

Tree Summit 2018



Agenda

- 9:00am – 9:10am **Welcome**
Angie DiSalvo, Outreach and Science Supervisor, PP&R UF
- 9:15am – 10:00 am **Park Tree Inventory 2018: What We Found**
▪ *Bryn Davis, Lizzie Sords, and Ben Rushakoff, PP&R UF*
- 10:05am – 10:20am **East Portland Historical Urban Forestry**
Lorena Nascimento, Portland State University
- 10:25am – 10:35am **Break**
- 10:35am – 10:50am **Air Pollution and Portland's Urban Forest**
Meenakshi Rao, Portland State University/Oregon Dept. of Environmental Quality
- 10:55am – 11:10am **Bioindicators of Air Quality in Urban Areas**
Sarah Jovan, US Forest Service
- 11:15am – 11:30pm **West Willamette Restoration Partnership: Documenting Change in a Restored Landscape**
Janelle St. Pierre, Portland Parks and Recreation
- 11:35pm – 11:50am **Long-term Changes in Forest Park**
▪ *Marion Dresner, Portland State University*
- 11:55am – noon **Wrap-up**
Jeff Ramsey, PP&R UF
- noon – 12:55pm **Lunch Session: Applying what we've learned to our own neighborhoods**
- 12:55pm – 1:00pm **Closing Remarks**





Fernhill Park

The Tree Inventory Project



Columbia Park



PORTLAND PARKS & RECREATION

Healthy Parks, Healthy Portland

www.portlandoregon.gov/parks/treeinventory



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COLUMBIA COTTAGE

Columbia Park

Tree Inventory Project Goals

Strengthen Partnerships

Between UF and community organizations

Build Community

Support for trees

Learn

About the health and
population of our
urban forest



Ed Benedict Park



Urban Forestry Goals



Montavilla Park

Understand

Species distribution in parks

Plan

New parks and maintenance needs

Target

Parks for additional plantings





2018 Park Tree Inventory

Over 300 volunteers
About 2,700 hours volunteered
Nearly 10,000 trees



Where Do We Inventory?

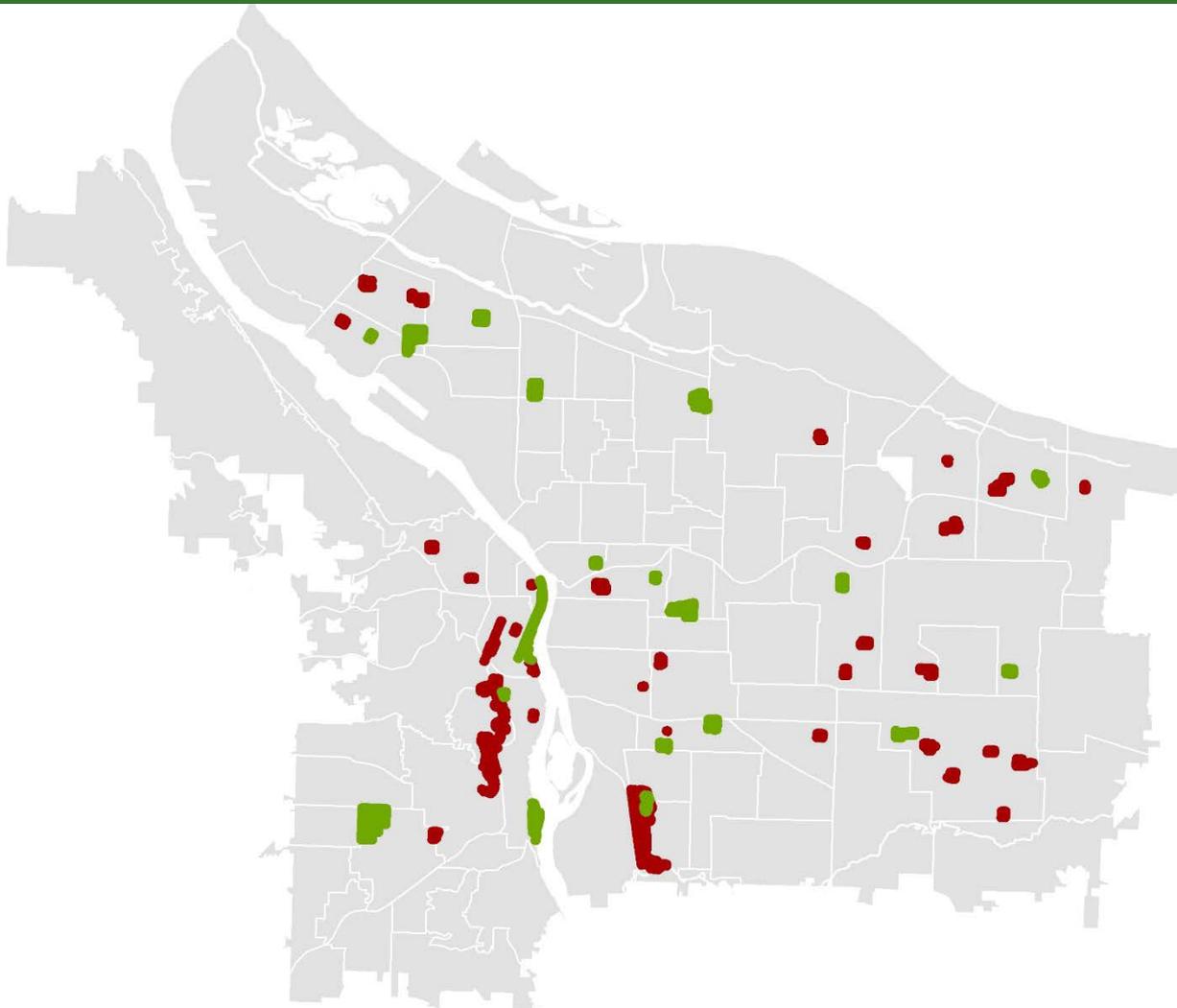


Peninsula Park

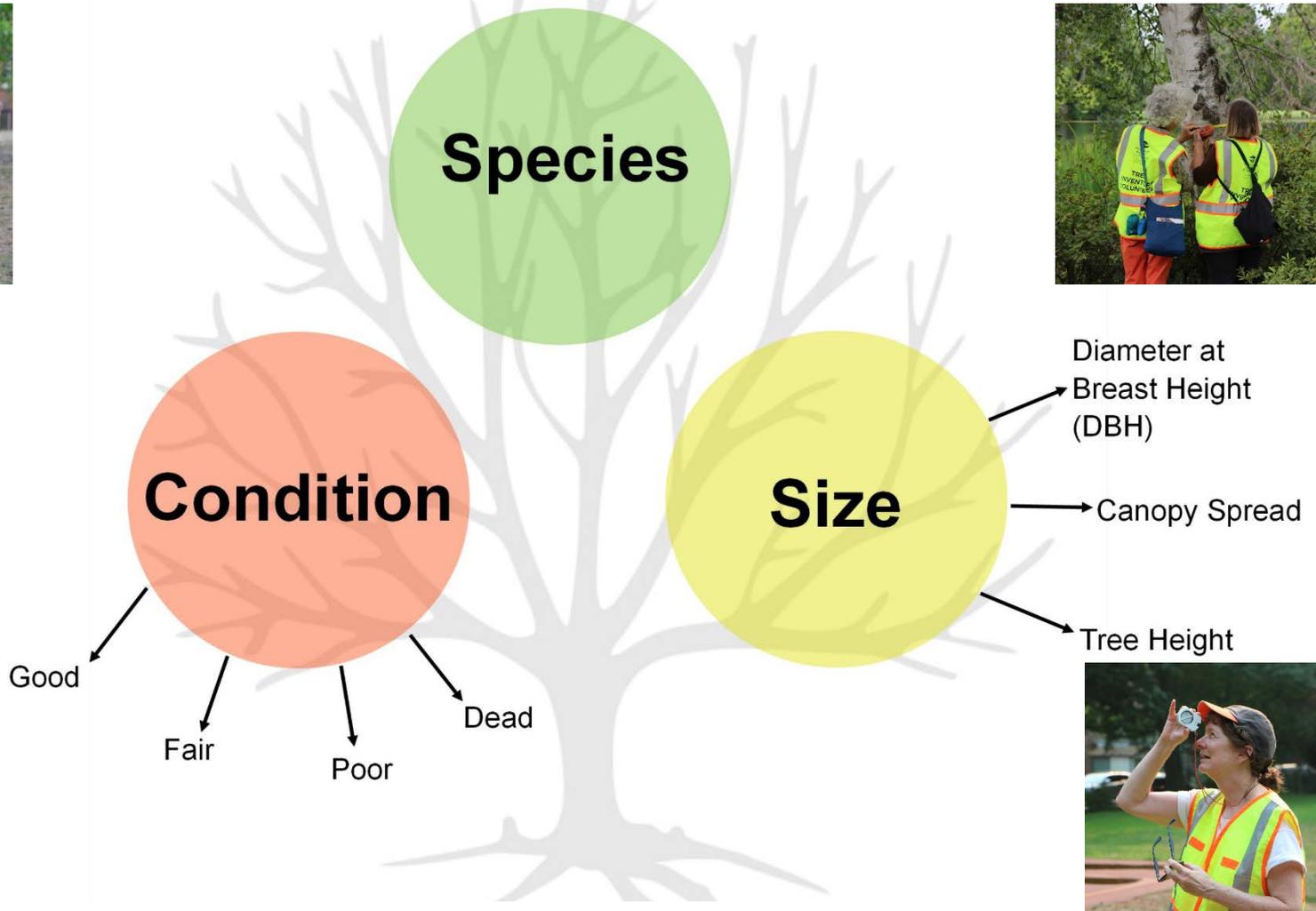
Volunteer Workday Parks 2018



All Parks Inventoried 2018



What is Collected?



