



AAFCO
Proficiency Testing Program



Minerals Scheme

Alfalfa

Test Material Code # 202051

Analyte Summary Report

Labs Reporting: 28

Analytes Reported: 16

Issue Date : 04/30/2020

Analyte Group Code	Analyte and Method	Total # Tests Submitted	# Tests in Robust Calcs	Raw Mean	Raw SD	Assigned Value Robust Mean	Horwitz SD	Uncertainty (U) Robust	% RSD - Horwitz	Average Range (R-bar)	Thompson Horwitz %RSD
015	Aluminum (ppm)	17	16	1,078	310.2	1,075	60.17	102.9	5.59%	53.58	5.59%
017	Boron (ppm)	11	11	84.60	12.18	84.60	6.940	5.205	8.20%	5.471	8.20%
021	Cobalt (ppm)	18	17	13.65	3.095	13.65	1.473	1.064	10.79%	0.7765	10.79%
022	Copper (ppm)	26	25	10.98	2.786	11.25	1.250	0.4286	11.11%	0.7288	11.11%
023	Fluorine (ppm)	2	1	134.5							
024	Iodine (ppm)	4	4	343.3	9.430	343.3	22.81	11.40	6.64%	17.00	6.64%
034	Selenium (ppm)	17	16	5.341	0.6654	5.254	0.6548	0.1692	12.46%	0.3140	12.46%
036	Sulfur (%)	18	17	0.3276	0.0477	0.3205	0.0152	0.0101	4.75%	0.0339	4.75%
038	Molybdenum (ppm)	19	18	2.928	0.3276	2.927	0.3984	0.1094	13.61%	0.1505	13.61%
041	Vanadium (ppm)	10	9	11.98	2.174	11.65	1.288	0.6662	11.05%	0.3133	11.05%
516	Arsenic, Total (ppm)	23	18	1.650	0.2516	1.634	0.2428	0.0737	14.86%	0.0767	14.86%
518	Cadmium (ppm)	25	25	9.028	1.325	9.185	1.052	0.2307	11.46%	0.4589	11.46%
520	Chromium (ppm)	20	19	21.68	7.190	22.58	2.260	1.754	10.01%	1.009	10.01%
526	Lead (ppm)	24	24	32.08	3.018	32.57	3.084	0.5690	9.47%	1.219	9.47%
529	Mercury (ppb)	17	16	842.1	354.3	918.0	148.8	60.01	16.20%	42.90	16.20%
539	Nickel (ppm)	18	17	9.777	2.839	10.02	1.133	0.8059	11.31%	0.4029	11.31%

Notes: Robust statistics not used if < 6 labs reporting. In this case Means and SD's may be reported based on Raw Data with obvious blunders removed. Robust Assigned Values indicated in bold font. Horwitz and Revised Horwitz SD's assigned regardless of participant number.