

Table 1  
List of vegetation communities and microsites sampled in 1984 and 1985

Plot No.	Plant Community	Microsite
SW-1	Moist <i>Carex bigelowii</i> , <i>Salix planifolia</i> ssp. <i>pulchra</i> , <i>Vaccinium uliginosum</i> , <i>Sphagnum rubellum</i> , <i>Hylocomium splendens</i> sedge, dwarf-shrub tundra	Inter-water-track area
SW-2	Wet <i>Salix planifolia</i> ssp. <i>pulchra</i> , <i>Eriophorum angustifolium</i> , <i>Drepanocladus uncinatus</i> low-shrub, sedge tundra	Well developed water track
SW-3	Moist <i>Eriophorum vaginatum</i> , <i>Carex bigelowii</i> , <i>Salix planifolia</i> ssp. <i>pulchra</i> , <i>Ledum palustre</i> ssp. <i>decumbens</i> , <i>Betula nana</i> , <i>Hylocomium splendens</i> , <i>Aulacomnium turgidum</i> tussock-sedge, dwarf-shrub tundra	Inter-water-track area
SW-4a	Wet <i>Eriophorum vaginatum</i> , <i>Carex bigelowii</i> , <i>Salix planifolia</i> ssp. <i>pulchra</i> , <i>Drepanocladus uncinatus</i> tussock-sedge, dwarf-shrub tundra	Weakly developed water track
SW-4b	Moist <i>Salix planifolia</i> ssp. <i>pulchra</i> , <i>Vaccinium uliginosum</i> , <i>Carex bigelowii</i> , <i>Sphagnum rubellum</i> , <i>Aulacomnium palustre</i> low-shrub tundra	Margin of water tracks
SW-5	Wet <i>Betula nana</i> , <i>Salix planifolia</i> ssp. <i>pulchra</i> , <i>Carex bigelowii</i> , <i>Hylocomium splendens</i> , very little <i>Sphagnum</i> spp., low-shrub tundra	Weakly defined water track
SW-6	Moist <i>Carex bigelowii</i> , <i>Betula nana</i> , <i>Salix planifolia</i> ssp. <i>pulchra</i> , <i>Ledum palustre</i> ssp. <i>decumbens</i> , <i>Hylocomium splendens</i> , <i>Sphagnum</i> ssp. sedge, dwarf-shrub tundra	Inter-water-track site with weakly developed solifluction features
SW-7	Wet <i>Salix planifolia</i> ssp. <i>pulchra</i> , <i>Carex bigelowii</i> , <i>Eriophorum vaginatum</i> , <i>Rubus chamaemorus</i> , <i>Hylocomium splendens</i> , <i>Sphagnum</i> ssp. low-shrub tundra	Weakly defined water track
SW-8	Moist <i>Carex bigelowii</i> , <i>Betula nana</i> , <i>Ledum palustre</i> ssp. <i>decumbens</i> , <i>Sphagnum</i> spp. sedge, dwarf-shrub tundra	Inter-water-track area
SW-9	Dry <i>Arctous alpina</i> , <i>Salix phlebophylla</i> , <i>Cetraria nivalis</i> , <i>Sphaerophorus globosus</i> , dwarf-shrub, fruticose-lichen tundra	Dry rocky till
SW-10	Moist <i>Betula nana</i> , <i>Salix planifolia</i> ssp. <i>pulchra</i> , <i>Carex bigelowii</i> , <i>Sphagnum</i> spp. Low-shrub tundra	Margin of water track
SW-11	Wet <i>Salix planifolia</i> ssp. <i>pulchra</i> , <i>Eriophorum angustifolium</i> . <i>Betula nana</i> , <i>Sphagnum</i> spp., low-shrub, sedge tundra	Well developed water track
SW-12	Moist <i>Carex bigelowii</i> , <i>Betula nana</i> , <i>Salix planifolia</i> ssp. <i>pulchra</i> , <i>Eriophorum vaginatum</i> , <i>Sphagnum</i> spp., <i>Hylocomium splendens</i> , sedge, dwarf-shrub tundra	Inter-water-track area
