

5.3.5 City of Portland

Wildfire protection service in Portland is provided by the [Portland Bureau of Fire and Rescue \(PF&R\)](#), which has service area limits that match the incorporated limits of the city. PF&R serves the largest population of any fire department in Oregon, with 750 employees and 31 stations across the city. Although PF&R is also Oregon’s most urban fire district, the city contains areas of significant wildfire risk, and increasing preparedness for “low frequency, high consequence events such as wildfire” are a key element of the bureau’s [2020-2023 Strategic Plan](#).



[Interactive Version of This Map](#)

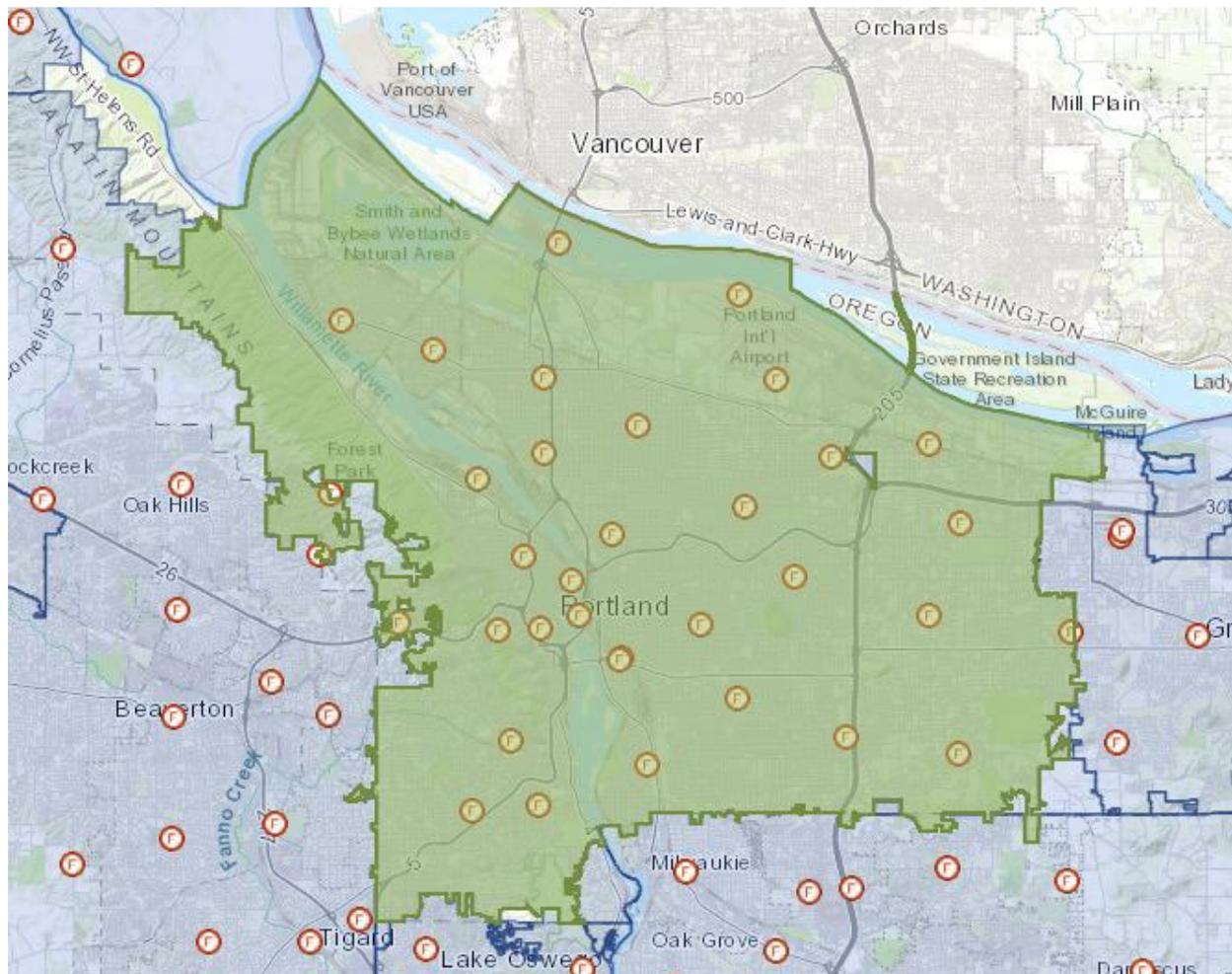


Figure 64 - Map showing Portland Fire and Rescue boundaries and fire stations. PF&R has some fire protection locations where the City of Portland crosses into Clackamas County. Map from Oregon State Fire Marshal.

A number of other Portland bureaus also play major roles in wildfire mitigation planning and participated in the development of this plan.

- **Portland Bureau of Parks & Recreation (PP&R)** – PP&R is the largest land management agency in the City of Portland, with 154 parks and nearly 8,000 acres of

natural areas.⁷⁵ PP&R was one of the lead bureaus in the development of the 2009 risk analysis report that became the origin of the 2011 Multnomah County CWPP, and identified park areas of highest concern as Forest Park, Powell Butte, and the Willamette Bluffs. The PP&R Urban Forestry program has a 2004 Urban Forest Management Plan, which promotes the building of the city's tree canopy to, among other goals, improve livability and watershed health.

- **Portland Water Bureau (PWB)** – PWB manages property and infrastructure in locations around the city. The Bull Run Watershed is the largest and most important PWB asset, with fire prevention, detection, and suppression being the most important strategies to prevent post-wildfire erosion from degrading water quality. Protection of PWB infrastructure from fire across the city is a priority.
- **Portland Bureau of Planning and Sustainability (BPS)** – BPS manages land use and zoning codes and long-term comprehensive planning in Portland. This includes the application of environmental overlay zones to protect natural resources, including forests and woodlands, which have intersections with wildfire fuel mitigation programs. BPS also manages planting lists to promote native ecosystems and reduce invasive species.
- **Portland Bureau of Environmental Services (BES)** – BES manages Portland's wastewater and stormwater and manages about 1,000 acres of open space. Management of these spaces, both accessible and restricted, includes assessments for environmental quality and wildfire risk.
- **Portland Bureau of Building Services (BDS)** – BDS manages the city's [building regulations in Wildfire Hazard Zones](#), which restrict roofing and siding materials. The Wildfire Hazard Zone uses topography and the hazard and distribution of wildfire fuels to develop a risk rating. BDS also [provides educational information](#) around managing structural risk from wildfire.
- **Portland Bureau of Emergency Management (PBEM)** – PBEM manages emergency response for the city, and is a lead partner in local evacuation planning and supporting mitigation project development.
- **Portland Office of Budget and Management – Homeless Urban Camping Impact Reduction Program (HUCIRP)** – HUCIRP is tasked with managing public space by coordinating cleanup and removal of unsanctioned campsites, while implementing harm/impact reduction strategies and coordinating services opportunities for unhoused residents. Many unsanctioned campsites have been located in wildfire hazard zones (WHZ) in Portland, where they increase the risk of fire ignition and leave residents at risk from wildfire.
- **Portland Police Bureau (PPB)** – PPB has a role in the enforcement of restricted activities during wildfire risk periods and in leading evacuation efforts during events.

