Table 6. Soil physical characteristics for the R4D permanent vegetation plots

					Particle Size (%, USDA size classes)*							
Plot No.	Horizon	Depth (cm)	Wet Color	% Org. Matter	Coarse Gravel	Fine Gravel	Sand	Silt	Clay	Texture	Hygro. Moist. (%)	Bulk Density (g/cm3)
SW01	Oe	05-17	7.5YR2/2	83.20	0	0	1.4	25.8	72.8	c	11.5	0.24
SW01	BA	17-20+	7.5YR4/3	18.65							2.8	
SW02	IOe	00-10	2.5Y2/1.5	25.89	0	0	5.3	53.2	41.5	sic	4.2	
SW02	IA	10-19	2.5Y4/1	14.82	0	0	28.9	45.0	26.1	l	1.6	0.51
SW02	IIOeb	19-32	10YR2/2	51.89	0	0	6.3	45.3	48.5	sic	9.3	
SW02	IIBA	32-46	2.5Y4/1	7.55	35.5	5.3	30.0	41.2	28.8	cl	1.9	
SW03	Oi	00-06	5YR3/2	85.49							10.7	
SW03	Oe	06-24	5YR2/1	46.82	0	7.5	1.8	27.4	70.8	c	6.2	0.25
SW03	BA	24-32	7.5YR4/2	11.20							3.7	
SW04A	Oe	00-06	7.5YR2/1	48.63							5.8	
SW04A	Bwl**	06-08	10YR3.5/4	4.01							1.1	
SW04A	BW2	08-53	10YR3/3	3.94	5.0	12.0	38.8	32.5	28.8	cl	1.1	0.20
SW05	Oi	00-10	7.5YR2/1.5	63.66							8.2	0.18
SW05	Bw	10-40	10YR5/1	2.54	6.6	19.9	47.5	35.3	17.2	l	0.7	1.46
SW06	Oe	08-13	7.5YR1.7/1	83.17	0	0	8.8	32.1	59.1	c	5.5	
SW06	A	13-15	7.5YR4/3	34.10	20.0	16.7	19.5	10.3	33.5	scl	2.2	
SW06	Bw1	15-17	7.5YR5/6	3.34	0.2	4.9	36.6	27.4	30.9	cl	0.9	
SW06	Bw2	17-30	10YR4/2	2.60	1.8	7.5	31.5	27.0	32.0	cl	0.7	1.74
SW07	Oi	00-06	7.5YR2/3	34.87							4.6	
SW07	Oe	06-12	7.5YR4/2.5	54.12	0	0	8.3	50.3	41.4	sic	9.3	
SW07	Bw	12-40	7.5YR4/3	4.86							1.4	1.27
SW08	Oe	00-09	5YR1.7/1	79.70	0	0	19.1	36.4	44.6	c	3.6	

Table 6. Soil physical characteristics for the R4D permanent vegetation plots

					Particle Size (%, USDA size classes)*							
Plot No.	Horizon	Depth (cm)	Wet Color	% Org. Matter	Coarse Gravel	Fine Gravel	Sand	Silt	Clay	Texture	Hygro. Moist. (%)	Bulk Density (g/cm3)
SW08	BA	09-40	7.5YR4.5/4	4.96	11.3	6.9	31.3	19.2	31.3	scl	1.1	0.88
SW09	Oi	00-03	5YR2/1	77.17							8.6	
SW09	A	03-09	7.5YR4/4	25.02	0	40.5	32.9	44.1	23.0	l	3.4	1.27
SW09	Bw1	09-19	7.5YR4/5									
SW09	Bw2	19-65	5YR4/4									
SW10	Oi	00-05	5YR2/3	69.49							11.2	
SW10	Oe	05-10	5YR2/2	66.39	0	19.5	4.6	51.8	43.7	sic	7.8	0.25
SW10	Oa	10-15	7.5YR3/3	41.02							5.9	
SW10	BA	15-22	7.5YR5/2	4.53							1.4	
SW11	Oi	00-05	5YR2/2.5	54.25	0	0	3.7	38.5	57.9	sic	3.6	
SW11	Oa	05-10	7.5YR2/3	53.36	0	0	2.3	28.3	69.4	sic	5.5	0.23
SW11	BA	10-50	10YR4/3	9.10	0	0.3	20.6	34.5	44.6	c	1.3	
SW12	Oi	00-08	5YR2/3.5	82.24							9.3	
SW12	Oa	08-12	7.5Y3/3	37.21	0	44.3	1.9	96.1	2.0	s	5.9	
SW12	B/A	12-47	10YR4.5/3	4.80	13.5	11.3	40.8	33.6	25.6	l	1.3	1.68
SW13	Oi	00-16	5YR2/3	91.52							7.5	
SW13	Oa	16-23	7.5YR2.5/3	50.45	0	0	5.2	50.6	44.2	sic	6.7	0.34
SW13	BA	23-36	7.5YR3/4	11.44							1.6	
SW14	Oe	10-24	5YR2/3	77.40	0	0	2.9	47.9	49.2	sic	12.0	0.14
SW14	Oa	24-40+	5YR2/2	71.98							12.2	
SW15	Oi	00-10	7.5YR5/7	86.56							8.9	
SW15	Oe	10-35	7.5YR2.5/3	54.64	0	0	4.6	52.6	42.9	sic	6.1	0.28
SW16	Oi1	00-10	5YR2/4	28.69	0	0	74.9	14.9	10.2	sl	3.4	
SW16	Oi2	10-20	7.5YR2/3	24.44	0	0	73.1	14.2	12.7	sl	1.8	0.23

