Table A1.1: Particle size distributions for cores from the restored native moist prairie in Curtis Prairie.

Vegetation type	Sample designation	Bottom depth of sample interval	Sand size fractions[1,2]						Silt size fractions[3]			Total Clay
			VCOS	COS	MS	FS	VFS	Total	COSI	FISI	Total	
Restored Native Prairie		(cm)	wt %									
	C1-1	5	0.39	-	6.46	13.25	3.63	23.73	34.39	24.23	58.62	17.65
	C1-2	10	0.21	2.84	7.16	15.13	3.83	29.17	32.57	22.64	55.21	15.63
	C1-3	20	0.73	3.42	8.56	16.75	4.40	33.86	30.19	20.64	50.84	15.30
	C1-4	40	0.46	3.57	8.26	16.27	4.06	32.53	32.00	19.94	51.94	15.53
	C1-5	60	0.79	4.29	8.43	12.75	407	30.33	27.48	21.36	48.85	20.84
	C1-6	100	0.09	1.39	2.42	5.02	2.67	11.59	34.69	21.39	56.08	32.32
	C5-1	5	0.18	1.69	4.58	10.25	3.76	20.46	38.48	26.22	64.70	14.84
	C5-2	10	0.16	1.79	4.92	10.97	4.08	21.93	39.59	24.71	64.29	13.78
	C5-3	20	0.17	2.06	5.44	10.58	4.39	22.64	37.66	24.99	62.65	14.71
	C5-4	40	0.18	1.87	5.13	11.21	4.37	22.76	38.12	23.98	62.10	15.14
	C5-5	60	5.46	2.92	8.52	17.86	5.70	40.47	24.87	22.23	47.09	12.43
	C5-6	100	0.51	2.71	6.16	11.11	4.21	24.70	26.16	23.13	49.28	26.02
	C10-1	5	0.43	3.42	7.39	15.04	4.41	30.71	30.45	21.27	51.73	17.57
	C10-2	10	0.26	2.38	4.73	8.41	3.03	18.81	37.97	22.28	60.25	20.94
	W1-1	10	0.60	1.66	4.06	10.05	3.24	19.62	37.29	26.51	63.80	14.80
	W1-2	20	0.51	1.54	4.44	10.39	0.22	17.10	37.03	31.30	68.33	14.57
	W1-3	40	0.48	1.84	5.34	12.96	4.37	24.99	32.60	25.19	57.79	17.22
	W1-4	60	0.78	2.29	7.25	16.77	4.34	31.42	25.14	18.22	43.36	25.22
	W1-5	80	0.26	-	-	12.14	1.55	13.95	19.29	42.39	61.69	24.36
	W2-1	10	0.48	2.36	4.42	6.78	0.19	14.23	39.52	25.34	64.86	20.91
	W2-2	20	0.46	2.72	5.79	9.49	2.59	21.05	34.29	25.38	59.67	19.28
	W2-3	40	0.70	4.02	9.71	17.13	4.69	36.25	27.98	23.68	51.66	12.08
	W2-4	55	2.69	7.13	14.13	20.17	5.62	49.73	17.59	15.37	32.95	17.31
	W2-5	85	4.43	13.33	19.24	19.61	4.91	61.52	6.49	4.41	10.89	27.59
	W2-6	105	5.25	9.33	17.53	24.66	17.78	74.54	6.66	12.03	18.69	6.77
	W3-1	10	0.60	3.89	9.57	18.65	4.95	37.67	27.30	21.10	48.40	13.93
	W3-2	20	0.89	3.19	8.87	18.72	5.15	36.82	26.92	22.60	49.51	13.66
	W3-3	40	0.37	2.74	8.47	16.02	4.71	32.31	26.00	22.56	48.55	19.13
	W3-4	60	0.77	3.88	9.66	15.34	3.73	33.39	23.13	17.20	40.32	26.29
	W3-5	88	2.05	8.52	16.75	26.78	5.06	59.15	10.85	8.02	18.86	21.98

[1]: Sand size fraction abbreviations and standard size ranges are defined in Soil Survey Staff (1995) as very coarse sand (VCOS) = 1000-2000 μm, coarse sand (COS) = 500-1000 μm, medium sand (MS) = 250-500 μm, fine sand (FS) = 100-250 μm, and very fine sand (VFS) = 50-100 μm.

