                 | 53.8        | 101.8      | 17.0               | 16.8        | 101.6      |
| C1 (R) |                | 69.6        |            |                      |             |            |                    |             |            |
| C2     | 69.0           | 67.8        | 91.8       |                      |             |            | 15.4               | 15.2        | 92.0       |
| C4     | 86.0           | 76.0        | 114.4      |                      |             |            | 18.2               | 18.8        | 108.7      |
| D1     | 83.0           | 81.0        | 110.4      | 48.0                 | 54.7        | 89.7       | 17.1               | 18.7        | 102.2      |
| D2     | 74.5           | 78.7        | 99.0       | 59.9                 | 59.3        | 111.9      |                    | 13.8        |            |
| D3     | 71.5           | 70.0        | 95.1       | 48.0                 | 47.8        | 89.7       | 17.0               | 15.4        | 101.7      |
| F2     |                |             |            |                      |             |            |                    | 17.6        |            |
| F4     | 72.0           | 72.4        | 95.8       |                      |             |            | 17.2               | 17.9        | 102.6      |
| G2 (R) | 75.7           | 69.5        | 100.7      | 38.9                 | 40.2        | 72.7       |                    |             |            |
| G3     |                | 69.8        |            |                      | 56.7        |            |                    | 14.4        |            |
| H1 (R) | 75.0           | 76.5        | 99.7       | 36.4                 | 36.3        | 68.0       |                    |             |            |
| H2     | 71.0           | 73.2        | 94.4       | 49.0                 | 46.9        | 91.5       | 16.3               | 16.6        | 97.6       |
| H4     | 75.0           | 75.7        | 99.7       |                      |             |            | 15.0               | 15.2        | 89.6       |
| I1 (R) | 77.0           | 77.8        | 102.4      | 53.0                 | 54.5        | 99.0       | 16.4               | 16.7        | 98.0       |
| I2     | 79.0           | 79.2        | 105.1      |                      | 53.5        |            | 16.1               |             | 96.2       |
| I3     |                | 77.4        |            |                      | 61.6        |            |                    |             |            |
| I4     |                | 83.1        |            |                      | 58.8        |            |                    |             |            |
| J1     | 70.0           | 74.0        | 93.1       |                      |             |            | 19.3               | 19.5        | 115.3      |

|      |      |      |       |      |      |      |      |      |       |
|------|------|------|-------|------|------|------|------|------|-------|
| CKPG | 75.2 | 75.2 | 100.1 | 50.9 | 53.5 | 95.0 | 16.8 | 16.7 | 100.7 |
| (R)  | 76.5 |      |       | 47.8 |      |      | 16.4 |      |       |