⁷⁵ <https://www.portland.gov/parks/park-system-numbers>

[Interactive Version of this Map – \(Planning and Cadastral - Oregon WUI Hazard Rating\)](#)

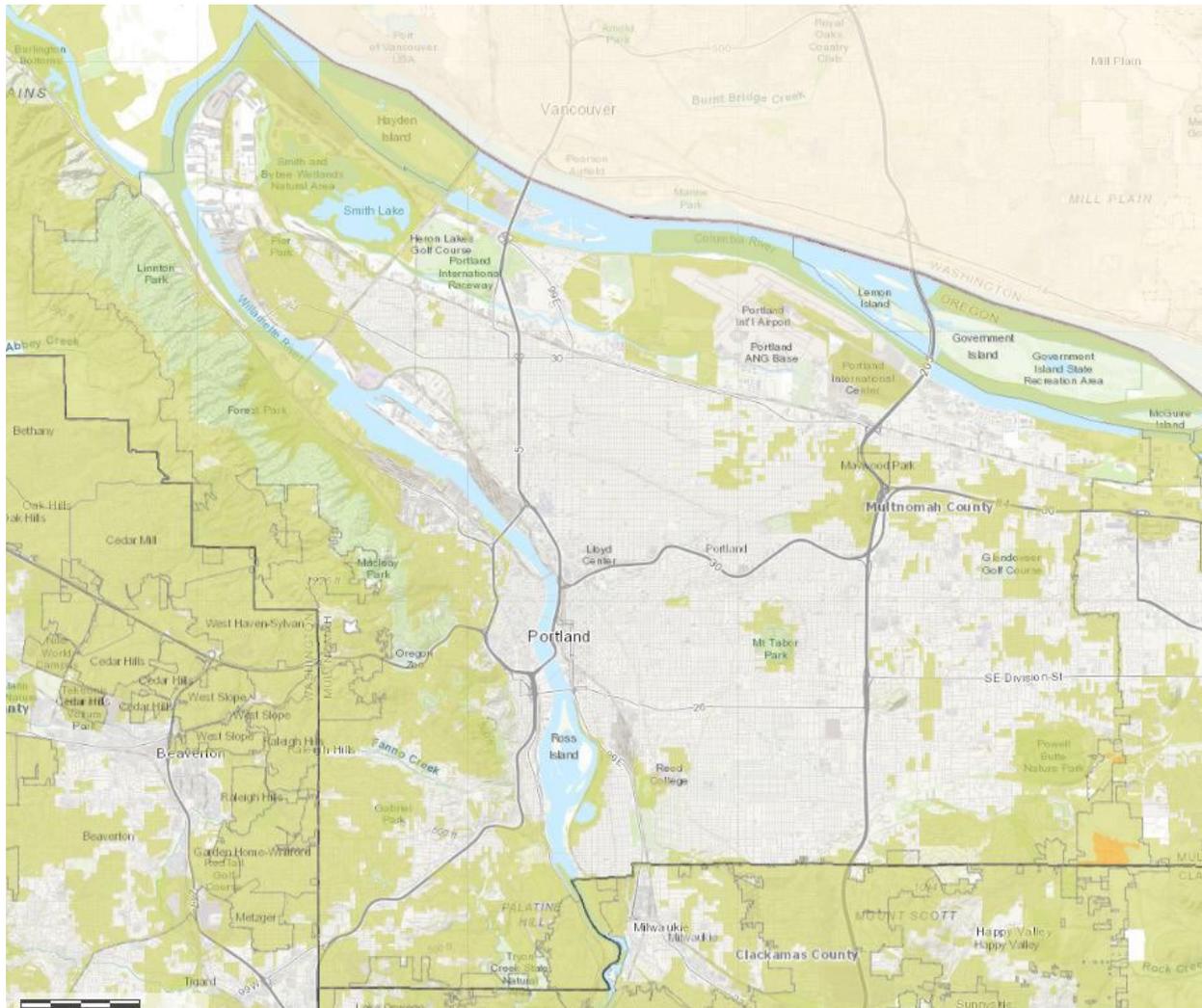


Figure 65 - WUI hazard areas in the City of Portland, with higher risk areas in orange and lower risk areas in green. Map from ODF 2017 Statewide WUI hazard mapping.

Neighborhood Engagement

Portland Fire & Rescue has been working to build community resilience in the city’s highest risk areas by supporting Firewise communities and home risk assessments. Firewise communities have been established in:

- Linnton Neighborhood (2020)
- Forest Park Neighborhood - North (2021)
- Forest Park Neighborhood - South (2021)
- Thurman Bridge Neighborhood (2021)
- Forest Heights Neighborhood (2022)
- Collins View Neighborhood (2022)
- Arlington Heights Neighborhood (2023)

[The Forest Park Wildfire Risk Reduction Project](#) began with Portland Parks & Recreation, Portland Fire & Rescue, and the Forest Park Conservancy. The City has acquired grant funds from FEMA to perform vegetation management in the Linnton area and to conduct outreach to additional neighborhoods with guidance and tools for property-level fire risk reduction.

[Interactive Version of this Map – \(Wildfire Potential Impacts/Overall Potential Impact\)](#)

