



Analyte PT For All Labs

Magruder Fertilizer Proficiency Testing Program

Analytes: 29

Sample # 250341

Phosphorous Select PT Scheme

Labs Reporting: 16

MAP & DAP 11-48-0

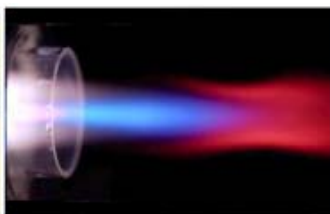
Statistical Summary

Issue Date : 06/30/2025

Analyte Code	Analyte Sample # 250341	# Tests Submitted	# Tests in Robust Calculations	Raw Mean	Raw SD	Assigned Value Robust Mean	IA at Analyte Value	Robust sd	Robust Uncertainty (U)	Robust % RSD	Analyte IA Ratio	Average Range (R-bar)	Horwitz %RSD
001	Ammoniacal N (%)	5	5	10.75	0.0553	10.75		0.0553	0.0309	0.51%		0.0240	2.80%
010	Total N (11%)	12	11	10.74	0.3071	10.79	0.5919	0.1181	0.0445	1.09%	0.47	0.0948	2.80%
020	Total P2O5 (%)	10	9	44.46	1.172	44.87		0.2518	0.1049	0.56%		0.1002	1.49%
030	Citrate Insoluble P2O5 (%)	6	6	0.8504	0.0820	0.8504		0.0929	0.0474	10.93%		0.1050	4.10%
040	Indirect Available P2O5 (48%)	5	5	44.07	0.1811	44.07	0.9615	0.1811	0.1013	0.41%	0.44	0.0730	1.51%
041	Direct Available P2O5 (48%)	8	8	44.96	4.676	44.14	0.9628	2.771	1.224	6.28%	6.70	0.3400	1.51%
048	Water Soluble P2O5 (%)	4	4	37.67	0.0656	37.67		0.0656	0.0410	0.17%		0.1538	1.63%
050	Soluble K2O (%)	3	3	0.2185	0.0148	0.2185	0.4100	0.0148	0.0106	6.75%	0.08	0.0131	5.03%
060	Water (Free) (%)	3	3	0.9075	0.1959	0.9075		0.1959	0.1414	21.58%		0.0850	4.06%
101	Acid Soluble Ca (%)	4	4	0.8783	0.2017	0.8783	0.2439	0.2017	0.1261	22.97%	1.93	0.0285	4.08%
121	Acid Soluble Mg (%)	5	5	1.099	0.3037	1.099	0.2550	0.3037	0.1698	27.63%	2.78	0.0177	3.94%
145	Sulfate S, HCl soluble (%)	1		2.868									
148	Total S (%)	5	5	6.400	2.011	6.400	0.5200	2.011	1.124	31.43%	9.01	0.0984	3.02%
151	Acid Soluble As (ppm)	7	7	17.86	9.762	15.94		6.058	2.862	38.01%		0.9052	10.55%
165	Acid Soluble B (%)	2	1	0.0091	0.0013								
181	Acid Soluble Cd (ppm)	6	6	4.630	1.991	4.422		1.753	0.8947	39.65%		0.5179	12.79%
191	Acid Soluble Cr (ppm)	7	7	103.1	13.36	103.1		15.15	7.156	14.69%		2.322	7.96%
202	Acid Soluble Co (ppm)	7	7	5.145	1.398	5.145	2.5436	1.586	0.7493	30.82%	1.45	1.218	12.50%
221	Acid Soluble Cu (%)	4	3	0.0007	0.0005	0.0010	0.0051	0.0001	0.0001	14.68%	0.07	0.0003	11.34%
241	Acid Soluble Fe (%)	5	5	1.411	0.3220	1.411	0.1461	0.3220	0.1800	22.82%	5.13	0.0152	3.80%
251	Acid Soluble Pb (ppm)	7	7	3.730	1.413	3.730		1.602	0.7568	42.94%		1.013	13.12%
261	Acid Soluble Mn (%)	3	3	0.0335	0.0013	0.0335	0.0084	0.0013	0.0009	3.83%	0.36	0.0008	6.67%
281	Acid Soluble Hg (ppm)	3	0	0.6703	1.152	0.0335		0.0013		3.83%		0.0001	22.00%
289	Acid Soluble Mo (ppm)	7	7	18.92	8.973	16.27	5.8809	2.733	1.291	16.80%	1.08	1.513	10.51%
291	Acid Soluble Ni (ppm)	7	7	13.77	2.684	13.77		3.044	1.438	22.10%		0.6167	10.78%
301	Acid Soluble Se (ppm)	5	1	2.322	4.308	13.77		3.044	3.805	22.10%		0.0792	10.78%
311	Sodium (%)	3	3	0.1887	0.0365	0.1887	0.0239	0.0365	0.0263	19.32%	3.56	0.0164	5.14%
321	Acid Soluble Zn (%)	6	6	0.3001	0.0241	0.3001	0.0350	0.0273	0.0140	9.11%	1.82	0.0238	4.79%
325	Water Soluble Zn (%)	2	2	0.1883	0.1863								

