

Soil Survey of the Delta River Area, Alaska

Ecological Site Description

Depressions, Flooded (R228XY552AK)

Ecological Site Characteristics

Site Type: Rangeland

Site Name: Depressions, Flooded

Site ID: R228XY552AK (Old: R173XY552AK)

Major Land Resource 228 - Interior Alaska Mountains

Ecoregion Classification

Section: Alaska Mountains (M135A)

Subsection(s): Glaciated Uplands (M135A.G1)

Physiographic Features

Elevation (feet): 2,848 to 2,999

Slope Gradient (percent): 0 to 1

Aspect (clockwise direction): non-influencing

Landform: flood plains

	Frequency	Duration	Beginning Month	Ending Month
Flooding:	Occasional	Brief	May	Sep

Ponding: None

Climatic Features

Annual Precipitation 22 to 24

Annual Air Temperature (°F): 25 to 25

Frost Free Days: 50 to 70

Soil Features

Parent Materials: grassy organic material over gravelly till

Rooting Depth (inches): RV: 29 Range: 13 to 52

Soil Layers and Properties within Representative Rooting Depth:

Layers are described from the surface downward. If more than one texture is listed, the predominant texture is listed first. AWC = available water capacity.

pH = hydrogen ion activity in the soil using the 1:1 soil-water ratio method. CEC = cation exchange capacity.

Thickness (inches)	Texture	Permeability	AWC (inches/inch)	pH	Effective CEC (me/100g)	CEC (me/100g)
29	peat	moderately rapid	.34	5.8		80

Restrictive Features: strongly contrasting textural stratification at 38 inches

Drainage Class: very poorly drained

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Vegetation Features

Common Vegetation Types:

Vegetation Type	Ecological Status
Diamondleaf willow/sedge scrub	Climax plant community

Vascular Plant Species Richness:

Vegetation Type	Total	Per Stand			Number of Stands
		Min.	Avg.	Max.	
Diamondleaf willow/sedge scrub	20	6	8	11	3

Characteristics of Diamondleaf willow/sedge scrub

Ecological Status: Climax plant community

Plant Species Cover, Constancy, and Importance:

Number of stands sampled = 5. Only those vascular, lichen, and bryophyte species with average cover $\geq 5\%$ and constancy $\geq 15\%$ are listed. Importance value equals the square root of Percent Constancy times Average Cover.

Stratum	Symbol	Scientific Name	Percent Canopy Cover			Percent Constancy	Importance Value
			Min.	Avg.	Max.		
SL-SM	SAPL2	Salix planifolia	15.0	38	80	60	48
GM-GT	CAAQ	Carex aquatilis	25.0	45	55	60	52
GT	CACA4	Calamagrostis canadensis	15.0	20	25	40	28
GM	ARLA8	Arnica latifolia	10.0	10	10	20	14
FD	POPA14	Potentilla palustris	25.0	25	25	20	22
FD	EQFL	Equisetum fluviatile	15.0	15	15	20	17
FD	ZZFORB	unknown-forbs	5.0	5	5	20	10
L	LICHEN	total lichens	0.0	0	0	60	0
M	MOSS	total bryophytes-mosses and liverworts	10.0	17	25	60	32
B	LITTER	litter-herbaceous, mulch, and woody debris <2.5 cm	5.0	22	45	60	36
B	WATER	water	5.0	17	25	60	32
B	SOIL	mineral-bare soil	0.0	5	15	60	17
B	LITTER2	litter-woody debris >2.5 cm	0.0	0	0	60	0
B	ROCK	mineral-surface rock fragments	0.0	0	0	60	0

Map Unit Components

Component Name (Classification):

Shand
(Loamy-skeletal, euic Terric Cryosaprists)

Soil Map Units

Only those map units in which the landtype is a major component are listed. The landtype also may occur as a minor component in other map units.

Symbol: Map Unit Name:

IM Shand-Bolio-Fels complex, 0 to 60 percent slopes

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M135A.G1—Alaska Mountains. Glaciated Uplands Subsection



Figure 7. Cross section of map units, soils, ecological sites, and potential natural communities in the Alaska Mountains. Interior Glaciated Uplands Subsection (M135A.G1) (Delta River Area, Soil Survey).