Table 6. Soil physical characteristics for the R4D permanent vegetation plots

					Particle Size (%, USDA size classes)*							
Plot No.	Horizon	Depth (cm)	Wet Color	% Org. Matter	Coarse Gravel	Fine Gravel	Sand	Silt	Clay	Texture	Hygro. Moist. (%)	Bulk Density (g/cm3)
SW16	Oi3	20-40+	10YR2/3	24.69	0	0	69.5	17.1	13.4	sl	2.6	
SW17	Oi1	00-08	7.5YR4.5/6	89.37							10.0	
SW17	Oi2	08-29	2.5Y2/2	82.75	0	0	2.8	37.5	59.7	c	9.1	0.30
SW17	Oe	29-31	5YR3/2	62.53							7.7	
SW18	Oi1	00-05	5YR2/2	63.83							8.8	
SW18	Oi2	05-16	5YR2/2	60.22	0	0	1.7	70.9	27.4	sicl	6.9	0.14
SW18	Oe	16-36	5YR3/2	75.73							7.7	
SW18	Oa	36-46	7.5YR2/2	70.76	0	0	5.0	51.6	43.4	sic	5.2	
SW18	A	46-52	7.5YR3/3.5	35.38							4.0	
SW19	Oi	00-04	5YR2/4	80.15							11.1	
SW19	Oe	04-20	5YR2/2	83.01	0	0	3.3	35.8	60.9	c	11.9	0.17
SW19	Oa	20-25	7.5YR3/2	76.68							14.0	
SW19	A	25-28	10YR4/4	14.04							1.5	
SW20	Oi	00-07	5YR2/2.5	81.64							10.8	
SW20	Oe	07-16	7.5YR3/3	79.38	0	0	1.6	41.7	56.7	sic	6.8	0.19
SW20	Oa	16-25	7.5YR3/2	71.89							24.0	
SW20	A	25-30	10YR4/3.5	11.95							1.6	
SW21A	Oi	00-06	5YR2/2.5	62.84							8.1	
SW21A	Oe	06-31	7.5YR3/3	87.76	0	0	1.8	45.8	52.4	sic	8.2	0.13
SW21A	Oa1	31-34	5YR2/3	43.27							3.7	
SW21A	Oa2	34-46	5YR2/2	45.17							33.7	
SW22A	Oi1	00-03	5YR2/2	60.44	0	0	4.7	32.2	63.1	c	14.4	
SW22A	Oi2	03-18	7.5YR3/3	71.04	0	0	6.4	59.4	34.2	sicl	5.1	0.14
SW22A	Oe1	18-33	7.5YR2.5/3	82.43	0	0	4.5	55.5	40.0	sic	9.0	
SW22A	Oe2	33-37	7.5YR2/3	87.42	0	0	2.2	59.8	38.0	sicl	57.4	
SW22A	Oa	37-48	7.5YR2/3	55.81	0	0	32.2	44.3	23.7	l	6.9	