Data Collection Methods

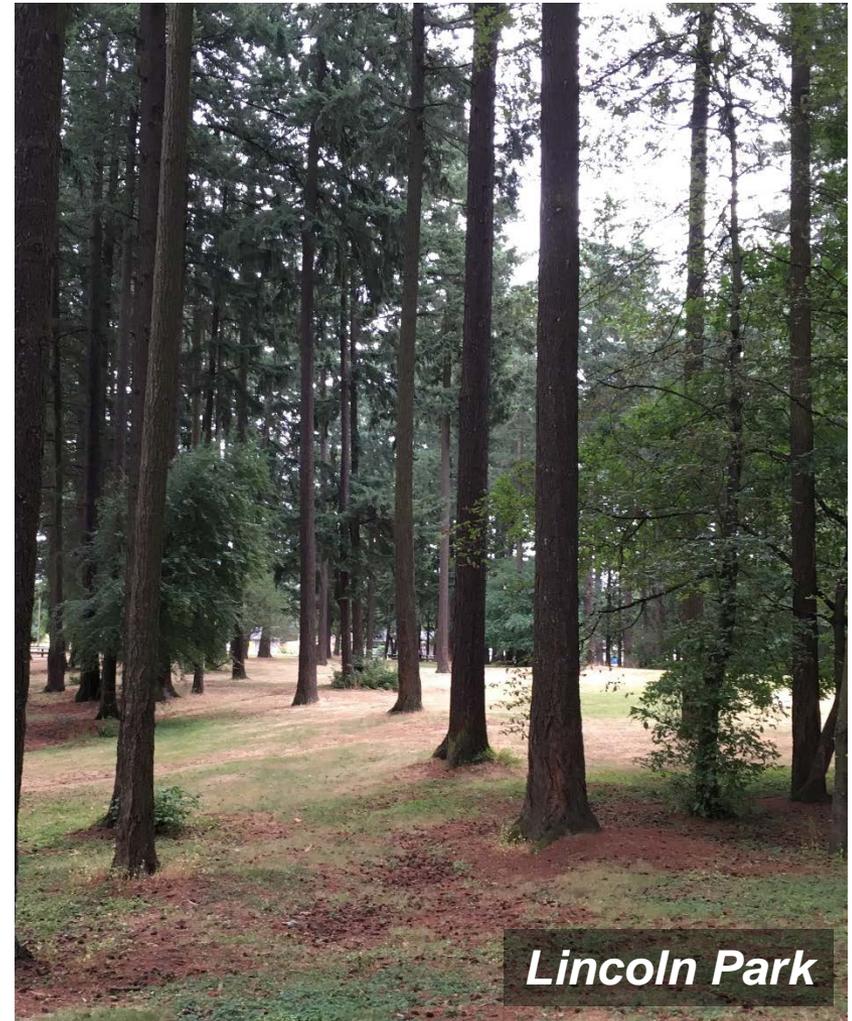


Let's Talk Trees! What We Found



Ten Most Common Trees

Most Common Park Trees	% of tree population
Douglas-fir	23%
Norway maple	7%
Western redcedar	4%
Northern red oak	4%
Pin oak	3%
Incense cedar	2%
Vine maple	2%
London plane tree	2%
Red maple	2%
Bigleaf maple	2%
Total	51%



Comparing Park and Street Trees

Most Common Park Trees	% of tree population N = 15,696
Douglas-fir	23%
Norway maple	7%
Western redcedar	4%
Northern red oak	4%
Pin oak	3%
Incense cedar	2%
Vine maple	2%
London plane tree	2%
Red maple	2%
Bigleaf maple	2%

Most Common Street Trees	% of tree population N = 218,610
Norway maple	9%
Red maple	7%
Cherry	6%
Pear	5%
Plum	5%
Maple, other	5%
Ash	4%
Dogwood	4%
Oak, deciduous	3%
Crabapple	3%



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Arbor Lodge Park

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Lair Hill Park

Most Common Genera and Family

Genus	% of tree population
<i>Pseudotsuga</i>	23%
<i>Acer</i>	16%
<i>Quercus</i>	10%
<i>Prunus</i>	5%
<i>Thuja</i>	4%

Family	% of tree population
Pinaceae	32%
Sapindaceae	16%
Fagaceae	11%
Rosaceae	8%
Cupressaceae	8%