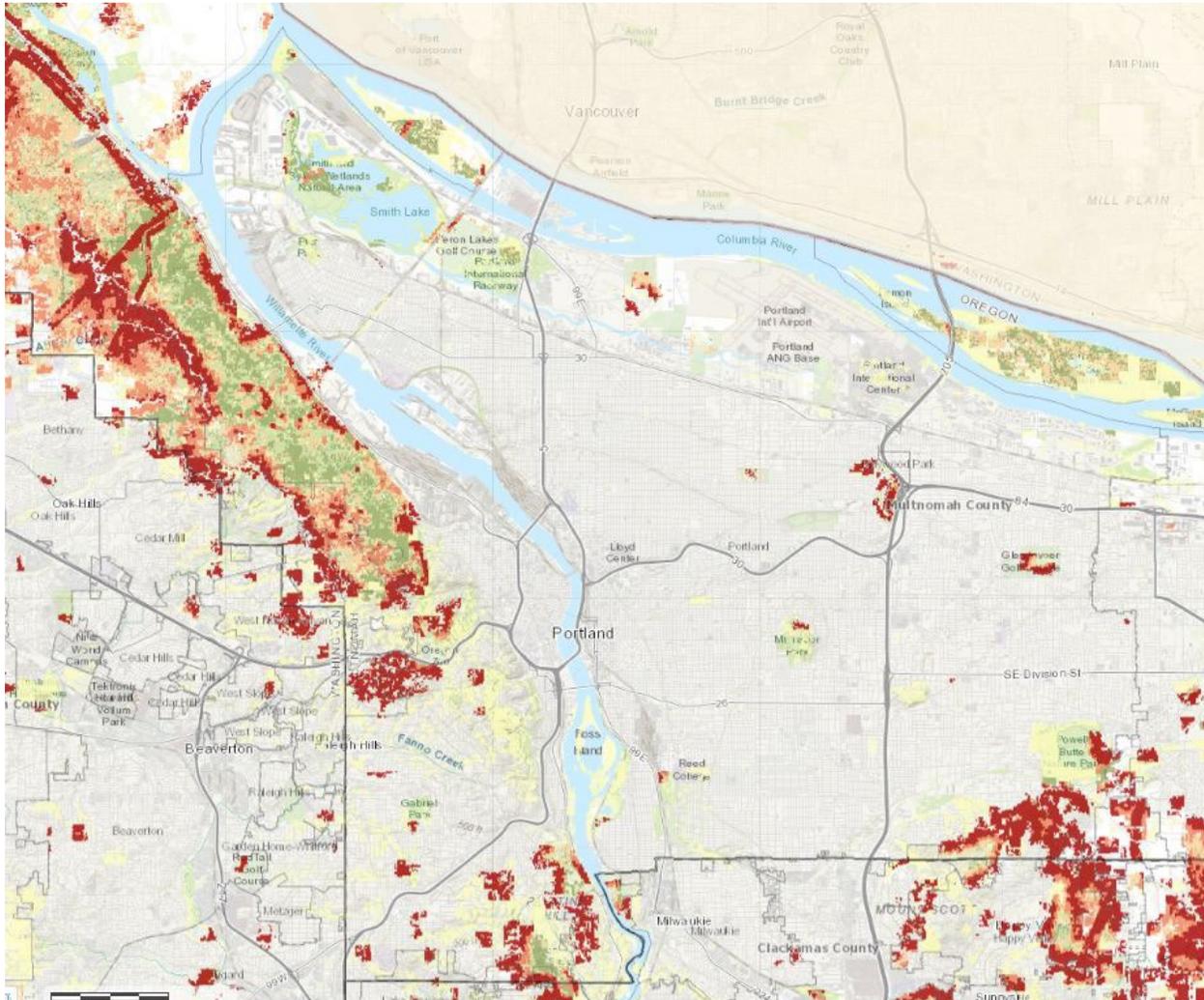


Figure 66 - Areas of potential wildfire impact in Portland, with the highest risk areas shown in dark red. Map from PNW-QWRA.

Fire Prevention

In the summer of 2021, the city approved protocols to remove unsanctioned campsites from high-risk wildfire areas in city parks and natural areas, including areas such as Forest Park, Tryon Creek State Natural Area, Linnton Park, Marquam Nature Park, Oaks Bottom, and Powell Butte Natural Area.⁷⁶ The protocols include education and outreach to unsheltered residents of

⁷⁶ [Portland City Council Approves New Protocol for Removing Campers From Wildfire Hazard Zones](#), Willamette Week, Sophie Peel, July 31, 2021.

wildfire risk. Enforcement of camping and open burning restrictions continues to require coordination.

Bull Run Watershed

The Bull Run Watershed covers 102 square miles in Multnomah and Clackamas Counties, and provides a catchment for drinking water for nearly 1 million people. The natural area is restricted to the public, and severe fire could lead to long-term impacts on drinking water infrastructure by increasing erosion of sediment into reservoirs. Efforts for protecting the watershed are focused on fire prevention, detection, and suppression. Firefighting in the watershed is coordinated through a [Fire Management Plan](#) that coordinates the U.S. Forest Service and PWB for managing a fire protection program, with additional consultation with the Oregon Department of Forestry.



Figure 67 - Map of the Bull Run Watershed and adjacent land ownership.

Risk from fire inside the watershed is reduced by its restricted access, but human-caused or lightning-caused fire are still of concern, as is a fire moving from the Mount Hood National Forest driven by east winds into the watershed. Because of the cyclical nature of large wildfires in this area and the increased risk caused by climate change impacts, the PWB is developing efforts to increase the resiliency of the water system by identifying backup water sources and building a filtration plant that will allow water to continue to be used even if contaminated with

ash, silt, debris or other contaminants.⁷⁷ PWB is also focused on the protection of infrastructure and the safety of employees during any large, uncontrolled fire event in the watershed.

Planning and Building Policies

[Policy and Code Amendments in 2021](#) were recommended to adjust environmental zone regulations to allow tree removal and branch pruning immediately adjacent to structures and to allow the facilitation of building fire breaks. Work continues to best meet multiple goals for environmental protection and wildfire risk reduction in high-risk areas. Potential updates to building codes and the implementation of land use planning initiatives coming from Senate Bill 762 are also being monitored.

Wildfire Response Capacity

Alerting those living or recreating in areas without cell phone service is a concern, and evacuation of high-risk areas is complicated by long driveways or areas with only one way in and one way out. Residents with mobility limitations may face evacuation difficulties.

Building capacity for wildland firefighting is a priority, through continued training and the potential for new grants that could pay for hand crews/wildland firefighting personnel, as used in Clackamas County.

⁷⁷ [Wildfire: Not All Forests Are Created The Same](#), Portland Water Bureau, October 22, 2020

City of Portland Wildfire Mitigation Strategies

Action No.	Topic	Mitigation Action	Lead Agency	Supporting Partners
1	Organizational Coordination	Seek grant funding to support fuels reduction and creation of defensible space around homes. Identify grant resource strategies to apply for and manage HMGP, BRIC, SHSP grants and funds obligated through Senate Bill 762. Use multi-jurisdictional approaches to build coalitions and pool resources.	Portland Fire & Rescue Public Education	Portland Parks & Recreation, Metro, Forest Park Conservancy, East and West Multnomah Soil & Water Conservation Districts
2	Organizational Coordination	Re-invigorate Neighborhood Emergency Teams (NETs) with concrete projects such as a neighborhood wildland interface disaster planning program, outreach, and participation in community Firewise fuel mitigation volunteer events.	Portland Fire & Rescue Public Education	Portland Bureau of Emergency Management, Portland Parks & Recreation, Forest Park Conservancy
3	Organizational Collaboration	Partner with local businesses/non-profits to build wildfire mitigation capacity.	Portland Fire & Rescue Public Education	Local Chambers of Commerce, Local Businesses, Oregon Department of Forestry, Keep Oregon Green, Oregon Association of Nurseries, Oregon State Fire Marshal, Forest Park Conservancy, East & West Multnomah Soil & Water Conservation Districts
4	Organizational Collaboration	Target a broader audience by engaging non-traditional partners such as organizations with sustainability programs and the insurance and real estate industries.	Portland Fire & Rescue Public Education	Green Business Council, Metro, Portland Building Association, Oregon Association of Nurseries, Portland Bureau of Planning & Sustainability
5	Organizational Collaboration	Coordinate meetings with all Firewise communities in the Portland Metro area.	Portland Fire & Rescue Public Education	Portland Parks & Recreation, Oregon State Fire Marshal
6	Organizational Collaboration	Provide presentations to organizations that meet regularly and have high visibility in the community: Neighborhood Associations, Granges, Rotaries, Sierra Club, BARK, Garden Clubs, Audubon Society, World Forestry Center, etc.	Portland Fire & Rescue Public Education	Oregon State Fire Marshal Risk Reduction, Forest Park Conservancy, Oregon Department of Forestry, East & West Multnomah Soil & Water Conservation Districts