Analyte Code	Analyte Sample # 250341	# Tests Submitted	# Tests in Robust Calculations	Raw Mean	Raw SD	Assigned Value Robust Mean	IA at Analyte Value	Robust sd	Robust Uncertainty (U)	Robust % RSD	Analyte IA Ratio	Average Range (R-bar)	Horwitz %RSD
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The Analyte IA Ratio = $2.33 \times \text{Robust SD} / \text{IA at the Analyte Assigned Value}$. IA ratios of 1 and less indicate participant data dispersion is as good or less than the IA. Red indicates the IA ratio is significantly greater than 1, Orange indicates marginally greater than 1, Green indicates IA ratio is not significantly greater than 1 and Grey indicates < 6 labs reporting. The Horwitz %RSD is calculated using the Thompson Modification, Analyst,2000,125,385-386.



Analyte PT For All Labs

Magruder Fertilizer Proficiency Testing Program

Analytes: 29

Sample # 250341

Phosphorous Select PT Scheme

Labs Reporting: 16

MAP & DAP 11-48-0

Lab Values

Issue Date : 06/30/2025

Analyte Group	Analyte (Units)	Lab Code	Lab Data		*Robust Method Values			# Tests	Magruder PT Z Score	Your Method	Flag
			Value	Range	Rob Mean	Rob SD	Rob R-bar				
001	Ammoniacal N (%)	0581	10.70	0.0200	10.75	0.0553	0.0240	5	-0.85	001.99	0
001	Ammoniacal N (%)	0582	10.70	0.0400	10.75	0.0553	0.0240	5	-0.85	001.99	0
001	Ammoniacal N (%)	0593	10.75	0.0200	10.75	0.0553	0.0240	5	-0.04	001.99	0
001	Ammoniacal N (%)	0220	10.76	0.0100	10.75	0.0553	0.0240	5	0.14	001.99	0
001	Ammoniacal N (%)	0096	10.84	0.0300	10.75	0.0553	0.0240	5	1.59	001.99	0
010	Total N (11%)	0042	10.65	0.3000	10.79	0.1181	0.0948	11	-1.21	010.60	0
010	Total N (11%)	0582	10.69	0.0400	10.79	0.1181	0.0948	11	-0.87	010.60	0
010	Total N (11%)	0527	10.72	0.0010	10.79	0.1181	0.0948	11	-0.65	010.60	0
010	Total N (11%)	0561	10.73	0.0800	10.79	0.1181	0.0948	11	-0.53	010.60	0
010	Total N (11%)	0007	10.75	0.1000	10.79	0.1181	0.0948	11	-0.36	010.60	0
010	Total N (11%)	0185	10.76	0.0100	10.79	0.1181	0.0948	11	-0.32	010.60	0
010	Total N (11%)	0220	10.79	0.0100	10.79	0.1181	0.0948	11	-0.07	010.60	0
010	Total N (11%)	0405	10.85	0.0100	10.79	0.1181	0.0948	11	0.44	010.60	0
010	Total N (11%)	0040	10.90	0.2000	10.79	0.1181	0.0948	11	0.91	010.60	0
010	Total N (11%)	0309	10.93	0.0400	10.79	0.1181	0.0948	11	1.16	010.11	0
010	Total N (11%)	0593	11.20	0.3500	10.79	0.1181	0.0948	11	3.45	010.60	0
010	Total N (11%)	0494	9.880†	0.8600	10.79	0.1181	0.0948	11	-7.73	010.60	1
020	Total P2O5 (%)	0527	44.02	0.0016	44.87	0.2518	0.1002	9	-3.09	020.50	0
020	Total P2O5 (%)	0309	44.57	0.0400	44.87	0.2518	0.1002	9	-1.08	020.20	0
020	Total P2O5 (%)	0593	44.81	0.2400	44.87	0.2518	0.1002	9	-0.20	020.20	0
020	Total P2O5 (%)	0405	44.85	0.0400	44.87	0.2518	0.1002	9	-0.06	020.20	0
020	Total P2O5 (%)	0582	44.88	0.0100	44.87	0.2518	0.1002	9	0.04	020.20	0
020	Total P2O5 (%)	0581	44.94	0.1400	44.87	0.2518	0.1002	9	0.27	020.20	0
020	Total P2O5 (%)	0561	45.04	0.0600	44.87	0.2518	0.1002	9	0.64	020.20	0
020	Total P2O5 (%)	0586	45.05	0.2300	44.87	0.2518	0.1002	9	0.66	020.40	0
020	Total P2O5 (%)	0096	45.17	0.1400	44.87	0.2518	0.1002	9	1.12	020.40	0
020	Total P2O5 (%)	0042	41.25	1.100	44.87	0.2518	0.1002	9	-13.25	020.40	1
030	Citrate Insoluble P2O5 (%)	0581	0.7400	0.2200	0.8504	0.0929	0.1050	6	-1.06	030.50	0
030	Citrate Insoluble P2O5 (%)	0096	0.8100	0.1000	0.8504	0.0929	0.1050	6	-0.39	030.40	0
030	Citrate Insoluble P2O5 (%)	0582	0.8200	0.0200	0.8504	0.0929	0.1050	6	-0.29	030.50	0
030	Citrate Insoluble P2O5 (%)	0593	0.8575	0.1750	0.8504	0.0929	0.1050	6	0.07	030.99	0