Resilience to Invasive Pests



Asian Longhorned Beetle
Anoplophora glabripennis



Emerald Ash Borer
Agrilus planipennis



Functional Types

Broadleaf

Conifer

Deciduous



Evergreen



Functional Types

Broadleaf

Conifer

Deciduous



Evergreen



Functional Types

Deciduous

Broadleaf



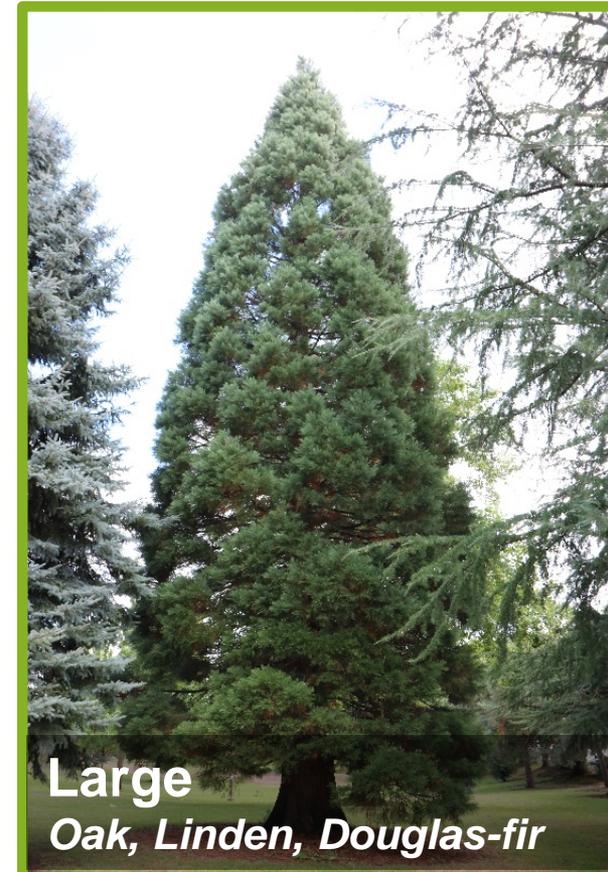
Conifer



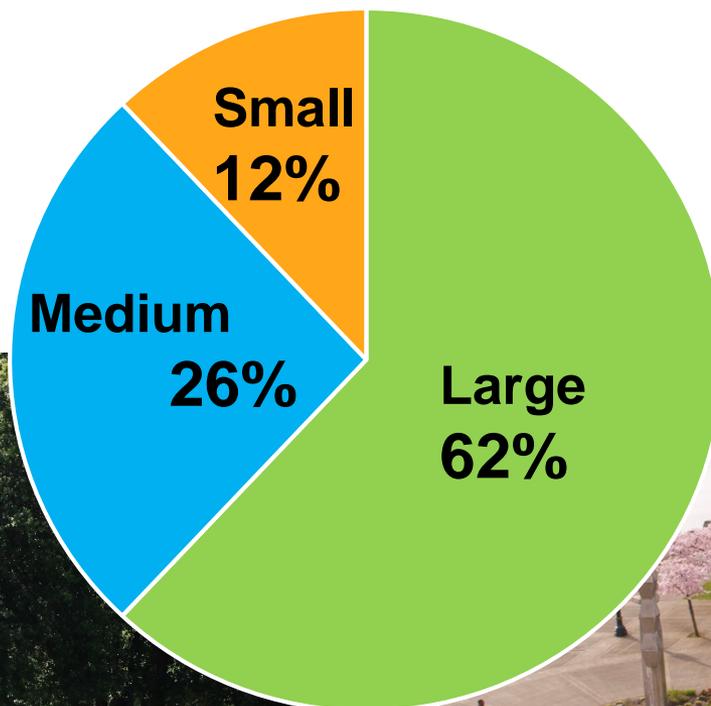
Evergreen



Mature Tree Size



Tree Size Diversity

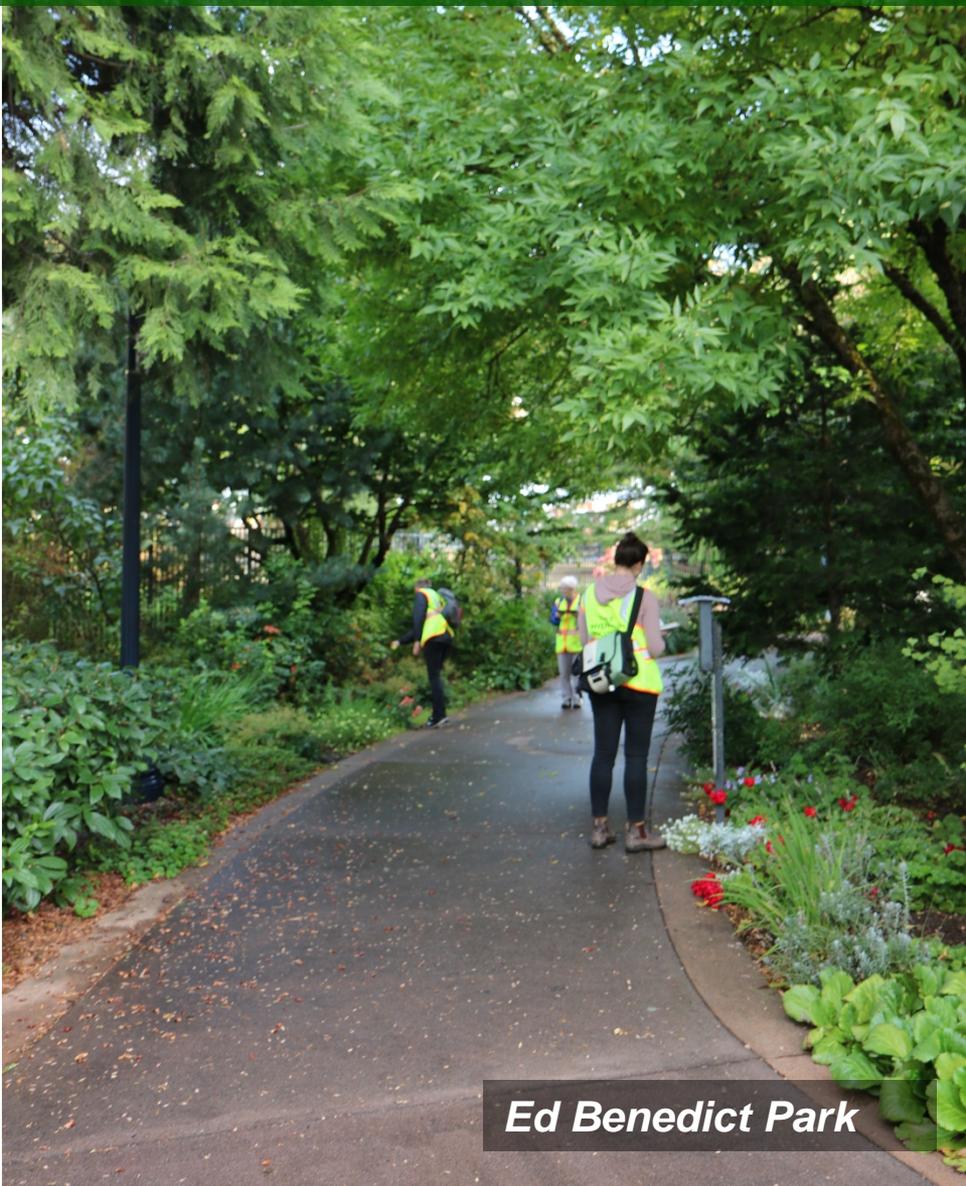




