NAPT Program
North American Proficiency Testing

Soil Science Society of America

2022 North American Proficiency Testing Program
Quarter 3 Plant Report - 10/28/2022

Laboratory ID
General

Plant			Plant 2022-207			Plant 2022-208			Plant 2022-209		
Analysis	**Units**	**n**	**Median**	**MAD**	**Lab Result**	**Median**	**MAD**	**Lab Result**	**Median**	**MAD**	**Lab Result**
Dry Matter & Non-Digest Nutrients											
Dry Matter	%	18	**95.2**	1.90		**94.2**	1.88		**93.3**	1.87	
NO3 - N Cd Rd.	mg/kg	21	**26.6**	11.4		**189.0**	10.1		**24.6**	9.52	
NO3 - N ISE	mg/kg	3	**51.0**	N/A		**322.0**	N/A		**113.0**	N/A	
NO3 - N Other	mg/kg	5	**69.0**	N/A		**257.0**	123.0		**380.0**	N/A	
NH4 - N	mg/kg	3	**27.0**	N/A		**102.0**	N/A		**58.1**	N/A	
PO4 - P	mg/kg	9	**1210.0**	57.0		**732.0**	68.0		**1690.0**	50.0	
SO4 - S	mg/kg	5	**453.0**	N/A		**1310.0**	N/A		**328.0**	N/A	
Cl	%	20	**0.080**	0.031		**0.20**	0.020		**0.21**	0.029	
Total Nâ€“Kjeldahl	%	8	**1.72**	0.034		**3.25**	0.17		**1.44**	0.055	
Total N-combustion	%	55	**1.70**	0.034		**3.33**	0.070		**1.36**	0.030	
Total S-combustion	%	8	**0.16**	0.020		**0.25**	0.020		**0.094**	0.020	
Total C-combustion	%	12	**48.2**	0.96		**43.0**	0.86		**43.4**	0.87	
Nitric / Perchloric Digest											
P	%	23	**0.20**	0.020		**0.18**	0.020		**0.30**	0.020	
K	%	26	**0.94**	0.027		**1.78**	0.072		**1.37**	0.030	
Ca	%	27	**1.55**	0.063		**2.38**	0.11		**2.80**	0.12	
Mg	%	26	**0.26**	0.020		**0.43**	0.020		**0.70**	0.037	
S	%	24	**0.15**	0.020		**0.24**	0.020		**0.080**	0.020	
Na	%	25	**0.014**	0.020		**0.094**	0.020		**0.035**	0.020	
B	mg/kg	22	**29.0**	1.38		**47.0**	2.47		**49.2**	1.98	
Cu	mg/kg	26	**65.1**	3.33		**8.32**	0.61		**5.60**	0.44	
Fe	mg/kg	25	**131.0**	8.90		**93.6**	5.09		**135.0**	11.0	
Mn	mg/kg	27	**42.0**	2.00		**71.0**	3.28		**26.0**	1.00	
Mo	mg/kg	5	**0.18**	N/A		**1.54**	0.14		**0.66**	0.087	
Zn	mg/kg	23	**48.8**	2.44		**17.1**	1.09		**16.0**	1.67	
Al	mg/kg	16	**57.0**	11.2		**24.7**	7.52		**91.0**	8.42	
Ba	mg/kg	3	**48.0**	N/A		**10.0**	N/A		**37.0**	N/A	
Cd	mg/kg										
Co	mg/kg	2	**1.19**	N/A		**0.10**	N/A		**0.075**	N/A	
Cr	mg/kg	2	**0.36**	N/A		**0.80**	N/A		**0.36**	N/A	
Ni	mg/kg	3	**4.20**	N/A		**0.29**	N/A		**1.03**	N/A	
Pb	mg/kg										
Se	mg/kg	1	**2.00**	N/A		**2.00**	N/A		**2.00**	N/A	
Sr	mg/kg	2	**79.6**	N/A		**29.4**	N/A		**88.5**	N/A	
V	mg/kg	1	**8.40**	N/A		**14.0**	N/A		**23.0**	N/A	
Nitric / Peroxide- MICROWAVE											
P	%	31	**0.20**	0.020		**0.19**	0.020		**0.31**	0.020	
K	%	32	**0.94**	0.049		**1.79**	0.060		**1.38**	0.049	
Ca	%	31	**1.55**	0.050		**2.42**	0.10		**2.82**	0.095	
Mg	%	33	**0.25**	0.020		**0.43**	0.020		**0.70**	0.020	
S	%	29	**0.16**	0.020		**0.25**	0.020		**0.083**	0.020	
Na	%	20	**0.011**	0.020		**0.099**	0.020		**0.037**	0.020	
B	mg/kg	30	**30.2**	1.09		**47.8**	2.25		**49.6**	1.78	
Cu	mg/kg	31	**65.6**	2.76		**8.48**	0.50		**5.60**	0.50	
Fe	mg/kg	30	**138.0**	6.89		**95.4**	9.43		**148.0**	8.50	
Mn	mg/kg	32	**41.2**	2.19		**70.5**	3.42		**26.5**	1.50	
Mo	mg/kg	5	**0.13**	N/A		**1.76**	0.14		**0.79**	0.053	
Zn	mg/kg	32	**48.6**	2.70		**18.4**	1.10		**15.5**	1.06	
Al	mg/kg	18	**91.4**	15.3		**40.7**	6.60		**131.0**	14.5	
Ba	mg/kg										
Cd	mg/kg										
Co	mg/kg										
Cr	mg/kg	1	**0.37**	N/A		**0.87**	N/A		**0.55**	N/A	
Ni	mg/kg										
Pb	mg/kg										
Se	mg/kg										
Sr	mg/kg										
V	mg/kg										
Dry Ash											
P	%	14	**0.19**	0.020		**0.18**	0.020		**0.29**	0.020	
K	%	14	**0.89**	0.051		**1.74**	0.080		**1.37**	0.027	
Ca	%	13	**1.46**	0.060		**2.28**	0.084		**2.70**	0.054	
Mg	%	14	**0.25**	0.020		**0.42**	0.020		**0.68**	0.030	
Na	%	10	**0.020**	0.020		**0.096**	0.020		**0.040**	0.020	
B	mg/kg	11	**28.9**	0.74		**45.4**	1.76		**47.4**	0.95	
Cu	mg/kg	14	**61.6**	4.00		**8.46**	0.94		**5.63**	0.47	
Fe	mg/kg	13	**135.0**	7.96		**89.4**	11.8		**136.0**	6.71	
Mn	mg/kg	13	**39.1**	1.63		**65.7**	3.05		**24.5**	1.60	
Mo	mg/kg	3	**0.13**	N/A		**1.17**	N/A		**0.65**	N/A	
Zn	mg/kg	13	**48.2**	1.82		**18.3**	1.09		**15.9**	1.88	
Al	mg/kg	4	**103.0**	N/A		**47.1**	N/A		**149.0**	N/A	
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										