

| <i>Subscriber Number</i> | <i>Moisture Z-Values</i> | <i>Protein Z-Values</i> | <i>Ash Z-Values</i> | <i>pH Z-Values</i> | <i>Falling Number Z-Values</i> |
|------------------------------|------------------------------|-----------------------------|-------------------------|------------------------|------------------------------------|
| 23 | 0.61 | 2.28 | 0.13 | 0.06 | 0.91 |
| 164 | 0.26 | 0.15 | 0.60 | 1.29 | 1.64 |
| 193 | 0.75 | 0.25 | 0.13 | 1.38 | 0.11 |
| 242 | 0.34 | 0.84 | 1.06 | 2.05 | 0.53 |
| 247 | 0.65 | 0.11 | 1.53 | 4.11 | 0.74 |
| 325 | 0.84 | 1.73 | | 1.26 | |
| 378 | 0.12 | 0.52 | 0.39 | 0.15 | |
| 387 | 0.34 | 0.13 | 0.65 | 0.68 | |
| 497 | 1.55 | | | | 0.57 |
| 512 | 0.34 | 0.05 | 0.55 | 0.59 | 1.93 |
| 519 | 1.85 | 1.13 | 1.07 | 0.15 | 0.40 |
| 589 | 0.07 | 0.29 | 0.08 | 1.00 | 0.40 |
| 593 | 0.98 | 0.29 | | | |
| 603 | 1.47 | 0.80 | 0.60 | 1.38 | 0.40 |
| 641 | 1.17 | 2.61 | * 4.65 | * 2.67 | |
| 649 | 1.18 | 0.56 | 1.53 | 0.20 | 1.21 |
| 653 | 0.34 | 0.28 | 0.39 | 0.41 | |
| 654 | 0.34 | 0.03 | 0.39 | 1.09 | |
| 655 | 0.04 | 0.17 | 0.02 | 0.82 | |
| 662 | 0.72 | 1.48 | 0.44 | 0.41 | 1.30 |
| 750 | 0.72 | 0.28 | 0.39 | 0.15 | 0.19 |
| 812 | 0.41 | 0.56 | 0.23 | 1.56 | |
| 1020 | 0.45 | 0.29 | 1.02 | 0.56 | 0.23 |
| 1056 | 0.99 | 1.64 | 0.13 | 0.59 | 2.27 |
| 1326 | 0.79 | 0.29 | 0.76 | 0.41 | 0.83 |
| 1427 | 0.34 | 0.40 | 0.03 | 0.38 | 0.66 |
| 1451 | 0.79 | | | | |
| 1577 | 1.48 | 0.29 | 0.65 | 1.17 | |
| 1598 | 1.89 | 0.45 | | 0.91 | |
| 1601 | 2.61 | 0.28 | 2.21 | | 0.23 |
| 1641 | 0.12 | 0.56 | 0.02 | 1.03 | 0.96 |
| 1663 | 0.08 | 0.41 | 0.91 | 0.50 | 0.11 |
| 1684 | 0.22 | 0.65 | 0.24 | 0.06 | 1.38 |
| 1692 | 2.12 | 0.68 | * 4.81 | * 0.56 | 1.00 |
| 1726 | 0.68 | 0.21 | 0.39 | 0.77 | * 3.93 |
| 1740 | 0.83 | 2.93 | 2.99 | | 0.83 |
| 1741 | 0.38 | 0.01 | 1.95 | 0.41 | 0.06 |
| 1742 | 0.61 | 0.72 | 0.13 | 0.68 | |

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|--------------------------|--------------------------|-------------------------|---------------------|--------------------|--------------------------------|
| N | 38 | 36 | 31 | 32 | 24 |
| Mean | 0.78 | 0.67 | 0.70 | 0.79 | 0.79 |
| Min | 0.04 | 0.01 | 0.02 | 0.06 | 0.06 |
| Max | 2.61 | 2.93 | 2.99 | 2.67 | 2.27 |

* 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), 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 is available upon request from AACC headquarters.

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