[2]: Analytical precision: 0.0001g or 0.01wt %.

[3]: Silt size fraction abbreviations and standard size ranges are defined in Soil Survey Staff (1995) as coarse silt (COSI) = 20-50 μm and fine silt (FISI) = 2-20 μm.

Table A1.2: Particle size distributions for cores from reed canary grass invaded areas in Curtis Prairie.

Vegetation type	Sample designation	Bottom depth of sample interval	Sand size fractions[1]						Silt size fractions			Total Clay
			VCOS	COS	MS	FS	VFS	Total	COSI	FISI	Total	
Reed Canary grass invaded prairie		(cm)	----------wt %----------									
	C2-1	5	0.24	1.36	4.13	6.53	2.46	14.72	35.00	28.33	63.82	21.46
	C2-2	10	0.13	2.03	5.50	10.03	2.83	20.52	34.76	22.93	57.69	21.79
	C2-3	20	0.65	3.47	10.84	16.91	3.79	35.65	33.95	16.11	50.05	14.30
	C2-6	100	0.04	1.46	7.37	20.90	6.21	35.97	20.40	21.03	41.43	22.60
	C3-1	5	0.06	0.38	0.88	6.90	4.38	12.59	40.61	24.06	64.67	22.74
	C3-2	10	0.06	0.22	0.56	4.04	3.71	8.59	25.23	41.93	67.16	24.25
	C3-3	20	0.16	0.30	0.55	3.09	3.41	7.51	42.63	30.56	73.19	19.30
	C3-4	40	0.12	0.51	1.28	4.04	3.95	9.89	37.10	32.80	69.89	20.21
	C3-5	60	0.25	1.23	1.89	5.10	3.94	12.42	32.89	29.17	62.06	25.52
	C3-6	100	0.45	1.37	3.54	6.16	2.51	14.02	36.49	18.00	54.48	31.50
	C4-1	5	0.11	0.68	2.20	4.43	2.97	10.38	41.48	18.95	60.43	29.90
	C4-2	10	0.14	0.90	2.64	6.17	3.92	13.77	39.90	26.93	66.83	19.40
	C4-3	20	0.05	1.13	3.48	6.82	4.70	16.18	39.78	28.87	68.65	15.17
	C4-4	40	0.17	0.80	2.39	6.50	7.77	17.63	34.37	30.43	64.80	17.56
	C4-5	60	0.24	0.99	2.14	9.54	7..79	20.70	28.11	26.51	54.62	24.68
	C4-6	100	0.04	0.47	1.57	4.31	4.34	10.73	33.16	25.32	58.47	30.80
	C9-1	5	0.42	3.82	7.42	15.83	3.86	31.35	32.25	19.73	51.98	16.67
	C9-2	10	0.57	3.27	8.04	17.54	3.78	33.20	30.58	20.31	50.89	15.92
	W4-1	10	0.40	2.10	11.30	18.70	4.82	37.32	27.05	21.94	48.99	13.69
	W4-2	30	0.29	3.54	6.48	10.59	4.66	25.56	33.51	25.53	59.04	15.40
	W4-3	50	1.32	9.64	16.18	21.24	5.97	54.35	17.63	15.03	32.66	12.99
	W4-4	60	2.58	15.97	21.00	19.70	0.99	60.25	8.88	11.46	20.34	19.41
	W4-5	70	5.44	19.65	23.76	22.42	5.81	77.08	5.70	5.28	10.98	11.94
	W5-1	8	0.17	1.25	3.27	7.88	1.46	14.03	36.45	28.02	64.48	21.49
	W5-2	21	0.11	1.63	4.39	11.44	5.88	23.44	34.43	27.08	61.51	15.05
	W5-3	30	0.18	1.94	5.61	13.98	2.48	24.18	29.93	29.71	59.63	16.18
	W5-4	40	0.50	3.56	8.16	16.98	7.15	36.35	25.59	21.32	46.92	16.74
	W5-5	50	1.93	6.42	11.25	18.34	0.31	38.25	17.90	24.77	42.67	19.07
	W5-6	60	1.77	6.75	12.71	20.78	10.33	52.34	13.71	13.74	27.45	20.21
	W5-7	70	0.74	7.20	16.66	27.49	2.51	54.60	11.53	15.48	27.01	18.39
	W5-8	82	0.70	5.35	13.89	28.51	5.75	54.20	14.51	13.88	28.39	17.41
	W6-1	10	0.83	3.29	9.01	17.26	1.46	31.85	29.40	22.45	51.85	16.30
	W6-2	20	0.40	3.12	9.80	19.76	4.45	37.53	29.22	18.86	48.07	14.40
	W6-3	30	0.15	2.63	8.39	17.02	4.06	32.26	31.04	21.18	52.22	15.52
	W6-4	56	0.23	2.12	4.68	8.71	3.74	19.48	36.02	21.77	57.79	22.73
	W6-5	85	0.12	1.17	2.11	4.65	2.58	10.63	33.68	22.20	55.88	33.50
	W6-6	98	2.39	10.49	12.42	20.74	5.14	51.18	15.08	13.12	28.19	20.62