Analyte Group	Analyte (Units)	Lab Code	Lab Data		*Robust Method Values			# Tests	Magruder PT Z Score	Your Method	Flag
			Value	Range	Rob Mean	Rob SD	Rob R-bar				
030	Citrate Insoluble P2O5 (%)	0586	0.8950	0.0100	0.8504	0.0929	0.1050	6	0.43	030.40	0
030	Citrate Insoluble P2O5 (%)	0405	0.9800	0.0000	0.8504	0.0929	0.1050	6	1.24	030.20	0
040	Indirect Available P2O5 (48%)	0405	43.88	0.0300	44.07	0.1811	0.0730	5	-1.10	040.99	0
040	Indirect Available P2O5 (48%)	0593	43.95	0.0650	44.07	0.1811	0.0730	5	-0.67	040.99	0
040	Indirect Available P2O5 (48%)	0582	44.06	0.0300	44.07	0.1811	0.0730	5	-0.11	040.99	0
040	Indirect Available P2O5 (48%)	0586	44.15	0.2200	44.07	0.1811	0.0730	5	0.42	040.40	0
040	Indirect Available P2O5 (48%)	0096	44.34	0.0200	44.07	0.1811	0.0730	5	1.47	040.40	0
041	Direct Available P2O5 (48%)	0185	39.38†	0.3700	44.14	2.771	0.3400	8	-1.57	041.11	0
041	Direct Available P2O5 (48%)	0007	42.35†	0.7000	44.14	2.771	0.3400	8	-0.59	041.50	0
041	Direct Available P2O5 (48%)	0405	43.07†	0.0200	44.14	2.771	0.3400	8	-0.35	041.11	0
041	Direct Available P2O5 (48%)	0220	44.03	0.0700	44.14	2.771	0.3400	8	-0.04	041.11	0
041	Direct Available P2O5 (48%)	0040	44.65	0.3000	44.14	2.771	0.3400	8	0.17	041.10	0
041	Direct Available P2O5 (48%)	0494	45.26‡	0.2500	44.14	2.771	0.3400	8	0.37	041.10	0
041	Direct Available P2O5 (48%)	0494	45.50‡	0.1800	44.14	2.771	0.3400	8	0.45	041.51	0
041	Direct Available P2O5 (48%)	0131	55.46‡	1.070	44.14	2.771	0.3400	8	3.73	041.50	0
048	Water Soluble P2O5 (%)	0581	37.62	0.2400	37.67	0.0656	0.1538	4	-0.81	048.20	0
048	Water Soluble P2O5 (%)	0582	37.63	0.0100	37.67	0.0656	0.1538	4	-0.73	048.20	0
048	Water Soluble P2O5 (%)	0593	37.69	0.2450	37.67	0.0656	0.1538	4	0.22	048.20	0
048	Water Soluble P2O5 (%)	0096	37.76	0.1200	37.67	0.0656	0.1538	4	1.33	048.40	0