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 VII  
Data on Conditioning and Testing Environments  
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| Conditioning Environment |                                |            |                     |        | Testing Environment                                                                       |                  |
|--------------------------|--------------------------------|------------|---------------------|--------|-------------------------------------------------------------------------------------------|------------------|
| Code                     | Conditioned<br>Before Testing? | Procedures |                     |        | Are Quality Samples Tested<br>Under Controlled Conditions<br>Of Temperature and Humidity? |                  |
|                          |                                | Min.       | Temp <sup>o</sup> F | R.H. % |                                                                                           |                  |
| A1                       | NO                             | --         | --                  | --     | YES: 72 $\pm 2^{\circ}$ F;                                                                | 50 $\pm 2$ % RH  |
| A2                       | NO                             | --         | --                  | --     | YES: 73 $\pm 2^{\circ}$ F;                                                                | 50 $\pm 2$ % RH  |
| A3                       | NO                             | --         | --                  | --     | YES: 73 $\pm 2^{\circ}$ F;                                                                | 50 $\pm 2$ % RH  |
| A4                       | NO                             | --         | --                  | --     | YES: 70 $\pm 2^{\circ}$ F;                                                                | 50 $\pm 2$ % RH  |
| B1                       | NO                             | --         | --                  | --     | YES: 72 $\pm 1^{\circ}$ F;                                                                | 50 $\pm 1$ % RH  |
| B2                       | NO                             | --         | --                  | --     | NO                                                                                        |                  |
| B3                       | NO                             | --         | --                  | --     | YES: 72 $\pm 2^{\circ}$ F;                                                                | 50 $\pm 5$ % RH  |
| B4                       | NO                             | --         | --                  | --     | YES: 73 $\pm 2^{\circ}$ F;                                                                | 50 $\pm 2$ % RH  |
| C1                       | NO                             | --         | --                  | --     | YES: 72 $\pm 2^{\circ}$ F;                                                                | 50 $\pm 5$ % RH  |
| C2                       | NO                             | --         | --                  | --     | YES: 73 $\pm 2^{\circ}$ F;                                                                | 50 $\pm 2$ % RH  |
| C3                       | NO                             | --         | --                  | --     | NO                                                                                        |                  |
| C4                       | NO                             | --         | --                  | --     | YES: 73 $\pm 2^{\circ}$ F;                                                                | 50 $\pm 2$ % RH  |
| D1                       | NO                             | --         | --                  | --     | YES: 73 $\pm 2^{\circ}$ F;                                                                | 50 $\pm 2$ % RH  |
| D2                       | NO                             | --         | --                  | --     | YES: 70 $\pm 2^{\circ}$ F;                                                                | 50 $\pm 2$ % RH  |
| D3                       | NO                             | --         | --                  | --     | YES: 69 $\pm 5^{\circ}$ F;                                                                | 50 $\pm 3$ % RH  |
| D4                       | NO                             | --         | --                  | --     | YES: 65 $\pm 7^{\circ}$ F;                                                                | 50 $\pm 2$ % RH  |
| E1                       | NO                             | --         | --                  | --     | NO                                                                                        |                  |
| E2                       | NO                             | --         | --                  | --     | YES: 70 $\pm 2^{\circ}$ F;                                                                | 50 $\pm 10$ % RH |
| E3                       | NO                             | --         | --                  | --     | NO                                                                                        |                  |
| E4                       | NO                             | --         | --                  | --     | YES: 72 $\pm 4^{\circ}$ F;                                                                | 50 $\pm 5$ % RH  |
| F1                       | NO                             | --         | --                  | --     | YES: 72 $\pm 4^{\circ}$ F;                                                                | 50 $\pm 5$ % RH  |
| F2                       | NO                             | --         | --                  | --     | YES: 73 $\pm 2^{\circ}$ F;                                                                | 50 $\pm 2$ % RH  |
| F3                       | NO                             | --         | --                  | --     | YES: 72 $\pm 2^{\circ}$ F;                                                                | 50 $\pm 2$ % RH  |
| F4                       | NO                             | --         | --                  | --     | YES: 72 $\pm 2^{\circ}$ F;                                                                | 50 $\pm 2$ % RH  |
| G1                       | NO                             | --         | --                  | --     | NO                                                                                        |                  |
| G2                       | NO                             | --         | --                  | --     | YES: 72 $\pm 2^{\circ}$ F;                                                                | 50 $\pm 3$ % RH  |
| G3                       | NO                             | --         | --                  | --     | YES: 73 $\pm 2^{\circ}$ F;                                                                | 50 $\pm 2$ % RH  |
| G4                       | NO                             | --         | --                  | --     | YES: 70 $\pm 1^{\circ}$ F;                                                                | 50 $\pm 2$ % RH  |
| H1                       | NO                             | --         | --                  | --     | YES: 70 $\pm 1^{\circ}$ F;                                                                | 50 $\pm 2$ % RH  |
| H2                       | NO                             | --         | --                  | --     | YES: 72 $\pm 2^{\circ}$ F;                                                                | 50 $\pm 5$ % RH  |
| H3                       | NO                             | --         | --                  | --     | YES: 72 $\pm 3^{\circ}$ F;                                                                | 50 $\pm 2$ % RH  |
| H4                       | NO                             | --         | --                  | --     | YES: 70 $\pm 2^{\circ}$ F;                                                                | 50 $\pm 1$ % RH  |
| I1                       | NO                             | --         | --                  | --     | NO                                                                                        |                  |
| I2                       | NO                             | --         | --                  | --     | NO                                                                                        |                  |
| I3                       | NO                             | --         | --                  | --     | YES: 73 $\pm 2^{\circ}$ F;                                                                | 50 $\pm 2$ % RH  |
| I4                       | NO                             | --         | --                  | --     | YES: 73 $\pm 2^{\circ}$ F;                                                                | 50 $\pm 2$ % RH  |
| J1                       | NO                             | --         | --                  | --     | YES: 73 $\pm 2^{\circ}$ F;                                                                | 50 $\pm 2$ % RH  |

## 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%:

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

NOTE B: Machine index (%) =

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

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

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

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

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

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

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

---

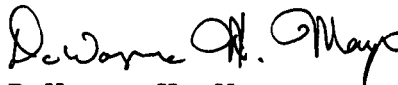
CMA = current machine average for a specific physical property of a specific corrugating medium grade weight obtained during a given period on a specific machine.

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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