

**Species** 

Penstemon cardwellii

Cardwell's Penstemon

### Range

Cascade Mountains, and coast range of Oregon

#### Climate, elevation

Wide range of climates at mid-high elevations

#### Local occurrence

Found from northern Skamania County in southern Washington south through the Cascades to the Klamath region in southwestern Oregon, and west to the Coast Range where it is found northwards to Tillamook County, OR. Also found in the Columbia River Gorge.

# **Habitat preferences**

Common in open forest, forest edges, open, often rocky slopes, and cutbanks. Prefers light shade to full sun. Tolerant of deer, drought, heat and humidity.

# Plant strategy type/successional stage

Late seral to climax species

# **Associated species**

Rubus spp., Ribes spp., Alnus sinuata, Agrostis diegoensis, Luzula parviflora, Anaphalis

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margaritacea.

#### May be collected as:

Seed, Cuttings

# **Collection restrictions or guidelines**

Allow pods to dry on plant, break open to collect seeds

### **Seed germination**

1-3 months at 13-18°C. Then germinate barely covered in late spring, early fall.

#### **Seed life**

Long shelf life

### **Recommended seed storage conditions**

Sealed containers around 1° to 3°

#### **Propagation recommendations**

From woody stem cuttings: plant in late summer

From seed: direct sow outdoors in late spring, early fall

Winter sow in vented containers, coldframe or unheated greenhouse

Stratify if sowing indoors

## Soil or medium requirements

pH 5-7.5

#### **Installation form**

Seed, cuttings

## Recommended planting density

Not available

# Care requirements after installed

Water regularly, do not overwater

# Normal rate of growth or spread; lifespan

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### Perennial

# Spreading – sprawls across ground rooting at nodes

#### **Sources cited**

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#### Data compiled by

Kelly Sutton

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