NAPT Program
North American Proficiency Testing

Soil Science Society of America

2021 North American Proficiency Testing Program
Quarter 1 Plant Report - Wednesday, April 14, 2021

Laboratory ID
General

Plant			Plant 2021-201			Plant 2021-202			Plant 2021-203		
Analysis	**Units**	***n***	**Median**	***MAD***	**Lab[1,2]**	**Median**	***MAD***	**Lab[1,2]**	**Median**	***MAD***	**Lab[1,2]**
Nutrient Ions											
Dry Matter (%)	%	26	**95.0**	*0.465*		**93.8**	*0.570*		**94.0**	*0.430*	
NO3 - N Cd Rd.	mg/kg	32	**554**	*51.3*		**2,460**	*210*		**26.1**	*05.3*	
NO3 - N ISE	mg/kg	3	**843**	*81.0*		**2,910**	*218*		**110**	*41.0*	
NO3 - N Other	mg/kg	6	**580**	*44.8*		**2,230**	*396*		**70.0**	*50.0*	
NH4-N	mg/kg	6	**58.9**	*10.5*		**347**	*98.5*		**102**	*32.8*	
PO4 - P	mg/kg	12	**1,690**	*166*		**2,290**	*164*		**906**	*49.2*	
SO4 - S	mg/kg	5	**741**	*84.2*		**839**	*185*		**476**	*227*	
Cl	%	25	**0.500**	*0.050*		**0.305**	*0.064*		**0.130**	*0.010*	
TKN	%	14	**3.10**	*0.095*		**2.33**	*0.105*		**1.53**	*0.105*	
N- Dry Comb.	%	68	**3.24**	*0.060*		**2.40**	*0.062*		**1.47**	*0.041*	
S- Dry Comb.	%	10	**0.252**	*0.015*		**0.169**	*0.010*		**0.112**	*0.014*	
Nitric / Perchloric											
P	%	30	**0.318**	*0.014*		**0.358**	*0.014*		**0.208**	*0.008*	
K	%	30	**2.40**	*0.077*		**2.76**	*0.122*		**0.753**	*0.035*	
Ca	%	29	**0.562**	*0.037*		**1.99**	*0.083*		**3.30**	*0.102*	
Mg	%	29	**0.250**	*0.010*		**0.513**	*0.026*		**0.931**	*0.039*	
S	%	28	**0.229**	*0.019*		**0.150**	*0.010*		**0.104**	*0.006*	
Na	%	25	**0.034**	*0.004*		**0.010**	*0.001*		**0.041**	*0.003*	
Al	mg/kg	18	**102**	*8.12*		**121**	*8.45*		**95.4**	*06.7*	
B	mg/kg	26	**21.9**	*1.54*		**34.2**	*3.00*		**49.0**	*3.15*	
Zn	mg/kg	29	**42.6**	*2.56*		**43.0**	*2.93*		**12.6**	*1.38*	
Mn	mg/kg	29	**88.0**	*3.27*		**85.8**	*4.20*		**32.0**	*1.50*	
Fe	mg/kg	29	**175**	*19.9*		**194**	*21.6*		**117**	*12.5*	
Cu	mg/kg	30	**9.03**	*0.655*		**6.50**	*0.495*		**6.04**	*0.650*	
Mo	mg/kg	10	**1.04**	*0.160*		**5.37**	*0.403*		**0.745**	*0.108*	
Nitric / Peroxide- MICROWAVE											
P	%	40	**0.320**	*0.010*		**0.360**	*0.010*		**0.207**	*0.007*	
K	%	40	**2.40**	*0.111*		**2.75**	*0.130*		**0.753**	*0.047*	
Ca	%	40	**0.540**	*0.028*		**1.97**	*0.052*		**3.26**	*0.100*	
Mg	%	40	**0.250**	*0.010*		**0.503**	*0.014*		**0.913**	*0.039*	
S	%	37	**0.239**	*0.011*		**0.157**	*0.009*		**0.105**	*0.006*	
Na	%	30	**0.034**	*0.003*		**0.010**	*0.002*		**0.040**	*0.002*	
Al	mg/kg	23	**128**	*30.5*		**173**	*42.7*		**116**	*26.5*	
B	mg/kg	40	**22.0**	*1.01*		**34.6**	*2.03*		**50.0**	*2.54*	
Zn	mg/kg	40	**41.9**	*1.72*		**42.2**	*2.44*		**12.6**	*1.40*	
Mn	mg/kg	40	**84.1**	*2.92*		**82.3**	*2.75*		**31.5**	*1.40*	
Fe	mg/kg	40	**190**	*11.0*		**194**	*17.6*		**130**	*7.35*	
Cu	mg/kg	40	**9.32**	*0.459*		**6.41**	*0.425*		**5.68**	*0.315*	
Mo	mg/kg	13	**1.10**	*0.100*		**5.50**	*0.220*		**0.695**	*0.110*	
Dry Ash											
P	%	14	**0.325**	*0.015*		**0.360**	*0.020*		**0.215**	*0.015*	
K	%	14	**2.37**	*0.135*		**2.72**	*0.175*		**0.750**	*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.

Ca	%	14	**0.535**	*0.040*	**1.96**	*0.094*	**3.28**	*0.140*
Mg	%	14	**0.254**	*0.014*	**0.505**	*0.025*	**0.920**	*0.045*
Na	%	12	**0.040**	*0.002*	**0.020**	*0.004*	**0.048**	*0.003*
Al	mg/kg	4	**124**	*20.6*	**186**	*13.7*	**123**	*11.8*
B	mg/kg	14	**21.4**	*1.37*	**33.0**	*0.910*	**48.9**	*1.55*
Zn	mg/kg	14	**39.5**	*4.34*	**42.8**	*2.78*	**12.6**	*2.18*
Mn	mg/kg	14	**80.2**	*4.66*	**81.7**	*5.26*	**31.6**	*2.15*
Fe	mg/kg	14	**170**	*12.5*	**198**	*20.3*	**116**	*14.0*
Cu	mg/kg	14	**7.96**	*0.860*	**6.83**	*1.25*	**5.81**	*0.615*
Mo	mg/kg	5	**1.22**	*0.340*	**5.52**	*0.850*	**0.860**	*0.280*

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