

# Major Land Resource Area 237X

## Ahklun Mountains

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### Ecological site keys

#### AK637

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I. Miscellaneous Areas - unvegetated

II. Vegetated Areas - supports an ecological site

A. Western Maritime, High Elevation (Uplands, Mountains)

1 Summits, Shoulders, Upper Mtn Backslopes

i. Summits & Shoulders - shallow to lithic contact, no glacial parent material ... R237XY217AK – Western Alaska Maritime Dwarf Scrubland Gravelly Slopes, High Elevation

ii. Summits & Shoulders - Moderately deep to lithic contact, glacial parent material present. R237XY217AK

iii. Very Steep Backslopes - high elevation, very gravelly ... R237XY219AK – Western Alaska Maritime Dwarf Scrubland Gravelly Slopes, Very Steep

2 Backslopes & Foothills - concave upper backslopes and foothills on upper third of mountains ... R237XY218AK – Western Alaska Maritime Dwarf Scrubland Gravelly Slopes, Concave

3 Drainageways - upper third of mountain slopes (alpine), slope alluvium, gravelly soil ... R237XY206AK – Western Alaska Maritime Dwarf Scrubland Loamy Drainage, High Elevation

4 Swales - upper third of mountain slopes (alpine), slope alluvium ... R237XY205AK – Western Alaska Maritime Scrubland Loamy Swales

B. Western Maritime, Low Elevation

1 Uplands

i. Plains and Terraces

a. Depressions ... R237XY208AK – Western Alaska Maritime Scrubland Peat Depressions

b. Undulating and Rolling Landforms

1) Convex Positions & High Linear positions shallow to sandy-skeletal material (well drained soil) ... R237XY201AK – Western Alaska Maritime Scrubland Gravelly Slopes

2) Linear positions (well-drained soils), short slope length ... R237XY204AK – Western Alaska Maritime Scrubland Loamy Slopes

3) Swales (Concave positions). R237XY205AK

c. Outwash Plains (slightly convex) ... R237XY215AK – Western Alaska Maritime Scrubland Loamy Plains

d. Linear Landforms

1) Earth hummocks present

a) Mosaic hummocks (microtopography creates unique veg communities on tops and bottoms of hummocks) ... R237XY220AK – Western Alaska Maritime Mosaic Loamy Hummocks

b) Non-mosaic hummocks ... R237XY222AK – Western Alaska Maritime Scrubland Loamy Hummocks

e. Talf - adjacent to rises. R237XY230AK

ii. Mountains & Hills

a. Alluvial Fans

- b. Backslopes
  - 1) Linear to concave, center and upper third slopes ... R237XY202AK – Western Alaska Maritime Mosaic Gravelly Slopes
  - 2) Convex to linear slopes, center and upper third slopes. R237XY204AK
- c. Footslopes & Toeslopes
  - 1) Swales. R237XY205AK
  - 2) Linear to Concave slopes ... R237XY230AK – Western Alaska Maritime Scrubland Silty Plains and Mountain Slopes, Lower
  - 3) Convex to Concave Slopes, not a swale
    - a) Proximal to northern three-quarters of Togiak Lake ... F237XY221AK – Boreal Woodland Loamy Slopes
    - b) Linear to Concave sites. R237XY202AK
    - c) Convex sites. R237XY204AK
- d. Summits & Shoulders, upper third of slopes

## 2 Lowlands

- i. Drainageways - steep escarpments; gravelly, well-drained soils ... R237XY203AK – Western Alaska Maritime Scrubland Gravelly Drainage, Escarpment
- ii. Floodplains
  - a. Low Floodplain - frequent flooding, often confined by escarpments ... R237XY210AK – Western Alaska Maritime Scrubland Gravelly Flood Plains
  - b. Mid Floodplain - occasional flooding, moderately well to well drained ... R237XY211AK – Western Alaska Maritime Scrubland Loamy Flood Plains
  - c. Mid Floodplain - occasional flooding, somewhat poorly to poorly drained ... R237XY212AK – Western Alaska Maritime Scrubland Silty Flood Plains
  - d. Mid to High Floodplain along Izaveiknik River - occasional to rare flooding ... F237XY216AK – Boreal Woodland Loamy Flood Plains
  - e. Broad Floodplain / Terrace - no to rare flooding. F237XY212AK
  - f. Depressions on Floodplain
    - 1) Organic depression. R237XY208AK
    - 2) Mineral depression ... R237XY226AK – Western Alaska Maritime Grassland Peat Flood Plains, Depression
- iii. Discharge Slopes, Fans, Seeps on Mountains ... F237XY239AK – Boreal Forest Loamy Slopes
- iv. Shore Complexes
  - a. Depressions. R237XY208AK
  - b. Talf ... R237XY236AK – Western Alaska Maritime Graminoid Peat Plains
  - c. Rises
    - 1) Windward side of berm, proximal to bay ... R237XY223AK – Western Alaska Maritime Graminoid Gravelly Plains, Berms
    - 2) Leeward side of berm, set back from bay ... R237XY224AK – Western Alaska Maritime Scrubland Gravelly Plains, Berms

