After the Storm: Subtle to Severe

Storm Preparation and Response
Larry Maginnis- Urban Forestry Supervisor

ISA Certified Arborist – Municipal Specialist
ISA Certified Tree Worker Climber Specialist
ISA Certified Tree Worker Aerial Lift Specialist
ISA Tree Risk Assessment Qualification
ASCA Consulting Academy - Graduate
Municipal Foresters Institute-Graduate
B.S. Forestry -University of Montana
City of Portland – Urban Forestry Division

- 145 Square Miles
- 50-1188’ Elevation
- 4851 Miles Of R.O.W.
- 218,610 Street Trees
- 3+ Million Park Trees
- ~140 Developed Parks
- ~100 Undeveloped Parks
PP&R Urban Forestry Division

Urban Forestry Division Manager (City Forester)
Jennifer Cairo

Assistant Program Specialist
Brian Lundoe

Urban Forestry Permitting
Supervisor
Casey Jogerst

Assistant Program Specialist
Richard Fisher

Tree Inspectors
James Field
Jon Smith
Frank Krawczyk
Andrew Gilstrom
Dylan Saito
Jason Nolts
Kelly Kooyler
Daniel Gallo
Casey Grass
Brandon Nimm

Development Services Tech II
Joseph Walker
Matthew Myhre
Julie Fujii

Urban Forestry Operations Supervisor
Larry Maginnis

Arborist IV
Jerome Johnson
John Vettens

Arborist III
Rory Cramer
Michael Illison
Rebekah Gurney
Joseph Merkle
VACANT

Arborist II
Kimberly Hicks
Theodore Krabbe
Eric Smith
VACANT

Arborist I
Xavier Ricken-Martinez
Sr. Admin. Specialist
Natalie Liptak

Botanical Specialist II
Jeff Burmay
Leanne Wells
Nicholas Desai

Botanical Specialist I
Gerine Dalka

Urban Forestry Science & Outreach Supervisor
Angie DiSalvo

Urban Forestry Science & Outreach

Tree Inspections

Forestry Operations
Thinking about removing or pruning a tree?
Updated tree rules are in effect for properties across the city.

STREET TREES - Tree removal, planting and most tree maintenance in a curb or planting strip requires a permit. Planting and pruning permits are free.

YARD TREES - Removal of large yard trees requires a permit. Zoning restrictions may exist for tree removal, depending on where you live.

REPLANTING - Planting new trees is often required when a tree is cut so that future generations can enjoy the benefits of our urban forest. A mitigation fee may be required if replanting is not feasible.

DEVELOPMENT - Tree rules and permitting requirements apply to both construction and non-construction situations.

PUBLIC SAFETY IS ALWAYS FIRST - Any tree that becomes dangerous will be permitted for removal. Call 503-823-TREE (8733) 24 hours a day if there's a street tree emergency in your neighborhood.

ENHANCING OUR URBAN FOREST - The City's trees and the urban forest are continually growing and changing. Portland's tree rules help improve the forest, maintain our heritage and increase the benefits trees provide all Portlanders. The rules also help parts of Portland with fewer trees. Fees collected will fund tree plantings in places where they are needed.

Visit www.portlandoregon.gov/trees     Email trees@portlandoregon.gov     Call 503-823-TREES (8733)
24/7 Emergency Response - Subtle

Photo Credit: Dylan Saito
Storm Staffing

- 12 Arborists
- 10 Tree Inspectors
- 3 Intake Personnel
Before The Storm - Setting the Tone - Severe

- Forecasting
- Agency Communications
- Review SOP’s and Re-Defining Responsibilities
- Internal Staffing and Training
- Equipment Preparations
- Mutual Aid Agreements
- Emergency Contracting
Forecasting - Don’t Always Believe the Hype

- Weather
- Crime
- Crime Prevention
PORTLAND SNOW STORM 2016

WE WILL REBUILD
Portland Parks and Rec

24/7 Toll Free:  1-800-937-8676

Web Click Options  RADAR, SATELLITE Obs

Forecast Date:  Tuesday, November 27, 2018
Time Issued:  10:45 AM
Forecaster:  mw

Discussion

Expect scattered showers this afternoon into this evening with breezy SSW winds, but no “high” winds are expected. Showers and breezes will taper off later tonight, then looks mainly dry early Wednesday morning, before showers regenerate again late morning into Wed PM into Wed evening. Showers end by sunrise Thu, then looks dry for the whole workday.

Expect more showers in the Friday & Saturday timeframe, but no major lowland concerns with dry windows. It looks like a dry and cooler weather pattern sets up Sunday into early next week with widespread light overnight freeze/frost concerns.

