

# LANDFIRE Biophysical Setting Model

**Biophysical Setting 7617310**

**Aleutian Oval-leaf Blueberry Shrubland**

☐ This BPS is lumped with:

☐ This BPS is split into multiple models:

## General Information

**Contributors** (also see the Comments field) **Date** 7/1/2009

**Modeler 1** Kori Blankenship kblankenship@tnc.org **Reviewer**

**Modeler 2** Keith Boggs ankwb@uaa.alaska.edu **Reviewer**

**Modeler 3** **Reviewer**

### Vegetation Type

Upland Shrubland

### Map Zone

76

### Model Zone

- |                                            |                                            |
|--------------------------------------------|--------------------------------------------|
| <input checked="" type="checkbox"/> Alaska | <input type="checkbox"/> N-Cent.Rockies    |
| <input type="checkbox"/> California        | <input type="checkbox"/> Pacific Northwest |
| <input type="checkbox"/> Great Basin       | <input type="checkbox"/> South Central     |
| <input type="checkbox"/> Great Lakes       | <input type="checkbox"/> Southeast         |
| <input type="checkbox"/> Northeast         | <input type="checkbox"/> S. Appalachians   |
| <input type="checkbox"/> Northern Plains   | <input type="checkbox"/> Southwest         |

### Dominant Species\*

VAOV COSU4  
ATFI SACA14  
CHANA ACMIB  
CACA4 GECA6

### General Model Sources

- ☐ Literature  
☐ Local Data  
☒ Expert Estimate

### Geographic Range

This system occurs in the Aleutian Islands.

### Biophysical Site Description

This system grows primarily on low- to mid-elevation mountain slopes of the Aleutian Islands (NatureServe 2008).

### Vegetation Description

Total low-shrub cover is >25%, and *Vaccinium ovalifolium* typically contributes >50% of the total shrub cover (NatureServe 2008). Herbaceous species and dwarf-shrubs are common, including *Athyrium filix-femina*, *Chamerion angustifolium* ssp. *angustifolium*, *Calamagrostis canadensis*, *Cornus suecica*, *Sanguisorba canadensis*, *Achillea millefolium* var. *borealis*, and *Geum calthifolium* (NatureServe 2008). *Empetrum nigrum* may also be common (NatureServe 2008).

### Disturbance Description

This appears to be a stable late seral system. Fire and other disturbances were not observed.

### Adjacency or Identification Concerns

This type occurs adjacent to Aleutian Crowberry-Herbaceous Heath (BpS 1719) and Aleutian Mesic Herbaceous Meadow (BpS 1651).

### Native Uncharacteristic Conditions

This type is not departed from its "Reference Condition."

### Scale Description

Small to large patch

\*Dominant Species are from the NRCS PLANTS database. To check a species code, please visit <http://plants.usda.gov>.

\*\*Fire Regime Groups are: I: 0-35 year frequency, surface severity; II: 0-35 year frequency, replacement severity; III: 35-100-year frequency, mixed severity; IV: 35-100+ year frequency, replacement severity; V: 200+ year frequency, replacement severity

## Issues/Problems

## Comments

This model was created by Kori Blankenship and Keith Boggs based on information from the draft Aleutians Ecological Systems description (NatureServe 2008).

## Vegetation Classes

### Class A 100 %

#### Structure Data (for upper layer lifeform)

Mid Development 1 All Structures

#### Upper Layer Lifeform

- ☐ Herbaceous  
☒ Shrub  
☐ Tree

#### Indicator Species\* and Canopy Position

VAOV Upper  
RUSP Upper  
SALIX Upper

|                 | Min                             | Max                             |
|-----------------|---------------------------------|---------------------------------|
| Cover           | Open Shrub (25-74% shrub cover) | Open Shrub (25-74% shrub cover) |
| Height          | Low Shrub (20 cm to 1.5 m)      | Low Shrub (20 cm to 1.5 m)      |
| Tree Size Class | None                            |                                 |

☐ Upper layer lifeform differs from dominant lifeform.

