

Tree Summit 2019

Healthy Parks, Healthy Portland





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Agenda

9:00am – 9:10am	Welcome Jeff Ramsey, Science and Policy Specialist, PP&R Urban Forestry
9:15 am – 10:00 am	Results from Portland's First Inventory of Neighborhood Park Trees Bryn Davis and Bianca Dolan, PP&R Urban Forestry
10:05 am – 10:20 am	Canaries in the Coal Mine: Studying urban trees reveals climate impacts on native forests Aaron Ramirez, Professor of Biology, Reed College
10:25 am – 10:40 am	Thuja plicata, Hakuna Matata? The Mystery of Western Redcedar Decline in the Pacific Northwest Christine Buhl, Forest Entomologist, Oregon Department of Forestry
10:45 am – 11:00 am	Break
11:00 am – 11:15 am	Art and Activism in the Urban Forest: The Tree Emergency Response Team Ashley Meyer, Elisabeth Art Center
11:15 am – 11:30 am	Film Screening: 82 nd and Verdant Filmmaker James Krzmarzick and Dave Hedberg of the Canopy Stories Film Project
11:35 am – 11:45 am	Bill Naito Community Trees Award Ceremony Jenn Cairo, City Forester, PP&R Urban Forestry
11:50 am – Noon	Growing Portland's Future Forest Together Angie DiSalvo, Science and Outreach Supervisor, PP&R Urban Forestry
Noon – 1:00pm	Lunch and Breakout Session

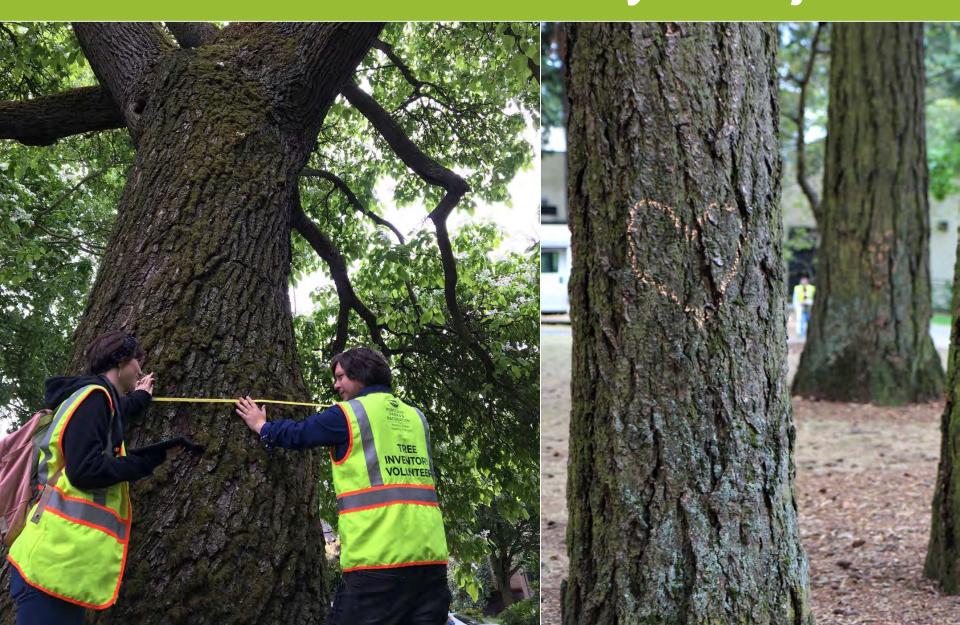








The Tree Inventory Project





UNDESIRABLE TREES FOR PARK USE

1. Silver Maple (Acer saccarinum) - Breaks up.
2. London Plane (Platanus acerfolia) - Anthracnose.
3. Tulip Poplar (Liriodendron tulipifera) - Bacterial Canker.
4. American Elm (Ulmus americana) - Dutch Elm Disease.
5. Siberian Elm (Ulmus pumila) - Breaks up and short lived.
6. Tree-of Heaven (Ailanthus altissima) - Breaks up.
7. Red Sunset Red Maple (Acer rubrum 'Red Sunset') - Highly susceptible to bacterial canker.
8. Box Elder (Acer negundo) 9. Lombardy Poplar (Populus nigra italica) 10. Red Alder (Alnus rubra) - Short lived.
11. Oregon Ash (Fraxinus oregona) - Dirty Tree.
12. Bigleaf Maple (Acer Macrophyllum) - Highly susceptible to Verticcillium Wilt.
13. Sweetgum (liquidambar styraciflua) - Breaks up.
14. Native Willow (Salix) - Highly susceptible to borers.
15. Sunburst Locust (Cleditsia tricanthos inermis 'Sumburst') - Branching habit.

SAVE -16. Pin Oak (Quercus palustris) - Branching habit.