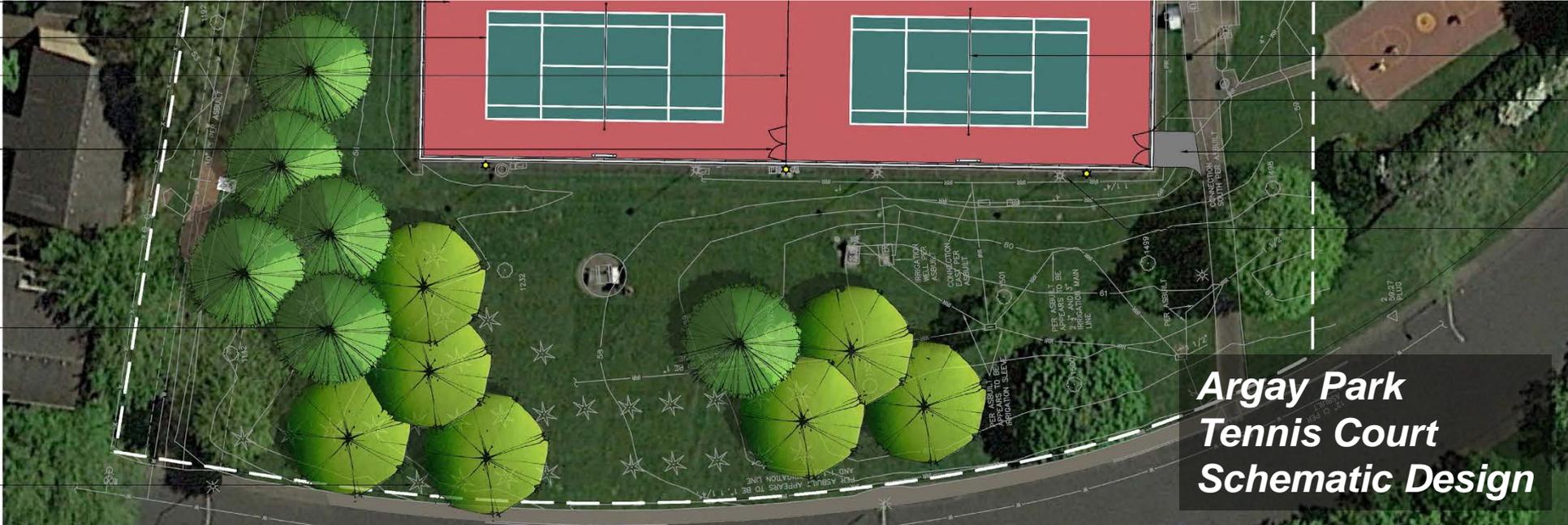
Age Diversity in Old and New Parks



Portsmouth Park

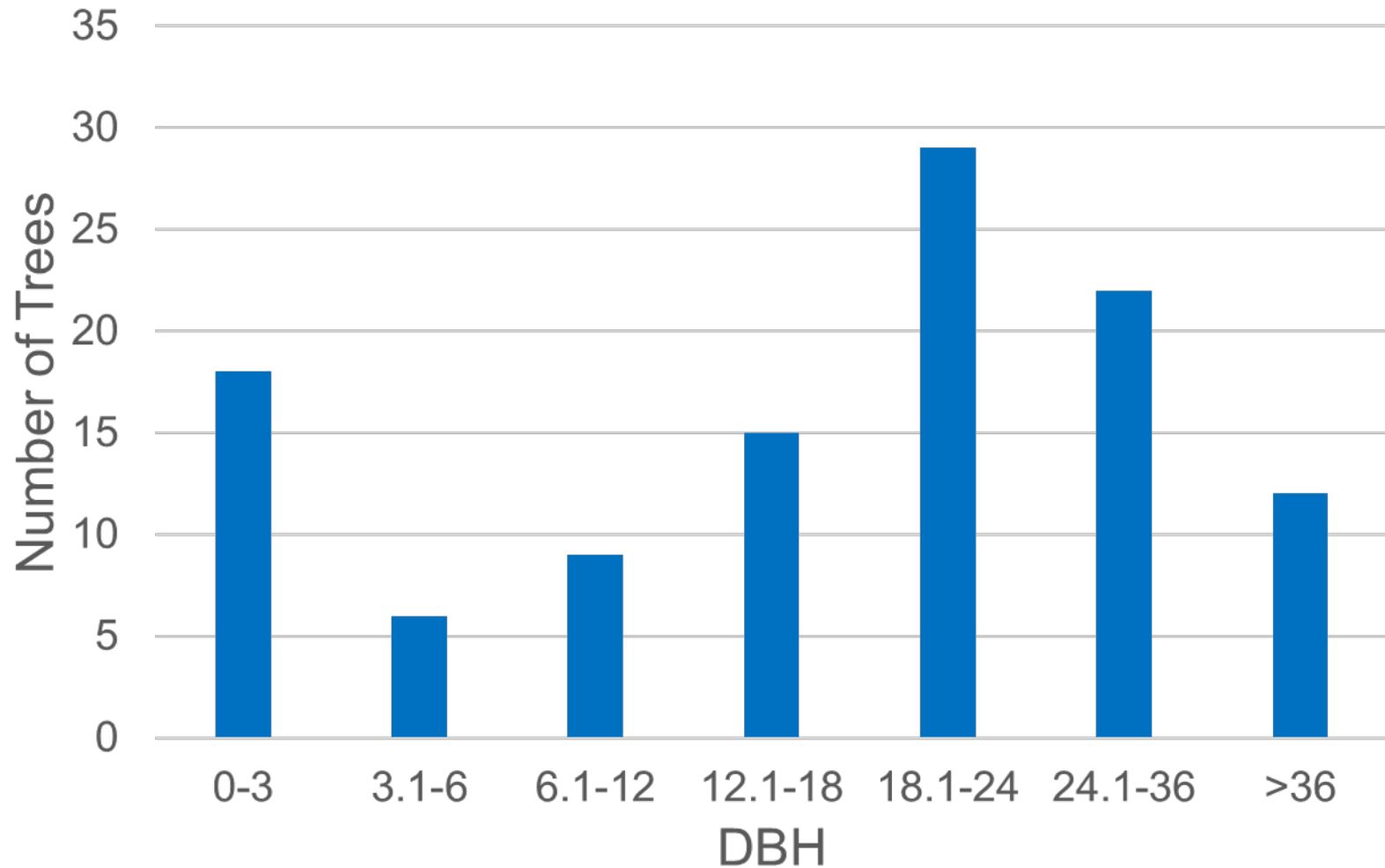


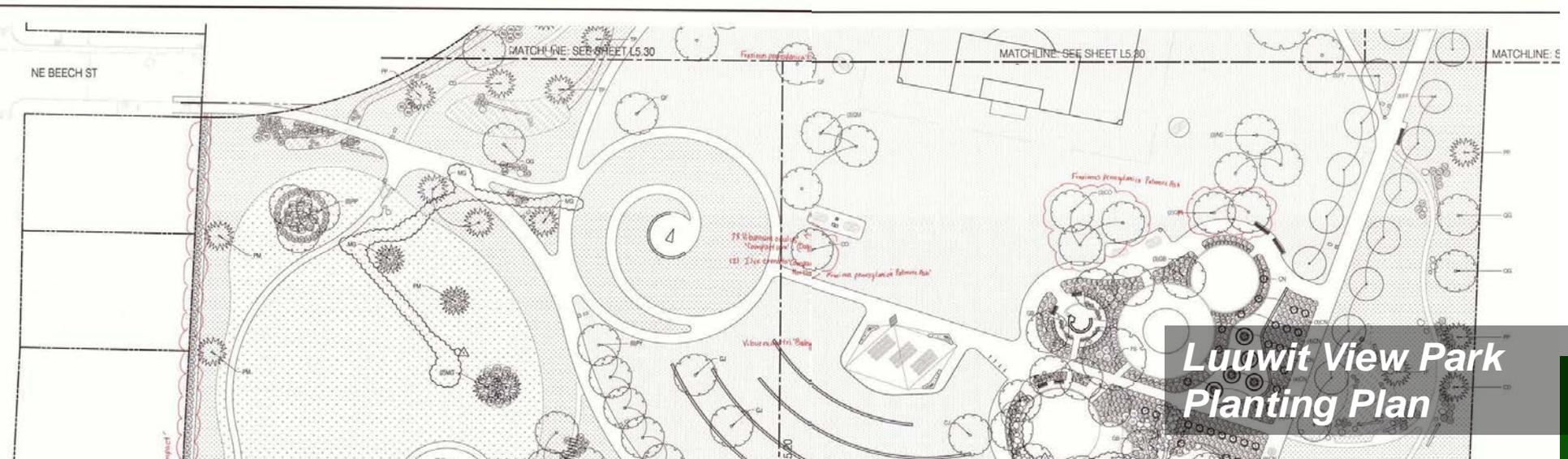
Ed Benedict Park



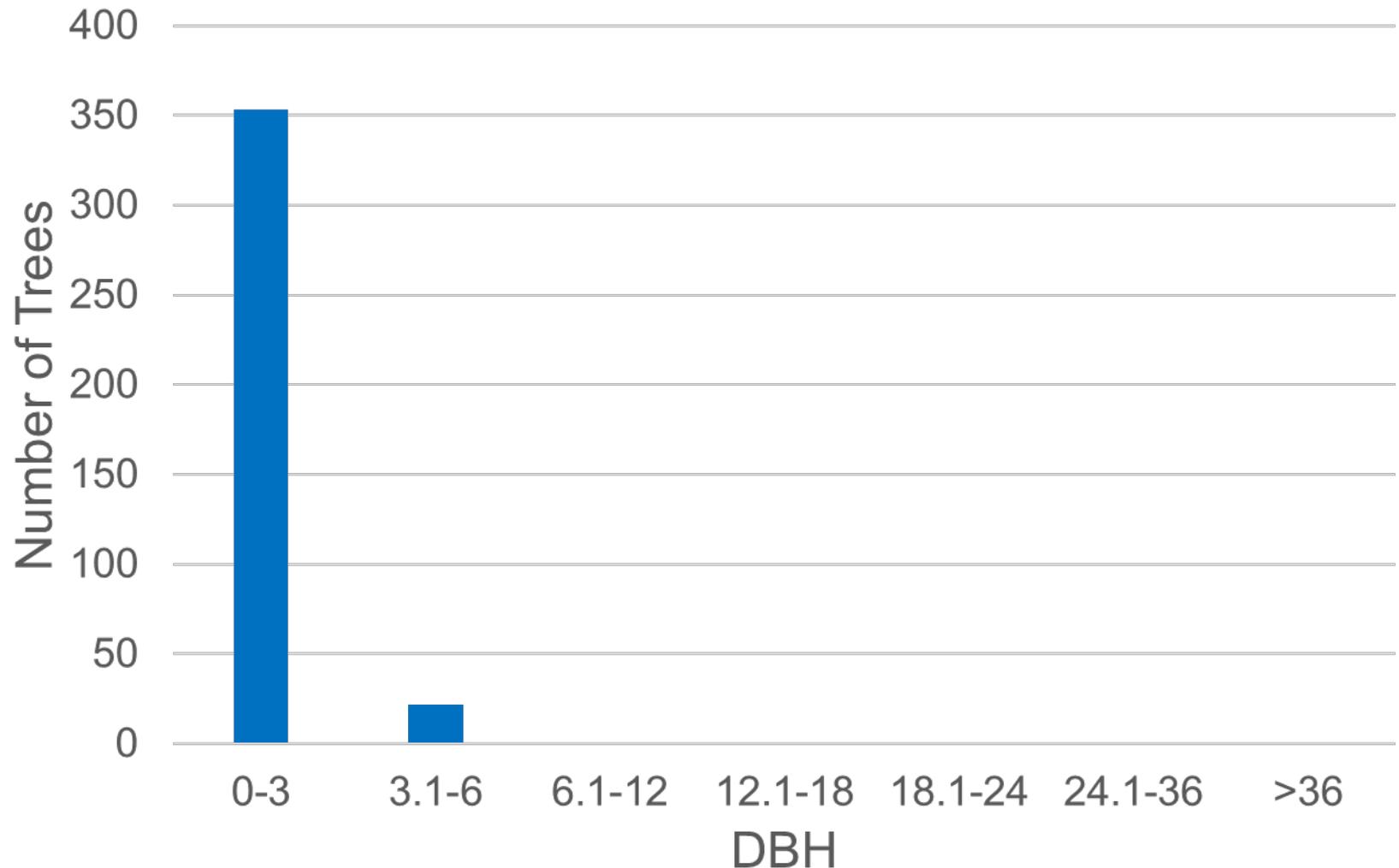
**Argay Park
Tennis Court
Schematic Design**

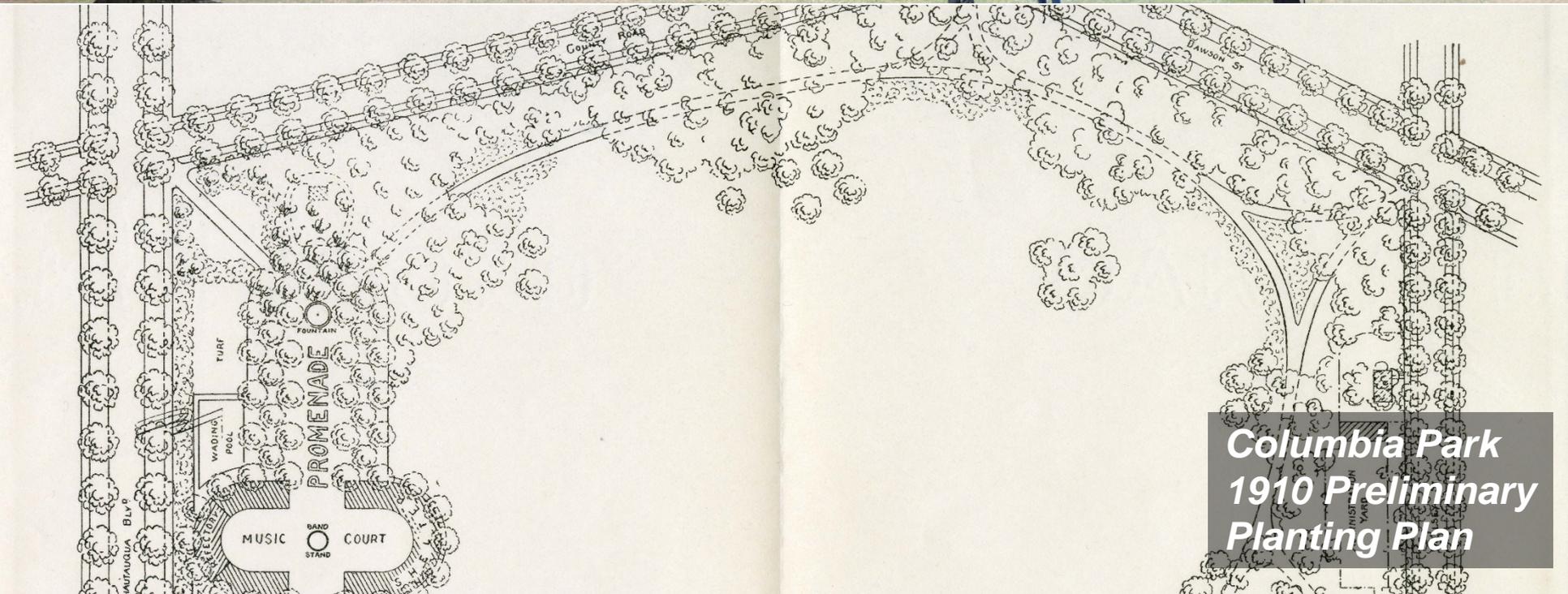
Diameter Size Class: Argay Park, est. 1984





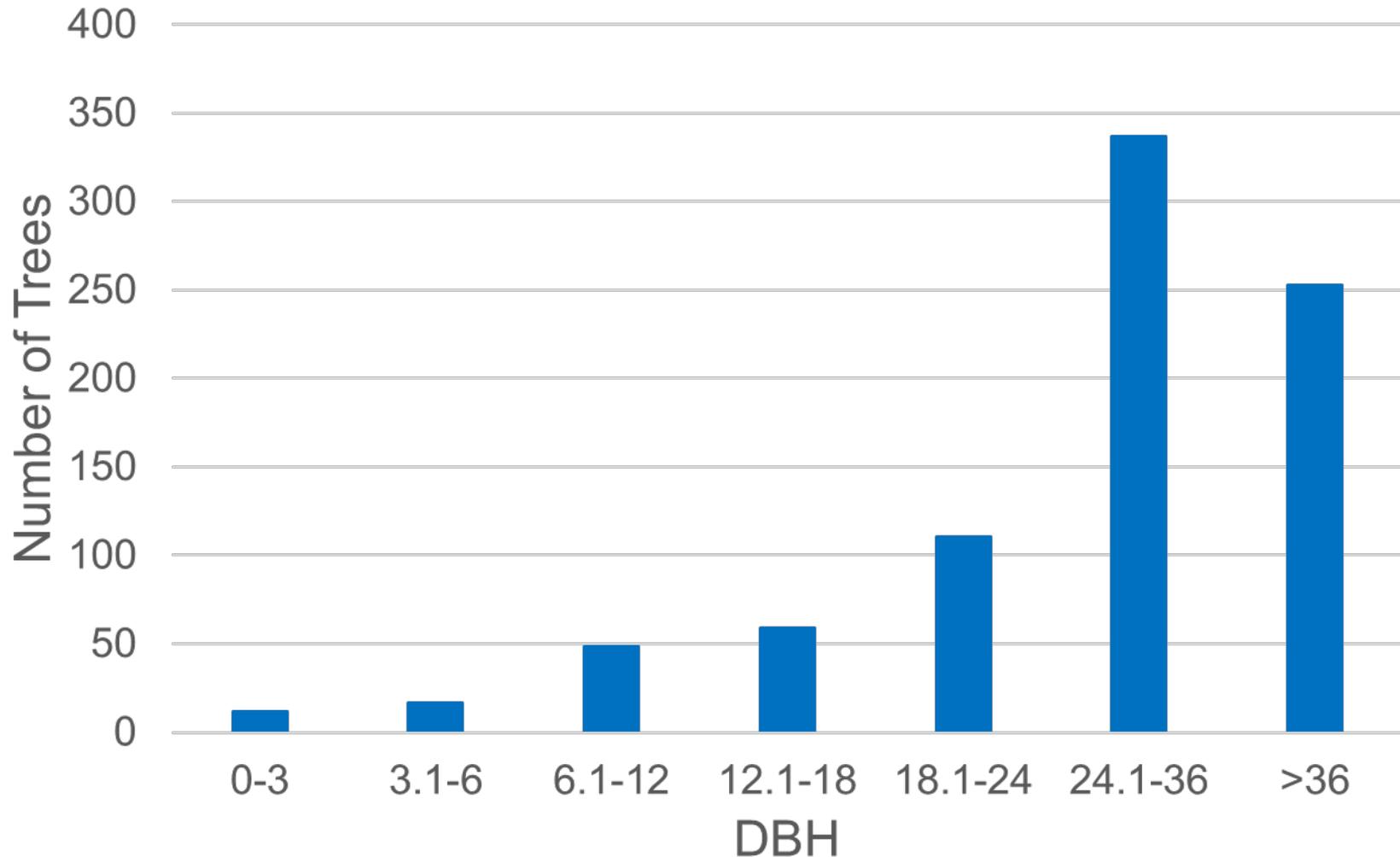
Diameter Size Class: Luuwit View, est. 2017



