## Development & Implementation of the 2007 Bull Run Agreement

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#### **Service Population and System Demand**



- 566,000 retail customers
- 366,000 wholesale customers
- 19 cities, districts and companies
- 100 million gallons per day average demand
- 165 million gallons per day peak demand



# What are the biggest challenges we're facing?



#### **Retail Water Rates -- Cumulative Increase**





























#### **Purpose of the Agreement**

- Conform with Bull Run Management Act and other laws
- Increase efficiency and responsiveness
- Clarify Portland Water Bureau and Mt. Hood NF roles and responsibilities
- Establish citizen participation processes





### **Bull Run Management Act**

- Established the Bull Run Watershed Management Unit
- Confirmed that primary purpose is to manage as water supply
- Affirmed restriction of public entry
- Prohibits timber harvest, with very limited exceptions
- Dictates that agencies formally work together through written agreements



#### **Evolution of Bull Run Agreement**



- NW Forest Plan (1994)
- ORCA (1996) and Little Sandy Act (2001)
- Significant drop in FS funding (~1998)



 Consultant conducts stakeholder interviews and prepares "Convening Report" (2000-2001)

- City/FS Joint Statement of Intent (2001)
  Dull Dur vision in a workshap (2002)
- Bull Run visioning workshop (2003)
- City Council Resolution 36122 (2003)  $\rightarrow$  confirm Council's support for moving forward

Meetings w/ key stakeholders (2005)

- Federal Register Notice (Feb, 2007)
- City Council approval (Sept. 2007)



#### Transparency Commitments in Bull Run Agreement

- City and Forest Service prepare joint semi-annual reports
- Semi-annual coordination meetings open to public



#### Framework for Roles & Responsibilities

	Joint Interest and Collaborative Action			
Water Bureau Interest and Action	Water Bureau Action with Consultation	Joint Action	Forest Service Action with Consultation	Forest Service Interest and Action



#### **Roles and Responsibilities**





- Stewardship of upland terrestrial resources
- Road decommissioning
- Water supply system
- Stewardship of aquatic resources
- Maintenance of long-term access roads
- Security infrastructure (locks, keys, gates)



- Trespass enforcement
- Fire protection and planning
- Conservation/environmental education



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#### **Road Maintenance**



#### What Roads are Necessary?

- Access to water supply facilities
- Access to ancillary facilities (monitoring stations)
- Access to BPA power line right-of-way
- Fire protection

## The result: 179 miles of necessary roads for the Bull Run



#### **Bull Run Road Network**



### **Road Maintenance**

- Water Bureau maintains 157 miles of road in and directly adjacent to the BRWMU
- 80% of PWB-maintained roads are paved – legacy from logging era
- Biggest challenge: pavement is gradually deteriorating, overlays are expensive
- Annual costs:
  - \$500,000/yr for routine maintenance
  - \$1 million/yr for capital improvements



#### **Road Decommissioning**



• Program began in 1997

 Road decommissioning in water-supply drainage completed in 2009

•106 miles of *active* road decommissioning within BRWMU

95 miles of *passive* road decommissioning within BRWMU





#### Road Mileage Summary for Bull Run Road System

Category	Miles
Keep-open Roads — PWB Maintenance	157
Keep-open Roads – Maintenance by Other	22
Active Decommissioning	106
Passive Decommissioning	95



# Implications of Climate Change ... What Does the Future Hold?



#### 7-Day Moving Average Streamflows (1951 - 1998)





#### Model Forecast for Sandy River, 2020



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- Biggest challenges for PWB: declining demand, and rate increases due to regulatory mandates and aging infrastructure.
- Bull Run Agreement provides an effective framework for defining roles & responsibilities.
- Providing public involvement opportunities throughout the process helped ensure public support.
- Completion of the road decommissioning program helps reduce contribution of sediment from unneeded roads. Legacy Roads & Trails funding was instrumental.
- Concerns about the potential effects of climate change on seasonal extremes – wetter winters and extended dry season. Technical challenges with downscaling global climate change models to watershed scale.



