

False Brome Dispersal Mechanisms

- Can regenerate from fragments
- Seed is typically wind dispersed
- Seeds can establish over large areas by attaching to animals/humans



Environmental Preferences

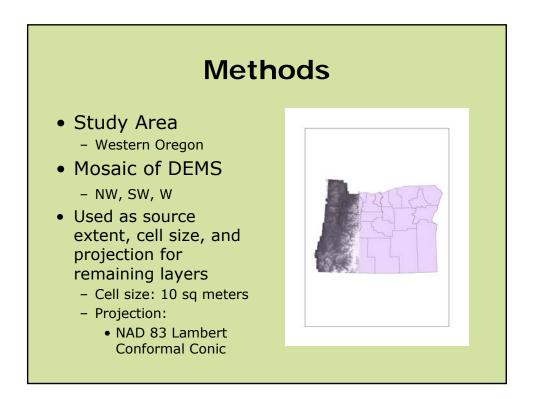
- dry and/or warm habitats
- elevational range: 200 to 3,300 ft
 - Prefers lower elevations
- broad environmental amplitude
 - No known preference for:
 - Slope\aspect
 - Light conditions

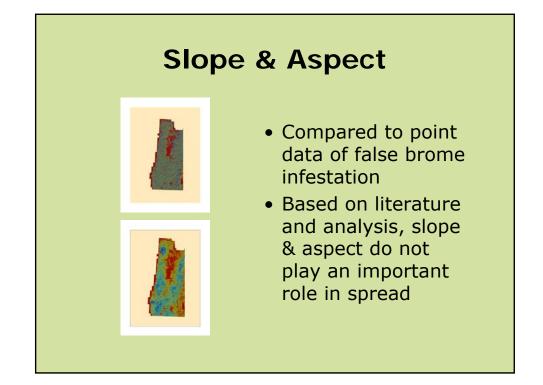


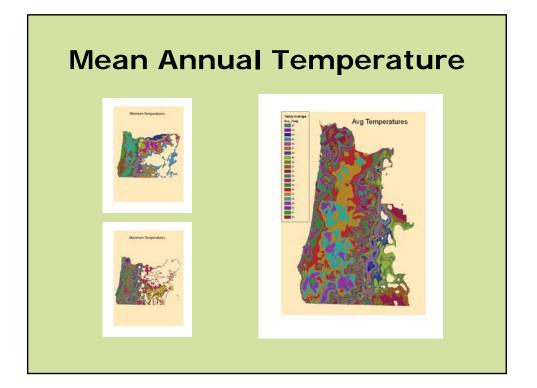


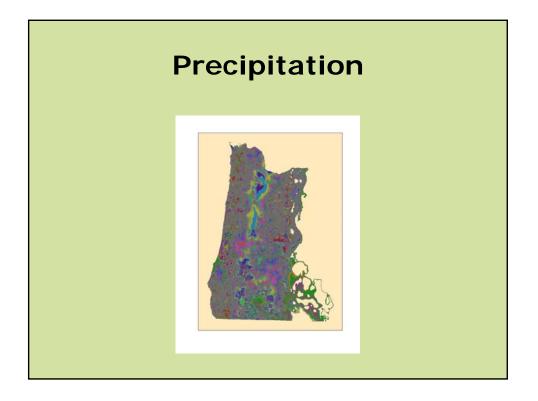
Data Layers

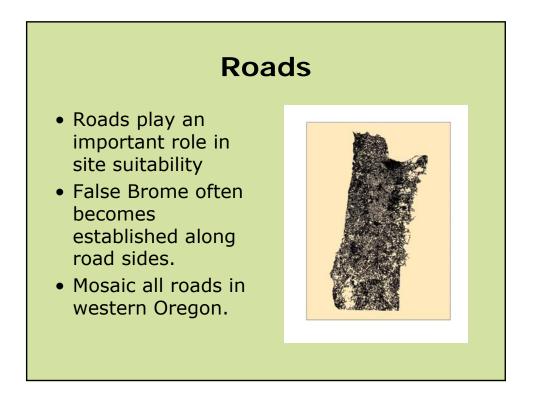
- False brome location shapefile False Brome Working Group
- Temperature layer USDA
- County shapefile and publicly owned land shape file -Oregon Geospatial Clearinghouse
- Dem's for Northwest, West, and Southwest Oregon Geospatial Clearinghouse
- Precipitation layer NRCS
- Recreation sites National Forest website
- Road shapefiles for each county University of Oregon





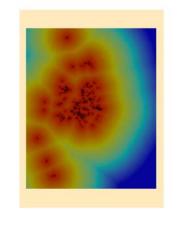






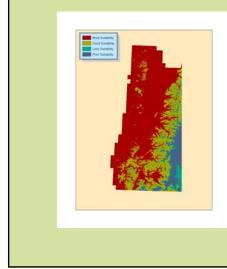
Distance to Established Points

- The source of all infestation is obviously seeds
- Generated a distance raster from established false brome points

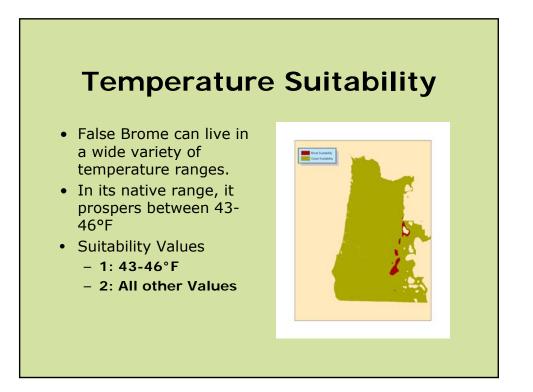


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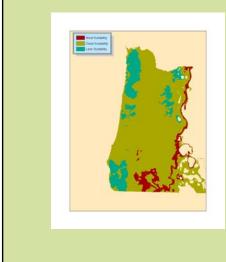
Elevation Suitability