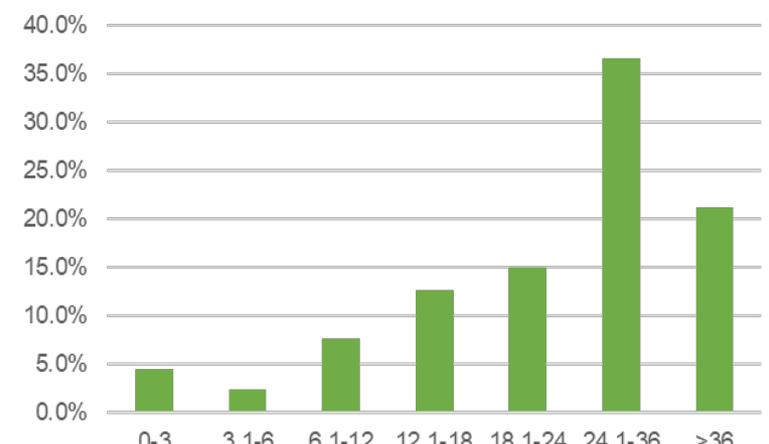
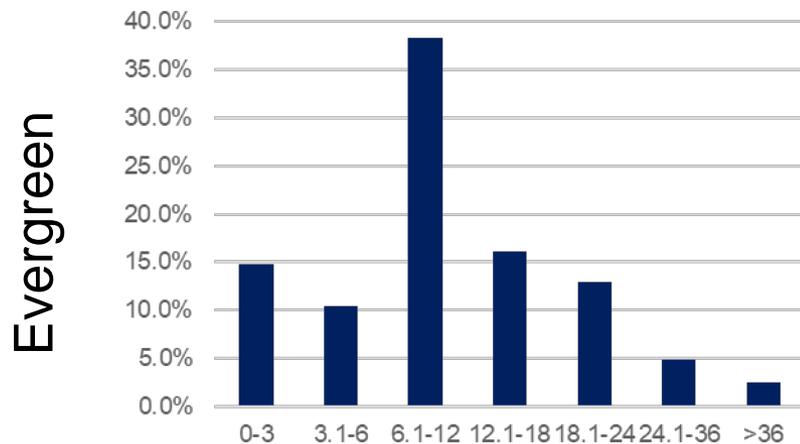
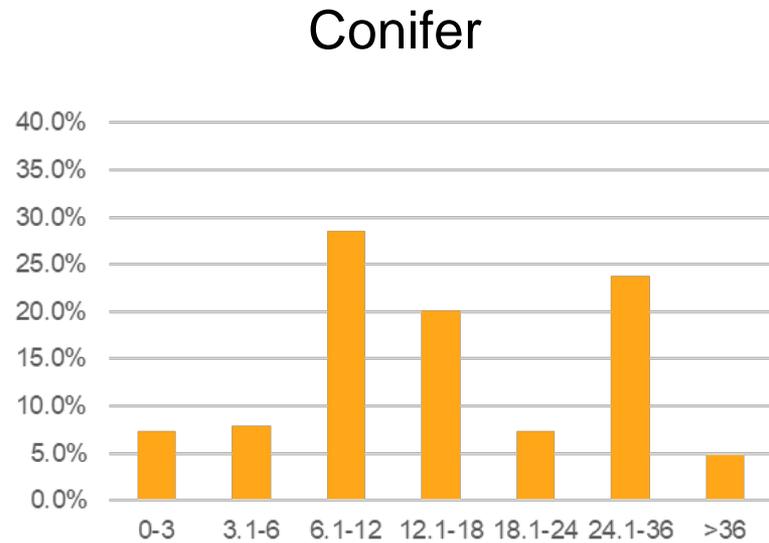
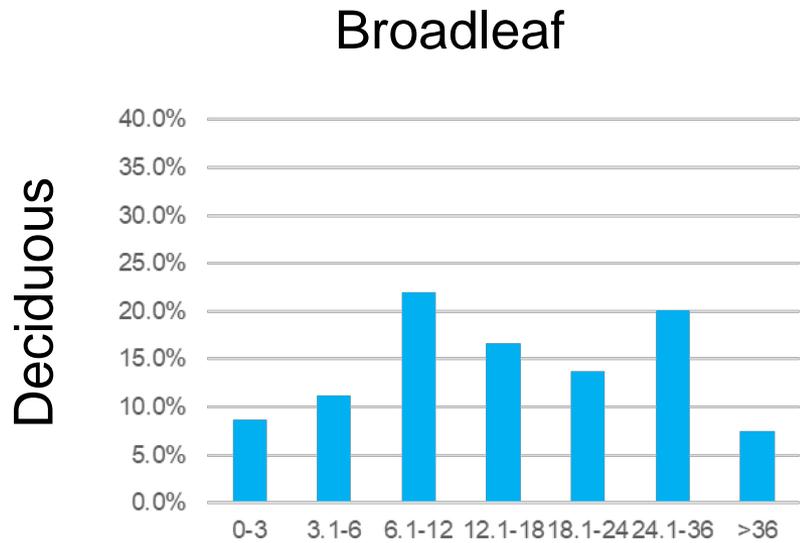


**Columbia Park
1910 Preliminary
Planting Plan**

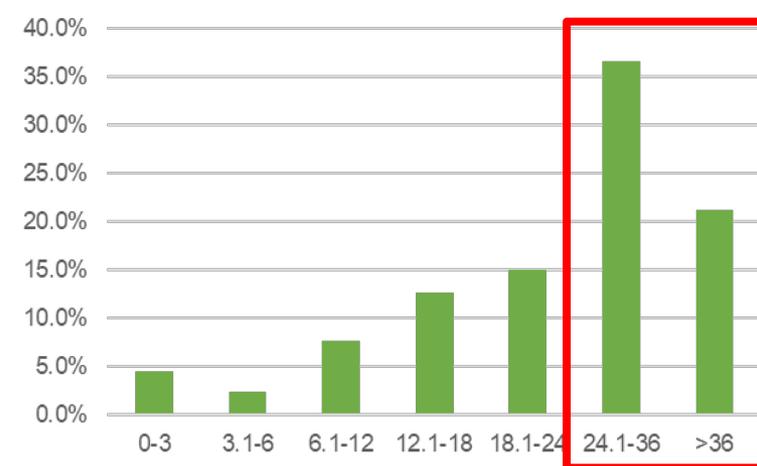
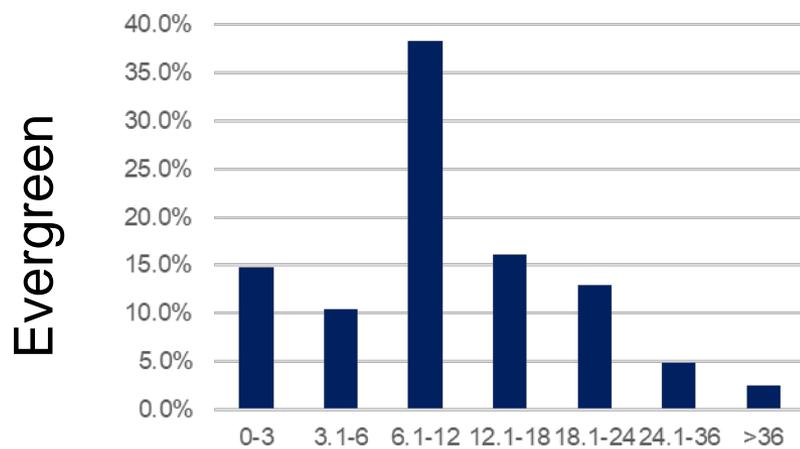
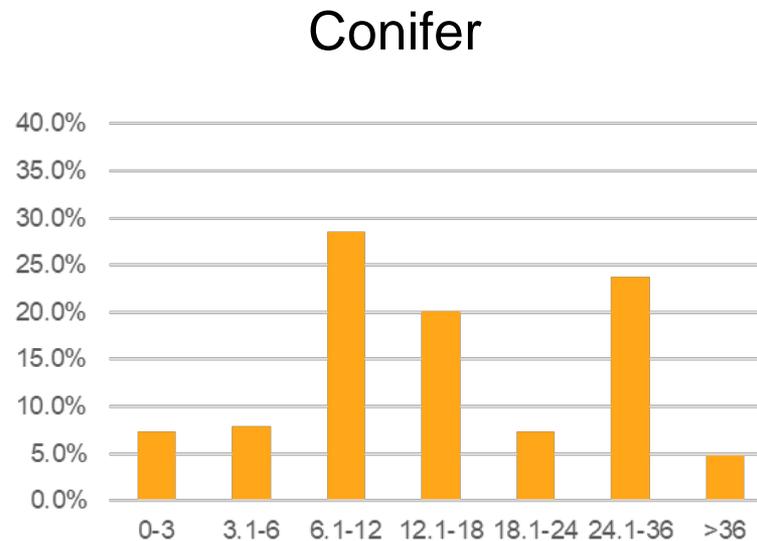
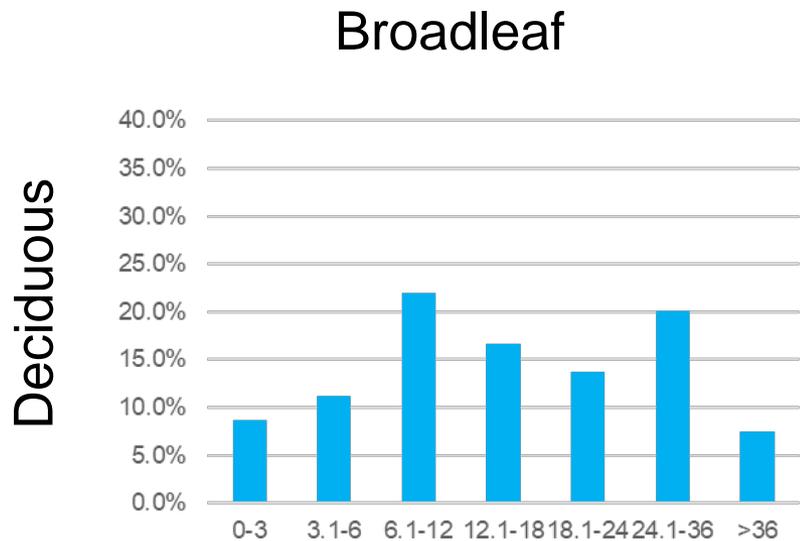
Diameter Size Class: Columbia Park, est. 1889