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Action No.	Topic	Mitigation Action	Lead Agency	Supporting Partners
7	Data and Risk Assessment	Refer to International Wildland-Urban Interface Code for definition of WUI standards and associated WUI map, created by Metro, to update and amend City policies, regulations, and codes to strengthen requirements for fire-resistant building materials, and enable the establishment of defensible space around homes and businesses while continuing to protect the natural resources within wildfire hazard zone areas.	Portland Fire & Rescue Public Education	Portland Bureau of Development Services, Portland Parks & Recreation, Portland Bureau of Planning & Sustainability, Portland GIS, Portland Bureau of Environmental Services, Oregon Department of Forestry, Oregon State Fire Marshal
8	Data and Risk Assessment	Work with local fire agencies to develop more detailed risk assessments using local and community-derived data.	Portland Fire & Rescue	Regional Disaster Preparedness Organization (RDPO) Fire-EMS Work Group, Multnomah County Fire Defense Board, Oregon Department of Forestry, OSFM, Multnomah County Emergency Management, Portland Bureau of Emergency Management, Multnomah County GIS, Multnomah County Land Use
9	Data and Risk Assessment	Map all roads, bridges and driveways in the local Communities at Risk and prioritize homes that have dead-ends, and cannot support emergency service vehicles (grade, length, vegetation, turnarounds) for defensible space and fuels reduction projects.	Portland Fire & Rescue	RDPO Fire-EMS Work Group, Multnomah County Fire Defense Board, Oregon Department of Forestry, OSFM, Multnomah County Emergency Management, Portland Bureau of Emergency Management, Multnomah County GIS, Multnomah County Land Use, PBOT, Multnomah County Roads, ODOT
10	Data and Risk Assessment	Develop a series of recommendations for tracking vulnerability data (including houseless populations) throughout the county and revise the Wildfire Hazard Analysis and the Wildland Urban Interface to reflect the new information.	Portland Fire & Rescue Special Ops	RDPO Fire-EMS Work Group, Multnomah County Fire Defense Board, Oregon Department of Forestry, OSFM, Multnomah County Emergency Management, Portland Bureau of Emergency Management, Multnomah County GIS
11	Community Engagement and Resilience Building	Work directly with communities targeted for fuels reduction treatments to gain support for projects prior to implementation.	Portland Fire & Rescue Public Education	Oregon Department of Forestry, Community Outreach Groups, Firewise Programs, Portland Parks & Recreation, Forest Park Conservancy

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Action No.	Topic	Mitigation Action	Lead Agency	Supporting Partners
12	Community Engagement and Resilience Building	Conduct community meetings in areas of the city located in wildfire hazard zones to educate communities on defensible space and measures that can be taken to reduce structural ignitability, and work towards becoming Firewise Communities.	Portland Fire & Rescue Public Education	Oregon Department of Forestry, Oregon State Fire Marshal's Office Fire Risk Reduction, Portland Parks & Recreation, Metro, Portland Bureau of Environmental Services, Homeless Urban Camping Impact Reduction Program, Rapid Response, Forest Park Conservancy, West Multnomah Soil & Water Conservation District, Neighborhood Emergency Teams, Portland Office of Neighborhood Involvement
13	Community Engagement and Resilience Building	Educate landowners in the Wildland Urban Interface about reducing wildfire hazards, and encourage them to participate in the Firewise Program.	Portland Fire & Rescue Public Education	Oregon State Fire Marshal Risk Reduction, Portland Parks & Recreation, Forest Park Conservancy, East & West Multnomah County Soil and Water Conservation Districts
14	Community Engagement and Resilience Building	Establish an information network, developing community risk reduction classes to educate homeowners on ways to reduce the risk of wildfires and learning about fire-resistant plants, and signing-up volunteers sign-up for fuel mitigation events in established Firewise Communities	Portland Fire & Rescue Public Education	Portland Parks & Recreation, Forest Park Conservancy, Portland Bureau of Emergency Management, East & West Multnomah Soil & Water Conservation Districts, Explore Washington Park, Oregon State Fire Marshal, Oregon State University Extension Service
15	Community Engagement and Resilience Building	Implement a model Firewise and ecologically sound landscaping project at Portland's Fire and Rescue Station 27 in Forest Park. Scope and seek funding for a project to explore and demonstrate defensible space, planting and landscaping options for fire-resistant native groundcover, shrubs and mature trees to achieve goals for wildfire protection and watershed health. Design and install one or more demonstration areas to showcase wildfire resistant plantings.	Portland Fire & Rescue	Portland Parks & Recreation, Portland Bureau of Environmental Services, Forest Park Conservancy, Oregon State University Extension, Oregon Department of Forestry, Community Involvement Organizations, West Multnomah Soil & Water Conservation District
16	Community Engagement and Resilience Building	Develop and distribute Wildland Urban Interface information to Communities at Risk located in wildfire hazard zones.	Portland Fire & Rescue Public Education	Homeowners & Neighborhood Associations, Multnomah County Community Association, Oregon Department of Forestry, Oregon State Fire Marshal, Portland Parks & Recreation, Forest Park Conservancy, East & West Multnomah Soil & Water Conservation Districts, Portland Bureau of Environmental Services

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Action No.	Topic	Mitigation Action	Lead Agency	Supporting Partners
17	Community Engagement and Resilience Building	Promote the use of 211 telephone information system and signing-up for PublicAlerts.org to inform residents about what actions to take during wildfires and other emergencies.	Portland Fire & Rescue Public Education	Oregon Department of Forestry, Multnomah County Emergency Management, Portland Bureau of Emergency Management, Oregon State Fire Marshal
18	Community Engagement and Resilience Building	Utilize active community organizations' social media networks to engage residents including electronic newsletters and links on websites.	Portland Fire & Rescue Public Education	Oregon Department of Forestry, Oregon State Fire Marshal, Portland Parks & Recreation, Forest Park Conservancy, Portland Bureau of Emergency Management, East & West Multnomah Soil & Water Conservation Districts
19	Community Engagement and Resilience Building	Empower community leaders to remain engaged and continue to motivate the community through partnership with local fire departments and Firewise/USA program.	Portland Fire & Rescue Public Education	Home Owners and Neighborhood Associations, Elected Officials
20	Community Engagement and Resilience Building	Encourage Communities at Risk located in wildfire hazard zones to become certified Firewise Communities.	Portland Fire & Rescue Public Education	Oregon Department of Forestry, Oregon State Fire Marshal Risk Reduction
21	Community Engagement and Resilience Building	Use active websites with changing banners and coordinated Twitter messaging (and other appropriate social media) to get people's attention.	Portland Fire & Rescue Public Education	Portland Parks & Recreation, Portland Bureau of Environmental Services, Portland Bureau of Emergency Management
22	Community Engagement and Resilience Building	Use QR codes to reach people who use those information mediums to encourage PublicAlerts.org signups and learn about wildfire risks, and post codes in parks and natural areas.	Portland Fire & Rescue Public Education	Portland Parks & Recreation, Portland Bureau of Environmental Services, Portland Bureau of Emergency Management
23	Community Engagement and Resilience Building	Develop a listing of outreach events that organizations and active citizen groups in Communities at Risk may be planning to identify outreach partnership opportunities.	Portland Fire & Rescue Public Education	Oregon Department of Forestry, Grange Halls, Farmers Markets, Churches, Fire District Open Houses, Neighborhood Associations, Local Businesses, Audubon Society, Forest Park Conservancy, Portland Parks & Recreation, World Forestry Center, Tryon Creek State Park
24	Community Engagement and Resilience Building	Provide presentations to organizations that meet regularly and have high visibility in the community: Neighborhood Associations, Granges, Rotaries, Sierra Club, BARK, Garden Clubs, Audubon Society, World Forestry Center, etc.	Portland Fire & Rescue Public Education	Oregon State Fire Marshal Risk Reduction, Forest Park Conservancy, Oregon Department of Forestry, East & West Multnomah Soil & Water Conservation Districts
25	Structural Ignitability	Develop a local wildfire prevention campaign to promote defensible space and reduce structural ignitability within the Home Ignition Zone.	Portland Fire & Rescue Public Education	Oregon Department of Forestry, Portland Parks & Recreation, Forest Park Conservancy, East and West Multnomah Soil & Water Conservation Districts

