

Major Land Resource Area 230X Yukon-Kuskokwim Highlands

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Ecological site keys

Nulato Hills AK630 Survey_ full key

I. Maritime

A. Coastal Plains

1 Berms - R240XY136AK

2 Talfs

i. Scrub Coastal Plain - R240XY135AK

ii. Grass Tidal Plains and Depressions - R240XY139AK

B. All Other Landforms

1 Plains

i. Lava Flow (or Proximal to Lava Flow)

a. Lava Flow

1) Lava flow - R240XY151AK

2) Swale on lava flow - R240XY150AK

b. Proximal to lava flow

1) Boulder field - well drained - R240XY155AK

2) Tussock tundra - poorly drained - R240XY166AK

ii. Other Landforms

a. Polygonal ground - R240XY169AK

b. Non-polygonal ground

1) Concave landforms

a) Organic soil - swale, drainageway, depression - R240XY162AK

b) Mineral soil

(1) Drainageway - R240XY160AK

(2) Swale - R240XY161AK

2) Linear and Convex landforms and microfeatures

a) Plain talf - R240XY166AK

b) Peat mounds - R240XY162AK

2 Mountains and Hills

i. Dunes and Sandy Ridges ... F230XY113AK – Woodland Terrace, non-thermokarst

ii. All Other Landforms

a. Hills and Low Elevation Mountains

1) Volcanic Cones

a) Backslopes, warm - R240XY153AK

b) Backslopes and shoulders, moist - R240XY180AK

2) Slopes - broad, bedrock controlled

a) Upper Mountain Sites - summits, shoulders, upper backslopes & saddles

(1) Summits & Shoulders

(a) Summits - R240XY183AK

(b) Shoulders - R240XY182AK

(2) Upper Backslopes and Saddles

(a) Slopes

(1) Upper Backslopes

(a) Dry slopes

(1) Linear - R240XY181AK

(2) Exposed - R240XY186AK

(b) Moist slopes - R240XY150AK

(2) Saddles - R240XY168AK

(b) Slope microfeatures: depressions & mounds - R240XY162AK

b) Other Slopes

(1) Drainageway & associated flood plain - R240XY160AK

(2) Slopes

(a) Backslopes and Noseslopes

(1) Lower elevation - alder slopes

(a) Dryer sites - R240XY150AK

(b) Moist sites - R240XY180AK

(2) Higher elevations - ericaceous scrub

(a) Dry sites - R240XY168AK

(b) Moist sites - R240XY181AK

(b) Headslopes and Footslopes

(1) Boulders present - R240XY155AK

(2) Boulders absent

(a) Forest sites - F240XY146AK

(b) Scrub sites

(1) Swales and Narrow Headslopes - R240XY172AK

(2) Headslopes of wide valley - R240XY173AK

b. High Elevation Mountains

1) Summits, Shoulders and Upper Backslopes

a) Alpine

(1) Summits - R240XY183AK

(2) Other Landforms

(a) Shoulders

(1) Warm Slopes - R240XY185AK

(2) Cold Slopes - R240XY184AK

(b) Upper Backslopes - R240XY182AK

b) Subalpine

(1) Permafrost absent - R240XY181AK

(2) Permafrost present - R240XY168AK

2) Other Mountain Positions

a) Drainageways

(1) Heather scrub valley terrace ... R230XY112AK – Scrub Terrace, poorly drained

(2) Willow drainage - poorly drained

b) Backslopes

(1) Very steep slope - R240XY186AK

(2) Slopes less than 45%

(a) Linear to convex slope - R240XY186AK

(b) Linear to concave slope

(1) Wetter sites - swales and concave lower backslopes - R240XY187AK

(2) Drier sites - linear to concave mid backslopes - R240XY180AK

II. Boreal

A. Organic depressions ... R230XY100AK – Open Scrub Organic Depressions

B. Other Landforms

1 Mountains and Hills

i. Saddles ... R230XY131AK – Subalpine Open Tall Scrub Saddles

ii. Other Mountain Positions

a. Summits, Shoulders and Convex Backslopes ... F230XY102AK – Woodland Low Mountain Slopes, dry

b. Other Mountain Positions

1) Headslopes ... F230XY121AK – Woodland Tall Mountain Backslopes, wet

2) Backslopes and Toeslopes

a) Backslopes

(1) Steep, dry slopes - F240XY193AK

(2) Other Backslopes

(a) Warmer, drier slopes

(1) Mixed woodland ... F230XY105AK – Open Forest Hill Slopes, steep

(2) Spruce woodland ... F230XY102AK – Woodland Low Mountain Slopes, dry

(b) Wetter slopes ... F230XY102AK – Woodland Low Mountain Slopes, dry

b) Toeslopes and Footslopes

(1) Colder, wetter areas ... F230XY103AK – Woodland Low Mountain Slopes, wet

(2) Warmer, drier areas ... F230XY102AK – Woodland Low Mountain Slopes, dry

2 Flood Plains and Valleys

i. Thermokarst Landscape ... F230XY108AK – Woodland Terrace, thermokarst

ii. Non-thermokarst Landscape

a. Drainages on Flood Plains and Terraces ... R230XY119AK – Closed Scrub Valley Flood Plain, poorly drained

b. Flood Plains and Terraces

1) Flood Plains

a) Depressions on Flood Plain ... R230XY109AK – Meadow Floodplain Depression

b) Flood Plains

(1) River Flood Plain

(a) Braided river system ... F230XY110AK – Forest Floodplain, braided river system

(b) Mountain stream system ... R230XY111AK – Open Scrubland Valley Flood Plain, somewhat poorly drained