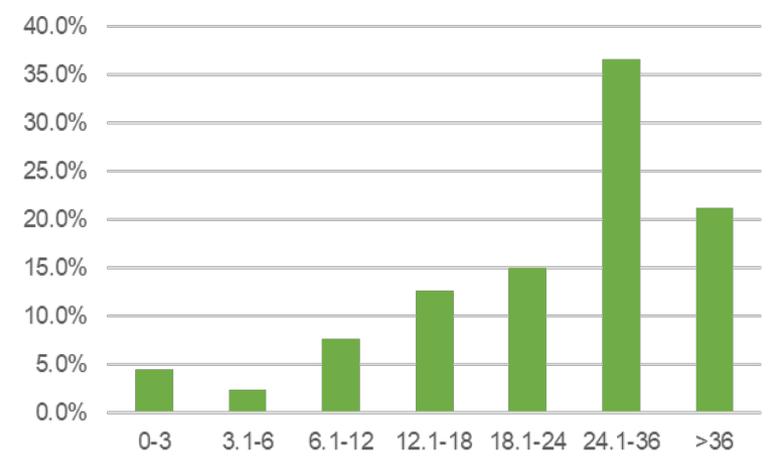
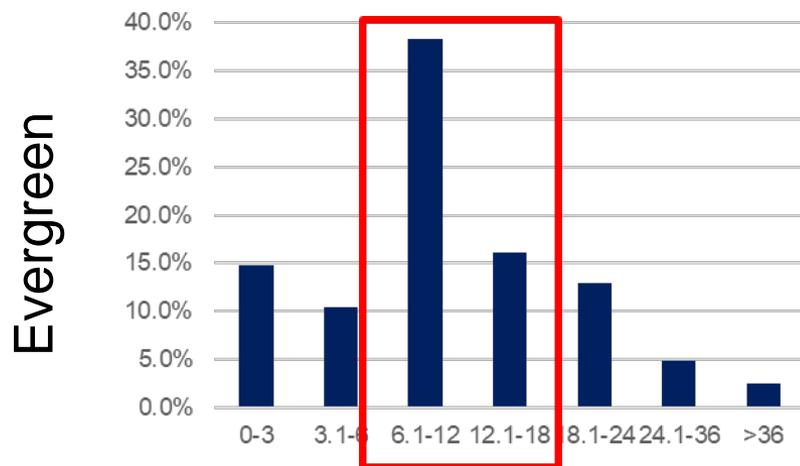
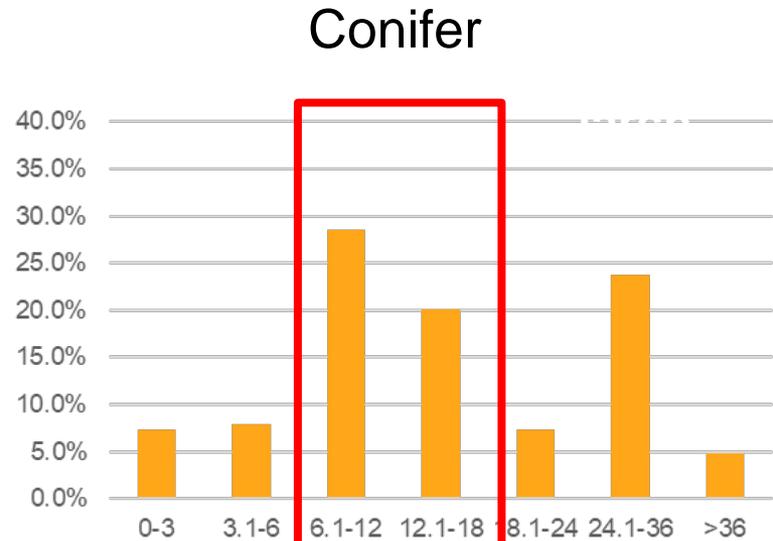
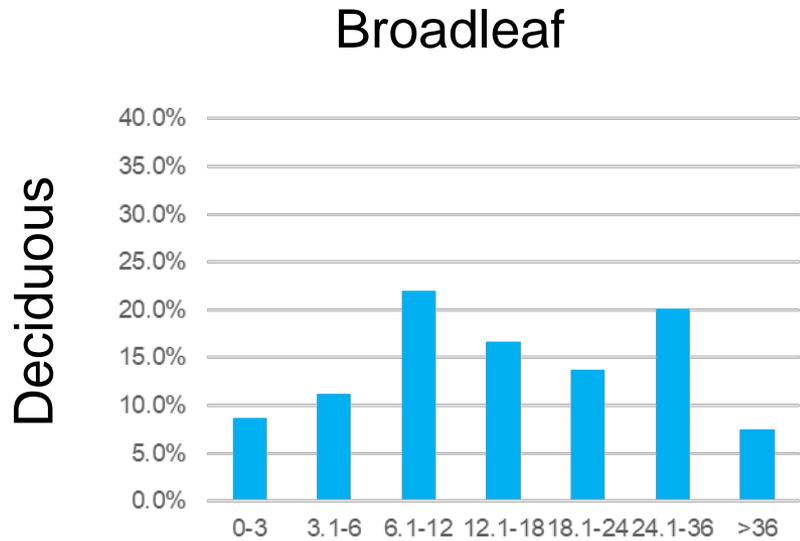
Size Class Distributions



