



iMapInvasives

Sharing information for strategic management



Wider Uses of the iMapInvasives Dataset

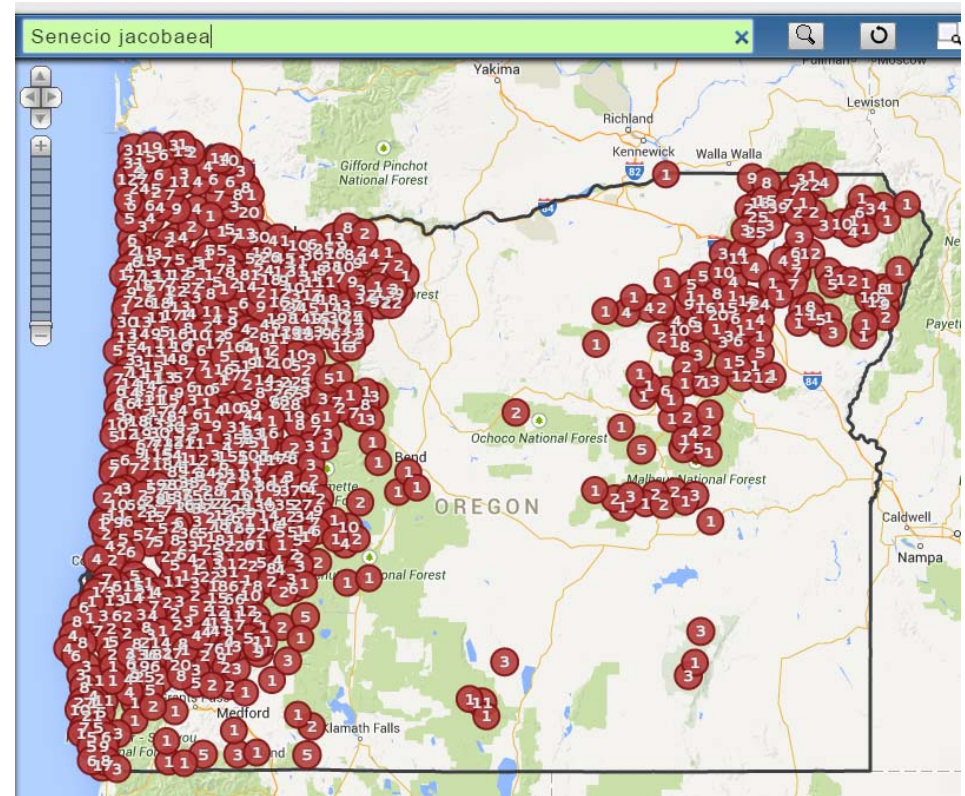


Feb. 2015

Lindsey Wise, Oregon Biodiversity Info Center

The Oregon iMapInvasives Dataset

- In Oregon, 80 organizations have contributed data
- Over 290,000 observations for 298 species
- 96% of data has been bulk uploaded



Data Sharing and Data Use Agreements

- Cooperative data sharing with other programs
 - USGS Non-indigenous Aquatic Species
 - Oregon Department of Agriculture WeedMapper
 - Oregon Invasive Species Hotline
- Data sharing agreements
 - On-line users must agree to iMap protocols
 - Bulk data partner can choose to share observation data with ODA, USGS, regional managers, researchers, etc.

Data Sharing and Data Use Agreements

- Data Use Agreements
 - Understand limitations and intent of data
 - Acknowledge iMapInvasives in any products
 - Cannot display detailed point data to the public
 - Cannot repost data online
 - Preserves the agreements and protections of iMapInvasives.org

Who's Using iMapInvasives Data?

- Data Requests for shareable iMap data from:
 - Graduate students
 - University research labs
 - Non-profits
 - CWMA's
 - Regional partnerships