050	Soluble K2O (%)	0582	0.2100	0.0000	0.2185	0.0148	0.0131	3	-0.58	050.50	0
050	Soluble K2O (%)	0096	0.2100	0.0200	0.2185	0.0148	0.0131	3	-0.58	050.99	0
050	Soluble K2O (%)	0527	0.2356	0.0061	0.2185	0.0148	0.0131	3	1.15	050.99	0
060	Water (Free) (%)	0582	0.7750	0.0500	0.9075	0.1959	0.0850	3	-0.68	060.00	0
060	Water (Free) (%)	0096	0.8150	0.1100	0.9075	0.1959	0.0850	3	-0.47	060.00	0
060	Water (Free) (%)	0593	1.133	0.0950	0.9075	0.1959	0.0850	3	1.15	060.30	0
101	Acid Soluble Ca (%)	0593	0.7000	0.0500	0.8783	0.2017	0.0285	4	-0.88	101.99	0
101	Acid Soluble Ca (%)	0096	0.7080	0.0140	0.8783	0.2017	0.0285	4	-0.84	101.30	0
101	Acid Soluble Ca (%)	0582	1.035	0.0100	0.8783	0.2017	0.0285	4	0.78	101.33	0
101	Acid Soluble Ca (%)	0581	1.070	0.0400	0.8783	0.2017	0.0285	4	0.95	101.32	0
121	Acid Soluble Mg (%)	0096	0.8380	0.0120	1.099	0.3037	0.0177	5	-0.86	121.30	0
121	Acid Soluble Mg (%)	0593	0.8810	0.0280	1.099	0.3037	0.0177	5	-0.72	121.99	0
121	Acid Soluble Mg (%)	0527	0.9165	0.0106	1.099	0.3037	0.0177	5	-0.60	121.33	0
121	Acid Soluble Mg (%)	0582	1.410	0.0000	1.099	0.3037	0.0177	5	1.02	121.33	0
121	Acid Soluble Mg (%)	0581	1.450	0.0200	1.099	0.3037	0.0177	5	1.16	121.30	0
145	Sulfate S, HCl soluble (%)	0593	2.868	0.0650				1		145.99	0
148	Total S (%)	0096	2.825	0.3100	6.400	2.011	0.0984	5	-1.78	148.99	0
148	Total S (%)	0527	7.060	0.0070	6.400	2.011	0.0984	5	0.33	148.07	0
148	Total S (%)	0581	7.080	0.0400	6.400	2.011	0.0984	5	0.34	148.00	0
148	Total S (%)	0582	7.500	0.0400	6.400	2.011	0.0984	5	0.55	148.00	0
148	Total S (%)	0593	7.538	0.0950	6.400	2.011	0.0984	5	0.57	148.00	0
151	Acid Soluble As (ppm)	0220	11.10	0.2000	15.94	6.058	0.9052	7	-0.72	151.99	0
151	Acid Soluble As (ppm)	0220	11.50	0.0000	15.94	6.058	0.9052	7	-0.66	151.32	0
151	Acid Soluble As (ppm)	0096	12.40	0.4000	15.94	6.058	0.9052	7	-0.53	151.30	0