Size Class Distributions



Size Class Distributions



New Plantings

Deciduous

Broadleaf



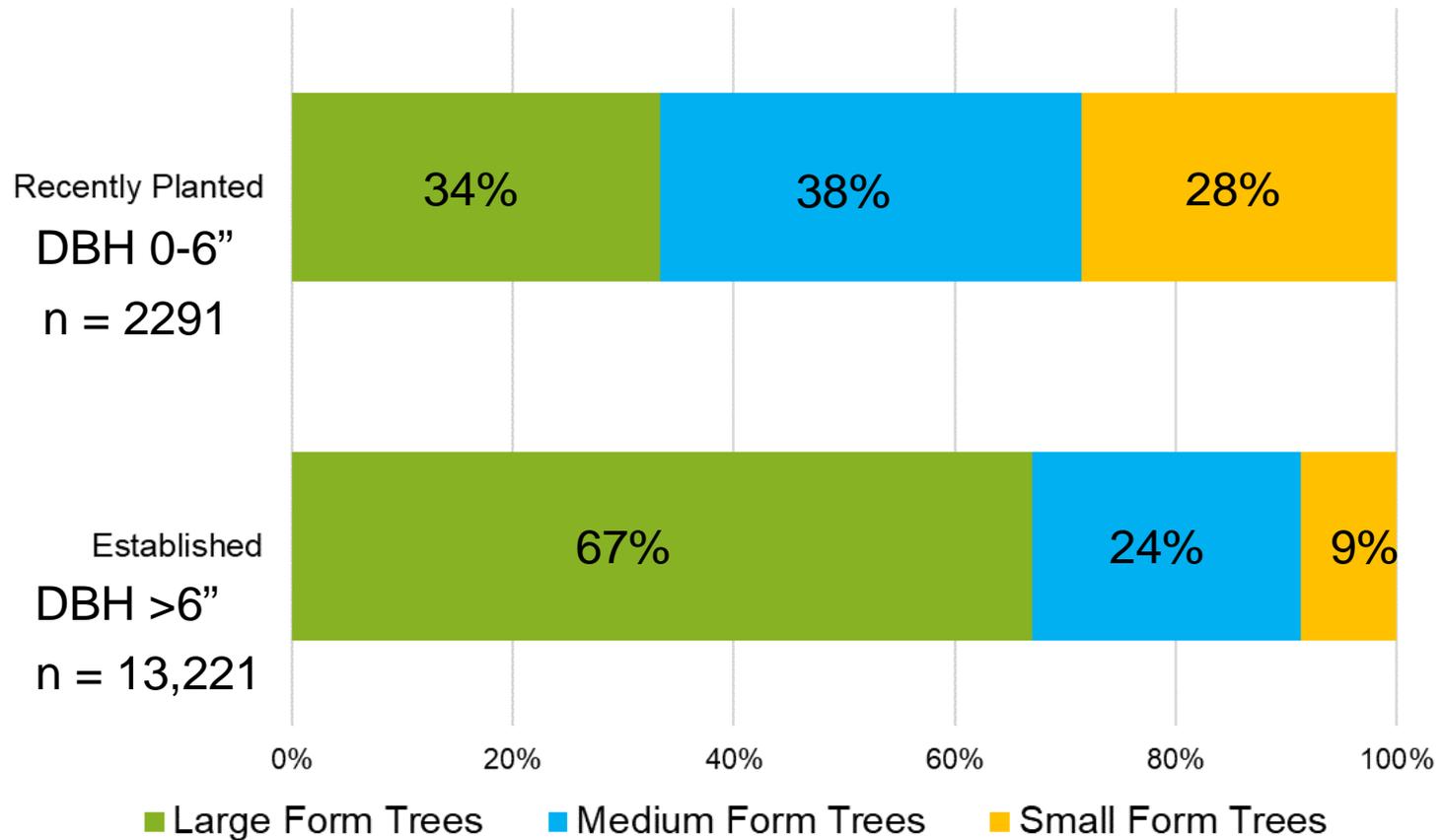
Conifer



Evergreen



New Plantings - Tree Size

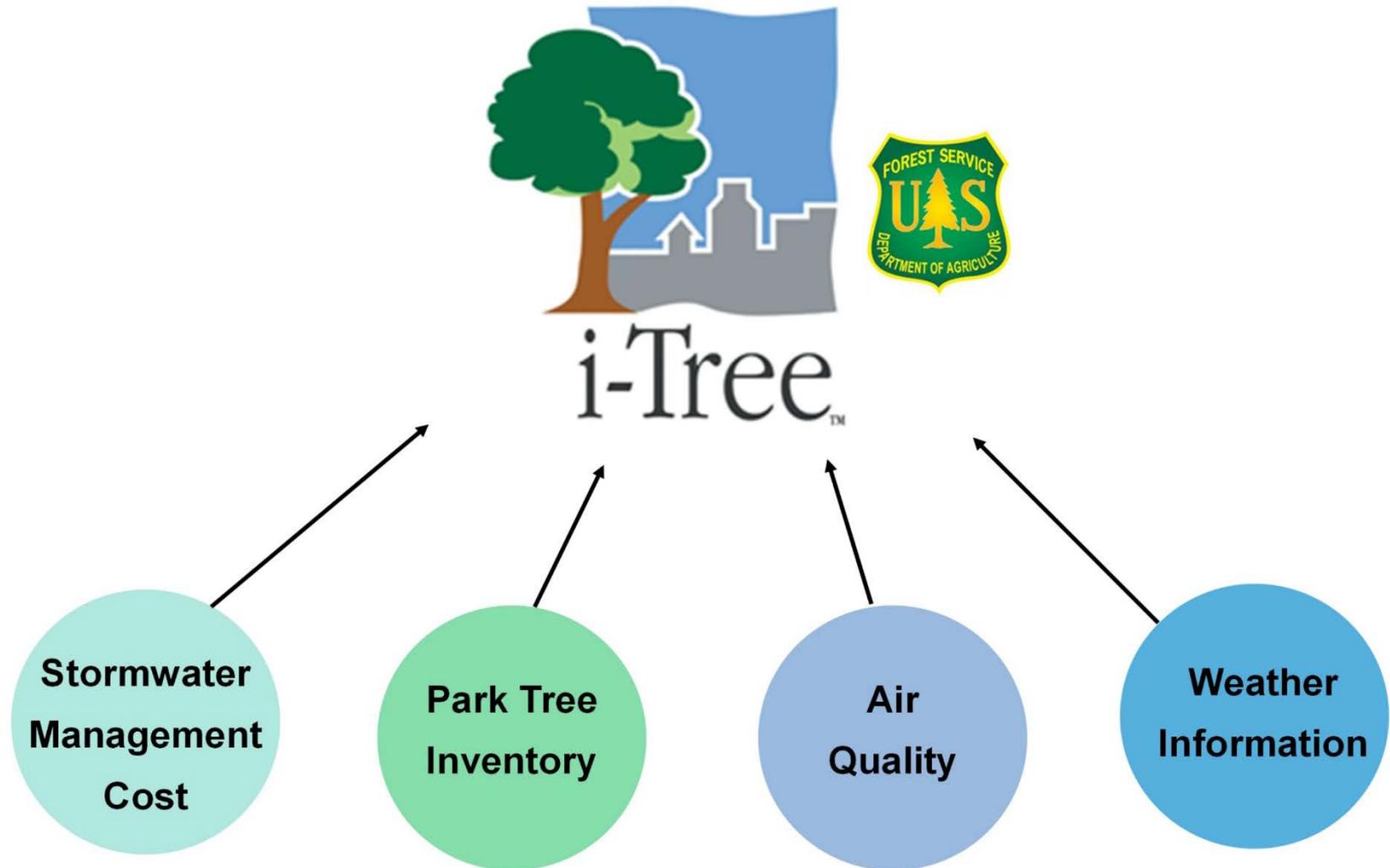


Benefits of Park Trees



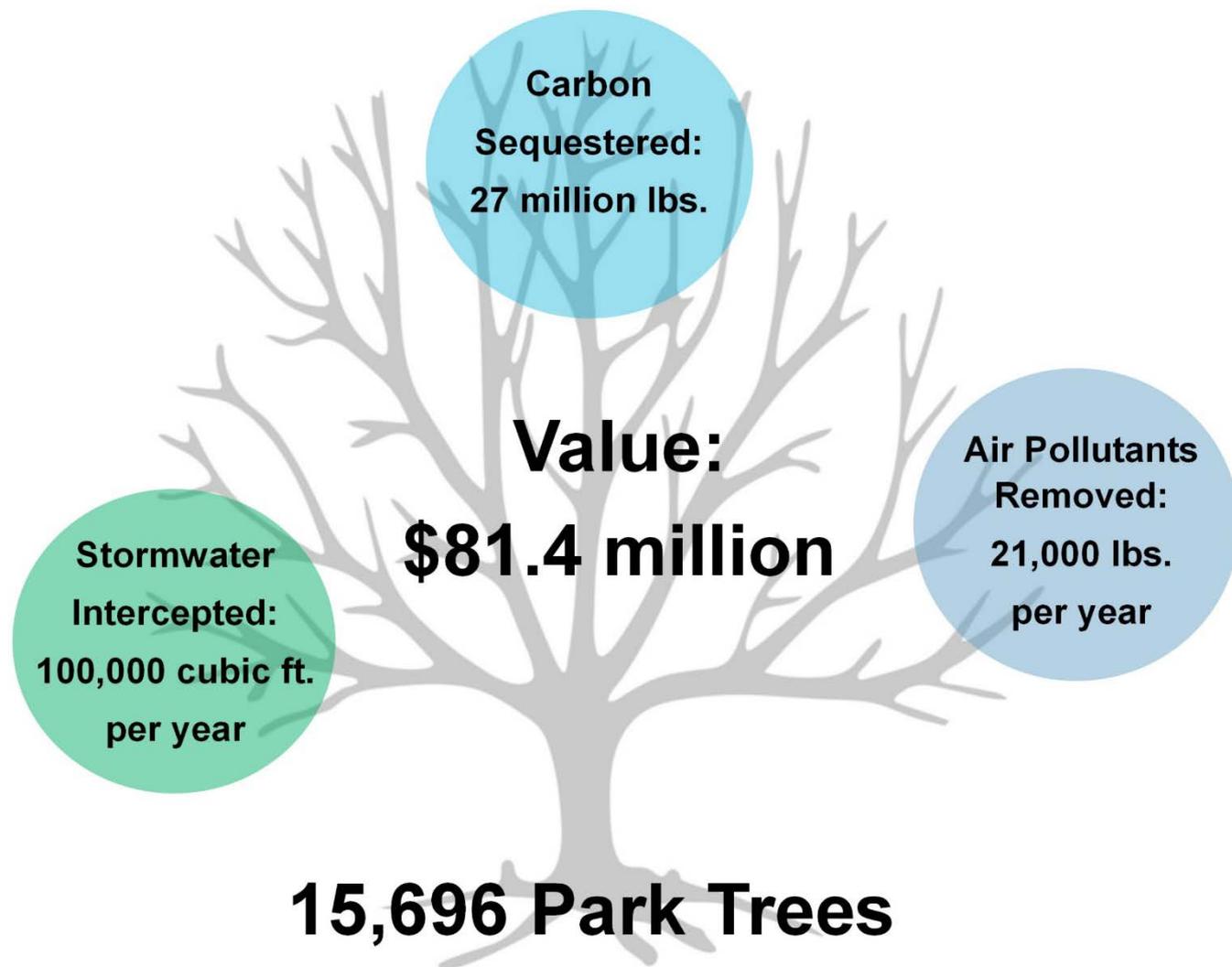
Kenton Park

Determining Benefits of Park Trees





Value and Environmental Benefits 2018



Exciting Finds!



*Crystal Springs
Rhododendron Garden*

Large-Form Natives



Black Cottonwood
Populus trichocarpa
Willamette Park



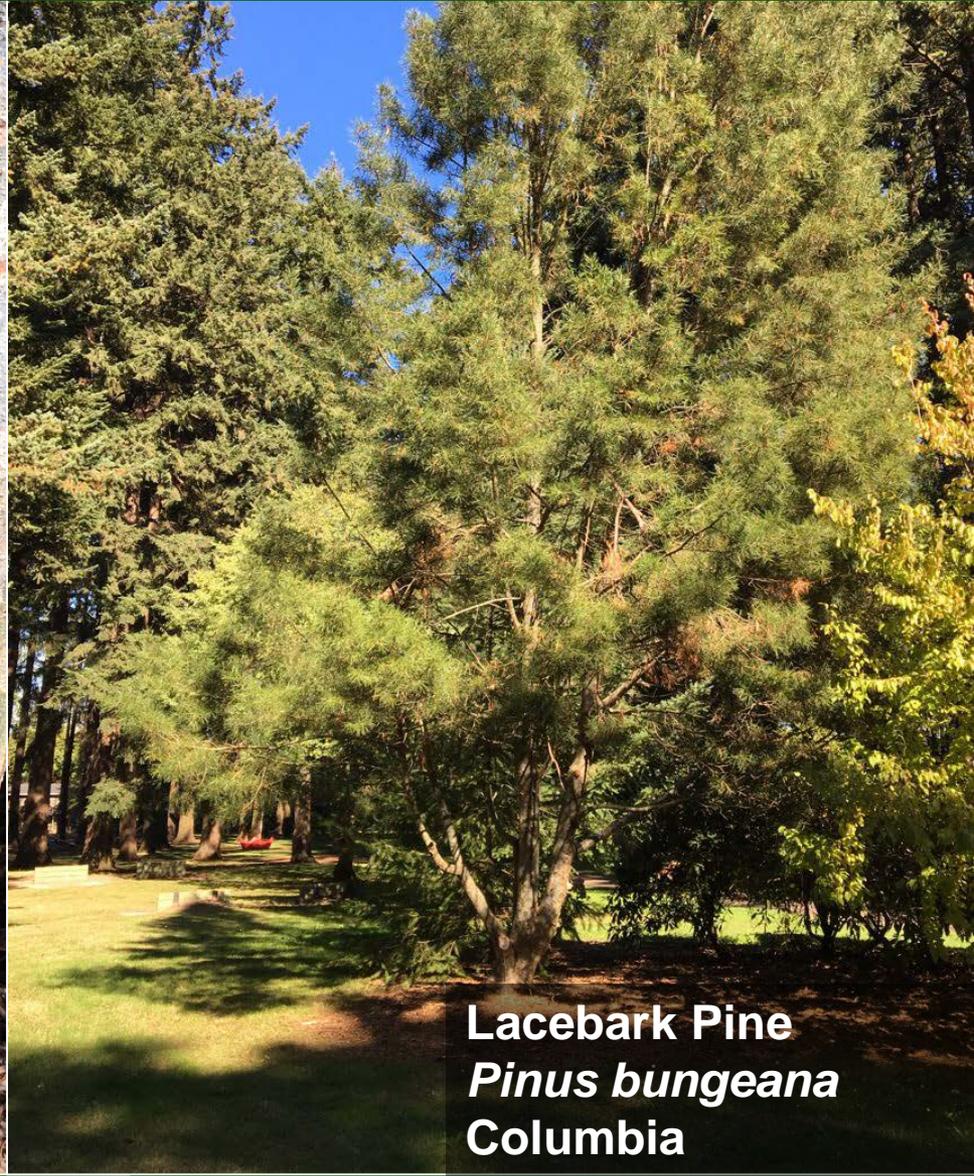
Oregon White Oak
Quercus garryana
Willamette Park