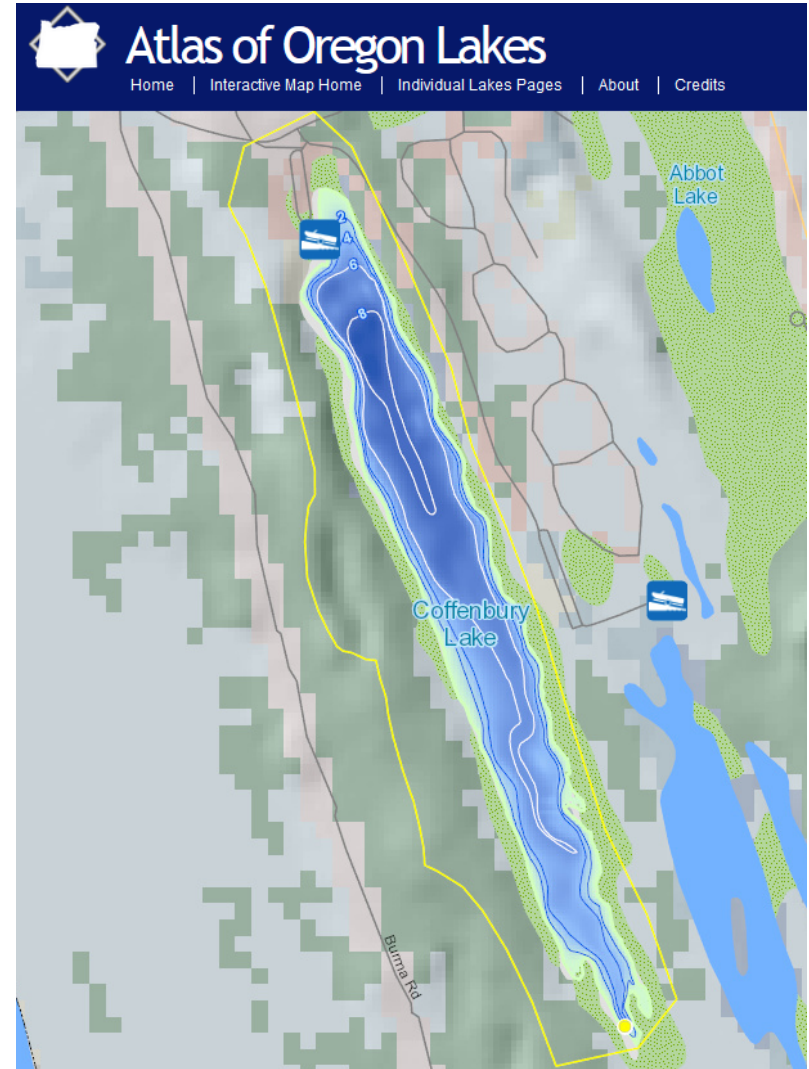


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Atlas of Oregon Lakes Portland State UNIVERSITY

- PSU Center for Lakes and Reservoirs
- Click on a water body in the Atlas, generate a list of invasives from iMap
- Link to iMap to request login for more information



Conservation Planning



- Habitat assessments in SE Oregon



- Prioritization of riparian restoration sites in the [Rogue Basin](#)

Coos Bay Environmental and Socioeconomic Inventory

Coos Estuary Inventory Project



Guided by representatives of key local organizations (including Coos County and the City of Coos Bay), staff at the South Slough NERR and Coos Watershed Association are currently compiling existing data about the Coos estuary and its surrounding communities to provide an up-to-date characterization of the environmental and socio-economic conditions here.

Early Detection / Encroaching Region



- Spread of knotweed along the Nehalem River



- Incoming threats to Clark County



- Dispersal corridors for bullfrogs across the Sonoran Desert

Research and Modeling

PSU Cruzan lab:

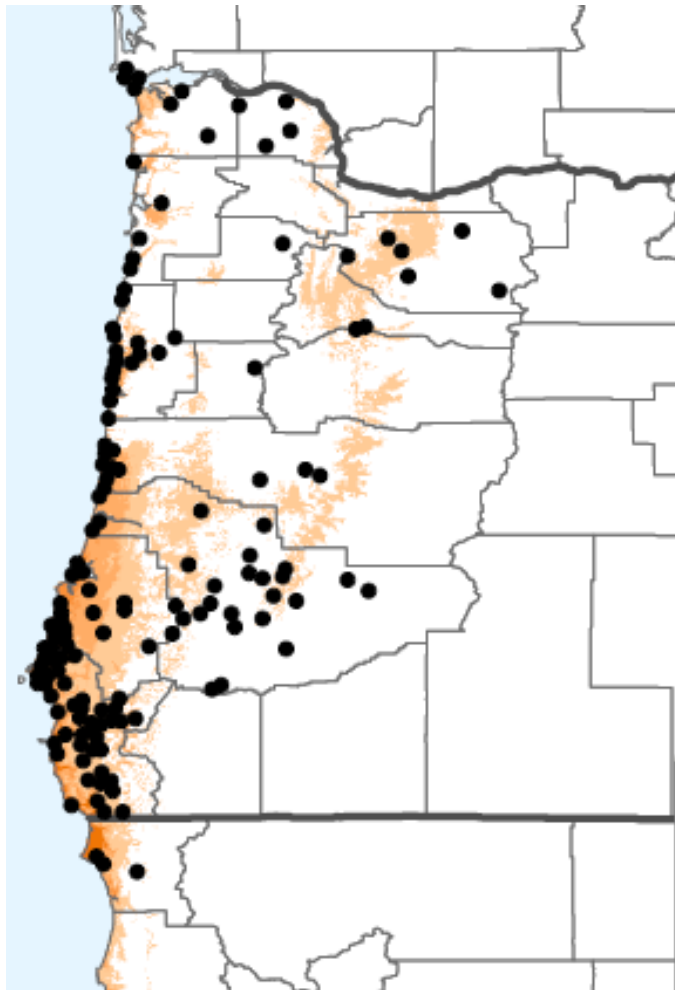
Bachypodium sylvaticum

invasion biology

- Adaptation during invasion
- Evolution during range expansion
- Influence of soil fungal mutualisms on invasion success



Research and Modeling



Current Distribution

Future Predicted
Distribution

Habitat Suitability

CalWeedMapper

BETA

basic

advanced

CREATE A REPORT

LEGEND / CHOOSE LAYERS



SEARCH BY COMMON NAME

SEARCH BY SCIENTIFIC NAME

 indicates suitable range map is available in advanced mode



Photo courtesy of David Kratville

Cytisus scoparius (Scotch broom)

