NAPT Program
North American Proficiency Testing

Soil Science Society of America

2019 North American Proficiency Testing Program
Quarter 1 Plant Report - Tuesday, April 16, 2019

Laboratory ID
General

Plant			Plant 2019-201			Plant 2019-202			Plant 2019-203		
Analysis	**Units**	***n***	**Median**	***MAD***	**Lab[1,2]**	**Median**	***MAD***	**Lab[1,2]**	**Median**	***MAD***	**Lab[1,2]**
Nutrient Ions											
Dry Matter (%)	%	25	**95.1**	*0.420*		**95.9**	*0.350*		**96.4**	*0.550*	
NO3 - N Cd Rd.	mg/kg	25	**20.0**	*03.0*		**16.4**	*03.8*		**36.3**	*04.3*	
NO3 - N ISE	mg/kg	4	**164**	*55.5*		**83.0**	*26.0*		**229**	*118*	
NO3 - N Other	mg/kg	3	**20.0**	*14.4*		**48.7**	*46.1*		**30.0**	*5.40*	
NH4-N	mg/kg	4	**66.4**	*4.00*		**90.1**	*30.9*		**105**	*31.0*	
PO4 - P	mg/kg	9	**1,370**	*90.0*		**679**	*13.9*		**1,360**	*64.1*	
SO4 - S	mg/kg	3	**173**	*18.0*		**701**	*13.9*		**562**	*33.0*	
Cl	%	23	**0.071**	*0.009*		**0.088**	*0.011*		**0.280**	*0.026*	
TKN	%	11	**3.06**	*0.160*		**1.04**	*0.090*		**2.59**	*0.120*	
N- Dry Comb.	%	64	**3.21**	*0.050*		**1.10**	*0.031*		**2.72**	*0.052*	
S- Dry Comb.	%	7	**0.160**	*0.000*		**0.160**	*0.020*		**0.160**	*0.010*	
Nitric / Perchloric											
P	%	30	**0.270**	*0.010*		**0.140**	*0.006*		**0.259**	*0.009*	
K	%	29	**2.55**	*0.083*		**0.575**	*0.025*		**2.91**	*0.080*	
Ca	%	29	**2.10**	*0.100*		**0.876**	*0.031*		**1.20**	*0.050*	
Mg	%	29	**0.533**	*0.023*		**0.230**	*0.010*		**0.351**	*0.016*	
S	%	28	**0.165**	*0.006*		**0.150**	*0.009*		**0.154**	*0.006*	
Na	%	22	**0.006**	*0.001*		**0.006**	*0.001*		**0.019**	*0.001*	
Al	mg/kg	19	**37.0**	*4.96*		**103**	*7.56*		**21.0**	*2.45*	
B	mg/kg	26	**40.6**	*2.24*		**32.9**	*1.92*		**22.6**	*1.25*	
Zn	mg/kg	29	**35.0**	*1.38*		**22.7**	*0.940*		**18.6**	*1.00*	
Mn	mg/kg	29	**53.0**	*2.87*		**316**	*14.7*		**41.0**	*2.00*	
Fe	mg/kg	29	**83.5**	*6.26*		**164**	*13.9*		**61.5**	*3.78*	
Cu	mg/kg	30	**10.0**	*0.580*		**4.40**	*0.400*		**7.73**	*0.730*	
Mo	mg/kg	8	**0.247**	*0.016*		**0.150**	*0.010*		**0.879**	*0.088*	
Nitric / Peroxide- MICROWAVE											
P	%	39	**0.270**	*0.010*		**0.140**	*0.008*		**0.260**	*0.011*	
K	%	38	**2.53**	*0.111*		**0.570**	*0.030*		**2.90**	*0.129*	
Ca	%	39	**2.04**	*0.080*		**0.830**	*0.038*		**1.18**	*0.040*	
Mg	%	38	**0.515**	*0.025*		**0.221**	*0.009*		**0.348**	*0.012*	
S	%	35	**0.160**	*0.010*		**0.150**	*0.010*		**0.157**	*0.007*	
Na	%	29	**0.006**	*0.001*		**0.005**	*0.001*		**0.019**	*0.002*	
Al	mg/kg	23	**65.2**	*07.2*		**110**	*8.50*		**31.0**	*7.10*	
B	mg/kg	37	**42.2**	*2.24*		**33.2**	*1.25*		**23.0**	*1.48*	
Zn	mg/kg	38	**36.1**	*1.63*		**22.0**	*1.10*		**19.0**	*0.965*	
Mn	mg/kg	38	**52.1**	*1.97*		**307**	*10.6*		**40.7**	*1.26*	
Fe	mg/kg	38	**91.6**	*6.05*		**173**	*17.6*		**64.8**	*3.30*	
Cu	mg/kg	38	**10.0**	*0.500*		**4.70**	*0.455*		**8.01**	*0.527*	
Mo	mg/kg	13	**0.200**	*0.024*		**0.220**	*0.046*		**0.870**	*0.136*	
Dry Ash											
P	%	14	**0.270**	*0.010*		**0.140**	*0.010*		**0.256**	*0.012*	
K	%	14	**2.64**	*0.205*		**0.595**	*0.050*		**3.00**	*0.185*	

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	**2.03**	*0.110*	**0.834**	*0.048*	**1.16**	*0.040*
Mg	%	14	**0.528**	*0.028*	**0.224**	*0.018*	**0.345**	*0.012*
Na	%	13	**0.013**	*0.001*	**0.010**	*0.001*	**0.028**	*0.002*
Al	mg/kg	3	**52.3**	*5.73*	**84.7**	*24.6*	**26.9**	*3.54*
B	mg/kg	14	**42.0**	*3.55*	**33.2**	*2.31*	**23.2**	*2.80*
Zn	mg/kg	14	**37.0**	*1.45*	**21.5**	*1.90*	**19.0**	*1.23*
Mn	mg/kg	14	**49.8**	*4.72*	**279**	*25.0*	**39.8**	*3.25*
Fe	mg/kg	14	**87.8**	*7.54*	**156**	*24.1*	**65.9**	*6.45*
Cu	mg/kg	14	**10.7**	*0.805*	**4.86**	*0.636*	**8.05**	*0.480*
Mo	mg/kg	4	**0.440**	*0.130*	**0.380**	*0.130*	**1.00**	*0.120*

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