Oregon Myrtle
Umbellularia californica
Senn's Dairy City Park



Interesting Pines



Lacebark Pine
Pinus bungeana
Columbia



Aleppo Pine
Pinus halepensis
Willamette Park



Coulter Pine
Pinus coulteri
Berrydale Park



Ponderosa Pine
Pinus ponderosa
Columbia Park



Jeffrey Pine
Pinus jeffreyi
Gabriel Park

Laurelhurst Park finds





Carya ovata
Shagbark Hickory
Laurelhurst





Dawn Redwood
Metasequoia glyptostroboides
Laurelhurst



Spanish Chestnut
Castanea sativa
Laurelhurst



Evergreen Oaks



Coast live Oak
Quercus agrifolia
South Waterfront Park



Holly Oak
Quercus ilex
Harrison Park



Silverleaf Oak
Quercus hypoleucoides
Harrison Park



Cork Oak
Quercus suber

What Comes Next...

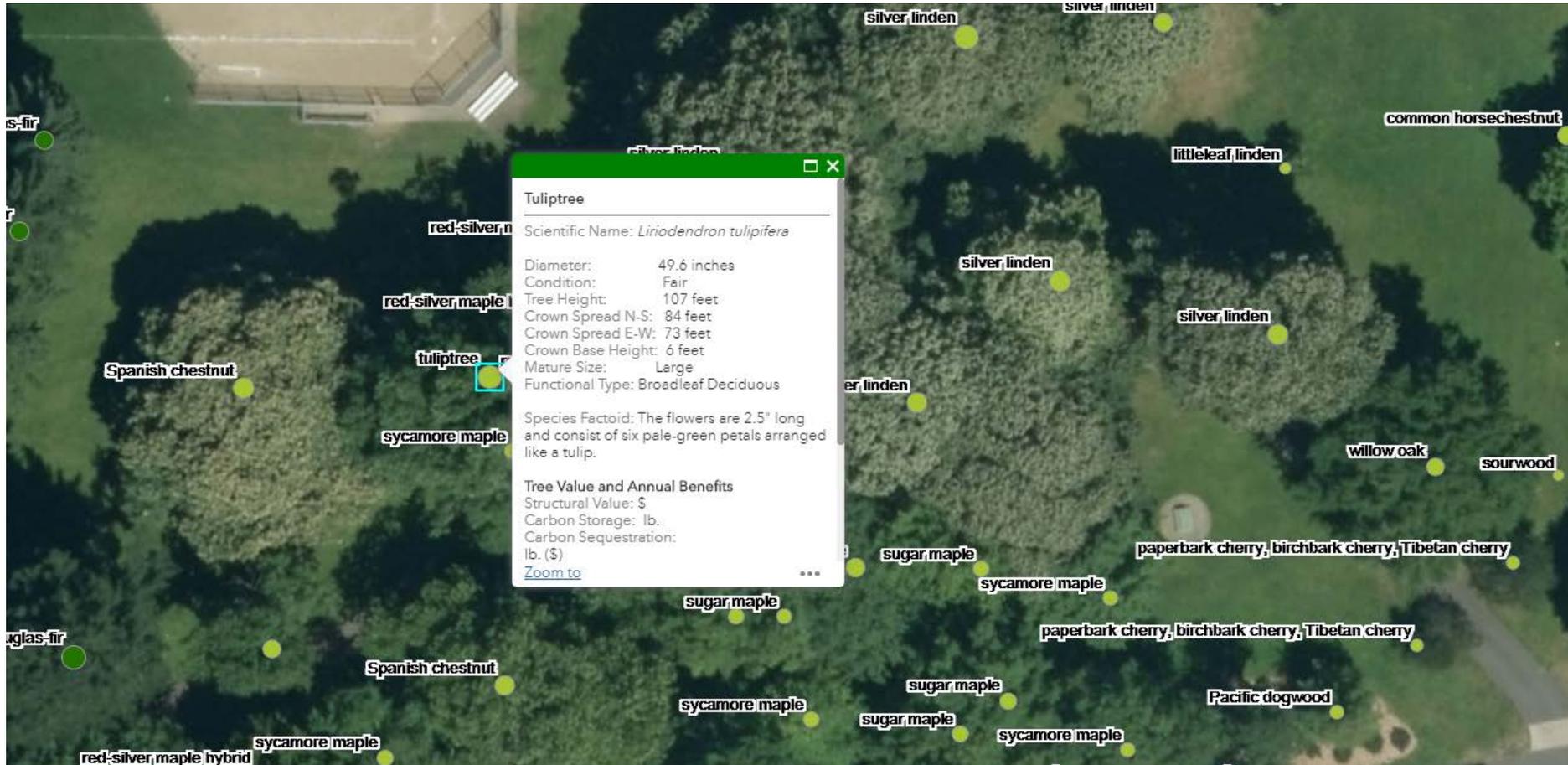


**Tree Walk in
Arbor Lodge**



**Pop-Up Arboretum at
Ventura Park**

Park Tree Inventory Map



www.tinyurl.com/pdxparktrees

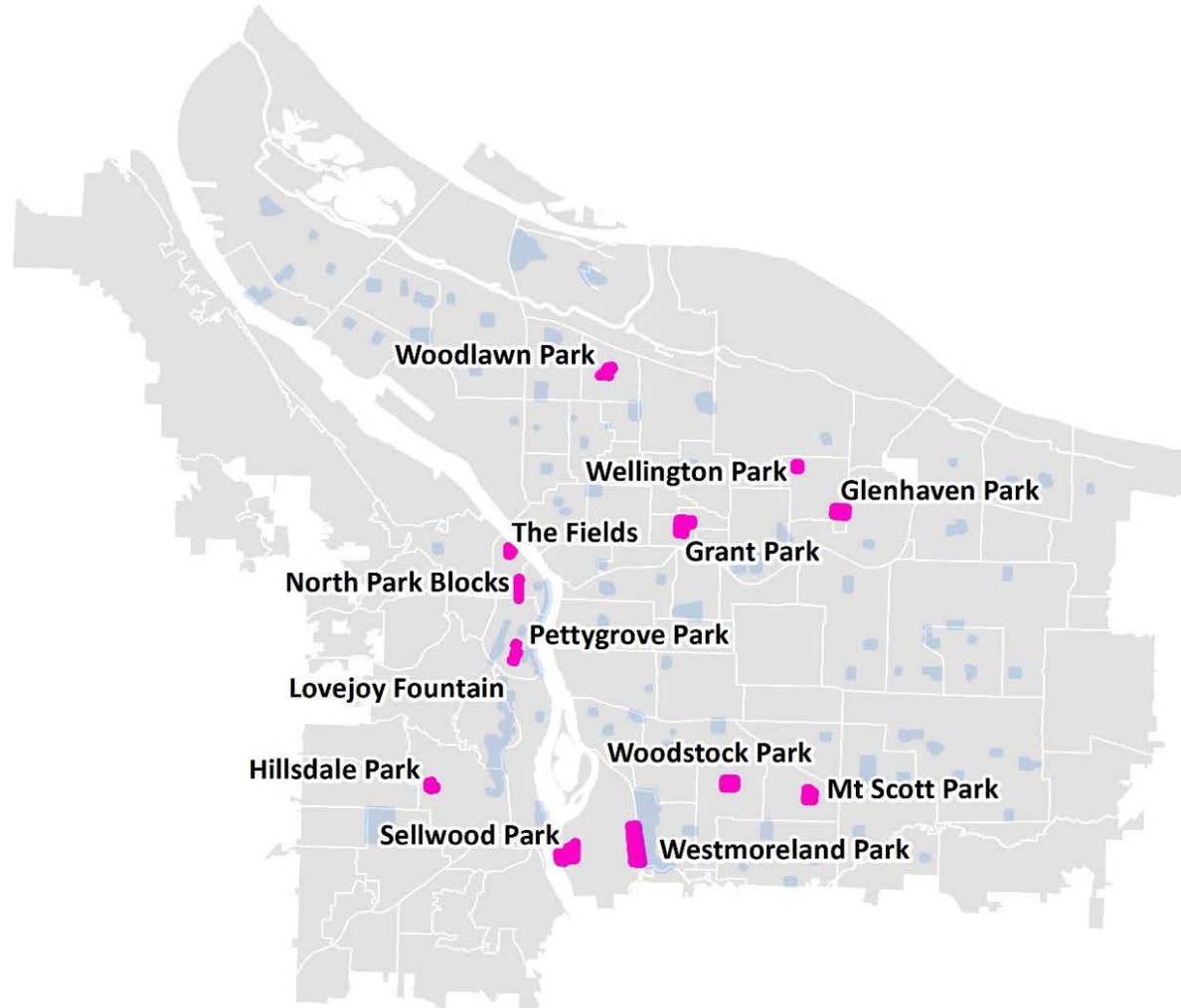


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Park Tree Inventory 2019!



Questions?



Oregon Park