ANNOTATED LIST OF PLANTS OCCURRING ON THE ARCTIC SLOPE OF ALASKA

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BOTANICAL NAME	COMMON NAME	DISTRIBUTION (See map)										ALTITUDE RANGE (feet above sea level)	ABUNDANCE	FLOWERING PERIOD (months numbered)	HABITAT
		Arctic Slope									Noatak drainage				
		Coastal Plain			Foothills			Mountains							
		West	Central	East	West	Central	East	West	Central	East					
HORSETAIL FAMILY															
1. Equisetum arvense L.	Common horsetail	x	x	x	x	x	x		x	x	x	0-3500	C	7-8	Wet sandy floodplains.
2. E. limosum L.	Swamp horsetail					x						350	L	7-8	Umiat, around oxbow lakes in shallow water.
3. E. palustre L.	Marsh horsetail			x		x	x		x	x	x	350-3500	S	7-8	Wet meadows.
4. E. pratense Ehrh.	Meadow horsetail		x		x	x			x	x		50-3000	C	7-8	Wet grassy drainage slopes.
5. E. scirpoides Michx.	Little horsetail				x	x	x		x	x	x	350-3500	C	6-9	Damp mossy stream margins.
6. E. variegatum Schleich.	Northern horsetail		x	H	x	x	x		x	x	x	50-3500	C	6-9	Damp sandbars and gravel alluvial fans
CLUB-MOSS FAMILY															
7. Lycopodium annotinum L. var. pungens (Lapylaie) Desv.	Stiff club-moss									x	x	3500	L	7-8	Dry rocky mountain saddle, east side of Canning River at 69°20' N.
8. L. selago L. var. adpressum Desv.	Fir club-moss			H	x	x	x		x	x	x	300-5000	C	6-9	Moist crevices in outcrops of limestone, shale, conglomerate, schist, and basalt; mossy slopes.
SPIKEMOSS FAMILY															
9. Selaginella sibirica (Milde) Hieron.	Northern spikemoss				x		x		x	x	x	2000-5000	C	6-9	Dry alpine crevices in outcrops of sandstone, limestone, conglomerate, schist, and basalt.
FERN FAMILY															
10. Cystopteris fragilis (L.) Bernh.	Fragile fern				x	x	x		x	x	H	500-4000	C	7-8	Alpine crevices in outcrops of sandstone, limestone, conglomerate, and schist; also gravel slopes.
11. Dryopteris fragrans (L.) Schott.	Fragrant shield fern					x	x		x	x	x	500-5000	C	7-8	Alpine crevices, especially massive sandstone, also limestone, shale, schist and basalt.
12. Woodsia alpina (Bolton) S.F. Gray	Alpine woodsia						x					1500	L	8	Sandstone crevices, Sadlerochit River valley.
13. W. glabella R.Br.	Smooth woodsia					x	x		x	x	x	400-5000	C	7-8	Alpine crevices in sandstone, limestone, and schist; also gravel slopes.
* W. ilvensis (L.) R.Br.	Rusty woodsia										x	1500	L	7	Gabbro crevices, Nimiuktuk River.
PINE FAMILY															
14. Juniperus communis L. var. montana Ait.	Low juniper						x			x	x	1000-2000	L	6-9	Moist rocky alpine slopes of sandstone, schist, or gravel; Shaviovik and Canning Rivers; also mountain slope 4000 ft, John River at Hunt Fork.
*Picea glauca (Moench) Voss.	White spruce										x	500-1100	L	6-9	There are no natural spruce on the Arctic Slope except perhaps near the Mackenzie River, but a few seedlings transplanted to Umiat have survived several years. Sandy floodplains and south-facing slopes; poor growth in bogs; in Noatak drainage spruce extends from a few miles above Kotzebue to Noatak-Kugururok junction, from here 13 miles east along Noatak and 24 miles north along Kugururok. Along the John River south of Anaktuvuk Pass from Hunt Fork junction spruce extends 7 miles north along John River, to 2000 ft elev., and 10 miles along Hunt Fork, to 2500 ft elev.
BUR-REED FAMILY															
15. Sparganium hyperborum Laest.	Northern bur-reed		?		x	x	x		x		x	0-2500	S	7-8	Pond margins in 2-3 ft of water. Sterile collection from Pt. Barrow.