Overlook Park

No. 72

TREES

Acer macroptyllum

Acer palmatum

Acer palmatum BLOODLEAF

Acer platanoides

Aesculus hippocastanum

Ailanthus altissima

Betula pendula

Juglans nigra

Liriodendron tulipifera

Malus spectabilis RIVERS

Picea pungens

Populus trichocarpa

Tilia tomentosa

Ulmus americana

Grand Fir

Bigleaf Maple
Japanese Maple
Bloodleaf Japanese Maple
Norway Maple
Common Horsechestnut
Treeofheaven Ailanthus
European White Birch
Eastern Black Walnut
Tuliptree
Rivers Flowering Crabapple
Colorado Spruce
California Poplar
Silver Linden
American Elm



Smuth ark blocks

No. AA

T921 5

Ausc Seccharum Sunar Maple

Allantous altissima Treeofheaven Wilsolmus

Fraxinus americana White Ash

Jugishs nigra - Eastern Black Walnut

Pinus contorta Shore Pins

Plafabus occidentalis // American Planetras

Prunus serrulate KWANZAN Swenzen Griental Cherry

Prinus Veddenais AKCEONO Akehonn Yoshino Checry

Twerous cocrinea Scarlet Mak

The proceeding SYRAMIDAL CASTEAN Vyramida Eastern Arborvitae

(ilia tomentose Silver Linden

Ulmus americane American Elm



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





Urban Forestry Goals



Understand

Species distribution in parks

Plan

New parks and maintenance needs

Target

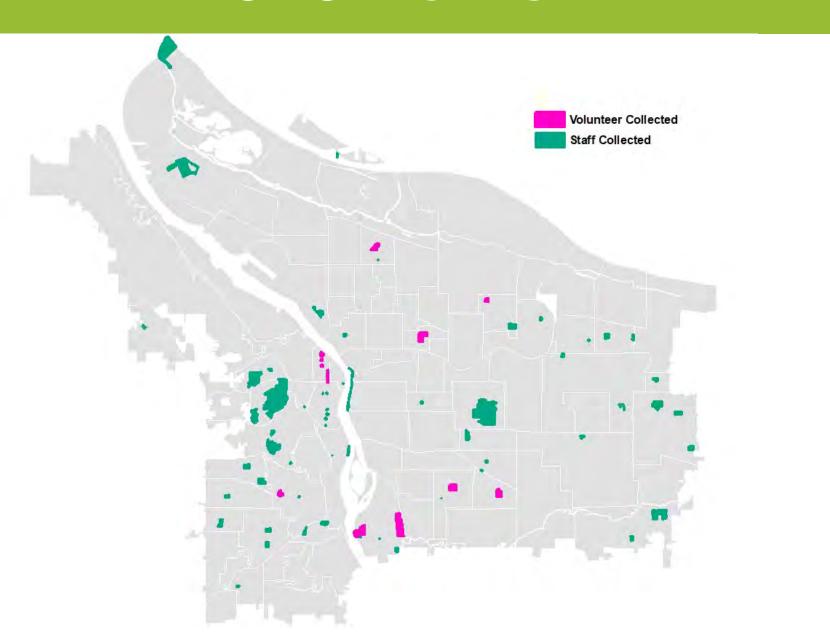
Parks for additional plantings

Where Do We Inventory?



