

Table 7. Soil chemical characteristics for the R4D permanent vegetation plots

			CATIONS						ANIONS
			Ca ⁺⁺		Mg ⁺⁺		K ⁺		NO ₃
Plot No.	Horizon	pH	meq/100g	µg/g	meq/100g	µg/g	meq/100g	µg/g	µg/g
SW01	Oe	4.8	29.14	5828	10.18	1238	1.76	690	33.29
SW01	BA	3.9	3.08	616	1.31	159	0.13	49	
SW02	IOe	5.6	15.98	3196	5.18	630	0.52	204	21.44
SW02	IA	4.0	4.54	908	1.42	173	0.10	41	6.12
SW02	IIOeb	4.1	6.69	1338	1.68	205	0.16	63	6.69
SW02	IIBA	4.3	1.70	341	0.48	58	0.06	24	3.14
SW03	Oi	4.5	31.28	6256	9.85	1198	2.89	1131	
SW03	Oe	4.2	14.14	2828	2.97	362	0.32	124	14.26
SW03	BA	3.9	2.16	432	0.41	50	0.14	55	
SW04A	Oe	4.7	23.23	4645	4.51	548	1.64	642	
SW04A	Bw1	4.6	2.50	499	0.54	65	0.09	34	
SW04A	BW2	4.1	1.29	259	0.24	29	0.13	51	3.49
SW05	Oi	5.4	32.49	6498	8.55	1040	1.93	754	
SW05	Bw	4.5	0.96	192	0.24	29	0.05	2	2.48
SW06	Oe	4.7	20.05	4010	4.40	534	1.15	450	
SW06	A	4.2	5.59	1119	1.26	154	0.21	81	
SW06	Bw1	4.5	1.24	247	0.28	34	0.09	34	
SW06	Bw2	4.5	0.97	194	0.25	30	0.07	28	
SW07	Oi	3.9	7.52	1503	2.02	246	0.37	147	
SW07	Oe	6.0	22.14	4428	6.07	738	1.93	754	25.82
SW07	Bw	4.3	1.29	258	0.31	38	0.06	24	
SW08	Oe	4.6	27.45	5490	6.29	765	2.15	839	
SW08	BA	4.5	1.84	368	0.50	61	0.11	42	

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SW09	Oi	3.5	5.70	1140	2.78	339	2.32	906	
SW09	A	3.6	1.03	208	0.50	61	0.38	148	4.36
SW09	Bw1	3.9	0.20	41	0.13	15	0.09	37	
SW09	Bw2	4.3							
SW10	Oi	5.0	24.69	4938	10.44	1269	3.32	1297	
SW10	Oe	4.8	14.70	2941	5.84	711	1.74	682	11.65
SW10	Oa	3.9	4.39	878	1.70	207	0.39	15	
SW10	BA	4.2	0.99	198	0.30	36	0.06	25	
SW11	Oi	5.7	7.44	1489	3.68	448	1.36	533	
SW11	Oa	4.5	3.56	711	1.28	155	0.40	156	
SW11	BA	4.3	0.76	151	0.23	27	0.09	34	
SW12	Oi	3.9	15.26	3052	4.14	504	2.41	943	
SW12	Oa	4.5	7.68	1535	1.71	208	0.51	200	56.60
SW12	BA	4.4	1.39	278	0.27	33	0.06	25	11.09
SW13	Oi	3.9	15.83	3167	5.30	644	1.81	707	
SW13	Oa	4.0	12.91	2582	3.42	416	0.61	239	6.35
SW13	BA	4.2	2.04	408	0.48	59	0.06	23	
SW14	Oe	4.6	18.26	3652	5.30	644	1.02	398	17.07
SW14	Oa	4.7	4.76	950	1.16	141	0.36	141	5.99
SW15	Oi	4.0	25.11	5022	10.28	1250	2.02	790	
SW15	Oe	4.0	3.86	773	1.29	157	0.15	60	
SW16	Oi1	4.7	6.30	1260	1.61	196	0.55	216	19.20
SW16	Oi2	4.2	4.33	866	0.90	110	0.09	33	3.53