Table 6. Soil physical characteristics for the R4D permanent vegetation plots

					Particle Size (%, USDA size classes)*							
Plot No.	Horizon	Depth (cm)	Wet Color	% Org. Matter	Coarse Gravel	Fine Gravel	Sand	Silt	Clay	Texture	Hygro. Moist. (%)	Bulk Density (g/cm3)
SW23	Oi1	00-08	5YR2/2	69.26							9.4	
SW23	Oi2	08-28	7.5YR2.5/3	56.88	0	0	3.3	63.3	33.4	sicl	6.8	0.16
SW23	Oe1	28-36	7.5YR2.5/3	55.24	0	0	7.5	67.6	24.9	sil	12.2	
SW23	Oe2	36-44	10YR2.5/3	58.84							3.9	
SW23	Oa	44-46	7.5YR2/3	68.24							8.9	
SW24	Oi	00-15	5YR5/8	89.96							10.0	0.34
SW24	Oe	15-32	5YR2/2	76.03	0	0	2.6	62.6	34.7	sicl	6.7	
SW24	Oa1	32-38	7.5YR2/3	57.66	0	0	30.5	49.7	19.8	l	3.0	
SW24	Oa2	38-39	5YR2.5/3	63.25	0	0	26.9	50.4	22.6	sil	5.6	
SW25A	Oi	00-10	7.5YR6/8	88.36							10.8	
SW25A	Oe1	10-35	7.5YR2/3	81.32	0	0	0.8	63.0	36.2	sicl	10.5	0.14
SW25A	Oe2	35-41	7.5YR2/2	79.79							16.3	
SW25A	Oa	41-54	5YR2.5/2	47.74							39.1	
SW26	A	02-07	5YR2/2	47.19	0	0	32.5	45.4	22.1	l	4.8	0.25
SW26	Bw1	07-44	7.5YR4/3	0.84							1.1	
SW26	Bw2	44-63	10YR4/4	1.04							1.2	
SW27	Oe	02-12	5YR2/1	79.02	0	0	4.1	47.0	48.9	sic	9.8	0.29
SW27	Oa	12-22	5YR2/2	51.60							8.7	
SW27	A	22-32	7.5YR4/3	31.68							5.0	
SW27	Bw	32-64	10YR4/4	1.93							0.9	
SW28	A	00-04	7.5YR2/2	24.88							2.9	
SW28	Bw1	04-16	7.5YR5/6	3.23	7.6	26.3	55.1	34.8	10.1	sl	0.9	1.32
SW28	Bw2	16-68	10YR4/5	2.58							0.7	
SW29A	Oi	00-06	7.5YR2/3	63.47							8.1	
SW29A	A	06-12	5YR2/4	37.20							4.6	

Table 6. Soil physical characteristics for the R4D permanent vegetation plots

					Particle Size (%, USDA size classes)*							
Plot No.	Horizon	Depth (cm)	Wet Color	% Org. Matter	Coarse Gravel	Fine Gravel	Sand	Silt	Clay	Texture	Hygro. Moist. (%)	Bulk Density (g/cm3)
SW29A	Bw	12-25+	7.5YR5/5	5.49	23.6	28.4	42.2	33.9	23.9	cl	1.6	1.32
SW29B	Bw	00-25	10YR5/5	1.58	4.7	19.1	42.7	42.6	14.8	l	0.8	1.63
SW30A	A	00-03	5YR2/2	45.30							5.4	
SW30A	Bw1	03-20	10YR3.5/4	23.60	1.5	18.7	46.9	38.5	14.7	l	1.1	1.43
SW30A	Bw2	20-50+	10YR4/2.5	1.38	7.7	18.7	33.9	33.6	32.5	cl	1.6	
SW30B	Bw1	10-35	10YR4/4	1.96	0.8	11.3	32.8	45.0	22.2	l	1.0	1.47
SW30B	Bw2	35-50	10YR4/3.5	11.80							17.0	
SW31	Oe	03-08	5YR2/2	81.43							11.3	
SW31	Oa	08-16	5YR2/1.5	68.19	0	0	6.6	3.4	63.0	c	6.7	0.19
SW31	A	16-30	7.5YR4/3	13.62							2.7	
SW31	BA	30-52	10YR3.5/1	18.83							5.2	
SW32A	A	02-06	7.5YR3/3	29.27	0	6.9	30.7	33.4	35.9	cl	4.5	
SW32A	Bw1	06-27	10YR4/4	1.35	8.1	18.1	38.4	38.9	22.7	l	1.0	1.63
SW32A	Bw2	27-50	10YR4/3	1.13	50.5	8.0	35.1	33.0	31.9	cl	1.2	
SW32B	Bw1	00-05	10YR4/5		2.6	16.9	34.5	41.2	24.2	l		
SW32B	Bw2	05-50	10YR4/3	2.47	14.5	19.0	31.2	40.2	28.6	cl	1.2	1.70
SW33	A	00-03	10YR2/3	14.67	2.4	19.4	44.7	34.6	20.6	l	2.7	
SW33	BA	03-15	10YR4/4	6.03	8.5	12.1	34.4	43.8	21.8	l	1.9	0.90
SW33	Bw	15-35	10YR4/5	4.02	68.1	8.0	45.2	38.6	16.3	l	1.9	
SW34	Oe	00-05	2.5YR2/2	45.15							9.4	
SW34	Oa	05-21	7.5YR2/2	33.59	0	0	4.7	28.7	66.6	c	4.5	0.16
SW34	BA	21-42	10YR4/4	4.73							8.1	
SW35A	Oi	00-15	7.5YR3/4	52.26							5.6	