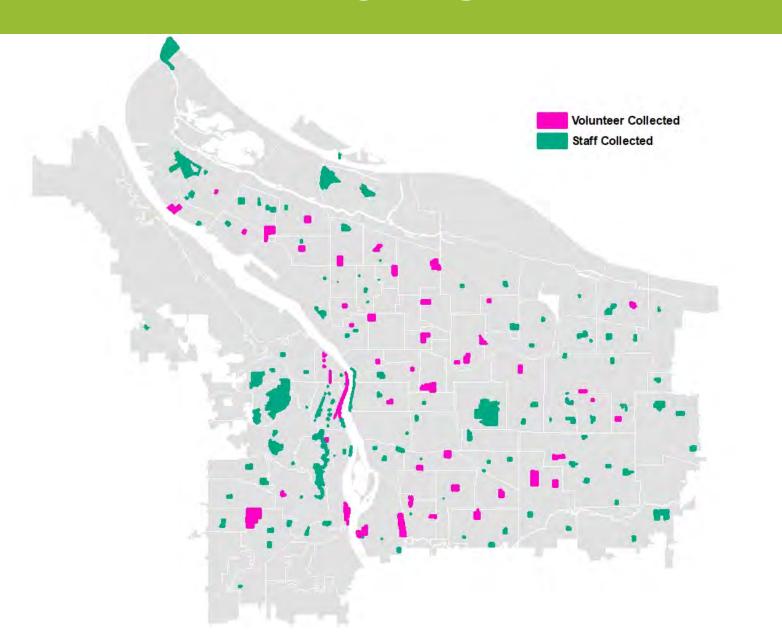


2019 Parks





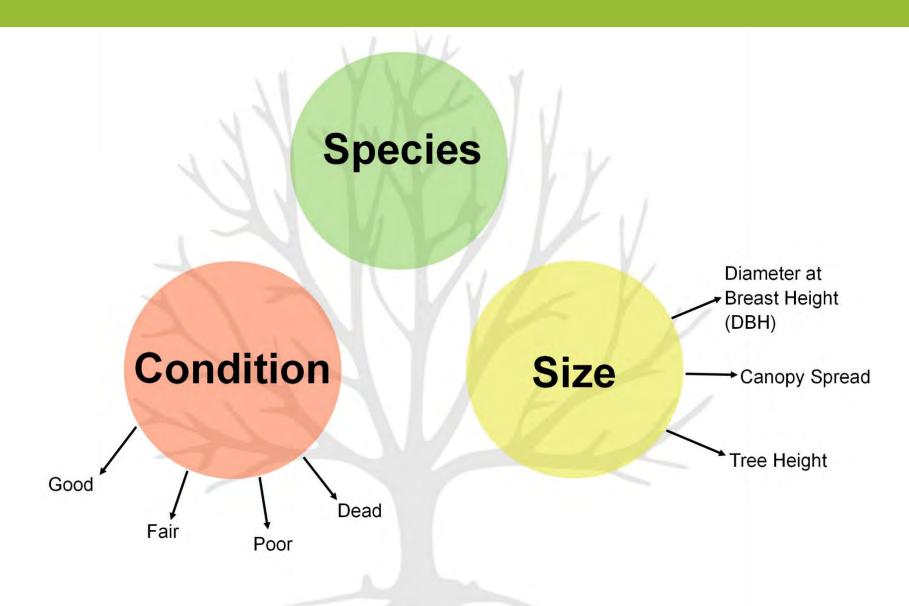
All Parks





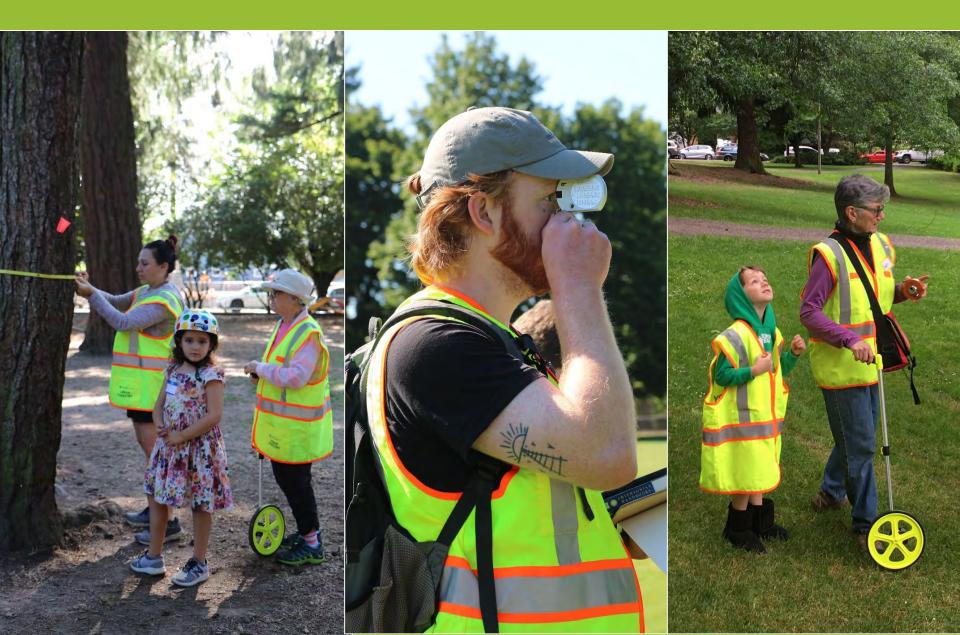


What is Collected?



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Data Collection Methods



The Results Are In!



Distribution of Park Trees

Region	# Parks	Average Park Canopy Cover	Total Tree Count
West	47	48%	5,310
North	30	42%	4,527
Northeast	26	39%	3,471
Southeast	36	40%	6,230
East	36	32%	5,731
N NE	a Ale		

SE

Ten Most Common Trees

Common Park Trees % of population Douglas-fir 27% Norway maple 6% Western redcedar 4%	
Norway maple 6%	
Western redcedar 4%	
170	
Northern red oak 3%	V.
Pin oak 2%	
Incense cedar 2%	
Bigleaf maple 2%	
Flowering cherry 2%	
American elm 2%	N
Giant sequoia 1%	
Total 53%	



Native Trees in Parks

Common Park Trees	% of population	
Douglas-fir	27%	
Norway maple	6%	
Western redcedar	4%	
Northern red oak	3%	
Pin oak	2%	
Incense cedar	2%	
Bigleaf maple	2%	
Flowering cherry	2%	
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Giant sequoia	1%	





Common Family & Genera

			THE RESERVE OF THE PERSON OF T
Family	% of population	Genus	% of population
Pinaceae	36%	Pseudotsuga	27%
Sapindaceae	15%	Acer	14%
Fagaceae	9%	Quercus	8%
Rosaceae	9%	Prunus	5%
Cupressaceae	7%	Pinus	4%
			Tanner Springs