PONDWEED FAMILY															
16. Potamogeton alpinus Balb. ssp. tenuifolius (Raf.) Fern.	Northern pondweed					x						350	L	8	Submerged aquatic in sandy-bottomed streams and ponds east of Umiat.
17. P. filiformis Pers.	Filiform pondweed					x	x					350-1500	L	8	Submerged aquatic in shallow sandy-bottomed ponds; Umiat and Sadlerochit River.
18. P. pectinatus L.	Fennel-leaved pondweed				x	x				x		350-2000	L	8	Submerged aquatic in shallow sandy-bottomed ponds.
ARROW-GRASS FAMILY															
19. Triglochin maritima L.	Seaside arrow-grass			x		x	x				x	350-1000	S	7-8	Emergent aquatic in wet sedge meadows.
* T. palustris L.	Marsh arrow-grass										x	500	S	7	Wet sedge meadow margins in shallow standing water, Noatak River.
GRASS FAMILY															
20. Agropyron alaskanum Scribn. & Merr.	Alaska wheat-grass					x	x			x		350-1500	S	7-8	Bare sandbars.
21. A. latiglume (Scribn. & Smith) Rydb.	Wheat-grass		x		x	x	x		x	x		0-3500	C	7-8	Bare sandbars.
22. A. sericeum Hitchc.	Wheat-grass					x	x				x	350-2000	C	7-8	Bare sandbars.
23. A. trachycaulum (Link) Malte	Wheat-grass						x					2500	L	7	Sandbars along Sadlerochit River.
24. Alopecurus alpinus Sm.	Mountain foxtail	H	x	x	x	x	x		x	x		0-3500	C	6-7	Wet sedge meadows; lake and stream margins.
25. Arctagrostis latifolia (R. Br.) Griseb.	Arctagrostis	x	x	x	x	x	x		x	x	x	0-4000	A	7-8	Moist meadow slopes; sandbars and cutbanks.
26. Arctophila fulva (Trin.) Rupr.	Arctophila	x	x	x	x	x	x		x	x		0-3000	C	8	Margins of silty-or sandy-bottomed lakes, or slowly moving streams; brackish coastal wet meadows; in water to 4 ft deep or wet soil.
27. Bromus pumpellianus Scribn.	Arctic brome-grass				x	x	x		x	x	x	300-3500	C	7-8	Bare sandbars, cutbanks, lake shores, and rubble slopes.
28. Calamagrostis canadensis (Michx.) Beauv.	Bluejoint					x						1000	L	7	Moist meadow, Maybe Creek.
29. C. inexpansa A. Gray	Northern reed-grass					x	x			x		350-3000	S	7	Moist meadows.
30. C. neglecta (Ehrh.) Gaertn.	Narrow reed-grass	x	x		x	x			x	x	x	0-3500	S	7-8	Wet meadows, sandbars, and silty slopes.
31. C. purpurescens R. Br.	Purple reed-grass					x	x		x	x	x	350-3500	S	7-8	Dry alpine meadows; talus of limestone, sandstone, and gabbro; sandbars.
32. Colpodium wrightii Scribn. & Merr.	Colpodium					x						500	L	7	Silt slope, south face of Red Hill at Umiat.
33. Deschampsia caespitosa (L.) Beauv.	Tufted hair-grass		x			x				x	x				
" ssp. orientalis Hult.		H	x				x		x			350-3000	C	7-8	Bare sandbars, limestone and shale talus slopes.
" var. glauca (Hartm.) Sam.					x		x	x	x						
34. Dupontia fischeri R. Br.	Dupontia	x	x	x								0-100	C	7-8	Wet meadows, with sedges or in pure stands.
" ssp. psilosantha (Rupr.) Hult.		H	x	H	x	x	x		x			0-2500	C	7-8	Wet sedge meadows, thinly scattered in Carex aquatilis stands.
35. Elymus arenarius L. ssp. mollis (Trin.) Hult.	Beach rye-grass	x	x	H							H	0-50	L	8	Pure patches on coastal sand dunes above the strand-line.
36. E. innovatus Beal	Downy rye-grass			x		x	x		x	x	x	350-2500	S	7-8	Sandbars, silty slopes, common on sandstone cutbank outcrops south side of Colville River at Umiat.