Analyte Group	Analyte (Units)	Lab Code	Lab Data		*Robust Method Values			# Tests	Magruder PT Z Score	Your Method	Flag
			Value	Range	Rob Mean	Rob SD	Rob R-bar				
151	Acid Soluble As (ppm)	0586	13.50	1.000	15.94	6.058	0.9052	7	-0.36	151.30	0
151	Acid Soluble As (ppm)	0405	17.00	2.000	15.94	6.058	0.9052	7	0.16	151.32	0
151	Acid Soluble As (ppm)	0527	21.04	0.8973	15.94	6.058	0.9052	7	0.76	151.33	0
151	Acid Soluble As (ppm)	0593	38.50	1.000	15.94	6.058	0.9052	7	3.37	151.30	0
165	Acid Soluble B (%)	0593	0.0082	0.0006				1		165.99	0
165	Acid Soluble B (%)	0527	< 0.01					1		165.99	5
181	Acid Soluble Cd (ppm)	0220	3.200	0.2000	4.422	1.753	0.5179	6	-0.62	181.32	0
181	Acid Soluble Cd (ppm)	0220	3.200	0.0000	4.422	1.753	0.5179	6	-0.62	181.99	0
181	Acid Soluble Cd (ppm)	0527	3.581	0.2715	4.422	1.753	0.5179	6	-0.43	181.33	0
181	Acid Soluble Cd (ppm)	0405	4.000	0.0000	4.422	1.753	0.5179	6	-0.21	181.32	0
181	Acid Soluble Cd (ppm)	0586	5.500	1.000	4.422	1.753	0.5179	6	0.55	181.30	0
181	Acid Soluble Cd (ppm)	0593	8.300	0.6000	4.422	1.753	0.5179	6	1.97	181.30	0
191	Acid Soluble Cr (ppm)	0220	87.00	1.000	103.1	15.15	2.322	7	-0.96	191.32	0
191	Acid Soluble Cr (ppm)	0220	87.30	0.8000	103.1	15.15	2.322	7	-0.95	191.99	0
191	Acid Soluble Cr (ppm)	0527	100.7	1.296	103.1	15.15	2.322	7	-0.14	191.33	0
191	Acid Soluble Cr (ppm)	0586	105.5	5.000	103.1	15.15	2.322	7	0.14	191.30	0
191	Acid Soluble Cr (ppm)	0096	107.5	1.000	103.1	15.15	2.322	7	0.26	191.30	0
191	Acid Soluble Cr (ppm)	0405	108.5	1.000	103.1	15.15	2.322	7	0.32	191.32	0
191	Acid Soluble Cr (ppm)	0593	125.5	7.000	103.1	15.15	2.322	7	1.33	191.30	0
202	Acid Soluble Co (ppm)	0593	3.900	0.4000	5.145	1.586	1.218	7	-0.71	202.30	0
202	Acid Soluble Co (ppm)	0527	3.978	0.0465	5.145	1.586	1.218	7	-0.67	202.33	0