Functional Types

Deciduous

Broadleaf



Conifer



Evergreen





Functional Types in Parks

Deciduous

Broadleaf



Conifer



Evergreen





Functional Types in Parks

Deciduous





Conifer



Evergreen







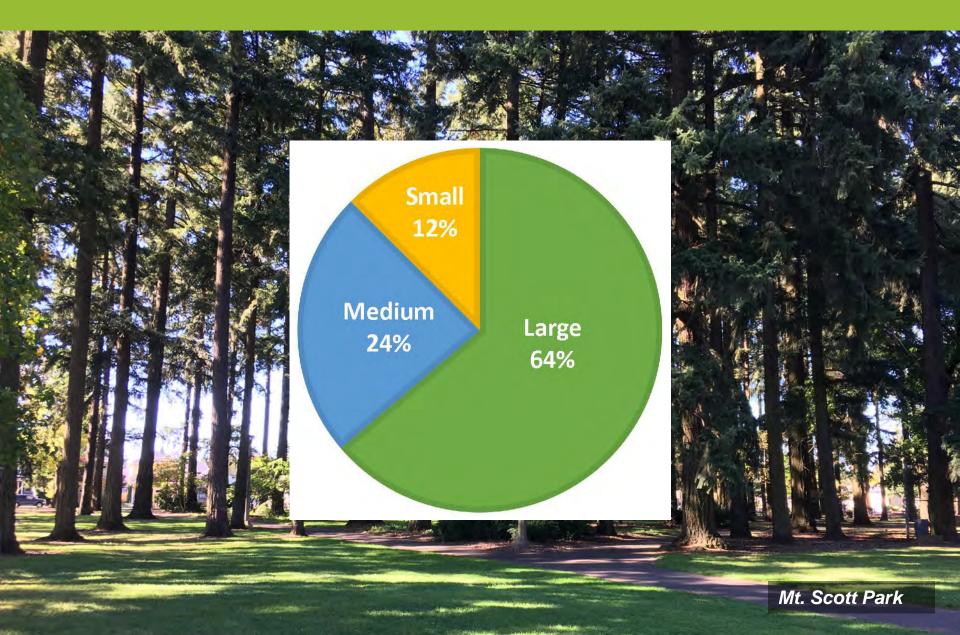
Mature Tree Size







Mature Tree Size





Mature Tree Size







Park and Street Trees

Most Common Park Trees	% of tree population N = 25,269
Douglas-fir	27%
Norway maple	6%
Western redcedar	4%
Northern red oak	3%
Pin oak	2%
Incense cedar	2%
Bigleaf maple	2%
Flowering cherry	2%
American elm	2%
Giant sequoia	1%

0.3	NOTES VERNILLY NA	
	Most Common Street Trees	% of tree population N = 218,610
STATE OF	Norway maple	9%
15/10	Red maple	7%
100	Cherry	6%
ALC: UNKNOWN	Pear	5%
1	Plum	5%
-	Maple, other	5%
130 150	Ash	4%
	Dogwood	4%
05 WR 37	Oak, deciduous	3%
18/1/1	Crabapple	3%

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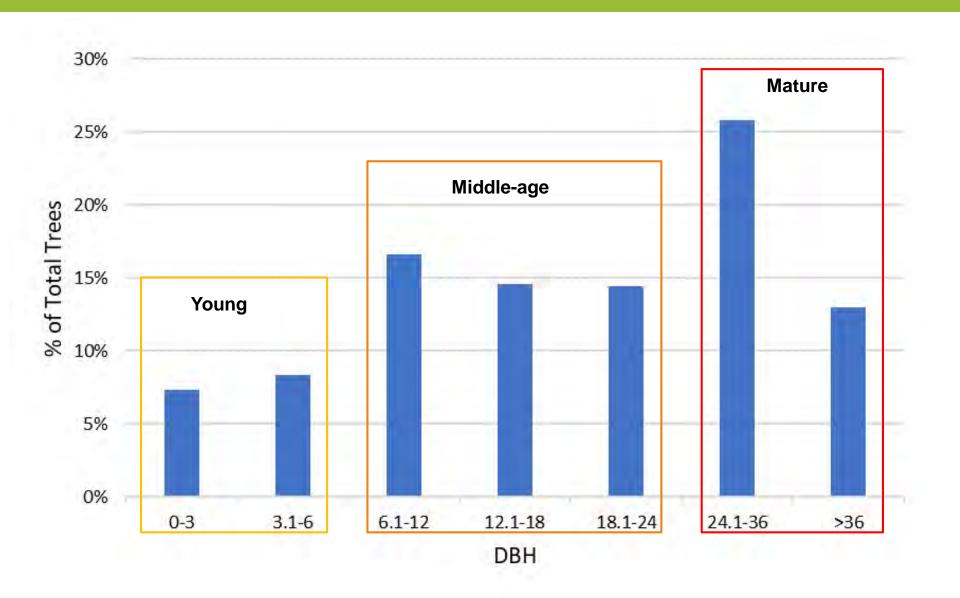
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Plum	5%
Maple, other	5%
Ash	4%
Dogwood	4%
Oak, deciduous	3%
Crabapple	3%

