Climate Change Policy and Business Practices within ODF Divisions

4 September 2019
Board of Forestry Public Meeting

Board of Forestry

Background

Climate change included in the current FPFO (2011)

- Adopted a set of recommendations regarding climate change in 2015
 - When updating or adopting policy: expand, modify or leave as is.
 - Explicitly consider available climate change science in regular business.

Private Forests

- Landscape Scale Assessment of Forest Health:
 - Collaborative data collection
 - Forest health assessment
 - Technical advice and training
- Seed Orchard and Seed Bank
 - Climate and condition adapted tree species
 - Adaptive evaluation and species development
 - Rapid response to changing conditions
 - Operate in a collaborative network

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Forest Health Fact Sheet



Doughin, can also a large toll on Oregon's counter rere. Often, a where gaining come of order branches, new poor whole trees the fragination came of order branches, new growth or the property of the propert

Drought is a period with reduced grecipitation and above average temperatures. Across all Dregon counties, 2013-2015 purved to be record drought years. Although these may be peaks in a drought cycle, brands show increasing average temperatures and decreasing average precipitation. In addition, wanter snowpack has been disappearing earlier in the year and the duration of summer weekfort has been extended.

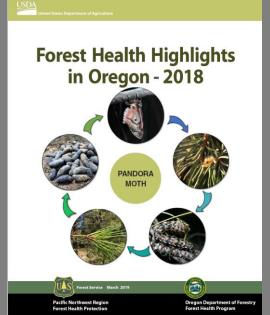
Drought conditions create water stress inside the tree and ca reduce growth or cause mortality. Tree water stress is an internal shortage of water that occurs whenever water loss exceeds uptake long enough to cause plant damage or distur physiological processes. Drought damage in trees is due to one or all of the following

- Lack of available soil moisture due to reduced precipitation, evaporation and/or runoff, poor water storage properties of soil (e.g., shallow soil, high rock sand component) or competing vegetation.
- Reduced uptake by roots and translocation throughout tree due to damage to roots or water-conducting tissues from mechanical equipment, compaction, diseases, etc. Poorly nerated or waterlogged soils can starve roots of oxygen and also decrease water uptake.
- Increased water loss due to exposure to wind (particularly easterly winds) and sun (particularly southern exposures), which increase transparation and evaporation rates.
 Daniage typically is most severe on the fininge of forested arease and on shallow needs or demandate and to see a shallow need to see forested.

growing near roads, ditches, pastures, or in areas of soil disturbance or abundant competing vegetation are most frequently affected. Symptomatic trees often occur in group in close proximity to one another, which reflects similar soil and moststure conditions rather than contagion by canker

Trees growing beyond their austral range or from non-local seed ources generally have pratert and decough dumage than locally adapted tree. Dimage from decought strees can be street to the seed of the seed of the seed of the seed to the seed of the seed of the seed of the seed of the conditions. We are the seed of the seed of the seed of the conditions, where the seed of the seed of the seed of the competition. When there from unsure revers a sales common competition. When there from unsure revers a sales common dumage a specied and impair water transport to branches and follaging. Severe following desications and door, specially in acress such as the Columbia Blove Gonge, occur when show water novemant no offs old confidence with dy, east would

Severe water stress can directly damage or kill trees, but also prefusiones trees to attack by unscrets and pathogens. Many unserts such as both beetlers are secondary, menuing that they under the secondary damage of the s



State Forests

- Greatest Permanent Value
 - Operations:
 - Inventory and stocking relative to species adaptability and resilience
 - Reforestation planning for composition and landscape diversity
 - Directed fuels reduction in climate stressed regions
 - Monitoring to identify stressors, inform management, and evaluate operational hypotheses
 - Assess waterway sensitivity
 - Policy and planning work:
 - FMP process and elements
 - Guiding Principle: Climate change is an active element of operational planning as it relates to GPV

08/02/2017

DEPARTMENT OF FORESTRY

Swiss Needle Cast Strategic Plan

State Forests Guidance Document

08/02/2017

This is a 2017 update of the State Forests Division Swiss needle cast Strategic Plan. It is implementation of Forest Health Strategy 5 of the Northwest Oregon State Forests Management Plan (April 2010): Reviet the Swiss needle cast strategic Joha as needed to incorporate new information. Guidance developed by: Rosemary Mannix, Alan Kanaskie, Sarah Navarro, Robbie Lefebvre, Don

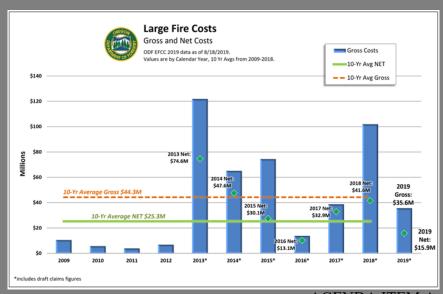


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Protection

- Adapting to environmental change is a guiding mission of Protection.
- Planning and Budgeting Adaptation
- Monitoring of fire risk, severity, and duration
- Coordination across agencies, universities, and federal partners
- Mitigation and management to restore landscapes
- Sustainable organization





Partnership and Planning

Cooperation and Collaboration with Research Partners

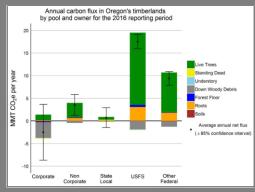
- Forest Carbon Ecosystem Report
- Harvested Wood Products Report
- Track legislative actions and participate in interagency planning efforts

Oregon Forest Ecosystem Carbon Inventory: 2001-2016

--- DRAFT REPORT ---

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Report completed through an agreement between the U.S. Forest Service, Pacific Northwest Research Station, and the Oregon Department of Forestry (PNW Agreement No. 18-C-C0-11261979-019)





CLIMATE ALLIANCE

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Next Steps

- Further information sharing and discussion at the:
 - October 9th BoF Planning Retreat
 - November 7th BoF Workshop