[1]: Size fraction abbreviations and standard size ranges are defined in Table A1.1.

Table A1.3: Particle size distributions for cores from the sedge meadow in Curtis Prairie.

Vegetation type	Sample designation	Bottom depth of sample interval	Sand size fractions[1]						Silt size fractions			Total Clay
			VCOS	COS	MS	FS	VFS	Total	COSI	FISI	Total	
Sedge Meadow		(cm)	wt %									
	C6-1	5	0.10	0.73	2.60	7.21	3.01	13.66	42.79	22.04	64.83	21.52
	C6-2	10	0.38	0.50	1.12	3.20	1.99	7.20	67.36	22.66	64.95	27.85
	C6-3	20	0.16	0.59	1.22	3.60	2.42	8.00	46.14	23.95	70.08	21.78
	C6-4	40	0.44	0.97	3.07	8.61	3.22	16.31	35.63	20.93	56.56	27.13
	C6-6	80	0.32	1.58	5.95	19.66	6.40	33.92	23.43	19.90	43.33	28.00
	C6-7	100	0.50	1.94	5.87	18.79	5.62	32.72	26.36	20.20	46.56	22.75
	C7-1	5	0.26	0.42	0.89	2.37	1.59	5.52	47.17	19.28	66.45	28.03
	C7-2	10	0.22	0.65	1.96	4.11	2.01	8.94	42.97	24.84	67.81	23.25
	C7-3	20	0.19	0.87	3.38	6.68	2.68	13.80	41,19	23.80	64.99	21.21
	C7-4	40	0.51	1.66	4.90	9.72	3.09	19.87	38.13	20.13	58.26	21.87
	C7-5	60	1.11	1.31	4.33	8.06	3.12	17.94	29.85	20.41	50.26	31.80
	C7-6	100	0.50	0.60	2.45	5.33	3.07	11.96	33.85	26.84	60.88	27.36
	C8-1	5	0.40	0.91	1.06	3.62	1.64	7.62	63.99	19.95	83.94	8.43
	C8-2	10	0.18	0.64	1.42	5.18	2.37	9.78	45.54	20.01	65.55	24.67
	C8-3	20	0.37	0.87	2.04	6.88	2.77	12.92	44.20	20;96	65.16	21.92
	C8-4	40	1.05	0.67	2.11	7.15	3.29	14.26	47.25	19.78	67.03	18.71
	C8-5	60	0.15	0.25	0.44	1.90	2.33	5.06	53.19	23.49	76.68	18.25
	C8-6	100	0.15	0.15	0.61	4.53	2.96	8.39	68.25	20.05	88.30	3.31

[1]: Size fraction abbreviations and standard size ranges are defined in Table A1.1.

Table A.2: Nutrient element data for sites in Curtis Prairie.