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Action No.	Topic	Mitigation Action	Lead Agency	Supporting Partners
26	Structural Ignitability	Identify strategies to support under-represented populations (elderly, low income, disabled, BIPOC communities) with fuel mitigation to create defensible space around homes.	Portland Fire & Rescue Public Education	Multnomah County Fire Defense Board, Multnomah County Land Use
27	Structural Ignitability	Coordinate fuel mitigation/management projects with established Firewise Communities and available resources	Portland Fire & Rescue Public Education	Portland Parks & Recreation, Forest Park Conservancy, Portland Bureau of Environmental Services, East & West Multnomah Soil & Water Conservation Districts, Oregon State Fire Marshal
28	Structural Ignitability	Become more familiar with the International Wildland Urban Interface Code and determine whether or not adoption would be beneficial and appropriate in Multnomah County.	Portland Fire & Rescue	Oregon Department of Forestry, Oregon State Fire Marshal, Oregon State University
29	Structural Ignitability	Develop a program to offer no-cost wildland/urban interface evaluations for both new development and existing homeowners.	Portland Fire & Rescue Public Education	Multnomah County Fire Defense Board, Multnomah County Land Use, Multnomah County Transportation, Oregon Department of Forestry
30	Structural Ignitability	Maintain and expand home assessment programs, with increased collaboration between Fire Districts.	Portland Fire & Rescue Public Education	Multnomah County Fire Defense Board, Oregon Department of Forestry, Oregon State Fire Marshal
31	Structural Ignitability	Provide assessments for commercial/industrial buildings and encourage creation of defensible space through fuel mitigation and hardening of structures.	Portland Fire & Rescue Public Education	Portland Bureau of Development Services
32	Structural Ignitability	Empower homeowners that live in a wildfire hazard zone to participate in educational sessions through the Firewise program, or other provided seminars, to learn how to effectively harden their homes, and create defensible space around their homes.	Portland Fire & Rescue Public Education	Oregon State Fire Marshal, Oregon Department of Forestry, Oregon State University Extension Service, National Fire Protection Association
33	Structural Ignitability	Develop strategies for property inspections for ignition risk at times of initial home occupation in a wildfire hazard zone.	Portland Fire & Rescue Public Education	Multnomah County Realty Organizations
34	Structural Ignitability	Obtain structural ignitability intelligence by conducting wildland-urban interface home assessments and data collection (including GIS points) for homes in wildfire hazard zones.	Portland Fire & Rescue Public Education	Portland Fire & Rescue Special Ops, Oregon Department of Forestry

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Action No.	Topic	Mitigation Action	Lead Agency	Supporting Partners
35	Structural Ignitability	Develop more fire-resilient landscaping standards, such as recommending fire-resistant plants instead of like-for-like replacements. Use Firewise resources and the International Wildland-Urban Interface code to guide City codes and standards.	Portland Fire & Rescue Public Education	Portland Parks Bureau, Portland Bureau of Environmental Services, Portland Bureau of Development Services, Portland Bureau of Planning & Sustainability
36	Land and Vegetation Management	Provide hazardous fuels assessment and mitigation training to City Natural Resources management and staff.	Portland Fire & Rescue Public Education	Portland Parks & Recreation
37	Land and Vegetation Management	Coordinate between agencies/jurisdictions to maximize effectiveness of vegetation management projects.	Portland Fire & Rescue Public Education	Portland Parks & Recreation, Portland Bureau of Environmental Services, Portland Water Bureau, East & West Multnomah Soil & Water Conservation Districts, Forest Park Conservancy
38	Land and Vegetation Management	Partner with managers of forested areas to reduce invasive vegetation and ladder fuels in natural area boundaries that abut communities located in a wildfire hazard zone.	Portland Fire & Rescue Public Education	Portland Parks & Recreation, Metro, Private Landowners, Forest Park Conservancy, West Multnomah Soil & Water Conservation District, Portland Bureau of Environmental Services
39	Land and Vegetation Management	Support property owners in replacing invasive species on their properties with native, fire-resistant plants.	Portland Fire & Rescue Public Education	Portland Bureau of Planning and Sustainability, East & West Multnomah Soil and Water Conservation Districts, Forest Park Conservancy, Portland Bureau of Environmental Services
40	Land and Vegetation Management	Create incentives for and address barriers to encourage fuel reduction and defensible space, including updates for related city policies.	Portland Fire & Rescue Public Education	Portland Parks & Recreation, Forest Park Conservancy, East & West Multnomah Soil & Water Conservation Districts, Portland Bureau of Environmental Services, Portland Bureau of Planning & Sustainability
41	Land and Vegetation Management	Develop a program for Parks Bureau staff about wildfire fuels assessment, how to create defensible space, and initial wildfire response training and safety.	Portland Fire & Rescue Public Education	Oregon Department of Forestry, Metro, Portland Parks & Recreation, Portland Bureau of Emergency Management, Oregon State University Extension Service, Oregon State Fire Marshal Risk Reduction, Multnomah County Fire Defense Board, Multnomah County Emergency Management
42	Wildfire Prevention	Seek opportunities for wood chipper program grants that may include contract services for fuel reduction or removal. Use as an essential part of the education and awareness of the risk of wildfires occurring in wildfire hazard zones.	Portland Fire & Rescue Public Education	Portland Parks & Recreation, Forest Park Conservancy, Portland Bureau of Environmental Services, East & West Multnomah Soil & Water Conservation Districts, Oregon State Fire Marshal

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Action No.	Topic	Mitigation Action	Lead Agency	Supporting Partners
43	Wildfire Prevention	Develop full analysis of where fire prevention codes and environmental regulations are complimentary or contradictory.	Portland Fire & Rescue Public Education	Portland Bureau of Development Services, Portland Bureau of Planning and Sustainability, Portland Parks & Recreation
44	Wildfire Prevention	Develop fire management plans for recreational/open areas - when to limit access or close parks due to fire risk or active fires.	Portland Fire & Rescue	Portland Parks & Recreation, Portland Bureau of Emergency Management, Metro
45	Wildfire Prevention	Identify opportunities for community debris disposal collection sites that recycle or compost vegetative material	Portland Fire & Rescue Public Education	Oregon Department of Forestry, Metro, Oregon State Fire Marshal Risk Reduction,
46	Wildfire Prevention	Work with Park Rangers, State Park Managers and Oregon Department of Transportation to patrol wildfire hazard zones areas to reduce unsanctioned camping.	Portland Fire & Rescue Public Education	Portland Parks & Recreation Park Rangers, State Park Managers, Oregon Department of Transportation, Metro
47	Wildfire Prevention	Increase public awareness of wildfire hazards by posting information on existing placards in recreational areas, such as Smoky Bear fire danger dials, fire danger infographic signs, etc.	Portland Fire & Rescue Public Education	US Forest Service, Oregon Department of Forestry, Portland Parks & Recreation, Portland Bureau of Environmental Services, Metro, Forest Park Conservancy
48	Wildfire Prevention	Establish an agreed upon fire danger rating system and develop agency protocols. Consider adopting the "National Fire Danger Rating System" (NFDRS) and install signs at key points in the City. Partner with the Oregon Department of Forestry to align with "Industrial Fire Protection Levels" (IFPL) throughout wildfire season, and related fire danger levels for public use. Install Smoky Bear Fire Danger signage (Peacock signs) around forested areas in City to raise awareness.	Portland Fire & Rescue Public Education	Oregon Department of Forestry, Portland Parks & Recreation, Portland Risk Management, Portland Bureau of Emergency Management, Portland Bureau of Transportation, Oregon Department of Transportation
49	Wildfire Prevention	Review and potentially refine City contract specifications for machinery operations during wildfire season and during 'Red Flag' weather conditions.	Portland Fire & Rescue Public Education	Portland Parks & Recreation, Portland Bureau of Environmental Services, Portland Bureau of Development Services
50	Wildfire Prevention	Develop preparation plans for managing post-storm debris before wildfire season begins.	Portland Fire & Rescue Public Education	Portland Parks & Recreation, Metro, Portland Bureau of Transportation, Oregon Department of Transportation, Portland Bureau of Environmental Services, Portland Water Bureau, East & West Multnomah Soil and Water Conservation Districts, Forest Park Conservancy, Portland Bureau of Emergency Management, Regional Disaster Prevention Organization Debris Removal Subcommittee