202	Acid Soluble Co (ppm)	0220	4.400	0.2000	5.145	1.586	1.218	7	-0.42	202.32	0
202	Acid Soluble Co (ppm)	0586	4.500	3.000	5.145	1.586	1.218	7	-0.37	202.30	0
202	Acid Soluble Co (ppm)	0220	5.000	1.800	5.145	1.586	1.218	7	-0.08	202.99	0
202	Acid Soluble Co (ppm)	0405	7.000	0.0000	5.145	1.586	1.218	7	1.06	202.32	0
202	Acid Soluble Co (ppm)	0096	7.240	1.860	5.145	1.586	1.218	7	1.19	202.30	0
221	Acid Soluble Cu (%)	0405	0.0009	0.0000	0.0010	0.0001	0.0003	3	-0.58	221.32	0
221	Acid Soluble Cu (%)	0527	0.0009	0.0000	0.0010	0.0001	0.0003	3	-0.58	221.33	0
221	Acid Soluble Cu (%)	0593	0.0012	0.0003	0.0010	0.0001	0.0003	3	1.15	221.99	0
221	Acid Soluble Cu (%)	0586	0.0000	0.0000	0.0010	0.0001	0.0003	3		221.99	4
241	Acid Soluble Fe (%)	0527	1.156	0.0009	1.411	0.3220	0.0152	5	-0.79	241.33	0
241	Acid Soluble Fe (%)	0096	1.165	0.0300	1.411	0.3220	0.0152	5	-0.76	241.30	0
241	Acid Soluble Fe (%)	0593	1.210	0.0000	1.411	0.3220	0.0152	5	-0.62	241.99	0
241	Acid Soluble Fe (%)	0582	1.735	0.0100	1.411	0.3220	0.0152	5	1.01	241.33	0
241	Acid Soluble Fe (%)	0581	1.790	0.0200	1.411	0.3220	0.0152	5	1.18	241.32	0
251	Acid Soluble Pb (ppm)	0096	2.100	0.4000	3.730	1.602	1.013	7	-0.92	251.30	0
251	Acid Soluble Pb (ppm)	0220	2.650	0.1000	3.730	1.602	1.013	7	-0.61	251.99	0
251	Acid Soluble Pb (ppm)	0586	3.000	4.000	3.730	1.602	1.013	7	-0.41	251.30	0
251	Acid Soluble Pb (ppm)	0527	3.060	0.1102	3.730	1.602	1.013	7	-0.38	251.33	0
251	Acid Soluble Pb (ppm)	0220	4.250	1.900	3.730	1.602	1.013	7	0.29	251.32	0
251	Acid Soluble Pb (ppm)	0593	5.050	0.5000	3.730	1.602	1.013	7	0.75	251.30	0
251	Acid Soluble Pb (ppm)	0405	6.000	0.0000	3.730	1.602	1.013	7	1.28	251.32	0
261	Acid Soluble Mn (%)	0527	0.0328	0.0001	0.0335	0.0013	0.0008	3	-0.60	261.35	0

