

# Major Land Resource Area 236X

## Bristol Bay-Northern Alaska Peninsula Lowlands

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### Ecological site keys

#### MLRA 236

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##### I. Boreal Climatic Zone

###### A. Upland

###### 1 Escarpments on Mountains and Hills

- i. Planar to concave slope shape ... F236XY114AK – Boreal Forest Loamy Wet, Steep Slopes
- ii. Planar to convex slope shape ... F236XY113AK – Boreal Forest Loamy Steep Slopes

###### 2 All Other Mountain, Hill & Plains Landforms

###### i. Mountains

###### a. Glaciated & Rugged Mountains

- 1) Loamy, frozen soil; all aspects ... F236XY202AK – Boreal Forest Frozen Loamy Slopes
- 2) Silty, wet soil; warm slopes ... F236XY201AK – Boreal Open Forest Wet Loamy Warm Mountain Slopes

###### b. Rounded, non-glaciated mountains; colluvial backslopes ... F236XY115AK – Boreal Forest Loamy Moist Slopes

###### ii. Hills and Plains

###### a. Swale and Depression Features

- 1) Swales ... F236XY152AK – Boreal Forest Volcanic Loamy Swales
- 2) Depression Features ... F236XY117AK – Boreal Forest Wet Loamy Plain Drainageways

###### b. All Other Landforms

- 1) Adjacent to gallery forest or within a few miles of Nushagak River ... F236XY139AK – Boreal Woodland Loamy Rises
- 2) Not As Above

- a) Planar to Concave Slopes (common near Aleknagik, often surrounded by wetlands) ... F236XY117AK – Boreal Forest Wet Loamy Plain Drainageways

- b) Planar to Convex Slopes

- (1) Loess, wet soils ... F236XY116AK – Boreal Forest Loamy Wet Slopes

- (2) Silty, moist soils

- (a) Nearly level terrain; low slope gradient, high slope length ... F236XY157AK – Boreal Woodland Moist Loamy Plains

- (b) Undulating or rolling terrain ... F236XY115AK – Boreal Forest Loamy Moist Slopes

###### B. Lowland

###### 1 Terraces ... F236XY165AK – Boreal Woodland Loamy Stream Terraces

###### 2 Floodplain

- i. Unbraided river channels at higher elevations: tributaries to Nushagak and Mulchatna Rivers, generally over 60m elevation ... F236XY176AK – Boreal Woodland Loamy Flood Plains
- ii. Braided river systems at lower elevations: along Nushagak River or other braided glacial river systems, generally below 60m elevation

a. Floodplains

1) Low Floodplain

- a) In a channel/depression ... R236XY163AK – Boreal Herbaceous Loamy Flood Plain Sloughs
- b) Not in a channel/depression ... R236XY153AK – Boreal Willow Silty Low Flood Plains

2) Mid and High Floodplains

a) Mid Floodplains

- (1) In a channel ... R236XY155AK – Boreal Scrub Loamy Flood Plains, Wet
- (2) Not in a channel
  - (a) Long ponding period ... R236XY120AK – Boreal Open Scrub Loamy Mid Flood Plains
  - (b) Short or absent ponding period
    - (1) Landscape cut by deep river channel ... R236XY119AK – Boreal Scrubland Sandy Flood Plains
    - (2) Deep river channel absent
      - (a) Somewhat poorly drained, proximal to flood source ... R236XY158AK – Boreal Tall Scrub Gravelly Flood Plains
      - (b) Well drained to somewhat poorly drained, distal from flood source ... R236XY121AK – Boreal Tall Scrub Loamy Flood Plains

b) High Floodplains

- (1) Ponding present ... F236XY150AK – Boreal Forest Loamy Wet Flood Plains
- (2) Ponding absent ... F236XY111AK – Boreal Forest Loamy Flood Plains

b. Floodplain microfeature

- 1) Linear depression ... R236XY172AK – Boreal Dwarf Scrub Peat Flood Plains Depressions
- 2) Levee ... R236XY118AK – Boreal Graminoid Loamy Flood Plains

II. Western Maritime Climatic Zone

A. Upland

1 Escarpments

- i. Along coastline ... R236XY175AK – Subarctic Scrub Loamy Steep Coastal Bluffs
- ii. Along drainageway or river ... R236XY174AK – Subarctic Mosaic Loamy Steep Bluffs

2 Not an escarpment

i. Plains and Hills

- a. Surface gravels present ... R236XY132AK – Subarctic Dwarf Scrub Dry Loamy Slopes

b. Surface gravels absent

- 1) Earth hummocks present ... R236XY102AK – Subarctic Dwarf Scrub Gravelly Slopes
- 2) Earth hummocks absent
  - a) Steep slopes less than three (3) meters in length ... R236XY128AK – Western Alaska Maritime Dwarf Scrub Loamy Slopes, Steep
  - b) Slopes otherwise
    - (1) Concave microfeatures
      - (a) Swales
        - (1) Circular swale ... R236XY151AK – Subarctic Open Willow Loamy Plain Swales
        - (2) Linear swale ... R236XY154AK – Subarctic Ericaceous Scrub Loamy Plain Swales
      - (b) Depressions
        - (1) Adjacent to large glacial lake ... R236XY127AK – Subarctic Sedge Peat Plain Depressions