(2) Mountain Drainage ... R230XY119AK – Closed Scrub Valley Flood Plain, poorly drained

2) Terraces

a) Depression on Terrace ... R230XY100AK – Open Scrub Organic Depressions

b) Terraces

(1) Earth hummocks absent ... R230XY112AK – Scrub Terrace, poorly drained

(2) Earth hummocks present ... F230XY113AK – Woodland Terrace, non-thermokarst

AK630 Survey_MLRA 230 only

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1 Mountains and Hills

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a. Summits, Shoulders and Convex Backslopes ... F230XY102AK – Woodland Low Mountain Slopes, dry

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2) Backslopes and Toeslopes

a) Backslopes

(1) Steep, dry slopes - F240XY193AK

(2) Other Backslopes

(a) Warmer, drier slopes

(1) Mixed woodland ... F230XY105AK – Open Forest Hill Slopes, steep

(2) **Spruce woodland** ... F230XY102AK – Woodland Low Mountain Slopes, dry

(b) **Wetter slopes** ... F230XY102AK – Woodland Low Mountain Slopes, dry

b) Toeslopes and Foothills

(1) **Colder, wetter areas** ... F230XY103AK – Woodland Low Mountain Slopes, wet

(2) **Warmer, drier areas** ... F230XY102AK – Woodland Low Mountain Slopes, dry

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b) Flood Plains

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(b) **Mountain stream system** ... R230XY111AK – Open Scrubland Valley Flood Plain, somewhat poorly drained

(2) **Mountain Drainage** ... R230XY119AK – Closed Scrub Valley Flood Plain, poorly drained

2) Terraces

a) Depression on Terrace ... R230XY100AK – Open Scrub Organic Depressions

b) Terraces

(1) **Earth hummocks absent** ... R230XY112AK – Scrub Terrace, poorly drained

(2) **Earth hummocks present** ... F230XY113AK – Woodland Terrace, non-thermokarst

MLRA_230

I. Boreal

A. Organic depressions ... R230XY100AK – Open Scrub Organic Depressions

B. Other Landforms

1 Mountains and Hills

i. Saddles ... R230XY131AK – Subalpine Open Tall Scrub Saddles

ii. Other Mountain Positions

a. Summits, Shoulders and Convex Backslopes ... F230XY102AK – Woodland Low Mountain Slopes, dry

b. Other Mountain Positions

1) Headslopes ... F230XY121AK – Woodland Tall Mountain Backslopes, wet

2) Backslopes and Toeslopes

a) Backslopes

(1) Steep, dry slopes - F240XY193AK

(2) Other Backslopes

(a) Warmer, drier slopes

(1) Mixed woodland ... F230XY105AK – Open Forest Hill Slopes, steep

(2) Spruce woodland ... F230XY102AK – Woodland Low Mountain Slopes, dry

(b) Wetter slopes ... F230XY102AK – Woodland Low Mountain Slopes, dry

b) Toeslopes and Footslopes

(1) Colder, wetter areas ... F230XY103AK – Woodland Low Mountain Slopes, wet

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(2) Mountain Drainage ... R230XY119AK – Closed Scrub Valley Flood Plain, poorly drained

2) Terraces

a) Depression on Terrace ... R230XY100AK – Open Scrub Organic Depressions

b) Terraces

- (1) **Earth hummocks absent** ... R230XY112AK – Scrub Terrace, poorly drained
- (2) **Earth hummocks present** ... F230XY113AK – Woodland Terrace, non-thermokarst

MLRA 230X Provisional Ecological Site Key

I. Flooding Landforms

- A. **Flood Plains - no permafrost, no ponding** ... R230XY601AK – Boreal Forest Flood Plain Complex
- B. **Drainages - permafrost, ponding** ... R230XY610AK – Boreal Scrub Silty Frozen Drainages

II. Not as above

- A. **Organic Slope Depressions** ... R230XY606AK – Boreal Sedge Peat Depressions
- B. **Slopes - not as above**

1 Alpine & Subalpine Climate

i. Alpine

- a. **Soils without a growing season water table, commonly well drained soils** ... R230XY630AK – Alpine Dwarf Scrub Gravelly Slopes
- b. **Soils with a very shallow water table, commonly poorly drained soils** ... R230XY634AK – Alpine Sedge Gravelly Frozen Slopes

ii. Subalpine

- a. **Water table between 20 and 40 inches in June, commonly somewhat poorly drained soils.** ... R230XY632AK – Subalpine Tall Scrub Gravelly Moist Slopes
- b. **Soils without a growing season water table, commonly well drained soils** ... R230XY633AK – Subalpine Scrub Loamy Slopes

2 Boreal Slopes

i. Wetland Soils (Poorly to Very Poorly Drained)

- a. **Frequent, long ponding, very poorly drained; includes peat plateaus** ... R230XY620AK – Boreal Peat Frozen Flats Complex
- b. **Soils do not pond but have a very shallow water table; poorly drained.** ... F230XY611AK – Boreal Forest Loamy Frozen Slopes

ii. Upland Soils

- a. **Moist Soils. Water table commonly at 10-20 inches during extended portions of the growing season (somewhat poorly drained).** ... F230XY613AK – Boreal Forest Loamy Moist Slopes
- b. **Drier Soils**

1) Slope mostly >20% ... F230XY615AK – Boreal Deciduous Forest Loamy Steep Slopes

2) Slope mostly <20%

a) Warm Slopes, thin (<6") organic cap ... F230XY612AK – Boreal Forest Loamy Slopes

b) Cool Slopes, thick (>6") organic cap ... F230XY614AK – Boreal Black Spruce Unfrozen Well Drained Slopes