Age and Class Size



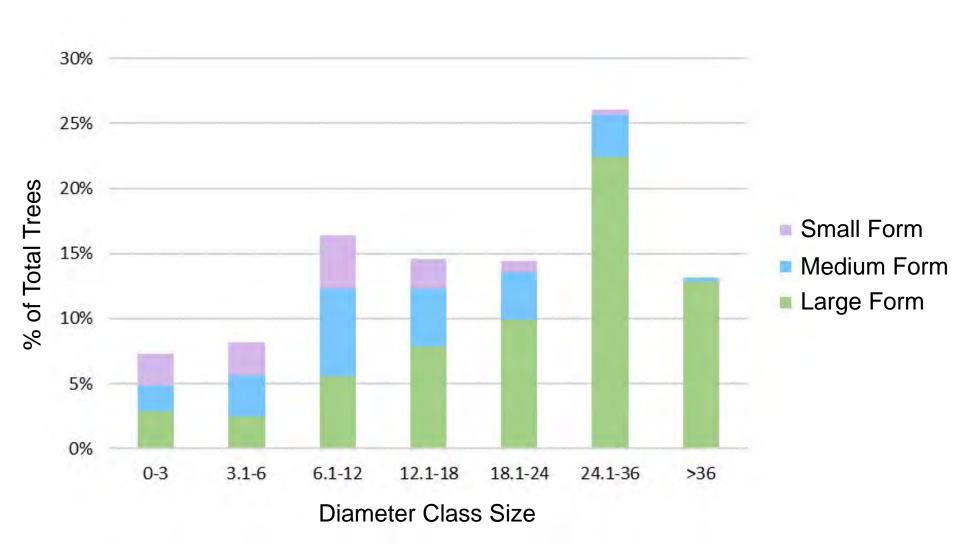


Age and Class Size





Age and Mature Tree Size

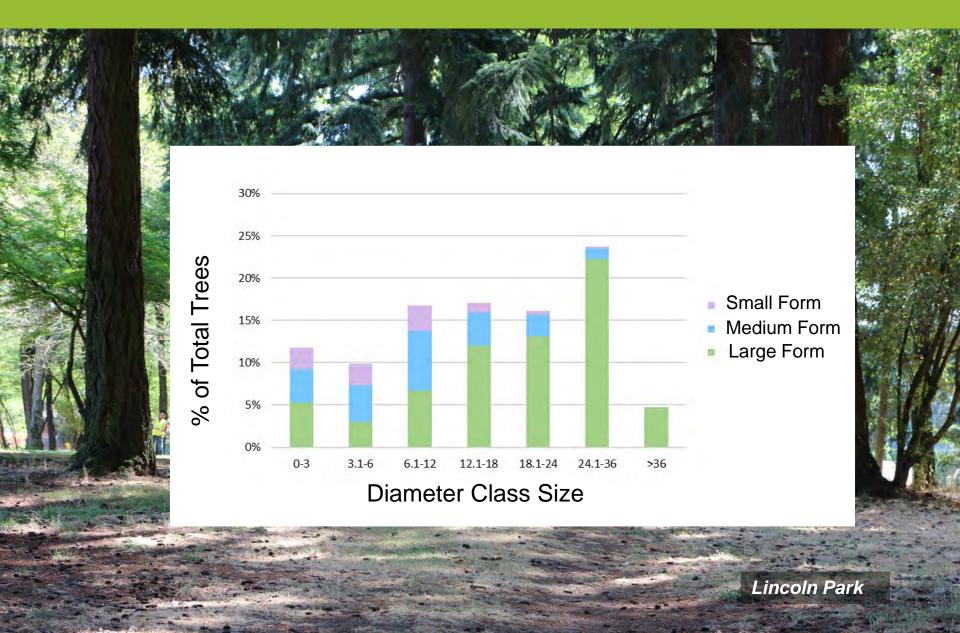




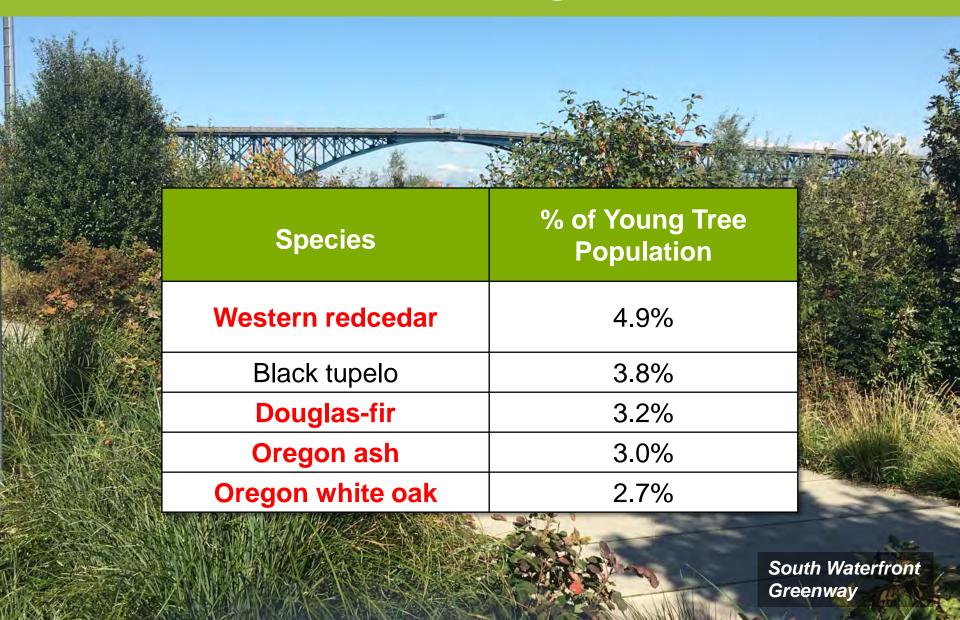
West Portland



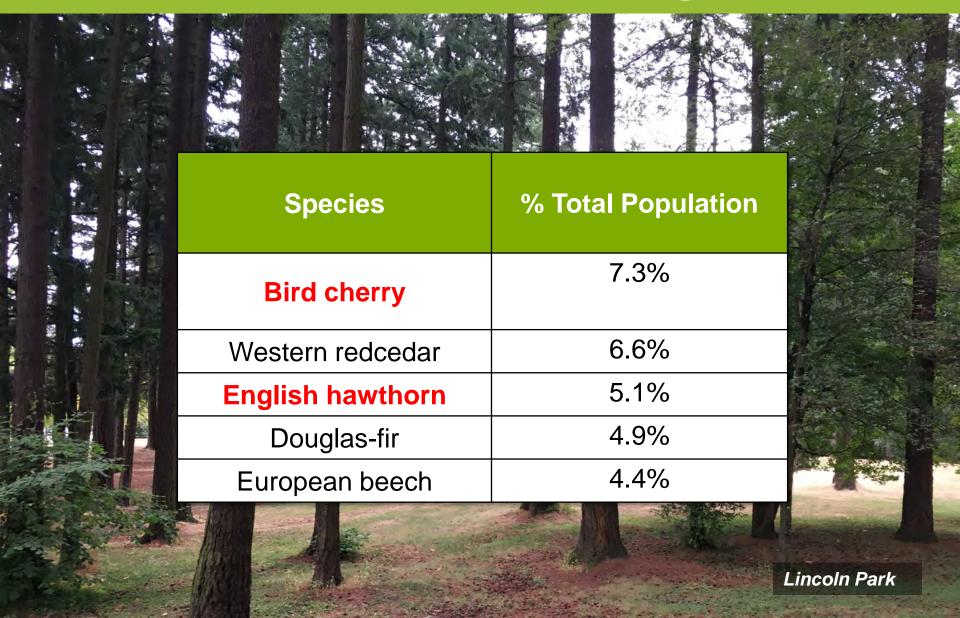
East Portland



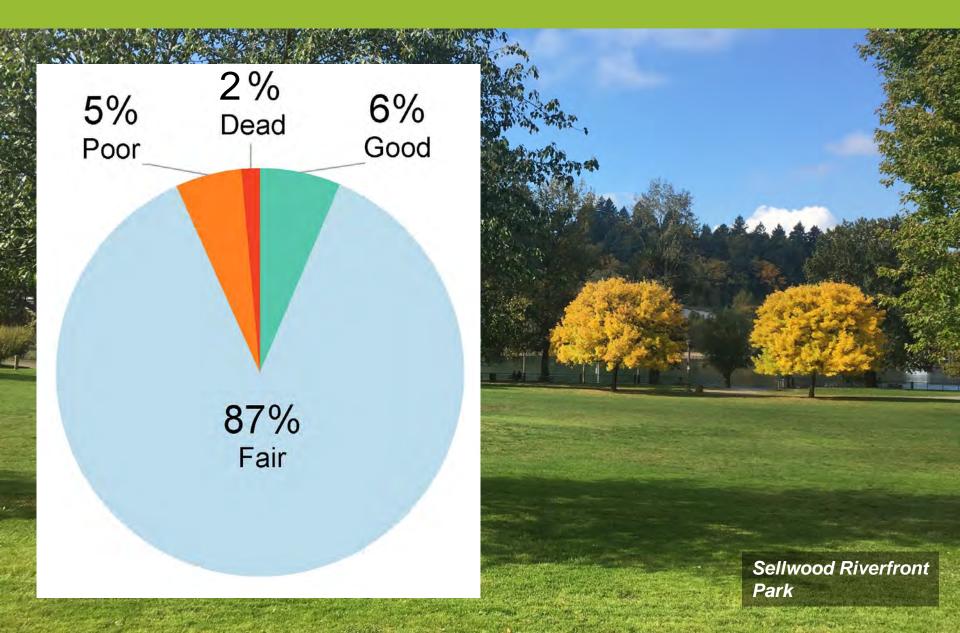
Top 5 Young Trees



