

Big River Chestnuts- NOFA MA Soil Health Assessment Testing Data

Parameters	Sept 2018	Oct 2019	June 2020	June 2020	Oct 2020	Oct 2020	June 2021	June 2021	Oct 2021	Oct 2021	June 2022	June 2022
	S	S	N	S	N	S	N	S	N	S		
Soil Hardness (Depth (inch) where reading greater than 300 psi)	0	0	9	24	24	24	10	12	none	none	12 (300)	none
	---	---	18	---	---	---	---	---	---	---	---	---
Topsoil Depth and Root Behavior: topsoil depth	NA	NA	12	12	12	12	12	12	12	12	12	12
Topsoil Depth and Root Behavior: majority root termination (inch)	5	NA	4	6	4	6	3	6	6	5	6	6
Bulk Density (0-4 inches)	1.49	1.06	0.87	0.93	0.93	1.04	1.38	1.17	0.99	1.22	1.25	1.07
Bulk Density (4-8 inches)	1.40	1.23	1.16	1.16	1.2	1.38	1.13	1.14	1.23	1.47	1.53	1.27
Bulk Density (6-9 inches)	1.44	1.22	1.12	1.28	1.29	1.22	1.47	1.54	1.80	1.77	1.45	1.43
Water Infiltration (sec)	540	77	60	99	44.25	45	219	241	166	518	71	79
Aggregate Stability: Slake Test (% of clod remained)	58	82	85	90	90	90	95	95	95	95	95	95
Aggregate Stability: Slake Test (Secchi tube turbidity test, cm)	NA	NA	51	36	60	54	90	90	90	90	90	90
Earthworm Count	3	2	4	4	16	20	0	1	8	33	0	0
Biopore Count	NA	NA	9	7	2	7	0	NA	5	2	0	0
Active Carbon	poor	excellent	poor	poor	poor	poor	poor	poor	excellent	excellent	excellent	excellent

Key:
Physical
Biological
Chemical