## MLRA 237 Key - PES project

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### I. Western Alaska Maritime Climate Zone

#### A. High Elevation (Uplands & Mountains)

##### 1 Summits, Shoulders and Mountain Slopes

i. Summits and Shoulders

- a. Permafrost present - unsorted circles possible ... R237XY251AK – Western Alaska Alpine Dwarf Scrubland, Unsorted Circles
- b. Permafrost absent ... R237XY217AK – Western Alaska Maritime Dwarf Scrubland Gravelly Slopes, High Elevation

ii. Mountain Slopes

- a. Convex to linear slopes - very steep, very gravelly soil ... R237XY219AK – Western Alaska Maritime Dwarf Scrubland Gravelly Slopes, Very Steep
- b. Concave to linear slopes; mountain flanks and mountain bases ... R237XY218AK – Western Alaska Maritime Dwarf Scrubland Gravelly Slopes, Concave

2 Concave Microfeatures on Mountain Slopes

- i. Drainageways - upper third of mountain slopes, slope alluvium and gravelly soil ... R237XY206AK – Western Alaska Maritime Dwarf Scrubland Loamy Drainage, High Elevation
- ii. Swales - upper third of mountain slopes (alpine), slope alluvium ... R237XY205AK – Western Alaska Maritime Scrubland Loamy Swales

B. Low Elevation

1 Uplands

i. Plains

- a. Depressions ... R237XY208AK – Western Alaska Maritime Scrubland Peat Depressions
- b. Other Landforms

1) Non-Linear Landforms

- a) Outwash Plains ... R237XY215AK – Western Alaska Maritime Scrubland Loamy Plains
- b) Other Landforms
  - (1) Concave to linear slopes, including swales ... R237XY205AK – Western Alaska Maritime Scrubland Loamy Swales
  - (2) Convex and linear upper slope positions; well drained soil ... R237XY201AK – Western Alaska Maritime Scrubland Gravelly Slopes

2) Linear Landforms

- a) Earth hummocks present
  - (1) Mosaic hummocks ... R237XY220AK – Western Alaska Maritime Mosaic Loamy Hummocks
  - (2) Non-mosaic hummocks ... R237XY222AK – Western Alaska Maritime Scrubland Loamy Hummocks
- b) No earth hummocks present
  - (1) Undulating drift plains - short slope lengths, well drained soil ... R237XY204AK – Western Alaska Maritime Scrubland Loamy Slopes
  - (2) Talf ... R237XY230AK – Western Alaska Maritime Scrubland Silty Plains and Mountain Slopes, Lower

ii. Mountains and Hills

a. Mountain and Hill Slopes

- 1) Drainageway ... R237XY255AK – Western Alaska Maritime Tall Scrubland Mountain and Hill Drainageways
- 2) Other
  - a) Backslopes, shoulders & center to upper third mountain flanks
    - (1) Slopes with earth hummocks ... R237XY256AK – Western Alaska Maritime Tussock-Scrub Mountain Slopes, Hummocked
    - (2) Slopes without earth hummocks
      - (a) Concave to linear slope shape (Colluvial backslopes) ... R237XY202AK – Western

Alaska Maritime Mosaic Gravelly Slopes

(b) Convex to linear slope shape (more stable slope position) ... R237XY204AK – Western Alaska Maritime Scrubland Loamy Slopes

b) Footslopes, toeslopes, lower backslopes and mountain bases

(1) Swales ... R237XY205AK – Western Alaska Maritime Scrubland Loamy Swales

(2) Other

(a) Moderately well drained soil (linear to concave slopes) ... R237XY230AK – Western Alaska Maritime Scrubland Silty Plains and Mountain Slopes, Lower

(b) Well to excessively well drained soil (convex to concave slopes)

(1) Proximal to northern three-quarters of Togiak Lake ... F237XY221AK – Boreal Woodland Loamy Slopes

(2) Not proximal to northern three-quarters of Togiak Lake

(a) Linear to concave slopes ... R237XY202AK – Western Alaska Maritime Mosaic Gravelly Slopes