(2) Not adjacent to a large glacial lake ... R236XY109AK – Subarctic Low Scrub Peat Drainages

(2) Rolling and undulating hills and plains

(a) Exposed convex slopes of tall, rolling landscape; lake margins ... R236XY124AK – Subarctic Tall Scrub Loamy Convex Hillslopes

(b) Not as above

(1) On or surrounded by peat mounds ... R236XY131AK – Subarctic Tussock-Scrub Frozen Plains

(2) Not as above

(a) Exposed slopes (convex/convex), and long (400+ meters) slopes with <1% slope gradient ... R236XY132AK – Subarctic Dwarf Scrub Dry Loamy Slopes

(b) Linear/Linear and Linear/Convex slopes

(1) Proximal to organic drainageway or depression

(a) Warmer climate, forested (coastal) ... F236XY171AK – Subarctic Woodland Loamy Slopes

(b) Cooler climate, non-forested (Inland positions) ... R236XY140AK – Subarctic Tussock Tundra Wet Loamy Plains

(2) Not proximal to organic drainageway or depression

(a) Areas of increased out-flow ... R236XY130AK – Subarctic Scrub Scrub Tundra Loamy Plains and Hills

(b) Areas of increased in-flow

(1) Well drained soil ... R236XY130AK – Subarctic Scrub Scrub Tundra Loamy Plains and Hills

(2) Very poorly drained soil ... R236XY204AK – Subarctic Low Scrub Loamy Glaciated Hill Depressions

## ii. Mountains

### a. Rounded Mountains

1) Summits, Shoulders, Upper Backslopes

a) Alpine ... R236XY104AK – Alpine Dwarf Scrub Gravelly Slopes

b) Subalpine ... R236XY106AK – Subarctic Dwarf Scrub Dry Loamy Slopes

2) Lower Backslopes and Footslopes ... R236XY131AK – Subarctic Tussock-Scrub Frozen Plains

### b. Not as above

1) Depressions ... R236XY103AK – Subarctic Graminoid Loamy Mountain Depressions

2) Slopes (Summits, Shoulders, Backslopes, Footslopes)

a) Summits and Shoulders ... R236XY104AK – Alpine Dwarf Scrub Gravelly Slopes

b) Backslopes and Footslopes

(1) Well drained soil

(a) Concave to Linear slope shape ... R236XY105AK – Subarctic Scrub Mosaic Gravelly Hillslopes

(b) Convex to Linear slope shape ... R236XY106AK – Subarctic Dwarf Scrub Dry Loamy Slopes

(2) Poorly drained soil ... R236XY203AK – Subarctic Tall Scrub Wet Loamy Mountain Slopes

## B. Lowlands

### 1 Plains (non-coastal) Concave Microfeatures

i. Depressions ... R236XY110AK – Western Alaska Maritime Graminoid Loamy Depressions

ii. Drainageways

- a. Wider than 10m across ... R236XY109AK – Subarctic Low Scrub Peat Drainages
- b. Narrower than 10 meter across
  - 1) Surrounding slopes >10% ... R236XY136AK – Subarctic Low Scrub Loamy Plain Drainages
  - 2) Surrounding slopes <10% ... R236XY107AK – Western Alaska Maritime Scrub Gravelly Drainages

## 2 Coastal Plains and Floodplains

### i. Coastal Plains

#### a. Plains

- 1) Presence of surface soil or rock fragments
  - a) Surface gravel present ... R236XY133AK – Subarctic Graminoid Loamy Tidal Coastal Plains
  - b) Surface gravel absent ... R236XY170AK – Subarctic Graminoid Loamy Coastal Plain Rises
- 2) Absence of surface soil or fragments
  - a) Adjacent to tidal gut ... R236XY135AK – Western Alaska Maritime Scrub Loamy Plains, Coastal
  - b) Not adjacent to tidal gut ... R236XY170AK – Subarctic Graminoid Loamy Coastal Plain Rises

- b. Depression on coastal plain (surface water present) ... R236XY129AK – Subarctic Low Scrub Peat Coastal Plains

### ii. Floodplains & Terraces

#### a. Terraces

- 1) On Nushagak River corridor (or similarly braided glacial river system)
  - a) Linear depression on terrace ... R236XY144AK – Subarctic Scrub Peat Terraces
  - b) Terrace talf ... R236XY156AK – Subarctic Ericaceous Scrub Loamy Terraces
- 2) Not as above ... R236XY144AK – Subarctic Scrub Peat Terraces

#### b. Floodplains

- 1) Floodplain depression ... R236XY163AK – Boreal Herbaceous Loamy Flood Plain Sloughs
- 2) Floodplain
  - a) Convex slope, run off medium to high ... R236XY173AK – Subarctic Riparian Complex Loamy Flood Plains
  - b) Linear slope, surface water may be present ... R236XY108AK – Subarctic Graminoid Peat Flood Plains