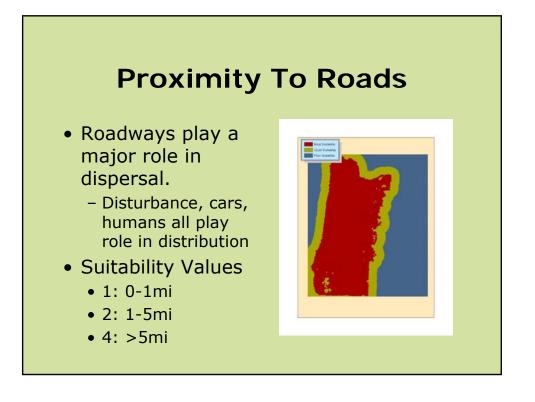
- Suitability Values Based on literature and observation
 - 1: 0-1999ft
 - 2: 2000-3999ft
 - 3: 3999-4500ft
 - 4: >4500



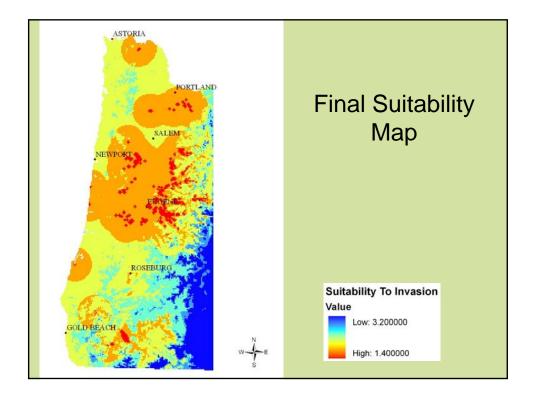
Precipitation Suitability



- Native Range: Found in areas between 24-34 inches annual precipitation.
- Prefers slightly drier sites but no bounding limits
- Suitability Values
 - 1: 24-34"
 - 2: <24" and 35-89"
 - 3: >89"



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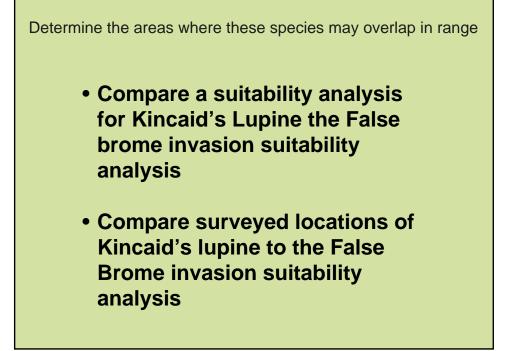
Two Analysis Questions

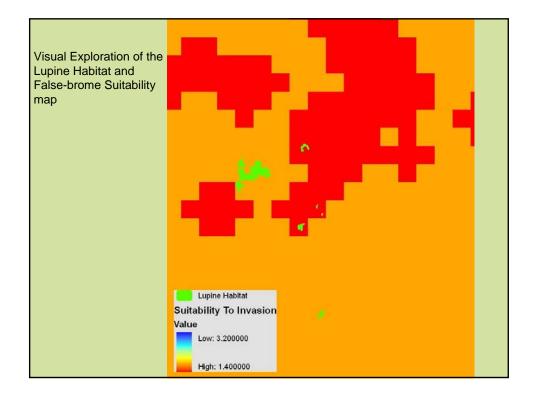
Will the spread of False brome adversely effect the rare plant Kincaid's Lupine?

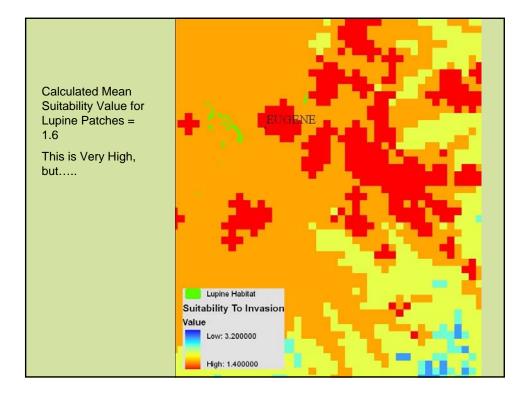
Where are the locations that we should focus our resources to try and fight the human aided spread of False brome?

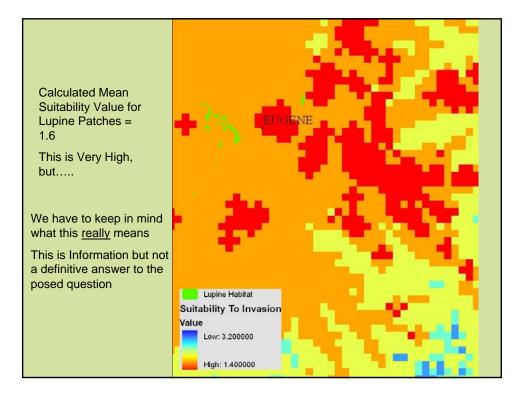
Question 1: Will the spread of False brome adversely effect the rare plant Kincaid's Lupine and the associated rare Fenders Blue Butterfly?

- The interactions between the 3 species
- The areas where these species may overlap in range









Where are the locations that we should focus our resources to try and fight the human aided spread of False-brome?

- Identify possible recreation sites
- Identify the suitability values at those sites
- Display sites based on suitability values