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Action No.	Topic	Mitigation Action	Lead Agency	Supporting Partners
51	Wildfire Prevention	Work with landowners in highly visible wildfire risk areas to provide temporary and permanent signage.	Portland Fire & Rescue Public Education	Oregon Department of Forestry, Portland Parks & Recreation, Forest Park Conservancy, Portland Bureau of Transportation
52	Wildfire Prevention	Conduct fire inspections in sanctioned houseless communities to identify fire prevention opportunities	Portland Fire & Rescue Public Education	Portland Bureau of Development Services
53	Wildfire Prevention	Engage unhoused community members residing within wildfire hazard zones about fire use dangers, and provide accessible materials with specific guidance.	Portland Fire & Rescue Public Education	Portland Parks & Recreation, Homeless Outreach Service Organizations
54	Operational Coordination and Capacity	Use controlled burns in Portland Parks and Recreation properties and Metro locations serviced by Portland Fire as a training tool for potential wildland response.	Portland Fire & Rescue Ops/Special Ops	Portland Parks & Recreation, Metro, U.S. Forest Service, Oregon Department of Forestry
55	Operational Coordination and Capacity	Conduct a wildland firefighter training assessment of Portland Fire & Rescue and make recommendations for enhancing wildfire training standards.	Portland Fire & Rescue Special Ops	RDPO Fire-EMS Work Group
56	Operational Coordination and Capacity	Develop operational procedures for the potential loss of cell towers in wildfire emergencies in Skyline Ridge area, specified Tualatin Mountains locations, Rocky Butte, and Powell Butte	Portland Fire & Rescue	Oregon Department of Forestry, Tualatin Valley Fire & Rescue, Portland Bureau of Emergency Management
57	Operational Coordination and Capacity	Inventory existing water resources and identify alternative water sources to support potential wildfire fighting efforts. Provide signage for these sources and update computer-aided dispatch.	Portland Fire & Rescue	Burlington Water District, Tualatin Valley Fire & Rescue, Clackamas County Fire District 1, Scappoose Fire, Lake Oswego Fire, Gresham Fire, Portland Parks & Recreation, Metro
58	Operational Coordination and Capacity	Implement rural road addressing (including length of driveways) and other signage for emergency response.	Portland Fire & Rescue Public Education	Portland Bureau of Transportation, Multnomah County Roads, Oregon Department of Transportation
59	Operational Coordination and Capacity	Enhance programs supporting citizens located in areas with limited cellphone access to ensure emergency notifications reach everyone located in wildfire hazard zones.	Portland Fire & Rescue Public Education	Multnomah County Fire Defense Board, Multnomah County Emergency Management, Oregon State Fire Marshal, Oregon Department of Forestry, Portland Bureau of Emergency Management, Bureau of Emergency Communication (BOEC), Regional Disaster Prevention Organization Alert & Warning Work Group
60	Operational Coordination and Capacity	Coordinate with power companies to identify potential additional placements of fire detection cameras in rural forested areas.	Portland Fire & Rescue Special Ops	Portland Bureau of Emergency Communications, Portland Parks & Recreation, Portland General Electric, Pano 360

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Action No.	Topic	Mitigation Action	Lead Agency	Supporting Partners
61	Operational Coordination and Capacity	Identify the standard to which basic wildland firefighters will be trained. Work with partners to train all incident personnel for basic wildland firefighting and the Incident Command System (e.g. firefighters).	Portland Fire & Rescue Special Ops	RDPO Fire-EMS Work Group, Multnomah County Fire Defense Board, OSFM, Oregon Department of Forestry, US Forest Service
62	Operational Coordination and Capacity	Create a program to hire and train a local hand crew and utilize them for off-season vegetation management of ladder fuel mitigation, and defensible space projects.	Portland Fire & Rescue Special Ops	RDPO Fire-EMS Work Group, Multnomah County Fire Defense Board, OSFM, Oregon Department of Forestry, US Forest Service, Portland Parks & Recreation, Portland Bureau of Environmental Services, Clackamas County Fire District 1
63	Operational Coordination and Capacity	Identify and address any shortages in wildland training and qualifications in line leadership positions such as Operations Section Chief, Division Group Supervisor (DIVS) and Task Force Leader (TFLD)	Portland Fire & Rescue Special Ops	RDPO, Multnomah County Fire Defense Board, OSFM, Oregon Department of Forestry, US Forest Service
64	Operational Coordination and Capacity	Revisit mutual aid agreements to ensure they are current and applicable.	Portland Fire & Rescue Emergency Ops	Signatory mutual aid agencies
65	Operational Coordination and Capacity	Review and update the Forested and Wildland Interface Areas Fire Protection Plan	Portland Fire & Rescue Special Ops	Portland Bureau of Emergency Management
66	Operational Coordination and Capacity	Improve emergency radio communication between City first responders and Portland Parks & Recreation City Nature staff.	Portland Fire & Rescue	Portland Parks & Recreation, Portland Bureau of Emergency Communications, Portland Bureau of Emergency Management
67	Structural Ignitability	Maintain defensible space around Portland Bureau of Environmental Services critical infrastructure.	Portland Bureau of Environmental Services	Portland Fire & Rescue
68	Land and Vegetation Management	Incorporate climate forecasting, adaptive management and functional assessments when revising site-specific management plans.	Portland Bureau of Environmental Services	
69	Wildfire Prevention	Clarify timing of prohibited activities in mapped high-risk wildfire areas managed by Bureau of Environmental Services and determine how to effectively message risk to the public. Align signage strategy with that used by Parks Bureau at trailheads.	Portland Bureau of Environmental Services	Portland Parks & Recreation, Portland Fire & Rescue
70	Wildfire Prevention	Continue development of in-house enforcement mechanisms for prohibited activities creating wildfire risk in Bureau of Environmental Services managed natural areas.	Portland Bureau of Environmental Services	Homelessness and Urban Camping Impact Reduction Program