#### Description

Zero plus years

This class represents the Oval-leaf Blueberry Shrubland. See Vegetation Description for more information on species composition.

No disturbances modeled.

### Class B 0 %

#### Structure Data (for upper layer lifeform)

[Not Used] [Not Used]

#### Upper Layer Lifeform

- ☐ Herbaceous  
☐ Shrub  
☐ Tree

#### Indicator Species\* and Canopy Position

|                 | Min | Max |
|-----------------|-----|-----|
| Cover           |     |     |
| Height          |     |     |
| Tree Size Class |     |     |

☐ Upper layer lifeform differs from dominant lifeform.

#### Description

### Class C 0 %

#### Structure Data (for upper layer lifeform)

[Not Used] [Not Used]

#### Upper Layer Lifeform

- ☐ Herbaceous  
☐ Shrub  
☐ Tree

#### Indicator Species\* and Canopy Position

|                 | Min | Max |
|-----------------|-----|-----|
| Cover           |     |     |
| Height          |     |     |
| Tree Size Class |     |     |

☐ Upper layer lifeform differs from dominant lifeform.

#### Description

\*Dominant Species are from the NRCS PLANTS database. To check a species code, please visit <http://plants.usda.gov>.

\*\*Fire Regime Groups are: I: 0-35 year frequency, surface severity; II: 0-35 year frequency, replacement severity; III: 35-100-year frequency, mixed severity; IV: 35-100+ year frequency, replacement severity; V: 200+ year frequency, replacement severity

**Class D**     0 %

[Not Used] [Not Used]

**Upper Layer Lifeform**

- ☐ Herbaceous  
☐ Shrub  
☐ Tree

**Indicator Species\* and  
Canopy Position**

**Structure Data (for upper layer lifeform)**

|                 | Min | Max |
|-----------------|-----|-----|
| Cover           |     |     |
| Height          |     |     |
| Tree Size Class |     |     |

☐ Upper layer lifeform differs from dominant lifeform.

**Description**

**Class E**     0 %

[Not Used] [Not Used]

**Upper Layer Lifeform**

- ☐ Herbaceous  
☐ Shrub  
☐ Tree

**Indicator Species\* and  
Canopy Position**

**Structure Data (for upper layer lifeform)**

|                 | Min | Max |
|-----------------|-----|-----|
| Cover           |     |     |
| Height          |     |     |
| Tree Size Class |     |     |

☐ Upper layer lifeform differs from dominant lifeform.

**Description**

**Disturbances**

**Fire Regime Group\*\*:** NA

**Historical Fire Size (acres)**

Avg 0  
Min 0  
Max 0

**Sources of Fire Regime Data**

- ☐ Literature  
☐ Local Data  
☒ Expert Estimate

**Fire Intervals**

|             | Avg FI | Min FI | Max FI | Probability | Percent of All Fires |
|-------------|--------|--------|--------|-------------|----------------------|
| Replacement |        |        |        |             |                      |
| Mixed       |        |        |        |             |                      |
| Surface     |        |        |        |             |                      |
| All Fires   |        |        |        |             |                      |

**Fire Intervals (FI):**

Fire interval is expressed in years for each fire severity class and for all types of fire combined (All Fires). Average FI is central tendency modeled. Minimum and maximum show the relative range of fire intervals, if known. Probability is the inverse of fire interval in years and is used in reference condition modeling. Percent of all fires is the percent of all fires in that severity class.

**Additional Disturbances Modeled**

- ☐ Insects/Disease    ☐ Native Grazing    ☐ Other (optional 1)  
☐ Wind/Weather/Stress    ☐ Competition    ☐ Other (optional 2)

**References**

NatureServe. 2008. International Ecological Classification Standard: Terrestrial Ecological Classifications. Draft Ecological Systems Description for the Alaska Aleutians Region.

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