Table 6. Soil physical characteristics for the R4D permanent vegetation plots

					Particle Size (%, USDA size classes)*							
Plot No.	Horizon	Depth (cm)	Wet Color	% Org. Matter	Coarse Gravel	Fine Gravel	Sand	Silt	Clay	Texture	Hygro. Moist. (%)	Bulk Density (g/cm3)
SW35A	Oa	15-25	7.5YR3/3	32.88	0	0	12.1	28.1	59.8	c	8.4	0.29
SW35A	BA	35-45+	7.5YR4/2	3.93							2.6	
SW36A	Oe	03-08	7.5YR2/1	79.23							13.9	
SW36A	Oa	08-18	5YR2/1	59.84	0	0	1.3	28.0	70.7	c	9.1	0.27
SW36A	Bw	18-40+	10YR4/4	6.42							2.1	
SW37	Oi1	00-30	7.5YR2/3	70.83							8.7	0.19
SW37	Oi2	30-40	5YR2/2	54.80	0	0	12.2	45.0	42.8	sic	5.9	
SW37	Bw	40-50	10YR4/2	14.77							2.0	
SW38	A	01-04	10YR2/3	26.99							3.6	
SW38	Bw	04-40	10YR4/5	3.42	6.0	33.7	56.3	27.5	16.1	sl	1.5	1.18
SW39	A	01-05	7.5YR2/1.5	52.21							6.2	
SW39	Bw1	05-20	7.5YR3/3	8.80	0	29.7	65.8	23.4	10.8	sl	1.1	1.30
SW39	Bw2	20-50	10YR3.5/4	2.97							0.7	
SW40	A	01-12	7.5YR3/3	20.24	0	12.3	26.8	47.2	26.0	l	2.3	1.24
SW40	Bw	12-50+	10YR3/4	4.08							1.0	
SW41	A	03-14	5YR2/1	37.56	5.4	6.6	7.5	45.7	46.7	sic	5.7	0.36
SW41	Bw	14-40+	10YR4/4	1.84							0.6	
SW42	A	01-03	5YR2/1	36.55	3.3	19.5	57.3	24.8	17.9	sl	4.0	
SW42	Bw	03-40+	10YR3/4	4.88	36.2	17.5	55.1	29.9	15.0	sl	1.5	0.95
SW43	A	03-08	5YR2/1.5	51.05	0	26.6	23.7	53.9	22.5	sil	3.5	
SW43	Bw1	08-18	5YR4/5	3.83							0.9	1.30
SW43	Bw2	18-53	7.5YR4/4	3.23							0.7	
SW44A	Oa	06-12	5YR2/2	51.36	0	3.6	14.7	42.5	42.8	sic	4.1	0.47

Table 6. Soil physical characteristics for the R4D permanent vegetation plots

					Particle Size (%, USDA size classes)*							
Plot No.	Horizon	Depth (cm)	Wet Color	% Org. Matter	Coarse Gravel	Fine Gravel	Sand	Silt	Clay	Texture	Hygro. Moist. (%)	Bulk Density (g/cm3)
SW44A	A	12-25	7.5YR3.5/4	16.15							1.9	
SW44A	Bw	25-56	10YR5/4	3.63							0.7	
SW45	Oe	07-22	5YR2/2	71.65							5.2	0.26
SW45	Oa	22-34	7.5YR3/2.5	55.23	0	0	3.0	25.0	72.0	c	4.5	
SW45	BA	34-60+	10YR4/3	7.24							1.0	
SW46	Oi	00-10	5YR4/5									
SW46	Oe	10-16	5YR3/2	59.64	0	0	3.7	70.3	26.0	sil	7.0	0.16
SW46	Oa	16-25	7.5YR3/3	50.13							9.4	
SW47	Oe	05-15	5YR2/2	38.62	0	0	16.3	52.7	31.0	sicl	4.3	0.21
SW47	A/B	15-60+	10YR3/2	11.84							1.6	
SW48	Oe	12-16	5YR2/2									0.22
SW48	Oa	16-25+	5YR2/2	37.47	0	0	6.7	47.6	45.7	sic	4.1	
SW49	Oe	00-10	5YR2/2.5	37.34							7.2	
SW49	Oa1	10-32	10YR2/3	28.41	0	0	3.3	49.5	47.2	sic	4.0	0.39
SW49	Oa2	32-40+	10YR3/2	22.15							2.8	
SW50	Oe	07-15	5YR2/2	76.67	0	0	3.1	39.2	57.7	c	6.8	0.22
SW50	BA	15-26	10YR3/2	10.06							2.1	
SW51	Oa	05-10	5YR2/2	42.25	0	17.8	37.9	40.8	21.3	l	3.5	0.38
SW51	A	10-14	7.5YR3/3.5	21.26							2.4	
SW51	Bw1	14-25	7.5YR4/6	7.66							1.8	
SW51	Bw2	25-45+	10YR4/4	2.45							1.0	
SW52	Oa	02-06	5YR2/2	32.21	0	14.4	36.4	39.1	24.5	l	3.2	
SW52	A	06-19	10YR4/6	5.64							1.5	0.88
SW52	Bw	19-40	10YR4/3	2.16							1.1	

