

Major Land Resource Area 004A

Sitka Spruce Belt

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Ecological site keys

MLRA 4A

I. Site is located within the Northern Sitka Spruce Belt Land Resource Unit A (LRU 4AA). This unit occurs on the west coast of the Olympic Peninsula north of the Chehalis River in Washington.

A. Site is commonly found on floodplains and stream terraces.

1 Site is located on levee and river terraces that are affected by flooding. It is often forested, and common overstory species are primarily Sitka spruce and black cottonwood. Understory species are predominantly vine maple, salmonberry, western swordfern, and Oregon oxalis. ... F004AA001WA – Udic Flood Plain Forest

2 Site is found in depressions, oxbows, and back swamps. It is often forested, and common overstory species include Sitka spruce and red alder. Understory species are predominately salmonberry, devilsclub, American skunkcabbage, and common ladyfern. ... F004AA002WA – Aquic Flood Plain Forest

3 Site is found on oxbows, back swamps, and channels that have a seasonal high water table. Soils are typically anaerobic during part of the growing season. It is often non-forested, and the most common species are bog labrador tea and sedges. ... R004AA003WA – Aquic Flood Plain

B. Site is located in a low-lying water table recharge area and has soils that are typically ponded during the growing season.

1 Site is located in forested depressions on glacial drift plains with a seasonal high water table. Common overstory species include western redcedar, western hemlock, and Sitka spruce. Understory species include American skunkcabbage and deer fern. ... F004AA004WA – Aquic Forest

2 Site is located in non-forested bogs, fens, or depressions on glacial drift plains with a seasonal high water table. Soils are typically anaerobic during part of the growing season. Common species include bog labrador tea, western bog laurel, sedges, and sphagnum mosses. ... R004AA005WA – Bog or Fen

C. Site is found on glacial drift plains.

1 Site is located on coastal headlands and hills influenced by wind pruning and salt spray. These sites primarily feature stunted krummholz conifers. The most common overstory species includes Sitka spruce and shore pine. Common understory species include salal, evergreen huckleberry, false lily of the valley, and western brackenfern. ... F004AA402WA – Coastal Headland

2 Site not as above. Typically, the site is forested and trees are erect. The most common overstory species include Sitka spruce and western hemlock. Understory species are primarily evergreen huckleberry, salal, western swordfern, and Oregon oxalis. ... F004AA400WA – Coastal Upland Forest

II. Site is located within the Central Sitka Spruce Belt Land Resource Unit B (LRU 4AB). This unit occurs along the west coast between the Chehalis River in Washington and South Slough in Oregon.

A. Site is commonly found on flat floodplains and stream terraces.

1 Site is located on levee and river terraces. It is often forested, and common overstory species are primarily Sitka spruce and red alder. Understory species are predominantly salmonberry, rusty menziesia, common ladyfern, and Oregon oxalis. ... F004AB006OR – Udic Flood Plain Forest

2 Site is found in depressions, oxbows, and back swamps. It is often forested, and common overstory species include Sitka spruce and red alder. Understory species are predominately salmonberry, American skunkcabbage, and slough sedge. ... F004AB007OR – Aquic Flood Plain Forest

3 Site is found on oxbows, back swamps, and channels that have a seasonal high water table. Soils are typically anaerobic during part of the growing season. It is often non-forested, and the most common species

are Douglas spirea, American skunkcabbage, and slough sedge. ... R004AB008OR – Aquic Flood Plain
4 Site is a tidally influenced, brackish-riverine system. Common plants include Sitka spruce, shore pine, Hooker willow, evergreen huckleberry, Pacific silverweed, and Lyngby sedge. ... F004AB009OR – Tidally Influenced Riverine Forest

B. Site is located in a low-lying water table recharge area and has soils that are typically ponded during the growing season.

1 Site is located in forested depressions with a high seasonal water table. Common overstory species include western redcedar, western hemlock, and Sitka spruce. Understory species include American skunkcabbage and slough sedge. ... F004AB010OR – Aquic Forest

2 Site is located in non-forested bogs, fens, or depressions with a seasonal high water table. Soils are typically anaerobic during part of the growing season. Common species include western labrador tea, western bog laurel, sedges, and sphagnum mosses. ... R004AB011OR – Bog or Fen

C. Site is found on coastal uplands.

1 Site occurs on convex headlands or bluffs that are exposed to high winds and salt spray. Soils are generally shallow or moderately deep to bedrock. These sites may locally be known as balds or prairies. The most common species include salal, black crowberry, Canada goldenrod, cascade desertparsley, Pacific reedgrass, and red fescue. ... R004AB406OR – Coastal Bluff

2 Site is forested and located on wave cut terraces that are influenced by coastal salt spray. Common species include Sitka spruce, salal, salmonberry, western swordfern, and false lily of the valley. ... F004AB405OR – Coastal Salt Spray Forest

3 Site is located on coastal headlands, hills, and marine terraces that are exposed to high winds and salt spray. These sites primarily feature stunted krummholz conifers. The most common overstory species include Sitka spruce and shore pine. Common understory species include salal, salmonberry, western brackenfern, and Pacific reedgrass. ... F004AB407OR – Coastal Headland