Vegetation type	Sample designation	Bottom depth of sample interval	Total Carbon[1] (TC)	Nitrogen			Bioavailable Phosphorus (BAP)[3]
				Total Nitrogen[1] (TN)	NH_3-N[2]	NO_3-N[2]	
Restored		cm	----------wt %----------		----------mg kg^{-1}----------		
Native Prairie	C1-1	5	3.105	0.223	8.11	0.94	29.0
	C1-2	10	2.569	0.188	4.57	0.73	11.5
	C1-3	20	1.675	0.130	2.99	0.92	7.1
	C1-4	40	1.151	0.087	3.19	0.85	6.9
	C1-5	60	0.594	0.047	1.74	0.31	12.7
	C1-6	100	0.417	0.044	2.11	2.19	22.9
	C5-1	5	3.663	0.222	4.44	0.60	18.4
	C5-2	10	2.570	0.163	4.09	0.42	5.2
	C5-3	20	1.872	0.125	3.63	0.60	1.7
	C5-4	40	1.163	0.088	2.81	0.40	3.5
	C5-5	60	0.319	0.047	2.27	0.76	129.9
	C5-6	100	0.345	0.038	2.35	1.49	45.3
Reed Canary Grass Invaded Prairie	C2-1	5	5.249	0.336	5.98	0.92	21.7
	C2-2	10	3.895	0.282	5.39	<dl	10.9
	C2-3	20	1.843	0.149	3.37	0.77	5.8
	C2-4	100	0.319	0.035	2.23	0.67	27.9
	C3-1	5	4.455	0.316	9.16	0.96	24.4
	C3-2	10	4.195	0.256	13.68	0.15	32.0
	C3-3	20	3.432	0.222	4.81	4.53	17.8
	C3-4	40	1.434	0.102	3.08	0.76	7.4
	C3-5	60	0.702	0.069	2.13	0.53	5.5
	C3-6	100	0.355	0.047	1.80	0.73	11.7
	C4-1	5	6.005	0.391	8.07	1.02	13.2
	C4-2	10	3.544	0.251	5.85	0.66	10.8
	C4-3	20	2.073	0.148	3.21	1.66	6.3
	C4-4	40	0.832	0.075	2.16	0.83	8.9
	C4-5	60	0.513	0.100	1.76	0.78	14.6
	C4-6	100	0.348	0.048	1.94	0.69	26.3
	C9-1	5	NA	NA	8.04	1.36	38.9
	C9-2	10	NA	NA	4.25	0.83	14.9
	C10-1	5	NA	NA	3.67	1.14	29.4
	C10-2	10	NA	NA	5.21	2.43	23.1
Sedge Meadow	C6-1	5	10.260	0.646	9.19	1.40	21.0
	C6-2	10	8.061	0.537	9.29	1.21	12.2
	C6-3	20	4.456	0.330	5.08	2.79	4.7
	C6-4	40	4.478	0.272	3.22	2.29	4.5
	C6-5	60	2.417	0.116	2.22	1.51	2.7
	C6-6	80	0.797	0.047	1.74	1.35	1.6
	C6-7	100	0.335	0.027	1.91	0.66	0.9
	C7-1	5	6.660	0.414	7.50	0.66	14.2
	C7-2	10	3.284	0.227	4.53	0.24	8.9
	C7-3	20	NA	NA	2.83	0.63	7.0
	C7-4	40	NA	NA	2.63	<dl	5.0
	C7-5	60	NA	NA	2.19	0.89	1.2
	C7-6	100	NA	NA	2.07	0.74	1.5

[1]: Detection limit for TC and TC = 0.001 wt %; NA = not analyzed

[2]: Detection limit for NO_3-N and NH_4-N = 0.01 mg kg^{-1}; NA = not analyzed

[3]: Detection limit for BAP = 0.1 mg kg^{-1}; <dl = less the detection limit

Table A.2 (Cont.): Nutrient element data for sites in Curtis Prairie.

Vegetation type	Sample designation	Bottom depth of sample interval	Total Carbon (TC)	Nitrogen			Bioavailable Phosphorus (BAP)
				Total (TN)	NH_3-N	NO_3-N	
Sedge Meadow		cm	----------wt %----------		----------mg kg^{-1}----------		
	C8-1	5	NA	NA	11.53	3.38	31.4
	C8-2	10	NA	NA	5.43	1.68	22.1
	C8-3	20	NA	NA	4.10	0.07	18.8
	C8-4	40	NA	NA	3.39	0.73	14.4
	C8-5	60	NA	NA	2.98	0.88	19.8
	C8-6	100	NA	NA	8.35	0.56	22.4

Table A.3: Acid-extractable trace element data for sites in Curtis Prairie.

