NAPT Program
North American Proficiency Testing

Soil Science Society of America

2020 North American Proficiency Testing Program
Quarter 4 Plant Report - Friday, January 8, 2021

Laboratory ID
General

Plant			Plant 2020-210			Plant 2020-211			Plant 2020-212		
Analysis	**Units**	***n***	**Median**	***MAD***	**Lab[1,2]**	**Median**	***MAD***	**Lab[1,2]**	**Median**	***MAD***	**Lab[1,2]**
Nutrient Ions											
Dry Matter (%)	%	25	**93.7**	*0.640*		**91.8**	*0.500*		**93.0**	*0.340*	
NO3 - N Cd Rd.	mg/kg	28	**380**	*31.0*		**2,350**	*264*		**238**	*37.5*	
NO3 - N ISE	mg/kg	3	**552**	*107*		**2,480**	*70.0*		**348**	*20.0*	
NO3 - N Other	mg/kg	5	**452**	*57.1*		**2,500**	*380*		**374**	*128*	
NH4-N	mg/kg	3	**124**	*29.2*		**499**	*8.76*		**143**	*75.9*	
PO4 - P	mg/kg	11	**1,260**	*80.3*		**1,610**	*107*		**530**	*73.7*	
SO4 - S	mg/kg	5	**1,490**	*105*		**6,670**	*574*		**619**	*73.4*	
Cl	%	23	**0.610**	*0.030*		**1.68**	*0.123*		**0.246**	*0.053*	
TKN	%	9	**3.00**	*0.220*		**3.64**	*0.270*		**2.36**	*0.110*	
N- Dry Comb.	%	67	**2.98**	*0.050*		**3.93**	*0.080*		**2.43**	*0.040*	
S- Dry Comb.	%	12	**0.277**	*0.030*		**0.712**	*0.062*		**0.191**	*0.011*	
Nitric / Perchloric											
P	%	29	**0.237**	*0.010*		**0.300**	*0.010*		**0.134**	*0.006*	
K	%	30	**2.31**	*0.108*		**2.20**	*0.059*		**1.78**	*0.065*	
Ca	%	30	**1.52**	*0.060*		**3.16**	*0.090*		**3.34**	*0.111*	
Mg	%	30	**0.350**	*0.020*		**1.52**	*0.048*		**0.808**	*0.036*	
S	%	28	**0.262**	*0.008*		**0.808**	*0.028*		**0.186**	*0.010*	
Na	%	26	**0.089**	*0.006*		**0.260**	*0.018*		**0.068**	*0.004*	
Al	mg/kg	20	**266**	*43.8*		**161**	*24.9*		**237**	*30.5*	
B	mg/kg	26	**38.0**	*2.17*		**91.7**	*6.18*		**42.0**	*2.05*	
Zn	mg/kg	30	**22.2**	*1.40*		**39.8**	*1.86*		**51.7**	*2.52*	
Mn	mg/kg	30	**43.7**	*2.37*		**90.8**	*3.60*		**90.4**	*3.86*	
Fe	mg/kg	30	**304**	*29.0*		**271**	*19.9*		**315**	*19.9*	
Cu	mg/kg	30	**12.0**	*0.660*		**15.4**	*0.750*		**9.22**	*0.767*	
Mo	mg/kg	13	**1.82**	*0.216*		**1.05**	*0.151*		**0.222**	*0.022*	
Nitric / Peroxide- MICROWAVE											
P	%	36	**0.240**	*0.007*		**0.305**	*0.015*		**0.140**	*0.004*	
K	%	36	**2.36**	*0.070*		**2.18**	*0.085*		**1.80**	*0.066*	
Ca	%	36	**1.50**	*0.045*		**3.16**	*0.151*		**3.38**	*0.115*	
Mg	%	36	**0.344**	*0.014*		**1.50**	*0.055*		**0.816**	*0.026*	
S	%	33	**0.270**	*0.010*		**0.825**	*0.040*		**0.190**	*0.010*	
Na	%	28	**0.090**	*0.004*		**0.260**	*0.010*		**0.066**	*0.006*	
Al	mg/kg	23	**377**	*044*		**203**	*24.3*		**294**	*62.0*	
B	mg/kg	36	**40.0**	*1.77*		**97.1**	*5.50*		**45.0**	*2.50*	
Zn	mg/kg	36	**22.1**	*1.64*		**39.7**	*3.62*		**51.2**	*3.25*	
Mn	mg/kg	36	**43.0**	*1.05*		**91.3**	*4.39*		**91.0**	*2.85*	
Fe	mg/kg	36	**351**	*32.0*		**290**	*24.1*		**336**	*28.8*	
Cu	mg/kg	36	**12.1**	*0.610*		**15.4**	*1.16*		**9.51**	*0.785*	
Mo	mg/kg	15	**1.85**	*0.150*		**1.01**	*0.080*		**0.210**	*0.020*	
Dry Ash											
P	%	13	**0.240**	*0.010*		**0.300**	*0.018*		**0.140**	*0.010*	
K	%	13	**2.25**	*0.150*		**2.08**	*0.100*		**1.71**	*0.120*	

1 - Values flagged exceed Warning Limits " * " 2.5 x MAD (Median Absolute Deviation) and Control Limits " ** " 4 x MAD.
2 - Limits not compared to lab data for methods with less than 7 labs reporting.

Ca	%	13	**1.46**	*0.060*	**3.06**	*0.190*	**3.38**	*0.160*
Mg	%	13	**0.349**	*0.012*	**1.46**	*0.070*	**0.800**	*0.042*
Na	%	11	**0.099**	*0.009*	**0.260**	*0.030*	**0.072**	*0.012*
Al	mg/kg	4	**514**	*31.5*	**271**	*37.5*	**367**	*35.0*
B	mg/kg	12	**40.9**	*2.43*	**96.9**	*4.70*	**44.2**	*2.45*
Zn	mg/kg	13	**22.0**	*0.890*	**37.0**	*2.10*	**48.8**	*2.80*
Mn	mg/kg	12	**41.7**	*2.97*	**87.8**	*3.95*	**87.4**	*5.40*
Fe	mg/kg	13	**344**	*36.1*	**288**	*26.0*	**308**	*48.0*
Cu	mg/kg	13	**12.8**	*1.15*	**16.0**	*1.04*	**9.53**	*1.14*
Mo	mg/kg	4	**1.63**	*0.400*	**0.918**	*0.280*	**0.270**	*0.270*

1 - Values flagged exceed Warning Limits " * " 2.5 x MAD (Median Absolute Deviation) and Control Limits " ** " 4 x MAD.
2 - Limits not compared to lab data for methods with less than 7 labs reporting.