Cal-IPC Rating: High

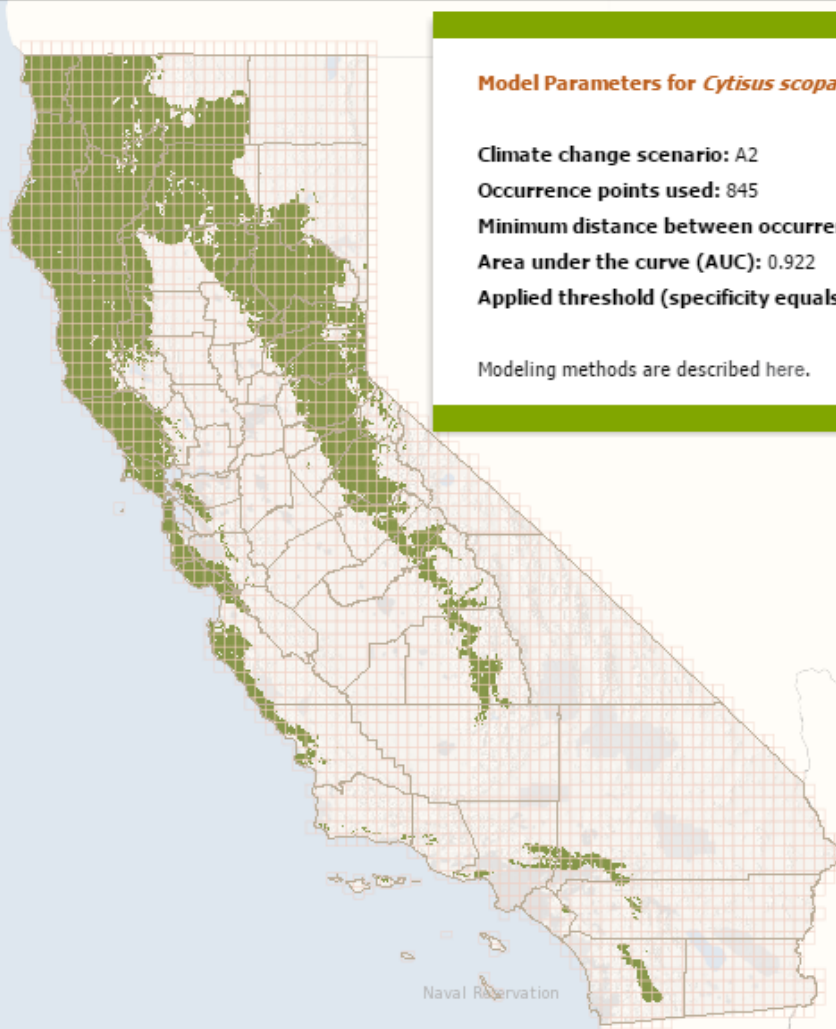
Other Ratings: CDFA C, BAEDN

species description

Get Species Map Report

SELECT REGION TYPE

SELECT REGION



Model Parameters for *Cytisus scoparius*

Climate change scenario: A2

Occurrence points used: 845

Minimum distance between occurrences: 0.0083 decimal degrees

Area under the curve (AUC): 0.922

Applied threshold (specificity equals sensitivity): 0.154

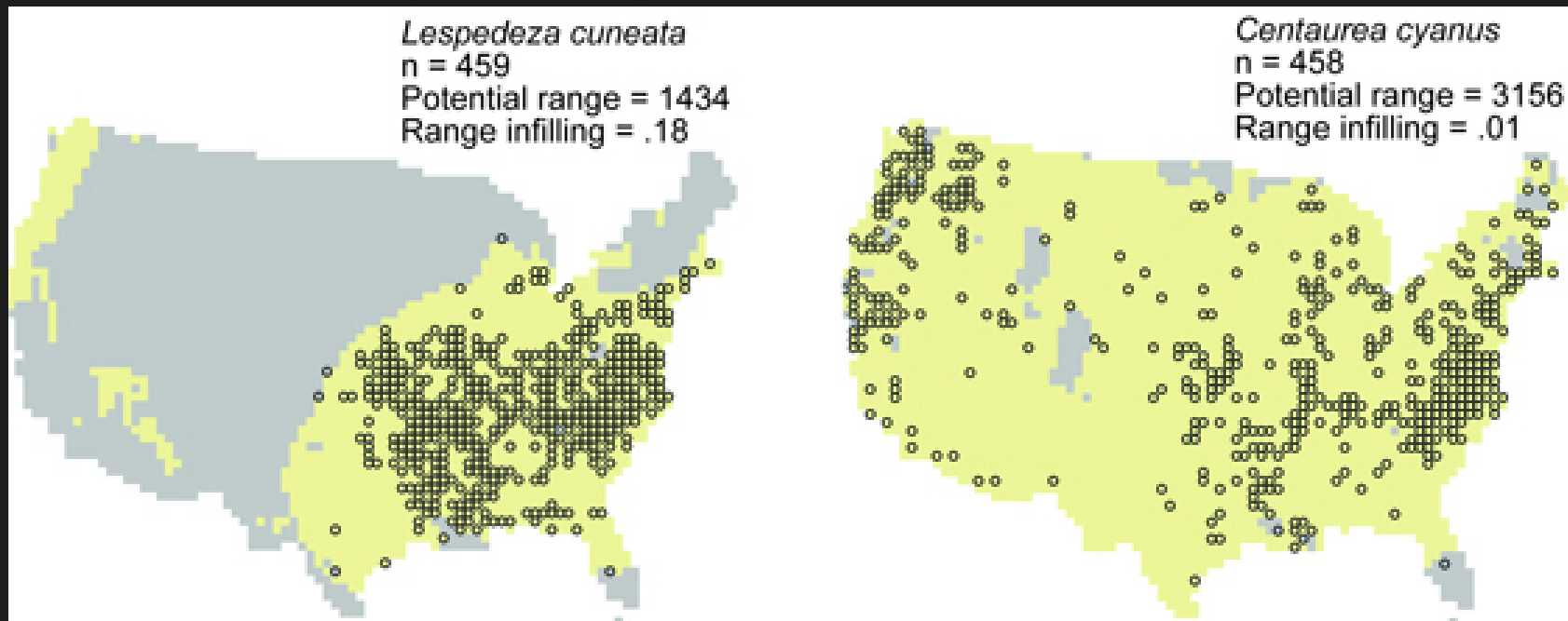
Modeling methods are described here.

Naval Reservation

Invasive Species Biogeography

University of Massachusetts Spatial Ecology Lab

INVASIVE SPECIES BIOGEOGRAPHY



Comparison of range infilling for two species native to the U.S.

Using U.S. species as our model system, we are exploring general questions about invasive species distribution, including looking at dispersal patterns, range infilling and equilibrium, and relationships to anthropogenic disturbance.

