

## Organic Depressions, Very Wet (135A\_534)

### Ecoregion Classification

**Section:** Cook Inlet Lowlands (135A)

**Subsection(s):** Glaciated Lowlands (135A.G1)

### Physiographic Features

**Elevation (meters):** RV Range  
 274 76 to 757

**Slope Gradient (percent):** 6 0 to 15

**Aspect (clockwise direction):** non-influencing

**Landform:** bogs on hills; bogs on mountains; bogs on till plains

**Landform Positions:** footslopes

	<i>Frequency</i>	<i>Duration</i>	<i>Beginning Month</i>	<i>Ending Month</i>	<i>Depth (cm)</i>
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**Flooding:** None

**Ponding:** Frequent Very long May Sep to

### Climatic Features

**Annual Precipitation (millimeters):** RV Range  
 1,053 536 to 2,174

**Annual Air Temperature (°C):** 0.8 -1.0 to 1.0

**Frost Free Days:** 90 70 to 100

### Soil Features

**Parent Materials:** mossy organic material and/or grassy organic material

**Rooting Depth (cm):** RV: 112 Range: 53 to 150

#### 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. CEC = cation exchange capacity.

Thickness (cm)	Texture	Permeability	AWC (cm/cm)	pH	Effective CEC (me/100g)	CEC (me/100g)
42 to 70	peat	moderately rapid	.34	3.3	30	

**Water Table (May to September):** 0 cm

**Drainage Class:** very poorly drained

### Vegetation Features

#### Common Vegetation Types:

**Vegetation Type**

Tufted bulrush-few-flowered sedge wet meadow

**Ecological Status**

Climax plant community

#### Ecological Status-Transition Description:

A single plant community with tufted bulrush-few-flowered sedge wet meadow is identified on this site. No transitional pathways to other communities have been identified for this site.

#### Vascular Plant Species Richness:

Vascular plant species richness is based on 1999-2002 field season data only. Data from 1997 and 1998 were not used in the calculations.

Vegetation Type	Total	Per Stand			Number of Stands
	Min.	Avg.	Max.		
Tufted bulrush-few-flowered sedge wet meadow	103	29	38	69	7

### Notable Plants:

Notable plants include rare plants, range extensions, and plants little known from Denali National Park and Preserve.

#### Vegetation Type

Tufted bulrush-few-flowered sedge wet meadow

#### Symbol

CACH5	Carex chordorrhiza
CAECP	Carex echinata ssp. phyllomanica
CAHE4	Carex heleonastes
ERV19	Eriophorum viridicarinatum
GEDO	Gentiana douglasiana
JUSTA	Juncus stygius ssp. americanus
SCPAA	Scheuchzeria palustris ssp. americana
TOGLB	Tofieldia glutinosa ssp. brevistyla

#### Scientific Name

### Characteristics of Tufted bulrush-few-flowered sedge wet meadow

**Ecological Status:** Climax plant community

#### Plant Species Cover, Constancy, and Importance:

Cover, constancy, and importance are based on 1997-2002 field season data. Number of stands sampled = 7. Only those vascular, lichen, and bryophyte species with average cover >=5% and constancy >=15% are listed.

Stratum	Symbol	Scientific Name	Percent Canopy Cover			Percent Constancy	Importance Value
			Min.	Avg.	Max.		
GM	TRCE3	Trichophorum cespitosum	30.0	50	70	100	71
GM	CAPA19	Carex pauciflora	10.0	21	30	86	42
GM	CALI7	Carex limosa	1.0	5	15	57	17
GM	CARO7	Carex rotundata	1.0	5	10	57	17
GM	TRAL7	Trichophorum alpinum	0.1	5	10	29	12
FD	COCA13	Cornus canadensis	2.0	7	15	43	17
L	LICHEN	total lichens	0.0	0	0	100	0
M	MOSS	total bryophytes-mosses and liverworts	85.0	91	100	100	95
M1	SPHAG2	Sphagnum	70.0	85	95	100	92
M1	ZZMOSS	unknown-mosses	0.1	5	10	100	22
B	LITTER	litter-herbaceous, mulch, and woody debris <2.5 cm	15.0	36	70	100	60
B	WATER	water	1.0	8	15	100	28
B	LITTER2	litter-woody debris >2.5 cm	0.0	0	0	100	0
B	SOIL	mineral-bare soil	0.0	0	0	100	0
B	ROCK	mineral-surface rock fragments	0.0	0	0	100	0

#### Stratum Height:

Stratum height is based on 1997-2002 field season data. All plant species and ground layer records from all stands are included in the calculations.

Stratum Name	Included Strata	Height			Units	Number of Records
		Min.	Avg.	Max.		
Low shrubs	SL	30.0	40.0	50.0	cm	2
Dwarf shrubs	SD	3.0	10.3	20.0	cm	4
Tall and medium grasses and grass-likes	GT, GM	16.0	31.0	70.0	cm	6
Tall and medium forbs	FT, FM	20.0	45.0	70.0	cm	2
Dwarf herbs, lichens, and bryophytes	GD, FD, L, M	2.0	5.5	30.0	cm	10

### Mapunit Components

#### Common Name (Soils Name):

Boreal-sedge bog organic depressions (Typic Cryofibrists, dysic)

#### 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: Common Name (Soils Name):

12B	Boreal Bogs (Typic Cryofibrists, dysic-Fluvaquentic Cryohemists, dysic Complex, 0 to 2 percent slopes)
12HS2	Boreal Glaciated Hills and Plains (Andic Humicryods, medial over loamy-skeletal-Thaptic Cryaquands, medial over loamy-skeletal-Typic Cryofibrists, dysic Association, 0 to 20 percent slopes)

### ***Geographically Associated Landtypes***

#### ***135A\_359 -- Till Slopes:***

This site occurs on well drained soils. The climax plant community is "Mixed paper birch-white spruce forest."

#### ***135A\_362 -- Till Slopes, Wet:***

This site occurs on adjacent uplands. The climax plant community is "Mixed white spruce-paper birch/Sitka alder forest."

#### ***135A\_535 -- Organic Depressions:***

This site occurs on slightly higher positions. The climax plant community is "Black spruce/few-flowered sedge woodland."

### ***Similar Landtypes***

#### ***135A\_500 -- Loamy Wet Flood Plains:***

This site has a thick loamy surface mantle. The climax plant community is "Thinleaf alder-mixed willow scrub."

#### ***135A\_501 -- Organic High Flood Plains, Very Wet:***

This site occurs on flood plains. The climax plant community is "Water horsetail-marsh five finger-buckbean wet