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Action No.	Topic	Mitigation Action	Lead Agency	Supporting Partners
71	Organizational Collaboration	Maintain communication with the Public Utility Commission to determine how statewide utility management policy can be aligned with city planning and environmental management goals.	Portland Bureau of Planning & Sustainability	Public Utility Commission, PGE, PacifiCorp
72	Data and Risk Assessment	Identify tools from state wildfire risk reduction initiatives that can be used to refine local planning hazard mapping.	Portland Bureau of Planning & Sustainability	Oregon Department of Forestry, Oregon Department of Land Conservation and Development
73	Structural Ignitability	Review planning and zoning codes to clarify and identify opportunities to address vegetative fuel management around structures.	Portland Bureau of Planning & Sustainability	Portland Fire & Rescue, Portland Bureau of Emergency Management
74	Land and Vegetation Management	Consider additional updates to City Plant list with more robust identification of fire-resistant plantings, and identify tree species resilient to drought and hotter summers to replace dying trees.	Portland Bureau of Planning & Sustainability	
75	Data and Risk Assessment	Inventory and map evacuation routes in Portland Parks & Recreation parks and natural areas, including emergency vehicle access routes, and share with emergency responders and other jurisdictions.	Portland Parks & Recreation	Portland Fire & Rescue, Portland Bureau of Emergency Management
76	Data and Risk Assessment	Better define Wildland Urban Interface areas and map them to identify locations for seasonal use restrictions on Portland Parks & Recreation managed natural areas.	Portland Parks & Recreation	Portland Fire & Rescue
77	Community Engagement and Resilience Building	Develop a listing of outreach events of organizations and active citizen groups to identify opportunities for partner outreach.	Portland Parks & Recreation	Portland Office of Neighborhood Involvement
78	Land and Vegetation Management	Train Portland Parks & Recreation staff who work in natural areas in fire science and how to perform hazardous fuels assessments at Parks-managed natural areas in order to target fuel reduction efforts.	Portland Parks & Recreation	Portland Fire & Rescue
79	Land and Vegetation Management	Obtain funding for long-term vegetation management in key locations.	Portland Parks & Recreation	Portland Bureau of Emergency Management
80	Land and Vegetation Management	Support the Protect The Best program to stop the spread of invasive species in natural areas.	Portland Parks & Recreation	
81	Land and Vegetation Management	Consider wildfire risk when assessing and developing ecological prescriptions for management of large, publically owned natural areas. Include wildfire risk in new management plans and updates to existing plans.	Portland Parks & Recreation	Portland Fire & Rescue

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Action No.	Topic	Mitigation Action	Lead Agency	Supporting Partners
82	Land and Vegetation Management	Develop a comprehensive vegetation management treatment program for Portland Parks & Recreation properties, considering mechanical removal and other strategies.	Portland Parks & Recreation	
83	Land and Vegetation Management	Coordinate with Portland Parks & Recreation’s existing Ecologically Sustainable Landscapes Initiative to plant wildfire-resistant vegetation.	Portland Parks & Recreation	Portland Fire & Rescue
84	Wildfire Prevention	Increase Park Ranger staff and clarify rules for enforcement of open fire bans and other park policies.	Portland Parks & Recreation	Portland Fire & Rescue
85	Operational Coordination and Capacity	Develop a Communications Plan for new wildfire ignitions that coordinates communications between Portland Parks & Recreation staff who work in natural areas and first responders.	Portland Parks & Recreation	Portland Fire & Rescue
86	Operational Coordination and Capacity	Train Portland Parks staff who work in natural areas on policies and safety procedures when discovering a fire.	Portland Parks & Recreation	Portland Fire & Rescue
87	Structural Ignitability	Evaluate and create defensible space of at-risk Water Bureau infrastructure in high-risk fire zones throughout the city	Portland Water Bureau	Portland Fire & Rescue
88	Structural Ignitability	Use Firewise defensible space principles around buildings and infrastructure in the Bull Run Watershed Closure Area	Portland Water Bureau	Portland Fire & Rescue
89	Structural Ignitability	Incorporate new construction best practices when designing or renovating buildings in the Bull Run Watershed Closure Area	Portland Water Bureau	
90	Land and Vegetation Management	Create defensible space in mapped high-risk wildfire Bureau properties through fuel mitigation in heavily camped areas.	Portland Water Bureau	
91	Wildfire Prevention	Evaluate the feasibility of undergrounding power lines in the Bull Run Watershed Closure Area	Portland Water Bureau	PGE
92	Wildfire Prevention	Create fire risk signage for Water Bureau managed natural areas, and develop a sign maintenance staffing plan.	Portland Water Bureau	
93	Operational Coordination and Capacity	Install Pano AI Camera at Powell Butte in SE Portland for early fire detection, seeking potential funding support from Pano or other partners.	Portland Water Bureau	PGE, Pano 360, Portland Fire & Rescue, Portland Bureau of Emergency Communications
94	Operational Coordination and Capacity	Create wildfire evacuation route signage within the Bull Run Watershed Closure Area.	Portland Water Bureau	Portland Fire & Rescue, Portland Bureau of Emergency Management, Portland Police Bureau, Multnomah County Sheriff’s Office

Communities at Risk

Location	Priority	Defensible Space	Access	Water	Public Lands	Private Lands	Camping Uses	Protection Capability	Burning	Preparedness	Communications	Steep Slopes	Description
Elrod Road (Port of Portland)	High	●		●									This area is the location of the Port's infrastructure. There is some commercial development to the south. The site is fenced, so unsanctioned homeless campers are not an issue, but there are electrical lines that could ignite the trees, brush and grass.
Forest Heights	High	●	●	●	●	●	●	●		●	●	●	Forest Heights is a community of about 1,800 homes. It is located on the western edge of Forest Park and has a great deal of managed forest land surrounding it and many natural areas winding throughout the community. There are also large common areas that need to be maintained to reduce wildfire hazards. There are steep, winding, narrow roads, with limited options for evacuation routes. Many homes have cedar shake roofs. A limited number of areas in the community have sprinkler systems in the natural areas to create a water firebreak in case of a wildfire. These are activated by the neighbors connecting sprinkler standpipes to the hydrants near by. Sprinkler connecting kits are provided by Portland Fire & Rescue - and staged for use before wildfire season each year.
Forest Park - Skyline Road	High	●	●	●	●	●	●	●		●	●	●	Forest Park is the largest natural area in Portland, at over 5,000 acres. Large concentrations of native and non-native vegetation have the potential to burn and transfer fire to nearby homes and businesses. The park is heavily used by unsanctioned homeless campers and recreators. Addressing is needed here.
Government Island (Port of Portland)	High		●	●	●		●	●					Government Island is unique because it lies under the I-205/I-5 bridge and is controlled by State Parks. The island can only be accessed by boat and many recreators use this area and frequently have campfires and light fireworks. A wildfire here could potentially close the I-205/I-5 bridge.

