

# 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 & Foothlopes - concave upper backslopes and foothlopes 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**