4 Site is forested and located on coastal hills, mountains, and headlands that are exposed to high winds and salt spray. The most common species include Sitka spruce, western hemlock, salal, salmonberry, western swordfern, and false lily of the valley. ... F004AB403WA – Coastal Upland Cool Forest

5 Site is forested and located on mountain hillsides, terraces, and ridges. This site is located along the MLRA 4a and MLRA 1 transition zone. Common species include western hemlock, Sitka spruce, Douglas-fir, rusty menziesia, red huckleberry, western swordfern, and common ladyfern. ... F004AB404WA – Coastal Upland Warm Forest

D. The site is found along beach zones.

1 The site is located in a tidally influenced lowlands. The site is non-forested, and the most common species include pickleweed, Pacific silverweed, saltgrass, seaside arrowgrass, Lyngbye's sedge, and common threesquare. ... R004AB200OR – Tidal Marsh and Estuary

2 The site is located in areas commonly described as dune slack and features a seasonally-high water table within 50 cm of the surface. The site is typically non-forested. Common plants include Hooker willow, California wax myrtle, Pacific silverweed, and slough sedge. ... R004AB203OR – Aquic Interdune

3 The site is located on a strand or dune and is still actively reworked by eolian processes. This site is typically non-forested, and common species include coastal sand verbena, American searocket, and American dunegrass. ... R004AB201OR – Foredune Scrub and Grassland

4 The site is located on a stabilized dune that no longer moves due to eolian processes. The site is typically forested, and common species include Sitka spruce, shore pine, salal, evergreen huckleberry, and western brackenfern. ... F004AB202OR – Dune Forest

III. Site is located in the Southern Sitka Spruce Belt Land Resource Unit C (LRU 4AC). This unit occurs along the west coast between South Slough and the Chetco River in Oregon.

A. Site is commonly found on floodplains and stream terraces associated.

1 Site is located on levee and river terraces. The site is typically forested, and common overstory species are primarily Sitka spruce and red alder. Understory species are predominantly salmonberry, salal, and common ladyfern. ... F004AC012OR – Udic Flood Plain Forest

2 Site is found in depressions, oxbows, and back swamps that have a seasonal high water table. The site is typically forested, and common overstory species include Sitka spruce and red alder. Understory species are predominately salmonberry and American skunkcabbage. ... F004AC013OR – Aquic Flood Plain Forest

3 Site is found on oxbows, back swamps, and channels that have a seasonal high water table. Soils are typically anaerobic during part of the growing season. The site is typically non-forested, and most common species are Douglas spirea, American skunkcabbage, and slough sedge. ... R004AC014OR – Aquic Flood Plain

B. Site is located in a low-lying water table recharge area and has soils that are typically ponded during the growing season.

1 Site is forested and located in depressions, marine terraces, and seeps on mountain slopes. Common plant species include western hemlock, Sitka spruce, and American skunkcabbage. ... F004AC015OR – Aquic Forest

2 Site is located in non-forested bogs, fens, or depressions with a seasonal high water table. Soils are typically anaerobic during part of the growing season. Common species include western labrador tea, California wax myrtle, sedges, and sphagnum mosses. ... R004AC016OR – Bog or Fen

C. Site is found on coastal uplands.

1 Site occurs on convex headlands or bluffs that are exposed to high winds and salt spray. Soils are generally shallow or moderately deep to bedrock. These sites may locally be known as balds or prairies. The site is non-forested, and the most common species include kinnikinnick, black crowberry, Canada goldenrod, cascade desertparsley, Pacific reedgrass, and red fescue. ... R004AC411OR – Coastal Bluff

2 Site is located coastal hills, mountains, and headlands that are exposed to high winds and salt spray. The site is typically forested, and most common species include Sitka spruce, white fir, evergreen huckleberry, salmonberry, and western swordfern. ... F004AC409OR – Coastal Upland Cool Forest

3 Site is forested and located on mountain hillsides, terraces, side slopes, and ridges. This site is located along the MLRA 4a and MLRA 1 transition zone. Common species include Sitka spruce, salal, red huckleberry, and western swordfern. ... F004AC410OR – Coastal Upland Warm Forest

D. The site is found along beach zones.

1 The site is non-forested and is located in a tidally influenced lowlands. The most common species include pickleweed, Pacific silverweed, saltgrass, seaside arrowgrass, and Lyngbye's sedge. ... R004AC204OR – Tidal Marsh and Estuary

2 The site is located in a dune slack and features a seasonally-high water table within 50 cm of the surface. The site is typically non-forested, and common plants include willows, California wax myrtle, sedges, and rushes. ... R004AC207OR – Aquic Interdune

3 The site is located on a strand or dune and is still actively reworked by eolian processes. This site is typically non-forested, and common species include coastal sand verbena, American searocket, and American dunegrass. ... R004AC205OR – Foredune Scrub and Grassland

4 The site is located on a stabilized dune that no longer moves due to eolian processes. This site is typically forested, and common species include Sitka spruce, shore pine, California wax myrtle, and evergreen huckleberry. ... F004AC206OR – Dune Forest