37. Festuca altaica Trin.	Rough fescue		x	x	x	x	x		x	x	x	350-3500	C	7-8	Dry sandy river terraces.
38. F. brachyphylla Schult.	Alpine fescue	H	x	x	x	x	x		x	x	x	0-5000	C	6-7	Cutbanks, dry meadows, rubble slopes of sandstone, shale, and limestone.
39. F. rubra L.	Red fescue		x		x	x	x		x	x	x	0-3500	C	7	Sandy floodplains and cutbanks.
40. Hierochloe alpina (Sw.) R.&S.	Alpine holy-grass	x	x	H	x	x	x		x	x	x	0-5500	C	6-7	Dry meadows, cutbanks, rubble slopes, and alpine crevices in sandstone, limestone, shale, & chert.
41. H. odorata (L.) Wahl.	Holy-grass					x						350	L	7	Floodplain sands along Colville River at Umiat.
42. H. pauciflora R. Br.	Arctic holy-grass		x	x	x	x	x			x		0-3000	C	7	Wet sedge meadows and oxbow lake margins.
43. Phippsia algida (Soland.) R. Br.	Phippsia	H	x		x							0-2200	L	7	Disturbed silty soil along coast; bare silty floodplain and bare area under very late snow fields along upper Colville River.
44. Poa alpigena (Fr.) Lindm.	Bluegrass	H	x	H		x	x		x	x	x	0-3000	C	7-8	Sandy floodplains; dry meadows and slopes.
45. P. alpina L.	Alpine bluegrass		x		x			x	x	x		100-5000	S	7	Sandy alpine rubble slopes.
46. P. arctica R. Br.	Arctic bluegrass	x	x	x	x	x	x		x	x		0-4000	A	7-8	Dry meadows and alpine slopes.
47. P. brachyanthera Hult.					x			x	x			2000-6000	L	7	Rocky alpine situations.
48. P. glauca Vahl	Glaucous speargrass	H	x	H	x	x	x		x	x		0-5000	C	7-8	Floodplain sands, cutbanks, alpine rubble slopes.
49. P. hispidula Vasey	Hispid bluegrass				x							2200	L	7	Dry south-facing slope along Nuka River.
50. P. Komarovii Roshew.			H												Habitat unknown; Pt. Barrow.
51. P. lanata Scribn. & Merr.	Lanate bluegrass				H				x			2500	L	7	Dry alluvial fan, east side of Anaktuvuk pass; also Pt. Hope area.
52. P. paucispicula Scribn. & Merr.	Bog bluegrass				x			x	x			2000-4000	L	7	Wet bare late snow areas.
53. P. stenantha Trin.						x						350	L	7	Habitat unknown, probably floodplain sandbar, Umiat.
54. P. sp.					x			x	x	x		2500-4000	S	7	New species, tufted, 4-6 inches high, basal leaves 1-2 inches long from tan papery sheaths, panicle of 5-15 small spiklets. Dry sandy alpine meadows and slopes.
55. Puccinellia angustata (R. Br.) Rand & Redfield		H													Habitat unknown, Pt. Lay.
56. P. hauptiana (Krecz.) Kit.	Alkali-grass					x	x					350-2000	S	7-8	Bare wet silty floodplains, and lake shores. (See P. interior in Hulten 1941-1950)
57. P. paupercula (Holm) Fern. & Weath.	Arctic alkali-grass	H	x	x						x		0-3500	S	7	Wet silty soil. (See P. langeana in Hulten 1941-1950)
58. Puccinellia phryganoides (Trin.) Scribn. & Merr.	Creeping alkali-grass	x	x	x								0-10	L	7	Silty tidal-zone flats along Arctic coast.
59. Trisetum spicatum (L.) Richt.	Downy oat-grass	H	x	x	x	x	x		x	x		0-4500	A	6-7	Floodplains, cutbanks, dry meadows; crevices in limestone, sandstone and shale.
60. T. sibiricum Rupr.				H									L		Habitat unknown; King Pt., Arctic coast of Yukon Territory.
SEDGE FAMILY															
61. Carex albo-nigra Mack.										x		4000	L	7	Sunny silty slopes west of Lake Schrader.
62. C. aquatilis Wahl.	Water sedge	x	x	x	x	x	x	x	x	x	x	0-3500	A	7-8	Wet sedge meadows; stream and lake margins; very abundant.
63. C. atrofusca Schk.						x						500	L	7	Dry slopes at Umiat.
64. C. aurea Nutt.				x								800	L	7	Sagavanirktok River forks wet meadow; also along John River South of Anaktuvuk Pass.