Analyte Group	Analyte (Units)	Lab Code	Lab Data		*Robust Method Values			# Tests	Magruder PT Z Score	Your Method	Flag
			Value	Range	Rob Mean	Rob SD	Rob R-bar				
261	Acid Soluble Mn (%)	0096	0.0328	0.0002	0.0335	0.0013	0.0008	3	-0.56	261.30	0
261	Acid Soluble Mn (%)	0593	0.0350	0.0020	0.0335	0.0013	0.0008	3	1.15	261.99	0
281	Acid Soluble Hg (ppm)	0527	< 0.001					0		281.30	5
281	Acid Soluble Hg (ppm)	0220	< 0.01					0		281.99	5
281	Acid Soluble Hg (ppm)	0405	< 2					0		281.30	5
289	Acid Soluble Mo (ppm)	0220	13.05	0.3000	16.27	2.733	1.513	7	-1.07	289.99	0
289	Acid Soluble Mo (ppm)	0220	13.80	1.000	16.27	2.733	1.513	7	-0.82	289.32	0
289	Acid Soluble Mo (ppm)	0096	16.30	1.200	16.27	2.733	1.513	7	0.01	289.30	0
289	Acid Soluble Mo (ppm)	0527	16.37	0.2153	16.27	2.733	1.513	7	0.03	289.33	0
289	Acid Soluble Mo (ppm)	0405	16.50	1.000	16.27	2.733	1.513	7	0.08	289.32	0
289	Acid Soluble Mo (ppm)	0586	17.50	3.000	16.27	2.733	1.513	7	0.41	289.30	0
289	Acid Soluble Mo (ppm)	0593	38.95	3.900	16.27	2.733	1.513	7	7.50	289.30	0
291	Acid Soluble Ni (ppm)	0586	11.00	2.000	13.77	3.044	0.6167	7	-0.82	291.30	0
291	Acid Soluble Ni (ppm)	0220	11.50	0.2000	13.77	3.044	0.6167	7	-0.68	291.32	0
291	Acid Soluble Ni (ppm)	0220	11.65	0.1000	13.77	3.044	0.6167	7	-0.63	291.99	0
291	Acid Soluble Ni (ppm)	0527	12.56	0.0792	13.77	3.044	0.6167	7	-0.36	291.33	0
291	Acid Soluble Ni (ppm)	0096	15.90	0.6000	13.77	3.044	0.6167	7	0.63	291.30	0
291	Acid Soluble Ni (ppm)	0405	16.50	1.000	13.77	3.044	0.6167	7	0.81	291.32	0
291	Acid Soluble Ni (ppm)	0593	17.30	0.8000	13.77	3.044	0.6167	7	1.05	291.30	0
301	Acid Soluble Se (ppm)	0593	1.000	0.0800				1		301.30	0
301	Acid Soluble Se (ppm)	0527	< 0.01					1		301.33	5
301	Acid Soluble Se (ppm)	0220	< 0.3					1		301.32	5
301	Acid Soluble Se (ppm)	0220	< 0.3					1		301.99	5
301	Acid Soluble Se (ppm)	0405	< 10					1		301.32	5
311	Sodium (%)	0527	0.1611	0.0027	0.1887	0.0365	0.0164	3	-0.76	311.33	0
311	Sodium (%)	0096	0.1750	0.0300	0.1887	0.0365	0.0164	3	-0.38	311.99	0
311	Sodium (%)	0582	0.2300	0.0000	0.1887	0.0365	0.0164	3	1.13	311.32	0
321	Acid Soluble Zn (%)	0527	0.2656	0.0058	0.3001	0.0273	0.0238	6	-1.13	321.33	0
321	Acid Soluble Zn (%)	0405	0.2900	0.0100	0.3001	0.0273	0.0238	6	-0.33	321.32	0
321	Acid Soluble Zn (%)	0582	0.2950	0.0100	0.3001	0.0273	0.0238	6	-0.17	321.33	0
321	Acid Soluble Zn (%)	0586	0.2950	0.0100	0.3001	0.0273	0.0238	6	-0.17	321.99	0
321	Acid Soluble Zn (%)	0096	0.3228	0.0421	0.3001	0.0273	0.0238	6	0.74	321.30	0
321	Acid Soluble Zn (%)	0593	0.3325	0.0650	0.3001	0.0273	0.0238	6	1.05	321.33	0
325	Water Soluble Zn (%)	0582	0.0565	0.0030				2		325.30	0
325	Water Soluble Zn (%)	0581	0.3200	0.0200				2		325.30	0

Interpreting Z Scores and Flags:

Interpreting Z Scores: Red indicates a normally distributed Z value >3 or <-3 (requires action), Orange = Z between 2 and 3 or -2 and -3 (warning) and Green = Z < 2 and >-2 (OK at 95%). Flags indicate data usage: 0 = Used, 1 = rejected for duplicates too far apart, 2 = rejected as extreme outlier, 3 = removed from stats, 4 = rejected due to 0s submitted and 5 = LOD. A 9 flag indicates a data problem - scores not calculated.

Notes:

*Robust statistics not used if < 6 labs used in calculations, in this case Values and Z Scores are grayed out and should be interpreted with extreme caution. Identical duplicates not included in calculation of Rob R-bar. Your offset values are higher (±) or lower (†) than the Robust Analyte value ± Investigational Allowance. Analyte codes in light green indicate a guaranteed analyte. Individual lab values may be below detection limits but are reported solely for the purpose of this Proficiency Testing program.