East Portland Young Trees



Condition of Park Trees



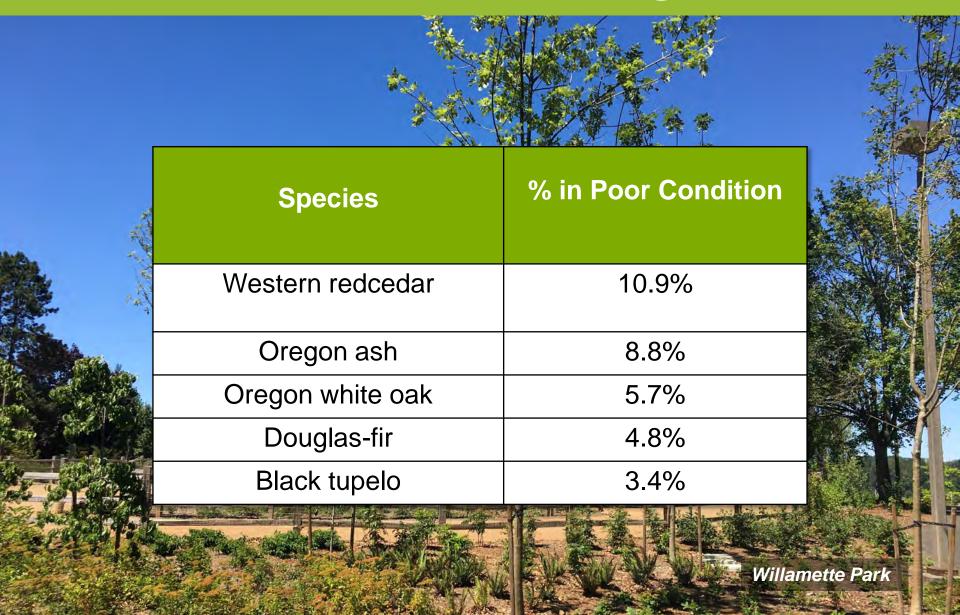
Best & Worst Condition

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Species	% in Poor Condition
Crabapple (all cultivars)	23.2%
Cherry (all cultivars)	21.8%
Paper birch	20.7%
Red alder	18.8%
Eastern redbud	16.7%