SW-13	Moist <i>Betula nana</i> , <i>Salix planifolia</i> ssp. <i>pulchra</i> , <i>Carex bigelowii</i> , <i>Sphagnum</i> spp., <i>Hylocomium splendens</i> low-shrub, sedge tundra	Inter-water-track area, footslope of west-facing hill
SW-14	Wet <i>Carex aquatilis</i> , <i>Rubus chamaemorus</i> , <i>Salix fuscescens</i> , <i>Sphagnum</i> spp., sedge, dwarf-shrub, moss tundra	Flat creek margin

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Plot No.	Plant Community	Microsite
SW-15	Moist <i>Betula nana</i> , <i>Rubus chamaemorus</i> , <i>Salix fuscescens</i> , <i>Sphagnum</i> spp., <i>Aulacomnium turgidum</i> , dwarf-shrub, moss tundra	Slightly raised streamside site
SW-16	Aquatic <i>Carex aquatilis</i> , <i>Eriophorum angustifolium</i> , sedge tundra	Stream channel
SW-17	Moist <i>Betula nana</i> , <i>Eriophorum vaginatum</i> , <i>Rubus chamaemorus</i> , <i>Sphagnum</i> spp., tussock-sedge, dwarf-shrub, moss tundra	Inter-water-track area, footslope of west-facing hill
SW-18	Wet <i>Carex aquatilis</i> , <i>Salix fuscescens</i> , <i>Salix chamissonis</i> , <i>Carex rariflora</i> , <i>Sphagnum</i> spp., sedge tundra	Wet meadow with strangmoor
SW-19	Wet <i>Eriophorum scheuchzeri</i> , <i>Salix fuscescens</i> , <i>Sphagnum lenense</i> , sedge, dwarf-shrub, moss tundra	Wet meadow
SW-20	Wet <i>Carex rotundata</i> , <i>Eriophorum scheuchzeri</i> , <i>Salix fuscescens</i> , <i>Sphagnum lenense</i> sedge, dwarf-shrub, moss tundra	Wet meadow
SW-21a	Wet <i>Carex rotundata</i> , <i>C. rariflora</i> , <i>Eriophorum scheuchzeri</i> , <i>Sphagnum imbricatum</i> sedge tundra	Inter-hummock in wet meadow with strangmoor
SW-21b	Moist <i>Betula nana</i> , <i>Vaccinium uliginosum</i> , <i>Sphagnum lenense</i> dwarf-shrub tundra	Hummocks in wet meadow with strangmoor
SW-22a	Wet <i>Carex rariflora</i> , <i>C. Rotundata</i> , <i>Eriophorum scheuchzeri</i> , <i>Sphagnum lindbergii</i> sedge tundra	Inter-hummock areas in wet meadow
SW-22b	Wet <i>Eriophorum scheuchzeri</i> , <i>Andromeda polifolia</i> , <i>Salix fuscescens</i> , <i>Sphagnum lenense</i> sedge, dwarf-shrub tundra	Hummocks in wet meadow
SW-23	Aquatic <i>Carex aquatilis</i> , <i>C. rotundata</i> , sedge tundra	Stream channel
SW-24	Moist <i>Betula nana</i> , <i>Rubus chamaemorus</i> , <i>Ledum palustre</i> ssp. <i>decumbens</i> , <i>Dicranum elongatum</i> , <i>Sphagnum</i> spp., <i>Cladonia</i> spp. dwarf-shrub, fruticose-lichen tundra	Palsa
SW-25a	Moist <i>Carex rariflora</i> , <i>Betula nana</i> , <i>Salix fuscescens</i> , <i>Sphagnum</i> spp. sedge, dwarf-shrub tundra	Hummock in strangmoor area
SW-25b	Wet <i>Carex rariflora</i> , <i>Eriophorum scheuchzeri</i> , <i>C. rotundata</i> , <i>Sphagnum imbricatum</i> sedge tundra	Inter-hummock sites in strangmoor area
SW-26	Dry <i>Cassiope tetragona</i> , <i>Vaccinium uliginosum</i> , <i>Carex bigelowii</i> , <i>Tortula ruralis</i> , <i>Dicranum elongatum</i> , <i>Cetraria nivalis</i> , <i>Cladonia</i> spp. fruticose lichen tundra	Dry stone stripe with frost scars on shoulder of hill
