

Table 4. Environmental data for permanent plots, abiotic data

Plot No.	Date Sampled	Landform	Surficial Geology	Glacial Geology	Surficial Geomorphology	Microsite	Topographic Position	Slope(°)	Aspect(°)	Exposure (Scalar)	Site Moisture (Scalar)
SWT-1	8/1/89	2	4	4	1		5	2	0	1.5	7.0
SWT-2	8/1/89	2	4	4	10		5	2	0	1.2	6.0
SWT-3	8/2/89	1	6	4	3		3	5	0	1.5	5.0
SWT-4	8/2/89	6	9	4	15		7	0	-	3.5	9.0
SWT-5	8/2/89	1	2	4	6	5	4	2	0	3	3.5
SWT-6	8/2/89	1	2	4	6	5	4	1	0	3	3.5
SWT-7	8/3/89	1	2	4	10		1	2	0	3.5	3.5
SWT-8	8/3/89	1	2	4	3		2	30	270	1.8	4.0
SWT-9	8/3/89	1	6	4	3		3	10	290	1.2	5.0
SWT-10	8/3/89	1	6	4	7		3	3	270	2	6.0
SWT-11	8/3/89	4	7	4	5	4	4	0	-	2	8.5
SWT-12	8/4/89	4	7	4	5	4	4	0	-	2	8.5
SWT-13	8/4/89	4	7	4	10		4	0	-	2	8.5
SWT-14	8/4/89	4	7	4	5	3	4	0	-	2	7.0
SWT-15	8/4/89	4	7	4	5	4	4	0	-	2	8.5
SWT-16	8/4/89	5	8	4	3		4	3	0	4	6.0
SWT-17	8/4/89	7	1	1	13		1	0	-	4	5.5
SWT-18	8/4/89	7	1	1	10		1	0	-	4	3.0
SWT-19	8/5/89	7	6	1	10		2	35	90	2.5	4.0
SWT-20	8/5/89	7	6	1	3		3	15	90	2.5	4.0
SWT-21	8/5/89	7	6	1	3		2	5	90	2	6.5
SWT-22	8/5/89	7	6	1	3		2	5	90	2	6.5
SWT-23	8/5/89	7	6	1	3		2	10	90	2	6.5
SWT-24	8/5/89	7	6	1	4		2	10	90	1.8	6.5
SWT-25	8/6/89	7	6	4	3	2	3	3	45	2	6.0
SWT-26	8/6/89	7	6	1	10	2	2	4	10	2	5.5
SWT-27	8/6/89	3	4	1	10		5	30	0	1.8	9.0
SWT-28	8/8/89	2	4	4	13		5	2	90	2	6.5
SWT-29	8/16/89	5	8	4	10		4	0	-	2	8.0
SWT-30	8/16/89	6	9	4	10		7		-	2	9.0

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SWT-31	8/23/89	7	2	4	16		1		-	3	3.0
SWT-32	8/13/89	7	6	1	1	2	2	4		2	7.0
SWT-33	8/8/89	2	4	4	13		5	3	9	1.8	6.0
SWT-34	8/8/89	5	8	4	13		4		-	2	6.0
SWT-35	8/13/89	7	6	1	1	1	2	2		2	5.0
SWT-36	8/22/89	7	6	1	3		2	5	45	1.5	6.5
SWT-37	8/8/89	4	7	2	5	4	4		-	2	8.5
SWT-38	8/8/89	4	7	2	5	3	4		-	2	5.5
SWT-39	8/8/89	7	6	2	4	2	2	6	16	2.5	6.0
SWT-4	8/9/89	7	6	2	7	7	2	6	15	2.5	5.0
SWT-41	8/9/89	7	6	2	7	8	2	6	15	2.5	5.5
SWT-42	8/8/89	7	6	2	4		3	5	16	2.5	5.0
SWT-43	8/9/89	7	6	2	3		2	5	15	2	5.5
SWT-44	8/9/89	7	6	2	7	7	2	7	1	2.8	5.0
SWT-45	8/8/89	7	6	2	7	8	2	7	1	2.8	5.0
SWT-46	8/9/89	7	6	2	1	2	1		-	4	3.5
SWT-47	8/1/89	7	1	2	1		1		-	4	3.0
SWT-48	8/9/89	7	1	2	13		1		-	4	4.0
SWT-49	8/1/89	7	6	2	3		2	3		1	4.0
SWT-5	8/1/89	7	6	2	4		2	25		1.5	5.0
SWT-51	8/1/89	7	6	2	4		3	1		2	5.5
SWT-52	8/1/89	7	6	2	4		3	15		2.5	6.0
SWT-53	8/1/89	7	6	2	4		3	5	33	2.5	6.0
SWT-54	8/1/89	7	6	2	1		3	3	3	3	6.0
SWT-55	8/11/89	4	7	2	5	3	4		-	3	8.8
SWT-56	8/11/89	2	4	2	6	5	4	1	27	2	7.0
SWT-57	8/11/89	4	7	2	5	4	5		-	2	8.5
SWT-58	8/11/89	4	7	2	5	3	4		-	2	7.0
SWT-59	8/11/89	7	1	2	14		2	2	18	3.5	4.5
SWT-6	8/11/89	7	1	2	14		2	15	2	3.5	4.0
SWT-61	8/14/89	7	1	2	1		2	2	18	3	6.0
SWT-62	8/14/89	5	1	2	1		4		-	2.5	7.0