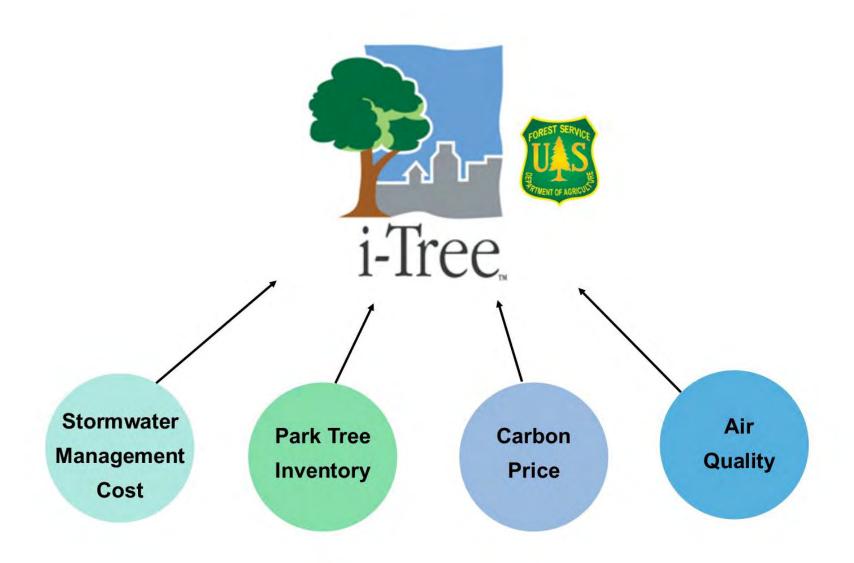
Species	% in Good & Fair Condition
Grand fir	100%
Deodar cedar	100%
Blue Atlas cedar	100%
Giant sequoia	100%
Large leaf linden	100%

Condition of Young Trees



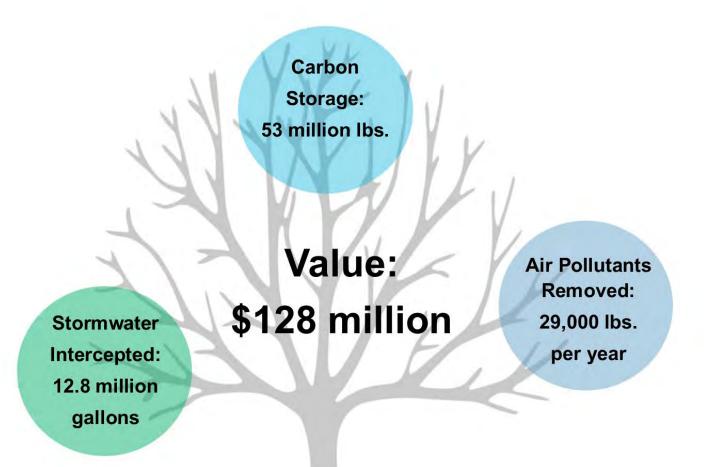


Park Tree Services





Park Tree Services



25,643 Park Trees

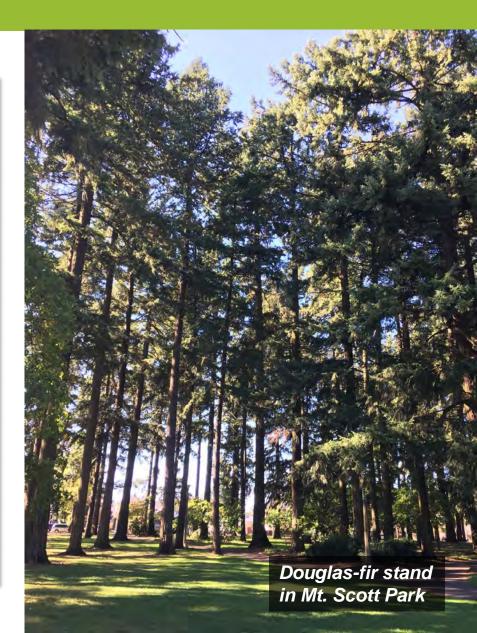
Climate Resilience in Parks





Climate Resilience in Parks

Most Common Street Trees	% of tree population N = 25,269	
Douglas-fir	27%	
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Western redcedar	4%	
Northern red oak	3%	
Pin oak	2%	
Incense cedar	2%	
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Vulnerability to Invasive Pests



Asian Longhorned Beetle (ALB)

Anoplophora glabripennis

Image credit: Photograph by Barbara Strnadova/Getty.

