NAPT Program — North American Proficiency Testing

Soil Science Society of America

2022 North American Proficiency Testing Program
Quarter 2 Plant Report - 7/21/2022

Laboratory ID
General

Plant			Plant 2022-204			Plant 2022-205			Plant 2022-206		
Analysis	**Units**	**n**	**Median**	**MAD**	**Lab Result**	**Median**	**MAD**	**Lab Result**	**Median**	**MAD**	**Lab Result**
Dry Matter & Non-Digest Nutrients											
Dry Matter (%)	%	20	**95.2**	0.38		**93.5**	0.19		**94.6**	0.36	
NO3 - N Cd Rd.	mg/kg	19	**28.0**	6.15		**26.2**	6.25		**344**	40.8	
NO3 - N ISE	mg/kg	3	**44.5**			**97.0**			**548**		
NO3 - N Other	mg/kg	2	**663**			**644**			**473**		
NH4 - N	mg/kg	3	**46.1**			**61.2**			**134**		
PO4 - P	mg/kg	10	**614**	57.0		**1690**	58.0		**755**	38.0	
SO4 - S	mg/kg	3	**799**			**132**			**661**		
Cl	%	15	**0.080**	0.030		**0.21**	0.036		**0.21**	0.045	
Total N Kjeldahl	%	10	**1.10**	0.050		**1.39**	0.020		**2.64**	0.12	
Total N-combustion	%	59	**1.07**	0.033		**1.38**	0.030		**2.75**	0.056	
Total S-combustion	%	9	**0.15**	0.010		**0.090**	0.020		**0.20**		
Total C-combustion	%	8	**50.6**	0.97		**45.3**	1.31		**43.0**	0.92	
Nitric / Perchloric Digest											
P	%	28	**0.12**	0.004		**0.30**	0.007		**0.15**	0.007	
K	%	27	**0.54**	0.022		**1.39**	0.039		**1.94**	0.060	
Ca	%	29	**0.88**	0.029		**2.81**	0.090		**3.34**	0.075	
Mg	%	29	**0.24**	0.007		**0.70**	0.028		**0.81**	0.036	
S	%	25	**0.15**	0.008		**0.081**	0.005		**0.20**	0.005	
Na	%	21	**0.010**	0.002		**0.037**	0.004		**0.047**	0.003	
B	mg/kg	21	**41.5**	0.86		**50.4**	1.89		**44.4**	1.38	
Cu	mg/kg	27	**5.69**	0.46		**5.52**	0.51		**8.00**	0.75	
Fe	mg/kg	29	**147**	14.0		**138**	8.50		**270**	14.0	
Mn	mg/kg	29	**567**	33.1		**27.4**	1.55		**111**	4.85	
Mo	mg/kg	6	**0.21**	0.030		**0.75**	0.080		**0.23**	0.11	
Zn	mg/kg	27	**21.0**	1.60		**15.0**	1.05		**79.6**	5.00	
Al	mg/kg	16	**106**	4.35		**90.0**	10.4		**186**	24.6	
Ba	mg/kg	2	**118**			**35.6**			**52.6**		
Cd	mg/kg	1									
Co	mg/kg	1									
Cr	mg/kg	3	**2.40**			**0.49**			**0.67**		
Ni	mg/kg	3	**1.70**			**1.20**			**5.20**		
Pb	mg/kg										
Se	mg/kg	1									
Sr	mg/kg	2	**10.2**			**87.2**			**195**		
V	mg/kg	1							**13.5**		
Nitric / Peroxide Digest											
P	%	31	**0.13**	0.007		**0.30**	0.010		**0.15**	0.010	
K	%	28	**0.53**	0.025		**1.38**	0.044		**1.91**	0.070	
Ca	%	29	**0.88**	0.033		**2.76**	0.071		**3.28**	0.080	
Mg	%	30	**0.24**	0.014		**0.69**	0.020		**0.81**	0.018	
S	%	26	**0.15**	0.006		**0.082**	0.004		**0.21**	0.009	
Na	%	21	**0.010**	0.004		**0.033**	0.003		**0.045**	0.005	
B	mg/kg	29	**41.6**	2.60		**49.7**	1.30		**44.3**	1.70	
Cu	mg/kg	29	**5.45**	0.40		**5.69**	0.56		**8.36**	0.45	
Fe	mg/kg	29	**147**	13.0		**142**	12.0		**284**	18.4	
Mn	mg/kg	30	**564**	33.4		**26.8**	1.55		**110**	2.25	
Mo	mg/kg	6	**0.30**	0.029		**0.80**	0.100		**0.24**		
Zn	mg/kg	30	**21.4**	1.73		**16.0**	1.40		**79.0**	4.80	
Al	mg/kg	19	**118**	7.63		**129**	28.0		**241**	43.1	
Ba	mg/kg										
Cd	mg/kg										
Co	mg/kg	1									
Cr	mg/kg	1									
Ni	mg/kg										
Pb	mg/kg										
Se	mg/kg										
Sr	mg/kg										
V	mg/kg										
Dry Ash											
P	%	7	**0.12**	0.000		**0.28**	0.009		**0.14**	0.000	
K	%	11	**0.48**	0.040		**1.33**	0.050		**1.82**	0.050	
Ca	%	12	**0.85**	0.025		**2.70**	0.090		**3.21**	0.030	
Mg	%	12	**0.23**	0.010		**0.67**	0.020		**0.78**	0.025	
Na	%	10	**0.014**	0.004		**0.040**	0.004		**0.050**	0.001	
B	mg/kg	11	**39.8**	0.95		**46.3**	0.53		**41.5**	0.81	
Cu	mg/kg	10	**4.68**	0.61		**6.00**	1.80		**7.70**	0.92	
Fe	mg/kg	11	**153**	14.0		**136**	4.79		**247**	30.5	
Mn	mg/kg	12	**508**	29.1		**25.3**	1.81		**101**	3.68	
Mo	mg/kg	2	**0.67**			**1.31**			**0.73**		
Zn	mg/kg	12	**20.3**	2.45		**14.8**	1.80		**75.0**	6.10	
Al	mg/kg	3	**96.8**			**150**			**278**		
Ba	mg/kg										
Cd	mg/kg										
Co	mg/kg										
Cr	mg/kg										
Ni	mg/kg										
Pb	mg/kg										
Se	mg/kg										
Sr	mg/kg										
V	mg/kg										