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Plot No.	Date Sampled	Landform	Surficial Geology	Glacial Geology	Surficial Geomorphology	Microsite	Topographic Position	Slope(°)	Aspect(°)	Exposure (Scalar)	Site Moisture (Scalar)
SWT-63	8/14/89	1	2	4	1		4		-	3	4.0
SWT-64	8/21/89	7	6	1	1	1	2		-	2	5.0
SWT-65	8/12/89	1	2	4	1		4		-	3.5	4.0
SWT-66	8/12/89	1	2	4	1		4		-	3	4.0
SWT-67	8/14/89	5	2	4	1		6		-	2.5	6.0
SWT-68	8/12/89	2	4	4	13		5	1	18	2	6.5
SWT-69	8/12/89	1	2	4	14		4	2	27	2	4.0
SWT-7	8/12/89	1	2	4	1		3	3	27	2	4.5
SWT-71	8/12/89	1	2	4	1		4		-	3.5	4.0
SWT-72	8/2/89	5	8	4	1		4		-	2	8.0
SWT-73		7	6	1	1		2	3		2	7.0
SWT-74	8/22/89	7	6	1	1	1	2		-	1.8	5.0
SWT-75	8/21/89	2	4	1	11		2	2		1.8	7.0
SWT-76	8/24/89	7	2	4	13		1		-	3	3.0
SWT-77	8/5/89	7	6	4	4		3	2	9	1.5	7.0
SWT-78	8/22/89	2	4	1	11		5	3	35	1.8	8.5
SWT-79	8/22/89	2	4	1	11		5	3	15	1.8	7.2
SWT-8	8/13/89	7	6	1	1	1	2		-	2	5.0
SWT-81	8/23/89	7	6	2	4		2	2	36	2	6.5

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Plot No.	Snow Duration (Scalar)	Stability (Scalar)	Cryo- turbation (%)	Height of Microrelief (cm)	Thaw Depth (cm)	Water Cover (%)	Bare soil Cover (%)	Rock Cover (%)	Soil Units	Soil Moisture
SWT-1	5.0	4.0	0	5	R	0	0	0	9	7
SWT-2	5.0	4.0	0	5	>46	0	0	0	15	4
SWT-3	5.0	1.5	0	10	>60	0	0	0	11	4
SWT-4	4.0	4.0	0	15	R	100	0	0	5	10
SWT-5	3.0	1.0	0	5	R	0	0	5	10	3
SWT-6	3.0	1.0	20	10	R	0	0	0	8	3
SWT-7	2.0	1.0	0	5	>100	0	0	0	10	3
SWT-8	4.0	3.5	10	20	-	0	0	0	10	3
SWT-9	5.0	3.0	0	50	>100	0	0	0	13	3
SWT-10	4.5	3.0	0	15	>80	0	0	0	9	7
SWT-11	4.0	1.0	0	5	43	0	0	0	2	9
SWT-12	4.0	1.0	0	5	50	100	0	0	5	9
SWT-13	4.0	1.0	0	5	61	100	0	0	2	9
SWT-14	4.0	1.0	0	5	56	0	0	0	2	8
SWT-15	4.0	1.0	0	5	50	100	0	0	5	8.5
SWT-16	5.7	3.0	0	20	>40	0	0	0	13	6
SWT-17	2.0	5.0	0	20	R	0	0	0	11	2
SWT-18	2.0	1.0	10	8	>77	0	10	30	10	2
SWT-19	4.0	1.5	0	15	>80	0	0	1	10	3
SWT-20	5.5	2.0	2	40	>50	0	0	1	10	3
SWT-21	5.0	3.0	0	20	95	0	0	0	7	6
SWT-22	5.0	3.0	5	15	40	0	0	0	7	6.5
SWT-23	5.0	3.0	0	30	44	0	0	0	7	7
SWT-24	5.0	3.0	0	50	47	0	0	0	9	6.5
SWT-25	4.0	1.0	5	20	36	0	0	0	8	6
SWT-26	4.0	1.0	5	15	46	0	0	0	8	6
SWT-27	5.0	4.0	0	20	58	50	0	0	6	9
SWT-28	5.0	4.0	0	30	>53	5	0	0	3	7
SWT-29	4.0	1.0	0	5	R	10	0	0	7	8.5
SWT-30	4.0	1.0	0	-	57	100	25	0	5	10
SWT-31	2.5	5.0	0	20	>100	0	20	0	10	3
SWT-32	4.0	1.0	15	15	40	0	0	0	6	7