SW-27	Moist <i>Carex bigelowii</i> , <i>Salix planifolia</i> ssp. <i>pulchra</i> , <i>S. reticulate</i> , <i>Cassiope tetragona</i> , <i>Hylocomium splendens</i> , <i>Dicranum fuscescens</i> sedge, dwarf-shrub tundra	Wetter area between stone stripes
SW-28	Dry <i>Arctous alpina</i> , <i>Salix phlebophylla</i> , <i>Diapensia lapponica</i> , <i>Dicranum elongatum</i> , <i>Alectoria nigricans</i> , <i>Cetraria nivalis</i> dwarf-shrub, fruticose-lichen tundra	Rocky till deposit on hill crest

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Plot No.	Plant Community	Microsite
SW-29a	Moist <i>Betula nana</i> , <i>Ledum palustre</i> ssp. <i>decumbens</i> , <i>Calamagrostis inexpansa</i> , <i>Salix phlebophylla</i> , <i>Dicranum fuscescens</i> , <i>Cladonia rangiferina</i> dwarf- shrub, grass, fruticose-lichen tundra	Inter-frost-scar areas on stone stripe
SW-29b	Dry <i>Arctous alpina</i> , <i>Luzula arctica</i> , <i>Polytrichum strictum</i> , <i>Alectoria ochroleuca</i> barren	Frost scars on stone stripe
SW-30a	Moist <i>Betula nana</i> , <i>Salix phlebophylla</i> , <i>Cassiope tetragona</i> , <i>Carex bigelowii</i> , <i>Dicranum elongatum</i> , <i>Cladonia</i> <i>rangiferina</i> dwarf-shrub, fruticose-lichen tundra	Inter-frost-scar areas on stone stripe
SW-30b	Dry <i>Salix phlebophylla</i> , <i>Luzula arctica</i> , <i>Diapensia lapponica</i> , <i>Rhacomitrium lanuginosum</i> , <i>Alectoria ochroleuca</i> barren	Frost scars on stone stripe
SW-31	Moist <i>Carex bigelowii</i> , <i>Salix planifolia</i> ssp. <i>pulchra</i> , <i>Petasites</i> <i>frigidus</i> , <i>Dicranum</i> sp., <i>Hylocomium splendens</i> sedge, dwarf-shrub tundra	Wetter area between stone stripes
SW-32a	Moist <i>Cassiope tetragona</i> , <i>Salix phlebophylla</i> , <i>Dicranum</i> <i>elongatum</i> , <i>Cladonia rangiferina</i> dwarf-shrub, fruticose-lichen tundra	Inter-frost-scar areas on stone stripe
SW-32b	Dry <i>Salix phlebophylla</i> , <i>Luzula arctica</i> barren	Frost scars on stone stripe
SW-33	Dry <i>Dryas octopetala</i> , <i>Salix phlebophylla</i> , <i>Hierochloe alpina</i> dwarf-shrub tundra	Dry southwest-facing sandstone outcrop
SW-34	Wet <i>Salix planifolia</i> ssp. <i>pulchra</i> , <i>Eriophorum angustifolium</i> , <i>Petasites frigidus</i> , <i>Drepanocladus uncinatus</i> , <i>Sphagnum</i> spp. low-shrub, sedge tundra	Well developed water track
SW-35a	Moist <i>Salix planifolia</i> ssp. <i>pulchra</i> , <i>Carex bigelowii</i> , <i>Petasites</i> <i>frigidus</i> , <i>Aulacomnium palustre</i> , <i>Sphagnum</i> spp. low- shrub tundra	Tops of weakly developed solifluction lobes in water track margins
SW-35b	Wet <i>Eriophorum angustifolium</i> , <i>Salix planifolia</i> ssp. <i>pulchra</i> , <i>Aulacomnium palustre</i> , <i>Drepanocladus uncinatus</i> , <i>Sphagnum angustifolium</i> , <i>Sphagnum</i> spp., Sedge, moss tundra	Interhummock areas