65. C. bicolor All.						x	x		x		x	350-3000	S	7	Wet silty soil; wet sedge meadow margins.
66. C. bigelowii Torr. & Schwein.		x	x	x	x	x	x		x	x	x	0-3500	C	7-8	Niggerhead tundra meadows.
67. C. capillaris L.	Hair-like sedge				x	x	x		x	x	x	350-3000	C	7-8	Dry meadows, knolls, slopes.
68. C. capitata L.	Capitate sedge					x	x			x	H	1000-2500	L	7	Dry river terrace meadows.
69. C. chordorrhiza Ehrh.	Creeping sedge		x	x	x	x	x		x	x		0-3000	C	7-8	Wet sedge meadows; wet river terraces.
70. C. concinna R. Br.				x							x	1000	S	7	Wet meadow, Sagavanirktok River; mossy floor of white spruce woods, Noatak River terrace.
71. C. garberi Fern. ssp. bifaria Fern.											x		L	7	Habitat unknown, probably dry mountain slope, Canning River.
72. C. glacialis Mack.						x							L	7	Habitat unknown, Umiat area.
73. C. glareosa Wahl.			H	x	x	x	x				x	2000-3500	S	7-8	Stream and wet sedge meadow margins; late snow areas.
74. C. gynocrates Wormsk.			x												Habitat unknown; Price River.
75. C. krausei Boeckl.				x		x	x		x	x		350-3500	S	7-8	Dry river terrace meadows.
76. C. lachenalii Schk.?			x		x	x	x		x	x		0-3000	C	7-8	Margins of small streams and wet sedge meadows; occasionally in shallow water. (This may be C. neurocleana Holm)
77. C. lugens Holm						x	x				x	350-2000	S	7-8	Sedge meadows along river terraces.
78. C. maritima Gunn.	Seaside sedge	H	x	x	x		x		x			0-3000	S	7-8	Sandy shores of lakes and streams.
79. C. membranacea Hook.	Fragile sedge		x	x	x	x	x		x	x	x	0-3500	C	7-8	Wet sandy stream margins; occasionally in wet sedge meadows.
80. C. microglochin Wahl.	Northern uncinia					x	x		x			350-2000	S	7	Wet sedge meadows.
81. C. misandra R. Br.	Short-leaved sedge		x	x	x	x	x		x	x	x	0-4000	C	7-8	Dry meadows; rocky slopes of sandstone and limestone; occasional in wet sedge meadows.
82. C. montanensis L. H. Bailey	Mountain sedge			x	x	x	x		x	x		500-3500	C	7-8	Cutbanks and moist valleys of small mountain streams.
83. C. nardina Fr.			x	x			x		x	x		0-3500	S	7-8	Dry slopes and meadows; limestone slopes.
84. C. neurocleana Holm						x						350		7	Habitat unknown. (see C. lachenalii Schk.)
85. C. obtusata Lilj.					x	x	x		x	x	x	350-3500	C	7	Dry meadows and south-facing rubble slopes.
86. C. physocarpa Presl				x	x	x	x		x	x	x	350-3500	C	7-8	Stream margin sands.
87. C. podocarpa R. Br.	Long-awned arctic sedge				x		x	x	x			2000-4000	C	7-8	Sedge meadows; damp rocky alpine slopes.
88. C. ramenskii Komarov		x	x										L	7	Coastal wet sedge meadows.
89. C. rariflora (Wahl.) Smith	Loose-flowered alpine sedge	H	x	x	x	x	x		x	x	x	0-3500	C	7-8	Higher portions of wet sedge meadows out of standing water.
90. C. rotundata Wahl.	Round-fruited sedge	x		x	x	x			x		x	0-2500	S	7-8	Wet sedge meadows in shallow standing water.
91. C. rupestris All.	Rock sedge			x	x	x	x		x	x	x	350-3500	C	7-8	Dry alpine meadows; rubble slopes of limestone and sandstone.
92. C. scirpoidea Michx.	Single-spike sedge		x	x	x	x	x		x	x	x	0-5000	A	6-7	Dry meadows, alpine rubble slopes of limestone, sandstone, conglomerate, shale, and chert; also on river sands and gravels.
93. C. stylosa C. A. Mey.						x							S	7	Sedge meadows, Colville River and Etivluk River.