NAPT Program — North American Proficiency Testing

Soil Science Society of America

2020 North American Proficiency Testing Program
Quarter 3 Plant Report - Monday, October 12, 2020

Laboratory ID
General

Plant			Plant 2020-207			Plant 2020-208			Plant 2020-209		
Analysis	**Units**	***n***	**Median**	***MAD***	**Lab[1,2]**	**Median**	***MAD***	**Lab[1,2]**	**Median**	***MAD***	**Lab[1,2]**
Nutrient Ions											
Dry Matter (%)	%	27	**92.0**	*0.540*		**93.6**	*0.720*		**93.8**	*0.460*	
NO3 - N Cd Rd.	mg/kg	27	**71.0**	*11.3*		**367**	*35.0*		**207**	*15.4*	
NO3 - N ISE	mg/kg	3	**141**	*3.00*		**644**	*150*		**331**	*6.00*	
NO3 - N Other	mg/kg	6	**115**	*33.3*		**430**	*61.5*		**259**	*43.5*	
NH4-N	mg/kg	4	**180**	*73.0*		**102**	*45.7*		**41.2**	*10.8*	
PO4 - P	mg/kg	12	**959**	*52.5*		**1,280**	*38.8*		**1,020**	*38.0*	
SO4 - S	mg/kg	6	**323**	*219*		**1,410**	*43.3*		**1,270**	*123*	
Cl	%	24	**0.188**	*0.026*		**0.617**	*0.036*		**0.400**	*0.032*	
TKN	%	14	**3.02**	*0.090*		**3.00**	*0.100*		**1.58**	*0.090*	
N- Dry Comb.	%	63	**3.03**	*0.080*		**3.00**	*0.060*		**1.55**	*0.050*	
S- Dry Comb.	%	10	**0.220**	*0.012*		**0.274**	*0.024*		**0.231**	*0.011*	
Nitric / Perchloric											
P	%	29	**0.180**	*0.010*		**0.231**	*0.011*		**0.180**	*0.009*	
K	%	30	**1.64**	*0.085*		**2.31**	*0.075*		**1.93**	*0.070*	
Ca	%	29	**1.93**	*0.110*		**1.49**	*0.070*		**0.446**	*0.025*	
Mg	%	29	**0.590**	*0.024*		**0.347**	*0.013*		**0.230**	*0.010*	
S	%	27	**0.200**	*0.017*		**0.260**	*0.016*		**0.205**	*0.015*	
Na	%	24	**0.012**	*0.002*		**0.090**	*0.005*		**0.079**	*0.005*	
Al	mg/kg	19	**147**	*25.9*		**281**	*53.0*		**208**	*12.5*	
B	mg/kg	27	**110**	*6.91*		**39.4**	*2.37*		**8.01**	*0.690*	
Zn	mg/kg	29	**91.0**	*4.03*		**22.4**	*1.09*		**26.3**	*1.95*	
Mn	mg/kg	29	**160**	*7.29*		**42.4**	*1.40*		**72.2**	*3.32*	
Fe	mg/kg	29	**210**	*16.9*		**302**	*25.0*		**198**	*11.6*	
Cu	mg/kg	30	**351**	*25.4*		**12.8**	*1.19*		**7.88**	*0.420*	
Mo	mg/kg	10	**0.230**	*0.047*		**1.67**	*0.170*		**0.710**	*0.170*	
Nitric / Peroxide- MICROWAVE											
P	%	37	**0.190**	*0.010*		**0.240**	*0.010*		**0.190**	*0.010*	
K	%	37	**1.68**	*0.050*		**2.40**	*0.110*		**1.96**	*0.076*	
Ca	%	37	**1.93**	*0.070*		**1.50**	*0.060*		**0.434**	*0.024*	
Mg	%	37	**0.599**	*0.020*		**0.350**	*0.010*		**0.230**	*0.010*	
S	%	35	**0.210**	*0.010*		**0.270**	*0.010*		**0.210**	*0.010*	
Na	%	27	**0.010**	*0.002*		**0.090**	*0.002*		**0.080**	*0.004*	
Al	mg/kg	21	**163**	*10.9*		**355**	*038*		**240**	*27.1*	
B	mg/kg	36	**112**	*5.48*		**41.4**	*1.95*		**9.23**	*1.36*	
Zn	mg/kg	36	**93.3**	*3.80*		**22.9**	*1.28*		**27.5**	*1.74*	
Mn	mg/kg	36	**162**	*6.70*		**43.7**	*1.72*		**74.7**	*3.24*	
Fe	mg/kg	36	**228**	*20.3*		**355**	*48.9*		**218**	*16.9*	
Cu	mg/kg	36	**363**	*14.8*		**13.0**	*0.800*		**7.66**	*0.560*	
Mo	mg/kg	13	**0.220**	*0.038*		**1.83**	*0.155*		**0.750**	*0.031*	
Dry Ash											
P	%	11	**0.190**	*0.010*		**0.230**	*0.010*		**0.180**	*0.010*	

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.

K	%	11	**1.58**	*0.060*		**2.31**	*0.090*	**1.88**	*0.080*
Ca	%	11	**1.91**	*0.060*		**1.48**	*0.010*	**0.400**	*0.030*
Mg	%	11	**0.601**	*0.019*		**0.340**	*0.010*	**0.220**	*0.004*
Na	%	9	**0.017**	*0.003*		**0.094**	*0.006*	**0.081**	*0.009*
Al	mg/kg	2	**191**	*29.6*		**456**	*34.0*	**170**	*52.3*
B	mg/kg	11	**111**	*3.68*		**40.6**	*1.12*	**8.13**	*0.710*
Zn	mg/kg	11	**87.4**	*4.11*		**21.4**	*0.900*	**23.0**	*2.70*
Mn	mg/kg	11	**151**	*3.90*		**42.0**	*1.80*	**69.6**	*2.80*
Fe	mg/kg	11	**197**	*13.0*		**337**	*33.0*	**168**	*27.0*
Cu	mg/kg	11	**349**	*26.0*		**12.6**	*1.05*	**6.32**	*1.03*
Mo	mg/kg	2	**0.845**	*0.505*		**2.23**	*0.440*	**0.975**	*0.185*

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