(b) Linear to convex sites ... R237XY204AK – Western Alaska Maritime Scrubland Loamy Slopes

b. Other Mountain and Hill Landforms

1) Alluvial fans

a) Shallow to root restrictive layer ... F237XY221AK – Boreal Woodland Loamy Slopes

b) Very deep to root restrictive layer ... F237XY239AK – Boreal Forest Loamy Slopes

2) Saddles - earth hummocks present ... R237XY256AK – Western Alaska Maritime Tussock-Scrub Mountain Slopes, Hummocked

2 Lowlands

i. Flood Plains and Coastal Plains

a. Flood Plains & Terraces

1) Flood Plains & Terraces - linear slopes

a) Flood Plain

(1) Flood Plain along Izaveiknik River - mid to high floodplain ... F237XY216AK – Boreal Woodland Loamy Flood Plains

(2) Other Flood Plains

(a) Low Flood Plains

(1) Proximal to river system, frequent flooding ... R237XY210AK – Western Alaska Maritime Scrubland Gravelly Flood Plains

(2) Distal from river system, less than frequent flooding ... R237XY268AK – Western Alaska Maritime Scrubland on Low Flood Plains, distal from river

(b) Mid Flood Plains

(1) Moderately well to well drained soil ... R237XY211AK – Western Alaska Maritime Scrubland Loamy Flood Plains

(2) Somewhat poorly to poorly drained soil ... R237XY212AK – Western Alaska Maritime Scrubland Silty Flood Plains

b) Terrace

(1) Hummocks absent ... R237XY212AK – Western Alaska Maritime Scrubland Silty Flood Plains

(2) Hummocks present ... R237XY257AK – Western Alaska Maritime Low Scrub Flood Plain Terrace, Hummocks

2) Microfeatures on Flood Plains & Terraces - concave

a) Depressions on Flood Plains

(1) Scrub wetland, very poorly drained ... R237XY208AK – Western Alaska Maritime

## Scrubland Peat Depressions

(2) Herbaceous wetland (grassland) - permanent water table, very long ponding ...

R237XY226AK – Western Alaska Maritime Grassland Peat Flood Plains, Depression

b) Oxbow Lake ... R237XY258AK – Western Alaska Maritime Sedge-Shrub Oxbow Lakes

## b. Coastal Plains

### 1) Shore Complex

#### a) Berms

(1) Windward side of berm, proximal to bay ... R237XY223AK – Western Alaska Maritime Graminoid Gravelly Plains, Berms

(2) Leeward side of berm, distal from bay ... R237XY224AK – Western Alaska Maritime Scrubland Gravelly Plains, Berms

#### b) Other (not a rise)

(1) Depression ... R237XY208AK – Western Alaska Maritime Scrubland Peat Depressions

(2) Talf ... R237XY236AK – Western Alaska Maritime Graminoid Peat Plains

### 2) Not a Shore Complex

a) Tidal Flats ... R237XY254AK – Western Alaska Maritime Grassland Tidal Flats, Subaqueous

b) Flood Plain ... R237XY264AK – Western Alaska Maritime Tall Shrub Coastal Flood Plain

## ii. Other Landforms

a. Discharge Slopes & Seeps on Mountains ... F237XY239AK – Boreal Forest Loamy Slopes

b. Drainageways - steep escarpments, gravelly, well drained soil ... R237XY203AK – Western Alaska Maritime Scrubland Gravelly Drainage, Escarpment

## II. Boreal Climate Zone

A. Rounded Mountains - subalpine, linear to concave, backslopes to footslopes ... F237XY259AK – Boreal Subalpine Woodland on Slopes of Rounded Mountains

### B. Rugged Mountains

#### 1 Alpine and Subalpine

##### i. Alpine

a. Summits and Shoulders - Convex ... R237XY270AK – Boreal Alpine Dwarf Scrub Mountain Summits and Shoulders, Convex

b. Summits and Shoulders - Linear ... R237XY260AK – Boreal Alpine Tussock Mountain Summits and Shoulders, Linear

ii. Subalpine - linear to concave backslopes and footslopes ... F237XY265AK – Boreal Subalpine Woodland on Slopes of Rugged Mountains

#### 2 Other

##### i. Backslopes and Footslopes

a. Linear to Convex slopes ... F237XY261AK – Boreal Forest Mountain Backslopes and Footslopes, Linear to Convex

b. Linear to Concave slopes ... F237XY262AK – Boreal Forest Mountain Backslopes and Footslopes, Linear to Concave

ii. Drainageways ... F237XY263AK – Boreal Woodland Mountain Drainageway