Planting trees in Portland, Oregon

Plans, programs, and vision for our future urban forest
# Climate Change Preparation: Priority Climate Risks

<table>
<thead>
<tr>
<th>Hotter, drier summers</th>
<th>Warmer, wetter winters</th>
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<tbody>
<tr>
<td>HEAT</td>
<td>FLOODS</td>
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<tr>
<td>DROUGHT</td>
<td>LANDSLIDES</td>
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<tr>
<td>WILDFIRE</td>
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Climate Change Preparation: Anticipated Impacts

- Quality, quantity, and availability of water resources
- Disruption of energy, economic, and food systems
- Increased fire, flood, and landslide risk
- Habitat loss, erosion, and invasive species
- Infrastructure damage and failure
- Increases in heat-related, vector-borne, and respiratory illnesses
- Personal injury and property damage
Climate Change Preparation: Planning

• Infrastructure and the Built Environment
• Natural Systems
• Health and Human Services
Climate Change Preparation: Recommended Actions

Over 100 recommended actions, including:

- Plant trees to increase canopy, esp. in areas with vulnerable populations
- Decrease impervious surface
- Support species range shifts
Urban Tree Canopy Program (UTCP)

- **Plant trees**
- **Encourage** tree preservation and proactive **stewardship**
- **Cut concrete** where possible
- **Promote** **species diversity**
- **Focus on** **natives and evergreens**
- **Pilot use of** **novel species**
## UTCP: Program Summary

<table>
<thead>
<tr>
<th><strong>PLANTING</strong></th>
<th><strong>DIVERSITY</strong></th>
<th><strong>SURVIVAL</strong></th>
<th><strong>FUTURE</strong></th>
</tr>
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<tbody>
<tr>
<td>6 years</td>
<td>~1/3 natives</td>
<td>96.8% yr. 1</td>
<td>Monitoring</td>
</tr>
<tr>
<td>&gt;36,000 trees</td>
<td>? % evergreen</td>
<td>94.1% yr. 2</td>
<td>Spp. tracking</td>
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<tr>
<td>&gt;200 types</td>
<td>~1.5% novel species</td>
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Too soon to tell, but preliminary results promising

Southern live oak and cork oak
SE Woodstock (2011)

Creative Science School (2012)

I-5 soundwall east (2012)
UTCP: Future Strategy

- Continue the good work
- Seek out an opportunity to do a proper trial
- Source novel spp. locally
- Build and maintain an asset management database
- Share lessons
- Adapt as needed
Where to prioritize tree plantings?
Climate Change Preparation Strategy, and Risk and Vulnerabilities Assessment

Risk and Vulnerability Assessment | Strategy Development | Public Comment Draft | Proposed Draft

City Council and County Board Adoption
(Summer 2014)

Updated Climate Action Plan

Progress Assessment | Strategy Development | Public Comment Draft | Proposed Draft