Table 6. Soil physical characteristics for the R4D permanent vegetation plots

					Particle Size (%, USDA size classes)*							
Plot No.	Horizon	Depth (cm)	Wet Color	% Org. Matter	Coarse Gravel	Fine Gravel	Sand	Silt	Clay	Texture	Hygro. Moist. (%)	Bulk Density (g/cm3)
SW53	A	00-15	10YR3/3	7.68	21.6	31.7	74.0	19.0	7.0	sl	1.3	1.18
SW53	Bw	15-37	10YR4/4	1.76							1.1	
SW54	A	00-10	10YR3/3.5	6.45	10.4	13.0	70.5	21.8	7.7	sl	1.3	1.19
SW54	Bw	10-50+	10YR4/5	3.55							1.2	
SW55	A	06-26	5YR2/3	18.95	0	0	59.2	30.5	10.4	sl	2.3	0.55
SW56	Oe	05-12	5YR2/2									
SW56	Oa	12-32	5YR2/2	32.28	0	0	38.7	42.5	18.8	c	3.2	0.32
SW56	Bw	32-55	10YR3/3	3.39							1.4	
SW57	IA	05-15	5YR2/2.5	20.01	3.8	23.3	53.5	30.7	15.8	sl	2.2	0.52
SW57	IBw	15-40	7.5YR3/3	8.68							1.3	
SW57	IIBw	40-56	10YR3/3	3.89							1.6	
SW58A	A	00-02	7.5YR2/2	16.60	2.5	12.2	79.2	13.6	7.3	ls	2.2	
SW58B	Bw	00-35	10YR3/3	3.06	44.7	15.4	58.3	30.2	11.6	sl	1.4	1.12
SW59	Oa	04-15	5YR2/1.5	57.55	0	9.6	7.8	33.9	58.4	c	7.9	0.21
SW59	A	15-20	10YR2/3	7.17							1.3	
SW59	Bw	20-35	10YR3/3.5	4.15							1.1	
SW60	A1	02-16	5YR2/2.5	21.55	8.7	20.1	49.3	35.9	14.7	l	3.6	0.71
SW60	A2	16-24	7.5YR3/3	8.81							1.8	
SW60	Bw	24-50	10YR2.5/3	5.08							1.9	
SW61	Oi	00-13	7.5YR5/6									0.15
SW61	Oe	13-27	5YR2/1	77.73	0	0	0.7	30.9	68.4	c	11.4	
SW61	BA	27-32+	10YR4/1	8.18							1.8	

Table 6. Soil physical characteristics for the R4D permanent vegetation plots

					Particle Size (%, USDA size classes)*							
Plot No.	Horizon	Depth (cm)	Wet Color	% Org. Matter	Coarse Gravel	Fine Gravel	Sand	Silt	Clay	Texture	Hygro. Moist. (%)	Bulk Density (g/cm3)
SW62	Oi	00-12	10YR4/6									0.31
SW62	Oe	12-23	5YR2/1	66.35	0	0	3.6	33.1	63.3	c	7.8	
SW62	Bw	23-26+	10YR4/2	8.03							1.1	
SW65	Oi	00-05	7.5YR2/3	30.60	0	0	13.2	53.9	33.0	sicl	3.4	
SW67	Oa	10	5YR2/1	85.07							11.3	
SW72	A	10	10YR3/2	13.88							6.1	
SW73	A	10	10YR2/3	11.31							6.1	