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Plot No.	Horizon	pH	meq/100g	µg/g	meq/100g	µg/g	meq/100g	µg/g	µg/g
SW16	Oi3	4.1	4.91	483	0.91	111	0.07	26	3.24
SW17	Oi1	3.7	13.11	2622	8.15	991	2.42	947	
SW17	Oi2	3.7	12.25	2450	5.64	685	0.90	352	10.60
SW17	Oe	3.8	3.64	728	1.31	159	0.40	156	
SW18	Oi1	4.5	14.53	2907	4.22	513	1.30	507	
SW18	Oi2	4.9	10.77	2154	3.25	396	0.97	379	35.00
SW18	Oe	4.0	8.32	1664	1.87	228	0.26	101	
SW18	Oa	3.6	3.92	784	1.22	148	0.13	49	5.03
SW18	A	4.1	2.13	425	0.62	75	0.04	15	
SW19	Oi	4.1	8.76	1752	3.93	478	2.46	961	5.86
SW19	Oe	4.5	10.06	2012	3.05	371	0.81	316	3.18
SW19	Oa	4.3	5.43	1087	1.27	154	0.34	134	19.32
SW19	A	3.9	1.26	252	0.33	41	0.04	14	2.56
SW20	Oi	3.7	12.48	2495	4.03	490	1.61	628	7.40
SW20	Oe	3.8	7.19	1438	1.81	220	0.31	122	8.03
SW20	Oa	4.0	3.60	720	0.69	84	0.12	48	9.68
SW20	A	4.1	0.95	190	0.34	42	0.04	15	2.23
SW21A	Oi	4.1	5.38	1077	2.71	330	0.92	361	8.21
SW21A	Oe	4.4	4.20	840	0.95	115	0.18	70	
SW21A	Oa1	3.8	3.51	701	0.71	86	0.03	13	
SW21A	Oa2	4.2	4.18	835	0.68	82	0.04	17	
SW22A	Oi1	4.5	9.78	1955	3.88	471	1.15	449	17.70
SW22A	Oi2	3.9	6.00	1200	2.47	300	0.45	176	12.25
SW22A	Oe1	3.9	5.01	983	1.80	219	0.17	67	6.05
SW22A	Oe2	4.3	3.88	777	0.74	90	0.08	31	9.40

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Plot No.	Horizon	pH	meq/100g	µg/g	meq/100g	µg/g	meq/100g	µg/g	µg/g
SW29A	Oi	3.7	9.02	1804	3.19	388	1.24	486	8.77
SW29A	A	4.0	2.84	568	1.12	136	0.55	216	7.47
SW29A	Bw	4.0	2.27	454	0.49	59	0.08	32	4.85
SW29B	Bw	4.6	1.73	346	0.28	34	0.05	19	2.21
SW30A	A	4.2	4.75	950	1.68	204	0.74	290	
SW30A	Bw1	4.2	0.90	180	0.30	36	0.08	33	4.27
SW30A	Bw2	5.0	9.40	1879	2.01	244	0.23	90	
SW30B	Bw1	4.5	2.05	409	0.60	73	0.11	42	4.31
SW30B	Bw2	5.2	8.69	6000	2.10	887	0.29	398	
SW31	Oe	4.9	38.73	7746	8.73	1061	1.18	462	
SW31	Oa	4.6	30.10	6020	5.48	666	0.40	156	13.83
SW31	A	4.4	8.82	1764	1.89	230	0.11	43	
SW31	BA	4.8	13.62	2723	2.58	316	0.15	60	
SW32A	A	4.0	3.32	664	1.41	171	0.54	210	4.44
SW32A	Bw1	4.8	2.95	590	0.84	103	0.11	42	1.93
SW32A	Bw2	5.1	6.72	1343	1.59	193	0.17	65	1.55
SW32B	Bw1	4.6	2.57	514	0.98	119	0.12	48	1.74
SW32B	Bw2	4.6	1.51	302	0.44	53	0.15	59	2.51
SW33	A	4.3	4.63	925	1.87	227	0.32	126	21.75
SW33	BA	4.3	1.61	322	0.65	79	0.13	52	2.90
SW33	Bw	4.3	1.42	284	0.55	67	0.10	39	2.54
SW34	Oe	6.6	12.54	2507	5.29	644	1.77	693	
SW34	Oa	3.8	7.46	1493	2.77	336	0.16	62	20.04

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Plot No.	Horizon	pH	meq/100g	µg/g	meq/100g	µg/g	meq/100g	µg/g	µg/g
SW34	BA	4.4	1.61	323	0.61	74	0.04	17	
SW35A	Oi	5.1	20.50	4099	6.53	794	2.21	865	
SW35A	Oa	4.2	7.37	1474	2.42	294	0.33	130	56.00
SW35A	BA	4.1	1.27	254	0.47	57	0.06	24	
SW36A	Oe	5.3	36.33	7865	9.40	1144	1.62	632	
SW36A	Oa	4.3	10.96	2192	1.85	224	0.32	126	16.59
SW36A	Bw	4.2	2.17	435	0.42	50	0.05	19	
SW37	Oi1	4.1	4.96	991	0.98	119	0.16	64	
SW37	Oi2	4.4	3.40		0.67		0.12		3.86
SW37	Bw	4.1	1.20		0.32		0.03		
SW38	A	3.5	2.30		0.95		0.46		
SW38	Bw	4.0	0.17	34	0.07	9	0.10	39	2.05
SW39	A	3.8	3.02		1.63		0.85		
SW39	Bw1	3.5	0.56	112	0.26	32	0.10	40	3.94
SW39	Bw2	4.2	0.57		0.13		0.05		
SW40	A	3.8	2.58	515	0.95	115	0.38	148	4.33
SW40	Bw	3.7	0.16		0.05		0.03		
SW41	A	4.2	10.21	2041	2.62	319	0.35	138	90.10
SW41	Bw	4.5	1.00		0.28		0.05		
SW42	A	5.1	19.52	3904	5.92	722	0.89	350	11.22
SW42	Bw	4.8	1.95	39	0.88	11	0.11	4	2.95
SW43	A	3.4	1.45	29	1.67	203	0.40	155	4.82