Vegetation type	Sample designation	Bottom depth of sample interval	Element[1]				
			Al	Cu	Mn	Na	Zn
Restored		cm	----------	----------	mg kg^{-1}	----------	----------
Native Prairie	C1-1	5	63.7	0.27	61.4	4.9	2.46
	C1-2	10	72.6	0.26	65.6	5.6	2.18
	C1-3	20	79.4	0.24	53.6	5.4	1.96
	C1-4	40	92.2	0.22	44.3	6.1	1.04
	C1-5	60	101.6	0.32	17.3	12.9	0.98
	C1-6	100	119.3	0.41	5.5	21.6	0.94
	C5-1	5	97.5	0.29	97.0	14.8	2.91
	C5-2	10	99.4	0.29	80.1	13.1	1.97
	C5-3	20	104.0	0.25	53.2	13.7	1.26
	C5-4	40	101.6	0.25	35.6	15.7	0.91
	C5-5	60	100.5	0.39	12.6	11.5	0.99
	C5-6	100	130.0	0.54	5.0	25.4	1.11
Reed Canary Grass Invaded Prairie	C2-1	5	72.7	0.61	74.7	17.2	7.55
	C2-2	10	89.4	0.64	74.5	18.4	6.86
	C2-3	20	88.8	0.41	61.1	13.2	2.46
	C2-4	100	123.6	0.44	10.0	19.5	1.24
	C3-1	5	106.6	1.11	97.9	21.4	12.33
	C3-2	10	114.8	1.35	87.8	20.1	15.20
	C3-3	20	96.0	0.96	68.2	22.3	11.63
	C3-4	40	99.1	0.49	48.1	38.0	2.18
	C3-5	60	131.4	0.64	24.9	30.4	1.69
	C3-6	100	113.7	0.45	12.8	31.6	1.36
	C4-1	5	115.0	0.96	90.7	19.5	8.96
	C4-2	10	106.4	0.66	7.7	20.4	5.32
	C4-3	20	106.8	0.36	70.4	27.6	2.33
	C4-4	40	115.8	0.41	29.7	24.2	1.38
	C4-5	60	130.3	0.48	13.8	32.2	1.50
	C4-6	100	125.5	0.44	11.5	37.1	1.54
	C9-1	5	89.0	0.23	78.9	11.0	2.68
	C9-2	10	92.5	0.25	80.8	9.9	2.02
	C10-1	5	98.1	0.46	70.1	60.4	3.35
	C10-2	10	79.5	0.72	105.5	47.9	7.63
Sedge Meadow	C6-1	5	62.9	0.12	83.1	31.9	3.24
	C6-2	10	78.3	0.15	80.9	25.7	2.79
	C6-3	20	106.8	0.22	73.1	15.9	2.01
	C6-4	40	107.3	0.10	35.7	15.9	0.80
	C6-5	60	125.8	0.17	16.7	14.6	0.81
	C6-7	100	116.6	0.32	17.0	10.8	1.35
	C7-1	5	111.5	0.77	84.5	30.4	12.17
	C7-2	10	110.7	0.61	64.1	25.3	6.91
	C7-3	20	46.6	0.29	12.7	22.8	0.91
	C7-4	40	112.4	0.33	41.1	23.4	1.27
	C7-5	60	125.6	0.30	17.5	30.6	0.86
	C7-6	100	127.3	0.32	11.6	30.9	1.28

[1]: Detection limit for Al, Mn and Na = 0.05 mg kg^{-1}; Detection limit for Cu and Zn = 0.01 mg kg^{-1}

Table A.2 (Cont.): Nutrient element data for sites in Curtis Prairie.

Vegetation type	Sample designation	Bottom depth of sample interval	Element				
			Al	Cu	Mn	Na	Zn
Sedge Meadow		cm	----------	----------	mg kg^{-1}	----------	----------
	C8-1	5	76.97	0.36	139.3	41.2	6.96
	C8-2	10	57.27	0.38	26.7	26.6	2.51
	C8-3	20	56.28	0.28	16.7	20.2	1.31
	C8-4	40	119.46	-/25	58.9	18.2	1.31
	C8-5	60	116.48	0.26	54.9	16.8	1.36
	C8-6	100	76.30	0.24	31.2	32.2	1.23