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Location	Priority	Defensible Space	Access	Water	Public Lands	Private Lands	Camping Uses	Protection Capability	Burning	Preparedness	Communications	Steep Slopes	Description
Johnson Creek Watershed	High	●	●	●		●	●		●	●		●	This area includes a number of homes that are in need of defensible space. Many roads are steep and narrow dead ends. It is heavily used by for unsanctioned homeless camping that has caused numerous vegetation fires due to warming and cooking fires.
Kelly Butte	High	●	●	●		●	●		●	●		●	Kelly Butte has a high concentration of fuels and structures at the base of the hill. There is a natural area that is not very well maintained. The water supply and pressure is poor here and access is limited. BOEC transmitters are located here, making it a high priority for protection. In addition, unsanctioned campers are a source of campfires.
Linnton	High	●	●	●	●	●	●	●		●	●	●	This community is at particularly high risk because it is adjacent to Highway 30, fuel tank farms and the Railroad, which transport hazardous and flammable materials. The area is within Forest Park, so there is ample vegetation to fuel a wildfire, and many recreators providing potential ignition sources. Access is limited due to steep slopes and narrow driveways. Addressing is needed here. Water pressure is a limiting factor as elevation increases.
Mount Tabor	Medium	●				●	●	●		●		●	Mount Tabor is a very urban area, with homes surrounding the base. It is comprised of healthy, mature forest, but there is an area on the southern end that has an issue with blackberries. Portland Water Bureau has reservoirs here, making it a priority for protection.
Oaks Bottom	High		●	●	●	●		●		●		●	There are many homes located at the top of the steep Oaks Bottom canyon. Access is limited here and there is heavy vegetation. The area is used by many recreators and unsanctioned homeless campers that have caused numerous vegetation fires due to warming and cooking fires. Portland Fire & Rescue and Portland Parks & Recreation have used prescribed fire here to reduce wildfire hazards. Community outreach has been conducted here.

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Location	Priority	Defensible Space	Access	Water	Public Lands	Private Lands	Camping Uses	Protection Capability	Burning	Preparedness	Communications	Steep Slopes	Description
Pittock Mansion Area	Medium	●	●		●	●		●		●		●	There are a lot of homes in this area intermixed with heavy vegetation. Pittock Mansion is a historical structure and many recreators use this area. There are many natural areas that would benefit from fuels reduction work.
Portland Zoo and Hoyt Arboretum	Medium	●	●	●	●	●		●		●		●	Although the zoo grounds are well maintained, the areas adjacent to Highway 26 and up the slope to the zoo are heavy with flammable brush. Frequent car fires occur here on the side of Highway 26 that could easily ignite the hillside leading up to the zoo. Evacuation would be challenging with the windy roads, large numbers of recreators, and animals at the zoo. Wider paving is needed.
Powell Butte	High	●	●	●		●	●		●	●		●	There are heavy fuels adjacent to homes on steep slopes on Powell Butte. There is an ongoing challenge with unsanctioned homeless camping that has caused numerous vegetation fires due to warming and cooking fires along the Springwater Corridor. Although there is a hydrant at the top of the butte, it is not sufficient for fighting wildland fire. The area is also heavily used by recreators, and there is a caretaker that lives on top. Access is poor due to steep, narrow roads. Prescribed burns have been used here for oak restoration. This area is the future site of a Portland Water Bureau Reservoir.
Rocky Butte	High	●	●	●		●	●	●		●		●	There are about 50-60 homes on Rocky Butte. This community includes homes on very steep slopes and some that are perched on stilts. Ignitions from the freeway, unsanctioned homeless camping and recreators is a potential hazard here. There is a tunnel at the base of the slope that limits access and ODOT owns primary access road, which is in need of more regular maintenance. There is very low water pressure at the top of the Butte. The Homeowner's Association is very active here and provides an opportunity for community outreach.

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Location	Priority	Defensible Space	Access	Water	Public Lands	Private Lands	Camping Uses	Protection Capability	Burning	Preparedness	Communications	Steep Slopes	Description
Smith & Bybee Lakes	Low				●		●						This area is comprised of commercial and industrial land. There is good defensible space around these structures. The City Park here is used by many unsanctioned homeless campers, so it is essential that the city continue to maintain these areas to reduce potential wildfire ignitions.
Springwater & Flavel	Medium	●				●				●		●	There is a recreational corridor amidst this very urban area that presents some unique wildfire hazards. Blackberries can be found 10 feet thick near homes. It is a major bicycle thoroughfare and is used by many unsanctioned homeless campers that have caused numerous vegetation fires due to warming and cooking fires.
Sullivan's Gulch	Low		●		●		●	●					There is a railroad here that has had a number of ignitions. There needs to be more rigorous vegetation management in the right of way. There are many unsanctioned homeless campers living along this area that have caused numerous vegetation fires due to warming and cooking fires.
SW Portland Cemetery	Low	●				●	●			●			The cemetery has a great deal of fuels that need better maintenance.
Terwilliger Curves	Medium	●	●	●	●	●	●	●		●		●	The Terwilliger Curves area has very poor access, with narrow, windy, steep one-way roads. Water is also limited here. The forest is mature, but defensible space around homes is needed.
Thurman Bridge	High	●	●		●	●	●	●	●	●	●	●	This community is at particularly high risk because it is above NW St. Helens Rd, which is an industrial area. The neighborhood is surrounded by the southern end of Forest Park, so there is ample vegetation to fuel a wildfire, and many recreators providing potential ignition sources. Access is limited due to steep slopes and limited evacuation routes. There are also a number of unsanctioned homeless campers that use warming and cooking fires.

Location	Priority	Defensible Space	Access	Water	Public Lands	Private Lands	Camping Uses	Protection Capability	Burning	Preparedness	Communications	Steep Slopes	Description
Tryon Creek	Medium	●	●			●				●		●	There are many residential areas surrounding the State Park. The park has an older stand of mature trees, but defensible space around homes is needed. Access is limited from the surrounding neighborhoods for evacuation route options. It is visited by many recreators, which presents some outreach opportunities.
Willamette Bluffs Escarpment	High	●	●	●		●				●	●	●	The Willamette Bluff Escarpment is located adjacent to the University of Portland and has extremely steep slopes covered with blackberries. Multiple homes are exposed to a fire moving upslope in this area. Access is good, but fighting fire on this steep escarpment is extremely challenging and a five-alarm wildfire almost engulfed these homes on August 8th, 2001. In addition, unsanctioned homeless campers live on the hillside and have caused vegetation fires from warming and cooking fires.

Priority Fuel Mitigation Location	Project Details
Arlington Heights Neighborhood	Defensible space projects identified through Firewise program activities
Collins View Neighborhood	Defensible space projects identified through Firewise program activities
Forest Heights Neighborhood	Defensible space projects identified through Firewise program activities
Forest Park Neighborhood – North and South	Defensible space projects identified through Firewise program activities
Linnton Neighborhood	Defensible space projects identified through Firewise program activities
Thurman Bridge Neighborhood	Defensible space projects identified through Firewise program activities
City of Portland	Defensible space in areas with high levels of unsanctioned or sanctioned camping. (Specific locations to be determined)

Priority Fuel Mitigation Location	Project Details
City of Portland Infrastructure	Defensible space projects around structures and equipment in high risk areas
Johnson Creek	Ongoing fuel reduction and invasive species removal needs
Kelly Butte	Ongoing fuel reduction, ecosystem restoration, and invasive species removal needs
Mount Scott	Ongoing fuel reduction, ecosystem restoration, and invasive species removal needs
Mount Tabor	Ongoing fuel reduction, ecosystem restoration, and invasive species removal needs
Oaks Bottom	Ongoing fuel reduction, ecosystem restoration, and invasive species removal needs
Powell Butte	Ongoing fuel reduction and invasive species removal needs
Rocky Butte	Ongoing fuel reduction, ecosystem restoration, and invasive species removal needs
Willamette Bluff	Ongoing fuel reduction and invasive species removal needs