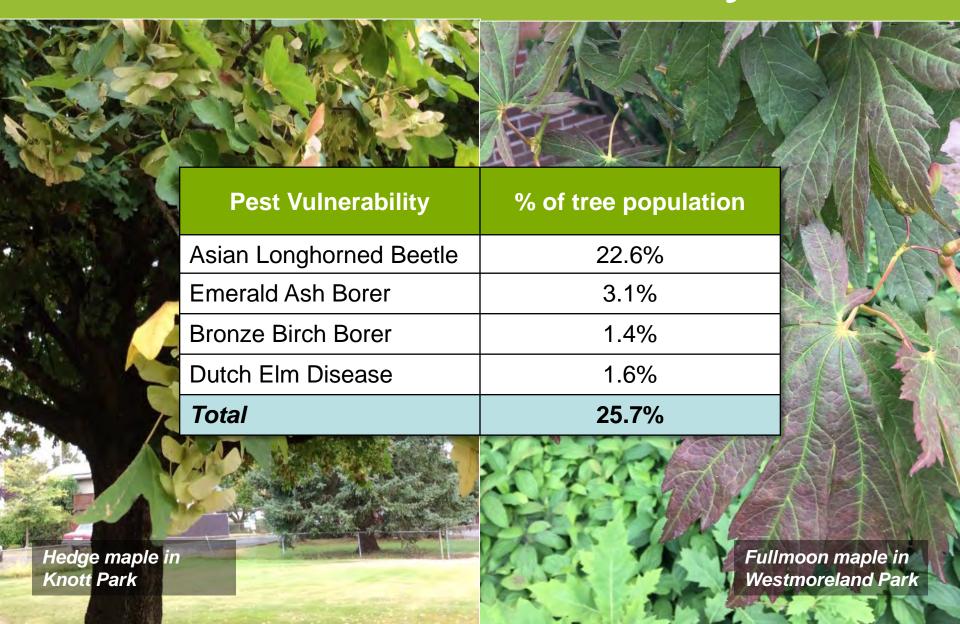


Emerald Ash Borer (EAB)

Agrilus planipennis

Image credit: Photograph by Pennsylvania Dept. of Conservation and Natural Resources-Forestry.

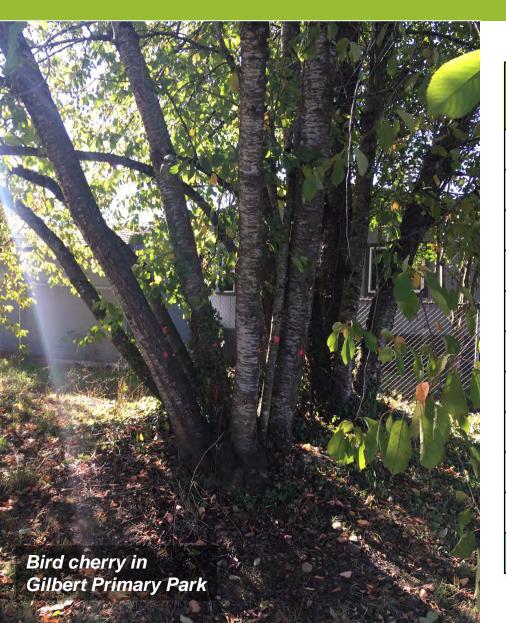
Pest Vulnerability



Pest Vulnerability by Region



East Portland Trees



Most Common Park Trees	% of tree population
Douglas-fir	27%
Norway maple	6%
Northern red oak	4%
Bird cherry	3%
Western redcedar	2%
English hawthorn	2%
Bigleaf maple	2%
Black locust	2%
Incense cedar	2%
Cherry	1%
Total	53%

Pest Vulnerability











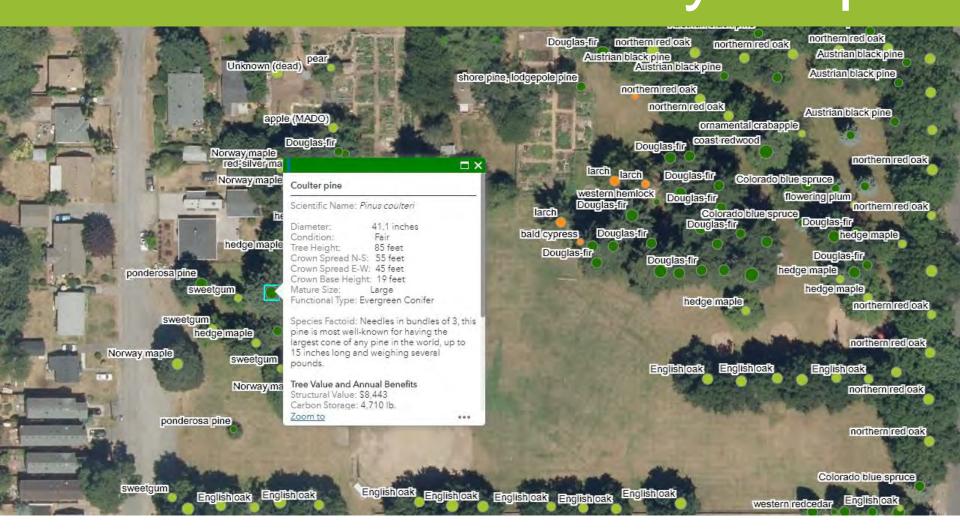




What Comes Next...



Park Tree Inventory Map



www.tinyurl.com/pdxparktrees



Thank You!

