

<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	0.21	1.77	0.51	0.03	0.10
62	3.31	0.33	1.52		
164	0.18	0.39	0.03	0.44	0.72
193	0.42	0.39	0.24	0.39	0.65
242	0.32	1.91	0.00	1.52	0.95
247	0.77	0.62	0.64	1.19	0.97
274	0.65	1.27	0.54	0.21	0.71
325	1.60	2.00		0.30	
378	0.19	0.76	0.85	0.63	
388	0.34		1.86	0.72	2.17
497	0.98	0.33	1.86	1.33	0.51
512	0.67	* 16.52	1.66	0.12	2.05
519	0.34	2.33	0.47	1.28	1.47
589	0.78	0.55	0.00	1.05	0.37
593	0.65	0.19	1.86		
603	1.37	1.25	0.88	0.25	1.33
607	0.87	0.15	0.85	0.07	1.21
641	* 3.62	2.42	0.95	1.47	0.42
649	0.48	0.08	* 7.82	* 2.03	1.47
653	0.45	0.44	0.07	1.61	
654	0.31	0.85	0.17	0.16	
655	0.95		0.44	1.00	
662	0.62	0.67	0.41	0.02	0.54
750	0.34	0.78	0.17	0.49	0.27
769	0.97	0.33	0.07	0.16	0.54
771	0.32	0.69	1.08	2.31	
812	1.31	0.44	0.44	0.81	0.57
1020	0.52	0.24	0.30	0.17	0.74
1056	0.32	0.71	0.17	0.25	0.10
1326	0.98	0.53	0.51	0.49	0.80
1338	* 5.59		1.83	0.12	
1352	0.65	0.60	1.86	0.30	0.07
1451	0.65				
1577	1.00	0.80	0.51	0.49	
1591	1.00	0.33	0.27	0.02	1.15
1598	0.24	0.08	2.20	0.86	
1601	2.78	0.24	0.85	0.16	0.86
1641	0.15	0.94	0.03	0.26	1.01
1661	1.16	* 6.51	0.17	1.61	
1684	0.45	0.33	0.17	0.53	1.18
1692	0.67	1.45	1.79	2.78	0.07
1711	0.35	0.24	0.27	0.17	

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N	40	36	39	39	28
Mean	0.76	0.76	0.73	0.71	0.82
Min	0.15	0.08	0.00	0.02	0.07
Max	3.31	2.42	2.20	2.78	2.17

* 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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