NAPT Program — North American Proficiency Testing

Soil Science Society of America

2020 North American Proficiency Testing Program
Quarter 1 Plant Report - Tuesday, May 12, 2020

Laboratory ID
General

Plant			Plant 2020-201			Plant 2020-202			Plant 2020-203		
Analysis	**Units**	***n***	**Median**	***MAD***	**Lab[1,2]**	**Median**	***MAD***	**Lab[1,2]**	**Median**	***MAD***	**Lab[1,2]**
Nutrient Ions											
Dry Matter (%)	%	24	**92.1**	*0.810*		**93.8**	*0.725*		**93.9**	*0.625*	
NO3 - N Cd Rd.	mg/kg	26	**502**	*34.4*		**382**	*28.0*		**21.0**	*03.6*	
NO3 - N ISE	mg/kg	3	**539**	*21.0*		**552**	*149*		**94.0**	*3.25*	
NO3 - N Other	mg/kg	6	**601**	*126*		**370**	*106*		**70.0**	*64.0*	
NH4-N	mg/kg	3	**565**	*5.00*		**138**	*0.600*		**49.0**	*7.97*	
PO4 - P	mg/kg	11	**3,390**	*252*		**1,340**	*125*		**583**	*61.3*	
SO4 - S	mg/kg	6	**1,190**	*128*		**1,350**	*124*		**262**	*83.5*	
Cl	%	24	**0.205**	*0.040*		**0.635**	*0.036*		**0.075**	*0.012*	
TKN	%	13	**0.900**	*0.070*		**2.82**	*0.200*		**2.30**	*0.090*	
N- Dry Comb.	%	65	**0.900**	*0.030*		**2.97**	*0.051*		**2.36**	*0.040*	
S- Dry Comb.	%	9	**0.150**	*0.020*		**0.280**	*0.024*		**0.136**	*0.016*	
Nitric / Perchloric											
P	%	29	**0.390**	*0.020*		**0.240**	*0.010*		**0.175**	*0.006*	
K	%	30	**2.99**	*0.156*		**2.38**	*0.095*		**1.26**	*0.065*	
Ca	%	30	**1.80**	*0.078*		**1.49**	*0.066*		**2.66**	*0.109*	
Mg	%	30	**0.674**	*0.034*		**0.356**	*0.024*		**0.744**	*0.031*	
S	%	29	**0.150**	*0.009*		**0.260**	*0.010*		**0.130**	*0.010*	
Na	%	25	**0.034**	*0.003*		**0.085**	*0.005*		**0.008**	*0.002*	
Al	mg/kg	17	**69.1**	*7.90*		**259**	*56.9*		**41.0**	*03.1*	
B	mg/kg	26	**43.2**	*2.80*		**39.1**	*2.32*		**40.7**	*3.00*	
Zn	mg/kg	30	**64.1**	*3.83*		**22.2**	*1.21*		**49.4**	*2.06*	
Mn	mg/kg	30	**157**	*9.57*		**43.6**	*1.27*		**37.4**	*1.38*	
Fe	mg/kg	30	**104**	*9.20*		**308**	*35.8*		**67.5**	*7.50*	
Cu	mg/kg	31	**12.9**	*1.58*		**12.1**	*1.07*		**7.10**	*0.770*	
Mo	mg/kg	10	**0.208**	*0.040*		**1.74**	*0.112*		**0.120**	*0.007*	
Nitric / Peroxide- MICROWAVE											
P	%	36	**0.398**	*0.016*		**0.242**	*0.008*		**0.180**	*0.006*	
K	%	36	**2.98**	*0.108*		**2.37**	*0.060*		**1.24**	*0.055*	
Ca	%	36	**1.75**	*0.050*		**1.50**	*0.052*		**2.63**	*0.090*	
Mg	%	36	**0.645**	*0.025*		**0.344**	*0.014*		**0.710**	*0.030*	
S	%	35	**0.150**	*0.009*		**0.264**	*0.012*		**0.130**	*0.006*	
Na	%	28	**0.032**	*0.002*		**0.085**	*0.004*		**0.005**	*0.001*	
Al	mg/kg	22	**106**	*26.5*		**397**	*045*		**63.5**	*12.7*	
B	mg/kg	36	**43.5**	*2.03*		**39.7**	*1.52*		**41.8**	*2.24*	
Zn	mg/kg	36	**65.8**	*4.39*		**22.7**	*1.10*		**49.8**	*2.15*	
Mn	mg/kg	36	**155**	*8.37*		**44.6**	*1.60*		**38.0**	*1.54*	
Fe	mg/kg	36	**110**	*7.04*		**354**	*39.5*		**73.4**	*5.54*	
Cu	mg/kg	36	**13.2**	*0.755*		**12.1**	*0.789*		**7.07**	*0.494*	
Mo	mg/kg	12	**0.250**	*0.041*		**1.90**	*0.104*		**0.175**	*0.034*	

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.

Dry Ash									
P	%	13	**0.386**	*0.016*	**0.240**	*0.010*	**0.180**	*0.006*
K	%	13	**3.02**	*0.237*	**2.39**	*0.120*	**1.29**	*0.060*
Ca	%	13	**1.75**	*0.130*	**1.45**	*0.100*	**2.58**	*0.200*
Mg	%	13	**0.640**	*0.040*	**0.340**	*0.010*	**0.703**	*0.043*
Na	%	11	**0.041**	*0.006*	**0.095**	*0.006*	**0.010**	*0.002*
Al	mg/kg	3	**112**	*2.50*	**481**	*21.8*	**69.6**	*4.00*
B	mg/kg	13	**43.9**	*2.20*	**40.1**	*2.36*	**40.7**	*1.90*
Zn	mg/kg	13	**62.2**	*2.80*	**22.7**	*1.90*	**47.0**	*3.90*
Mn	mg/kg	13	**155**	*6.00*	**41.9**	*2.60*	**38.0**	*3.14*
Fe	mg/kg	13	**98.1**	*11.0*	**330**	*26.9*	**73.1**	*6.14*
Cu	mg/kg	13	**13.2**	*0.810*	**12.1**	*0.520*	**6.81**	*1.11*
Mo	mg/kg	3	**0.500**	*0.200*	**2.00**	*0.130*	**0.400**	*0.130*

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2 - Limits not compared to lab data for methods with less than 7 labs reporting.