West

<table>
<thead>
<tr>
<th></th>
<th>Weather</th>
<th>Temp  (°F)</th>
<th>Humidity (%)</th>
<th>Wind (mph)</th>
<th>Rainfall (inches)</th>
<th>Snow/Ice (inches)</th>
</tr>
</thead>
<tbody>
<tr>
<td>This Afternoon</td>
<td>Mostly cloudy. Occasional showers. Breezy around showers.</td>
<td>Mid 50s</td>
<td>80-100%</td>
<td>SW 15-25</td>
<td>0.10 - 0.20</td>
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<tr>
<td>Tuesday night</td>
<td>Partial clearing at times. Decreasing showers.</td>
<td>Low 40s</td>
<td>80-100%</td>
<td>SW 10-20  evening</td>
<td>0.10 - 0.20</td>
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<tr>
<td>Wednesday</td>
<td>Mostly cloudy. Showers increase.</td>
<td>Low 50s</td>
<td>80-100%</td>
<td>SE 10-15</td>
<td>0.10 - 0.20</td>
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<tr>
<td>Wednesday night</td>
<td>Partial clearing. Showers decrease.</td>
<td>Mid 30s</td>
<td>80-100%</td>
<td>S 5-15</td>
<td>0.15 - 0.25</td>
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<tr>
<td>Thursday</td>
<td>Partly cloudy. Dry.</td>
<td>Near 50</td>
<td>70-100%</td>
<td>SE 10-15</td>
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<tr>
<td>Thursday night</td>
<td>Increasing clouds. Looks dry.</td>
<td>Upper 30s</td>
<td>70-100%</td>
<td>SE 5-10</td>
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</table>
Useful for Managing Resident Expectations

- Extends Beyond the Health of the Trees
- Ensures the City will Continue Functioning
- Traffic Disruptions
- Timeliness of Emergency Services
Winter Storm Coordination Meeting
Review SOP’s Define Roles

URBAN FORESTRY and PORTLAND BUREAU OF TRANSPORTATION
STANDARD OPERATING PROCEDURE:
EMERGENCY TREE RESPONSE IN PUBLIC RIGHTS-OF-WAY

Portland Parks and Recreation Urban Forestry (UF) is the City of Portland’s “first responder” to reports of trees blocking or imminently threatening safe use of public rights-of-way, and resolves tree issues in or imminently-threatening transit ways. The Portland Bureau of Transportation (PBOT) is responsible for operation and maintenance of the City’s rights-of-way. This protocol describes how UF and PBOT communicate and coordinate in order to address tree emergencies in City rights-of-way in a timely and efficient manner.

Reports of tree-related road hazards are received by both UF and PBOT Dispatch. Though UF is the first responder specifically to tree-related emergencies, the PBOT Maintenance crew is authorized to respond to road obstruction needs at any time.

Business hours: 7:00am – 3:30pm
Before the Storm Season
# Storm Tracker Spreadsheet

## UF Storm Emergency Tracking Intake

<table>
<thead>
<tr>
<th>House #</th>
<th>Quadrant</th>
<th>Street or ROW</th>
<th>Description</th>
<th>ROW Blocked?</th>
<th>Contact Type</th>
<th>Tree Inspector - Int</th>
<th>IVR#</th>
<th>Tree Inspector - Disp</th>
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- **House #**: The primary identifier for each case. It is often a combination of street address and possibly a unique identifier.
- **Quadrant**: A spatial reference or a coordinate system that helps in locating a specific area within the city.
- **Street or ROW**: The specific street or the right of way (ROW) on which the emergency occurred.
- **Description**: A detailed description of the emergency, including the nature of the issue and any environmental conditions.
- **ROW Blocked?**: Indicates whether the ROW (right of way) is blocked or not.
- **Contact Type**: Specifies the type of contact information needed (e.g., phone, email).
- **Tree Inspector - Int**: The identifier for the tree inspector responsible for the intake process.
- **IVR#**: An identifier used for interactive voice response systems, which can be used to route calls or provide additional information.
- **Tree Inspector - Disp**: The identifier for the tree inspector responsible for dispatching or responding to the emergency.

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*Note: The spreadsheet section describes the process of handling storm-related emergencies, including how to record and track incidents.*
UF Operations Certs and Cross Training

**Arborist IV (Crew Leader) (3)**
ISA Certified Arborist
ISA Certified Tree Worker CS
ISA Certified Tree Worker ALS
Crane Certification
TCIA-EHAP
Pesticide Applicators License
First Aid/CPR/Defib
Work Zone Traffic Control Certificate
Class A CDL

**Arborist III (4)**
ISA Certified Arborist
ISA Certified Tree Worker ALS
Crane Certification
TCIA-EHAP
Pesticide Applicators License
First Aid/CPR/Defib
Work Zone Traffic Control Certificate
Class A CDL

**Arborist II (3)**
ISA Certified Arborist
ISA Certified Tree Worker ALS
Crane Certification
TCIA-EHAP
Pesticide Applicators License
First Aid/CPR/Defib
Work Zone Traffic Control Certificate
Class A CDL

**Arborist I (2)**
TCIA-EHAP
Pesticide Applicators License
First Aid/CPR/Defib
Work Zone Traffic Control Certificate
Class A CDL
Outfitting of Equipment
Emergency Services Contract
Wood Waste Management
Portland Winter 2016-2017

- 57” of Precipitation Avg. 42
- 147 Days of Rain
- October Wind Storm
- December Ice Storm
- January Snow Storm
- Landslide Season
October Wind Storm

Photo Credit: Dylan Saito
January Snow Storm 348 Incidences
Landslide Season - 71 Reported  (avg. 20 annually)
Mother Nature Wants You to Fail - Be Prepared
Areas For Improvement

• Asset Management Software
• Shifting of Responsibilities
• ICS Structure and Training
• FEMA Support-Documentation
Questions and Discussion