SW-36a	Wet <i>Salix planifolia</i> ssp. <i>pulchra</i> , <i>Eriophorum angustifolium</i> , <i>Petasites frigidus</i> , <i>Hylocomium splendens</i> , <i>Aulacomnium palustre</i> , <i>Sphagnum</i> spp. low-shrub, sedge tundra	Tops of solifluction hummocks in water tracks
SW-36b	Wet <i>Eriophorum angustifolium</i> , <i>Salix planifolia</i> ssp. <i>pulchra</i> , <i>Drepanocladus uncinatus</i> , <i>Sphagnum</i> spp. sedge, low shrub tundra	Inter-hummock areas in water track
SW-37	Aquatic <i>Sparganium hyperboreum</i> , <i>Hippuris vulgaris</i> , <i>Calliergon sarmentosum</i> forb marsh	Pond in beaded stream
SW-38	Dry <i>Arctous alpina</i> , <i>Vaccinium vitis-idaea</i> , <i>Dicranum</i> <i>elongatum</i> , <i>Cetraria nivalis</i> , <i>Cornicularia divergens</i> , <i>Cladonia</i> spp. dwarf-shrub, fruticose-lichen tundra	Rocky till, shoulder of hill

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Plot No.	Plant Community	Microsite
SW-39	Dry <i>Vaccinium vitis-idaea</i> , <i>Hierochloe alpina</i> , <i>Salix phlebophylla</i> , <i>Dicranum elongatum</i> , <i>Cetraria nivalis</i> , <i>Cladonia</i> spp. dwarf-shrub, fruticose-lichen tundra	Slight depression in dry till at crest of hill
SW-40	Dry <i>Cassiope tetragona</i> , <i>Carex microchaeta</i> , <i>Artemisia arctica</i> , <i>Dicranum</i> sp., <i>Cladonia</i> spp. dwarf-shrub, fruticose-lichen tundra	Snowbed area on east-facing slope
SW-41	Dry <i>Cassiope tetragona</i> , <i>Salix chamissonis</i> , <i>Carex microchaeta</i> , <i>Hylocomium splendens</i> , <i>Cladonia</i> spp., <i>Cetraria</i> spp. dwarf-shrub, fruticose-lichen tundra	Snowbed area on east-facing slope
SW-42	Dry <i>Dryas octopetala</i> , <i>Salix phlebophylla</i> , <i>Cornicularia divergens</i> , <i>Alectoria ochroleuca</i> prostrate-shrub, fruticose-lichen tundra	Exposed sandstone outcrop
SW-43	Dry <i>Salix phlebophylla</i> , <i>Vaccinium vitis-idaea</i> , <i>Arctous alpina</i> , <i>Diapensia lapponica</i> , <i>Cetraria nivalis</i> , <i>Sphaerophorus globosus</i> , <i>Cetraria cucullata</i> prostrate-shrub, fruticose-lichen tundra	Dry till outcrop on ridge
SW-44a	Dry <i>Vaccinium vitis-idaea</i> , <i>Cassiope tetragona</i> , <i>Salix phlebophylla</i> , <i>Carex bigelowii</i> , <i>Dicranum elongatum</i> , <i>Cladonia rangiferina</i> , <i>Cetraria</i> spp., <i>Sphaerophorus globosus</i> dwarf-shrub, fruticose-lichen tundra	Dry portion of stone-stripe complex
SW-44b	Dry <i>Cassiope tetragona</i> , <i>Salix phlebophylla</i> , <i>Luzula arctica</i> , <i>Rhacomitrium lanuginosum</i> barren	Frost scar on stone stripe
SW-45	Moist <i>Carex bigelowii</i> , <i>Salix planifolia</i> ssp. <i>pulchra</i> , <i>Betula nana</i> , <i>Ledum palustre</i> ssp. <i>decumbens</i> , <i>Aulacomnium palustre</i> , <i>Sphagnum</i> spp. sedge, dwarf-shrub tundra	Moist part of stone-stripe complex
