

CORVALLIS PLANT MATERIALS CENTER
NATURAL RESOURCES CONSERVATION SERVICE
CORVALLIS, OREGON
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THE 2007 LASSEN VOLCANIC NATIONAL PARK ANNUAL REPORT:
Visitors' Center Landscape Project

I. Brief Background of Project

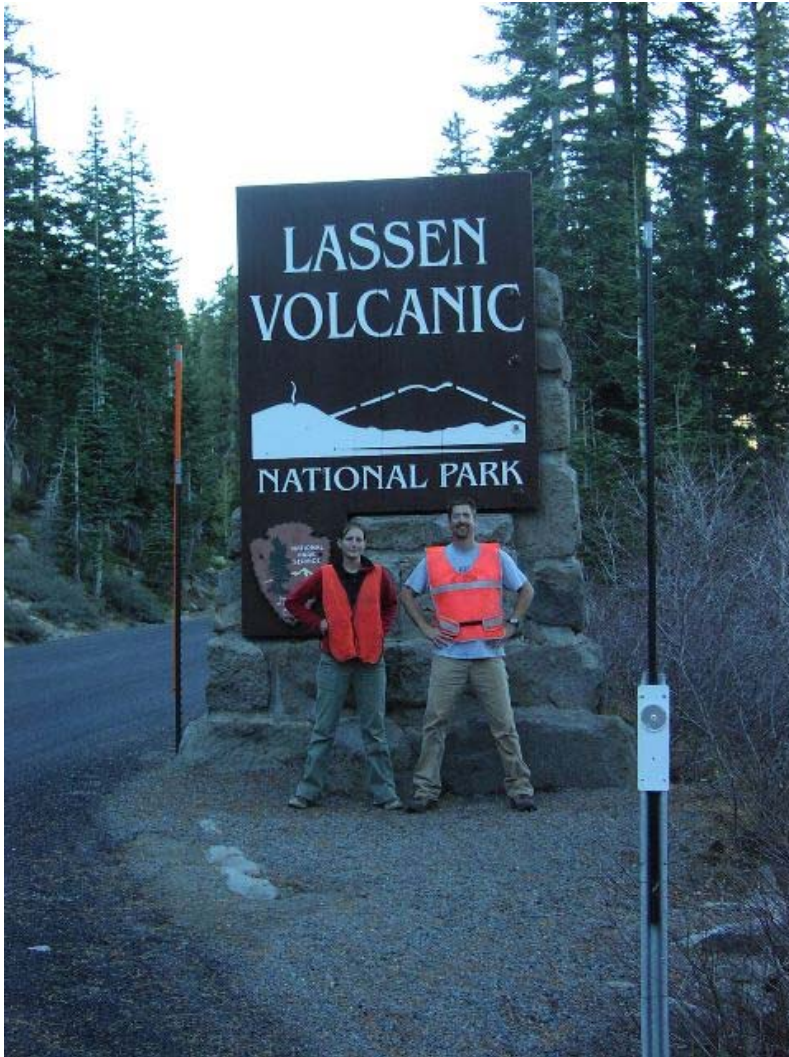


Figure 1. PMC staff members ,Jenny Freitag and Joe Williams ready to collect cuttings at Lassen National Park, October 23, 2007.

The Corvallis Plant Materials Center (PMC) entered into a new agreement with Lassen Volcanic National Park in 2007 to provide native plant materials for planting around the new visitors center. It was agreed that the PMC would produce a minimum of 6200 container plants including: 2000 grass plugs, 1000 sedge and rush plugs, and 3200 containers of shrubs. If tree and shrub seed cannot be provided (in case of a bad seed year), alternative forb species will be added to the agreement in lieu of the shrub plants. Trees and shrubs maybe added later when seed is available. Activities in 2007 included collection and propagation of two shrubs.

II. Accessions Involved

Table 1. Accessions involved in the Visitors Center Landscape Project.

Species	Common name	Code	Accession Number	Activity in 2007 ¹
<i>Elymus glaucus</i>	blue wildrye	ELGL	9079530	-
<i>Bromus carinatus</i>	California brome	BRCA5	9079531	-
<i>Abies magnifica</i>	California red fir	AMBA		-
<i>Tsuga mertensiana</i>	mountain hemlock	TSME		-
<i>Chrysolepsis sempervirens</i>	bush chinquapin	CHSE11		-
<i>Holodiscus microphyllus</i>	oceanspray	HOMI3	9079548	trl
<i>Ceanothus cordulatus</i>	whitethorn ceanothus	CECO	9079553	col, trl
<i>Arctostaphylos nevadensis</i>	pine mat manzanita	ARNE	9079554	col
<i>Senecio triangularis</i>	arrowleaf ragwort	SETR	9079545	trl
<i>Anaphalis margaritacea</i>	pearly everlasting	ANMA	9079547	-
<i>Carex jonesii</i>	Jones's sedge	CAJO	9079541	trl
<i>Carex microptera</i>	smallwing sedge	CAMI7	9079543	trl
<i>Juncus balticus</i>	baltic rush	JUBA	9079555	trl
<i>Juncus ensifolius</i>	swordleaf rush	JUEN	9079549	trl
<i>Wyethia mollis</i>	woolly mules-ears	WYMO	9079546	trl
<i>Lupinus arbustus</i>	longspur lupine	LUAR6	9079551	trl

1- trl= germination trials, col= collected plant materials

III. Experimental Propagation

Informal germination tests were set up on *Juncus* and *Carex* species that have never been propagated at the Corvallis PMC. For each species, nine sets of 100 seeds were counted, weighed and placed in plastic germination boxes on moistened germination paper and stored in a growth chamber set at 8°C days and 4°C nights with 8 hours of light. Treatments include 45 or 90 days cold-moist stratification or no cold-moist stratification. Each treatment has three replications per species. Results are pending and will be reported in the 2008 report.

The PMC is to provide 100 containers of *Ceanothus cordulatus*. This species has not been propagated previously at the PMC. Seeds were collected by park staff and delivered to the PMC. Seed was cleaned and placed in hot water (180°F) and left to cool/soak for 24 hours. Seeds were then mixed with moistened peat-based media in a plastic zip-lock bag and placed in a walk-in cooler. Seeds will be monitored weekly for germination.

Stem cuttings were also collected at the park by PMC staff on October 23-24, 2007. Target materials were stems that were at least six inches long, current season's growth, and free of diseases. Cuttings were packed with moistened vermiculite and stored in a walk-in cooler (38°F). Only 100 cuttings were taken, and will be propagated in February 2008 after cold storage through the winter.

IV. Plant Propagation

Arctostaphylos nevadensis cuttings were collected at the Park by PMC staff on October 23-24, 2007. Collection area was defined by the Park as the south entrance sign north to the visitors center. Staff collected 4000 cuttings from this area. Target material were stems that were at least six inches long, non-branching, this season's growth, free of diseases. Cuttings were packed with moistened vermiculite and stored in a walk-in cooler (38°F) until December 20, 2007. Half of the cuttings (approximately 2000) were prepared for rooting by stripping the leaves from the lower 4 inches, making a fresh basal cut, dipping them in an 0.8% IBA rooting powder, and sticking them into moist perlite in 4" deep propagation flats. Flats were placed on heat mats set at 70° F in an unheated greenhouse and lightly watered weekly or as needed. Due to space limitations on the heat mats, cuttings will be propagated in two rounds.

V. Delivery of Plant Materials

No plant materials were delivered in 2007.