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SW43	Bw1	3.8	0.15	30	0.17	21	0.08	31	
SW43	Bw2	3.9	0.29	58	0.19	23	0.09	34	
SW44A	Oa	4.2	11.72	2344	4.04	492	1.02	397	4.42
SW44A	A	4.3	6.14	1228	1.80	220	0.17	66	
SW44A	Bw	4.9	3.24	649	0.91	110	0.12	48	
SW45	Oe	4.4	8.14	1628	2.32	284	0.82	322	
SW45	Oa	4.0	4.11	822	1.13	138	0.29	114	8.02
SW45	BA	4.3	1.62	325	0.50	61	0.12	48	
SW46	Oi								
SW46	Oe	5.2	15.50	3099	2.77	338	0.45	176	17.28
SW46	Oa	3.4	2.00	400	0.98	120	0.42	165	
SW47	Oe	6.3	34.14	6827	6.77	826	0.80	314	10.16
SW47	A/B	4.2	5.37	1073	1.83	224	1.02	61	
SW48	Oe								
SW48	Oa	4.1	12.20	2441	4.62	563	1.26	92	4.72
SW49	Oe		12.04	2407	4.64	566	1.95	762	
SW49	Oa1	3.4	3.16	632	1.00	241	0.21	81	1.22
SW49	Oa2	3.7	3.80	759	0.76	93	0.24	93	
SW50	Oe	4.7	34.89	6979	8.95	1093	1.54	600	11.59
SW50	BA	4.3	5.93	1186	1.96	239	0.11	42	
SW51	Oa	4.0	8.66	1732	4.27	521	0.48	187	5.52
SW51	A	4.2	9.11	1823	3.98	403	0.14	54	
SW51	Bw1	4.4	3.56	713	1.45	177	0.08	31	

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Plot No.	Horizon	pH	meq/100g	µg/g	meq/100g	µg/g	meq/100g	µg/g	µg/g
SW51	Bw2	4.5	3.12	623	1.29	157	0.08	31	
SW52	Oa	4.4	12.42	2484	4.41	539	1.06	416	10.98
SW52	A	4.2	1.93	385	1.07	130	0.02	52	
SW52	Bw	5.0	5.21	1042	1.62	197	0.14	55	
SW53	A	5.5	6.24	1248	3.57	436	0.31	119	7.57
SW53	Bw	5.1	4.39	878	2.28	278	0.11	44	
SW54	A	5.3	5.85	1169	2.87	350	0.31	120	3.91
SW54	Bw	5.0	3.71	742	1.78	218	0.15	58	
SW55	A	4.2	4.05	811	1.88	229	0.17	67	3.76
SW56	Oe								
SW56	Oa	4.2	11.69	2339	3.76	459	0.34	133	3.13
SW56	Bw	6.1	11.03	2206	1.95	238	0.16	64	
SW57	IA	4.3	5.95	1190	2.15	262	0.16	80	3.24
SW57	IBw	4.7	7.18	1436	1.72	219	0.13	51	
SW57	IIBw	6.0	9.00	1799	2.21	269	0.16	64	
SW58A	A	5.4	22.01	4401	7.34	896	0.60	235	4.37
SW58B	Bw	6.0	4.90	980	2.91	355	0.20	76	3.89
SW59	Oa	5.8	86.27	17255	4.57	558	0.28	110	5.12
SW59	A	5.8	17.94	3589	1.12	126	0.13	51	
SW59	Bw	5.8	12.05	2410	0.80	97	0.12	46	
SW60	A1	4.5	11.54	2308	5.51	672	0.50	196	1.94

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SW60	A2	4.3	5.84	1167	3.11	380	0.17	67	
SW60	Bw	5.6	9.02	1804	3.51	428	0.18	72	
SW61	Oi								
SW61	Oe	4.9	38.72	7745	7.94	969	0.66	260	5.43
SW61	BA	4.4	5.50	1100	2.13	260	0.13	53	
SW62	Oi								
SW62	Oe	4.6	13.61	2723	2.69	328	0.52	205	4.12
SW62	Bw	4.4	2.25	449	0.84	102	0.11	45	
SW65	Oi	5.4	10.97	2195	10.85	1323	0.19	74	8.39
SW67	Oa	3.7	10.55	2111	1.29	157	0.50	195	
SW72	A	5.3	9.58	1915	1.90	232	0.26	102	
SW73	A	5.1	7.41	1481	1.52	186	0.16	64	