SW-46	Moist <i>Betula nana</i> , <i>Rubus chamaemorus</i> , <i>Carex bigelowii</i> , <i>Hylocomium splendens</i> , <i>Sphagnum</i> spp. low-shrub, moss tundra	Footslope, inter-water-track
SW-47	Wet <i>Carex aquatilis</i> , <i>Salix chamissonis</i> , <i>S. fuscescens</i> , <i>Drepanocladus uncinatus</i> , <i>Aulacomnium palustre</i> sedge, dwarf-shrub tundra	Stream bank
SW-48	Moist <i>Betula nana</i> , <i>Carex bigelowii</i> , <i>Vaccinium vitis-idaea</i> , <i>Hylocomium splendens</i> , <i>Aulacomnium turgidum</i> low-shrub tundra	Footslope, inter-water-track
SW-49	Wet <i>Salix planifolia</i> ssp. <i>pulchra</i> , <i>Eriophorum angustifolium</i> , <i>Carex aquatilis</i> , <i>Drepanocladus uncinatus</i> , <i>Hylocomium splendens</i> low-shrub tundra	Well developed water-track
SW-50	Moist <i>Eriophorum vaginatum</i> , <i>Salix planifolia</i> ssp. <i>pulchra</i> , <i>Betula nana</i> , <i>Vaccinium vitis-idaea</i> , <i>Aulacomnium turgidum</i> , <i>Hylocomium splendens</i> tussock-sedge, dwarf-shrub tundra	Stable slope
SW-51	Dry <i>Vaccinium uliginosum</i> , <i>Arctous alpina</i> , <i>Cetraria cucullata</i> , <i>Cladonia</i> spp., <i>Stereocaulon tomentosum</i> dwarf-shrub, fruticose-lichen tundra	Snowbank on south-facing slope

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Plot No.	Plant Community	Microsite
SW-52	Dry <i>Dryas octopetala</i> , <i>Salix phlebophylla</i> , <i>Saxifraga nivalis</i> , <i>Smelowskia calycina</i> , <i>Artemisia arctica</i> , <i>Cetraria nivalis</i> , <i>Cladonia pyxidata</i> dwarf-shrub, fruticose-lichen tundra	Exposed sandstone outcrop, south-facing slope
SW-53	Dry <i>Dryas octopetala</i> , <i>Kobresia myosuroides</i> , <i>Anemone drummondii</i> , <i>Smelowskia calycina</i> , <i>Erigeron muirii</i> , <i>Thamnia subuliformis</i> , <i>Cetraria</i> spp., <i>Cornicularia divergens</i> prostrate-shrub, forb, tundra	Exposed sandstone outcrop, south-facing slope
SW-54	Dry <i>Dryas octopetala</i> , <i>Oxytropis nigrescens</i> , <i>Thamnia subuliformis</i> , <i>Cornicularia divergens</i> prostrate-shrub tundra	Very exposed site on sandstone ridge
SW-55	Moist <i>Cassiope tetragona</i> , <i>Vaccinium vitis-idaea</i> , <i>Salix phlebophylla</i> , <i>Hylocomium splendens</i> , <i>Aulacomnium turgidum</i> , <i>Cladonia</i> spp. dwarf-shrub, moss tundra	Hummocky deep snow-bed on north-facing slope
SW-56	Moist <i>Cassiope tetragona</i> , <i>Salix planifolia</i> ssp. <i>pulchra</i> , <i>Vaccinium vitis-idaea</i> , <i>Hylocomium splendens</i> , <i>Aulacomnium turgidum</i> , <i>Cladonia</i> spp., <i>Cetraria</i> spp. dwarf-shrub, moss tundra	Hummocky deep snow-bed on north-facing slope
SW-57	Dry <i>Cassiope tetragona</i> , <i>Vaccinium uliginosum</i> , <i>Novosieversia glacialis</i> , <i>Vaccinium vitis-idaea</i> , <i>Hylocomium splendens</i> , <i>Rhacomitrium lanuginosum</i> , <i>Cladonia</i> spp., <i>Cetraria</i> spp. dwarf-shrub, fruticose-lichen tundra	Well-drained north-facing snow-bed