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SWT-33	4.5	4.0	0	30	>57	5	0	0	3	6.5
SWT-34	4.0	3.0	0	50	>63	0	0	0	3	6
SWT-35	4.0	5.0	100	5	75	0	75	0	8	5
SWT-36	4.5	3.0	0	25	34	0	0	0	6	3
SWT-37	4.0	3.0	0	15	>100	80	0	0	2	9
SWT-38	4.0	1.5	0	15	78	0	0	0	7	6.5
SWT-39	3.5	3.0	20	10	65	0	10	0	9	7
SWT-40	3.0	3.0	20	15	>100	0	15	0	9	5
SWT-41	3.0	3.0	5	20	56	0	0	0	3	6.5
SWT-42	3.5	3.0	5	30	47	0	0	0	7	6
SWT-43	4.0	3.0	0	15	76	0	0	0	7	6.5
SWT-44	3.0	3.0	20	5	>100	0	15	0	9	5.5
SWT-45	3.0	3.0	0	10	80	0	0	0	7	6.5
SWT-46	2.0	3.0	10	10	>80	0	10	0	8	4
SWT-47	2.0	1.0	3	15	>65	0	10	50	11	2
SWT-48	2.0	5.0	0	30	R	0	0	0	15	2
SWT-49	6.0	3.0	0	10	>50	0	0	0	15	3
SWT-50	5.5	4.0	0	20	90	0	0	0	15	4
SWT-51	6.0	3.0	0	30	53	0	0	0	7	6.5
SWT-52	6.0	3.0	0	70	53	0	0	0	14	7
SWT-53	4.5	3.0	0	20	40	0	0	0	14	7
SWT-54	4.0	3.0	5	30	44	0	0	0	7	7
SWT-55	4.0	3.0	0	30	-	10	5	0	3	9
SWT-56	4.0	2.0	0	10	38	0	0	0	3	7
SWT-57	4.0	3.0	0	15	56	80	0	0	7	9
SWT-58	4.0	3.0	0	10	70	0	0	0	7	7
SWT-59	4.5	5.0	0	50	R	0	0	0	15	4.5
SWT-60	2.0	1.0	10	40	R	0	0	30	10	4
SWT-61	4.5	3.0	0	25	R	0	0	0	15	6
SWT-62	4.0	1.0	0	10	R	0	0	0	4	7
SWT-63	3.5	1.0	0	20	R	0	0	0	10	4
SWT-64	4.0	5.0	100	3	64	0	50	0	8	5

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Plot No.	Snow Duration (Scalar)	Stability (Scalar)	Cryo- turbation (%)	Height of Microrelief (cm)	Thaw Depth (cm)	Water Cover (%)	Bare soil Cover (%)	Rock Cover (%)	Soil Units	Soil Moisture
SWT-65	2.5	1.0	0	5	R	0	0	5	10	3
SWT-66	3.0	1.0	0	10	R	0	0	0	10	3
SWT-67	4.5	1.0	0	10	R	0	0	0	15	6
SWT-68	3.5	4.0	0	60	R	0	0	5	4	6
SWT-69	4.5	1.0	0	10	R	0	0	0	10	6.5
SWT-70	4.5	1.0	0	10	>30	0	0	0	10	2
SWT-71	2.5	1.0	0	3	>46	0	0	5	10	2
SWT-72	4.0	1.0	0	5	R	0	0	0	5	9
SWT-73	4.0	1.0	5	30	46	0	0	0	8	7
SWT-74	4.0	5.0	100	5	56	0	30	0	8	5
SWT-75	4.5	1.0	0	15	33	0	0	0	7	6
SWT-76	2.0	5.0	0	10	>100	0	30	0	11	3
SWT-77	4.0	3.0	0	60	32	0	0	0	3	5
SWT-78	4.5	4.0	0	20	79	20	10	0	6	9
SWT-79	5.0	1.5	0	10	57	0	0	0	7	7
SWT-80	4.0	5.0	100	5	68	0	0	0	8	5
SWT-81	4.0	3.0	0	30	40	0	0	0	3	6