

| <i>Subscriber Number</i> | <i>Moisture Z-Values</i> | <i>Protein Z-Values</i> | <i>Ash Z-Values</i> | <i>Falling Number Z-Values</i> |
|--------------------------|--------------------------|-------------------------|---------------------|--------------------------------|
| 26                       | 0.17                     | 0.66                    | 0.76                | 0.08                           |
| 62                       | 0.49                     | 0.55                    | 2.21                |                                |
| 77                       | 0.01                     | 0.28                    | 2.14                | 0.80                           |
| 102                      | 0.01                     | 0.13                    | 0.01                | 0.58                           |
| 246                      | 2.71                     | 1.70                    | 1.79                | 0.09                           |
| 300                      | 0.88                     | 0.81                    |                     | 1.44                           |
| 365                      | 0.68                     | 0.55                    | 0.61                | 0.93                           |
| 484                      | 0.72                     | 0.22                    | 0.21                | 1.38                           |
| 589                      | 0.51                     | 0.04                    | 0.79                | 1.45                           |
| 619                      | 1.18                     | 0.34                    | 0.19                | 1.30                           |
| 622                      | 0.28                     | 0.55                    | 0.59                | 1.52                           |
| 649                      | 0.88                     | 0.01                    | 0.51                | 0.24                           |
| 677                      | 0.38                     | 0.13                    | 0.99                |                                |
| 727                      | 0.42                     | 0.31                    | 0.11                | 1.40                           |
| 750                      | 2.71                     | 0.81                    | 0.14                |                                |
| 912                      | * 4.01                   | 2.67                    | 0.36                |                                |
| 914                      | 0.49                     | 0.37                    | 0.14                | 0.82                           |
| 977                      | 0.27                     | 0.65                    | 0.14                |                                |
| 978                      | 1.22                     | 1.61                    | 1.86                |                                |
| 1327                     | 0.49                     | 0.49                    | 0.36                | 0.57                           |
| 1419                     | 0.04                     | 2.88                    | 0.37                | 0.15                           |
| 1484                     | 0.97                     | 0.10                    | 0.19                | 0.14                           |
| 1496                     | 0.95                     |                         |                     | 1.08                           |
| 1506                     | 0.70                     | 0.31                    | 1.59                | 1.45                           |
| 1540                     | 1.34                     |                         | * 3.86              | 1.11                           |
| 1547                     | 0.04                     |                         | 0.64                | 0.67                           |
| 1548                     | 2.09                     |                         | 0.36                | 1.00                           |
| 1549                     | 0.72                     |                         | 0.14                | 0.63                           |
| 1559                     | 0.31                     | * 3.83                  | 1.81                | 0.89                           |
| 1593                     | 0.04                     | * 5.10                  | 1.36                | 1.20                           |
| 1602                     | 1.32                     | 0.37                    |                     |                                |
| 1675                     | 0.49                     |                         | 1.14                | 0.92                           |
| 1684                     | 0.26                     | 0.78                    | 0.14                | 0.01                           |
| 1693                     | 0.49                     | 0.52                    | 0.09                | 0.86                           |
| 1706                     | 0.15                     | 0.34                    | 0.71                | 1.36                           |

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|------------------------------|------------------------------|-----------------------------|-------------------------|------------------------------------|
| <b>N</b>                     | 34                           | 27                          | 31                      | 28                                 |
| <b>Mean</b>                  | 0.72                         | 0.67                        | 0.73                    | 0.86                               |
| <b>Min</b>                   | 0.01                         | 0.01                        | 0.01                    | 0.01                               |
| <b>Max</b>                   | 2.71                         | 2.88                        | 2.21                    | 1.52                               |

\* Not included in analytical mean

#### Z-Values

Each individual z-value represents the decimal number of standard deviations by which an analytical result differs from the "true value", as represented by the mean. The minimum or "perfect" z-value is thus 0.00. Proficiency in any one analysis over a year's time (6 bimonthly results) is determined by their mean z-value plus a penalty for each outlier (\*) reported, if any. Proficiency in a series is determined by the mean of the mean z-values (including penalties, if any) for the specified principal analyses in that series. In general, z-values of less than 2.00, consistently maintained and thus averaging less than 2000 over a year for a series (including outlier penalties, if any), are considered to represent satisfactory accuracy and precision. On the same basis, values of less than 1.00 consistently maintained represent outstanding accuracy and precision.

A detailed description of this rating system is available upon request from AACC headquarters.

**CONFIDENTIALITY NOTICE: The data contained herein are confidential and intended for subscriber use only. Data from other subscribers are included for comparison purposes only.**