SW-58a	Dry <i>Dryas octopetala</i> , <i>Cornicularia divergens</i> , <i>Asahinea chrysantha</i> prostrate-shrub tundra	Very exposed hill crest
SW-58b	Dry <i>Carex rupestris</i> , <i>Minuartia obtusiloba</i> , <i>Silene acaulis</i> , <i>Cornicularia divergens</i> barren	Frost-scar in exposed site
SW-59	Dry <i>Cassiope tetragona</i> , <i>Dryas integrifolia</i> , <i>Vaccinium uliginosum</i> , <i>Salix reticulata</i> , <i>Tomenthypnum nitens</i> , <i>Ptilidium ciliare</i> , <i>Dactylina arctica</i> , <i>Cetraria</i> spp., <i>Thamnia subuliformis</i> dwarf-shrub, fruticose-lichen tundra	Hummocky snow-bed southwest facing
SW-60	Dry <i>Vaccinium uliginosum</i> , <i>Arctous alpina</i> , <i>Dryas octopetala</i> , <i>Rhytidium rugosum</i> , <i>Stereocaulon tomentosum</i> , <i>Cetraria cucullata</i> dwarf-shrub, fruticose-lichen tundra	South-facing snow-bed
SW-61	Moist <i>Eriophorum vaginatum</i> , <i>Salix planifolia</i> ssp. <i>pulchra</i> , <i>Carex bigelowii</i> , <i>Aulacomnium turgidum</i> , <i>Hylocomium splendens</i> tussock-sedge, dwarf-shrub tundra	Gentle northwest-facing slope
SW-62	Moist <i>Eriophorum vaginatum</i> , <i>Salix planifolia</i> ssp. <i>pulchra</i> , <i>Betula nana</i> , <i>Ledum palustre</i> ssp. <i>decumbens</i> , <i>Aulacomnium turgidum</i> , <i>Sphagnum</i> spp., <i>Hylocomium splendens</i> tussock-sedge, dwarf-shrub tundra	Stable level site
SW-63	Dry <i>Rhizocarpon geographicum</i> , <i>Xanthoparmelia separata</i> , <i>X. centrifuga</i> , <i>Cornicularia divergens</i> , <i>Umbilicaria</i> spp. lichen barren	Boulder field
SW-64	Dry <i>Xanthoparmelia centrifuga</i> , <i>Rhizocarpon</i> spp., <i>Lecidea</i> spp., <i>Umbilicaria</i> spp. lichen barren	Boulder field

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Plot No.	Plant Community	Microsite
SW-65	Aquatic <i>Sparganium hyperboreum</i> forb marsh	Beaded pond
SW-66	Aquatic <i>Sparganium hyperboreum</i> forb marsh	Beaded pond
SW-67	Moist <i>Betula nana</i> , <i>Ledum palustre</i> ssp. <i>decumbens</i> , <i>Rubus chamaemorus</i> , <i>Dicranum</i> sp., <i>Cladonia rangiferina</i> dwarf-shrub, moss, fruticose-lichen tundra	Palsa
SW-68	Moist <i>Calamagrostis canadensis</i> , <i>Salix chamissonis</i> , <i>Polemonium acutiflorum</i> grass tundra	Stream bank
SW-69	Dry <i>Luzula arctica</i> , <i>Juncus biglumis</i> barren	Frost scar
SW-70	Dry <i>Vaccinium vitis-idaea</i> , <i>Luzula arctica</i> , <i>Juncus biglumis</i> barren	Frost scar
SW-71	Dry <i>Juncus biglumis</i> , <i>Eriophorum vaginatum</i> barren	Frost scar
SW-72	Moist <i>Salix rotundifolia</i> , <i>Saxifraga rivularis</i> , <i>Saxifraga nelsoniana</i> , <i>Hypnum</i> sp., <i>Stereocaulon tomentosum</i> dwarf-shrub, moss tundra	Very late lying snow-bed
SW-73	Moist <i>Salix rotundifolia</i> , <i>Arnica lessingii</i> , <i>Carex microchaeta</i> , <i>Hypnum</i> sp. dwarf-shrub tundra	Very late lying snow-bed