

Wildfire Prevention, Preparedness, and Expenditure Review

LEGISLATIVE AUDITOR'S CONCLUSION:

DNR's long-term approach to wildfire prevention and preparedness is supported by science and best practices. The approach requires coordination with other entities and may reduce fire severity, which can impact costs to suppress fires.

Casey Radostitz | Suzanna Pratt

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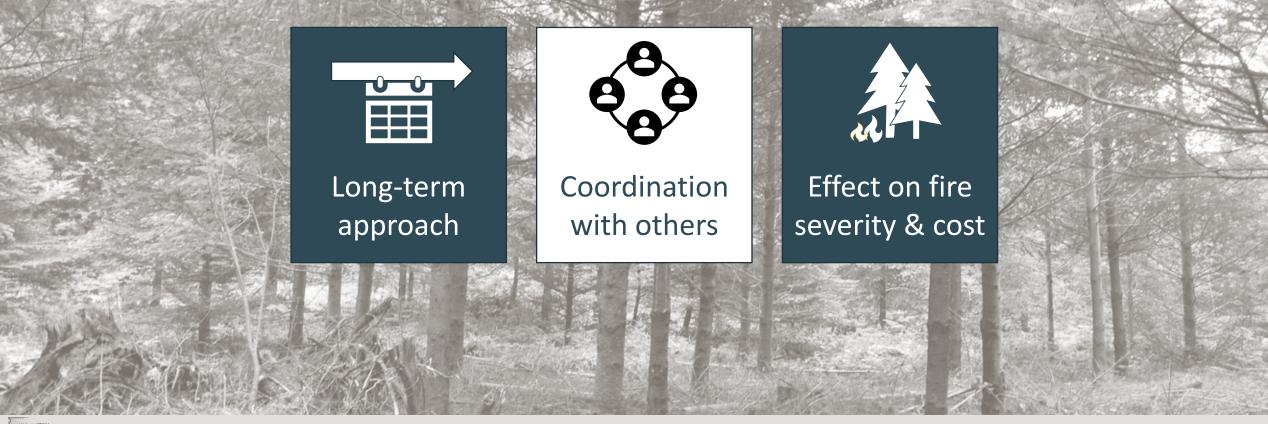
JLARC

Review DNR's wildfire prevention and preparedness activities and related expenditures.

Identify if evidence exists about how effectively these types of activities reduce the impacts and costs of wildfire.

Evaluate DNR's progress in implementing recommendations from the 2018 JLARC report.

Presentation Overview



DNR plans have a long-term, strategic approach to prevention & preparedness

• 10- to 20-year implementation timelines





PREVENTION

Reducing human-caused fires



Washington State DNR Wildfire waDNR_fire STATEWIDE BURN BAN - DNR expands burn ban to nclude DNR-protected lands Western Wa. More: pit.ly/WaBurnBan2014	Ŭ
BURN BAN	
5:25 PM · Jul 11, 2014 · Twitter Web Client	
14 Retweets 2 Likes	



PREPAREDNESS

Improving landscapes through forest health



Helping communities adapt to wildfire





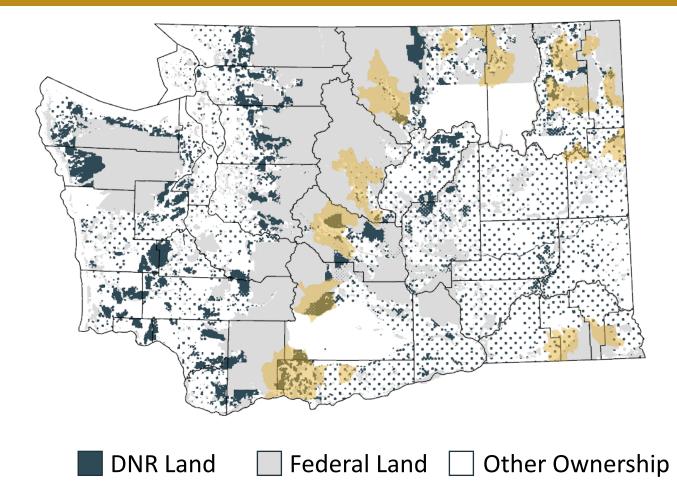
State law requires **DNR** to assess and treat 1 million acres of forest land by 2033.

Photo: Ed Suominen

JLARC

DNR identified **33 priority areas** to focus efforts.

Based on fire risk, wildland urban interface, water, habitat, timber, more...

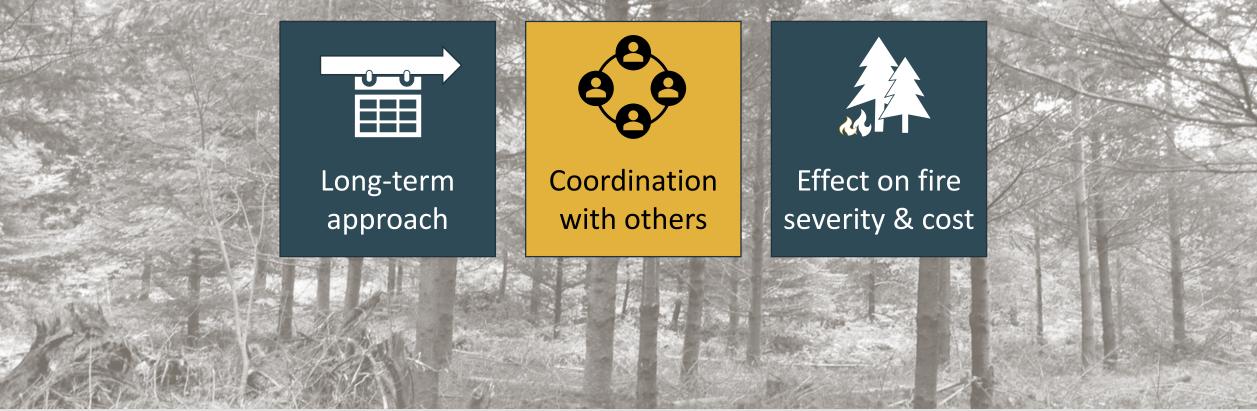


\$70 million

Spent on preparedness & prevention FY 2018 through 2020 DNR is developing a tracking system to link forest health activities with maps and financial information.



Presentation Overview

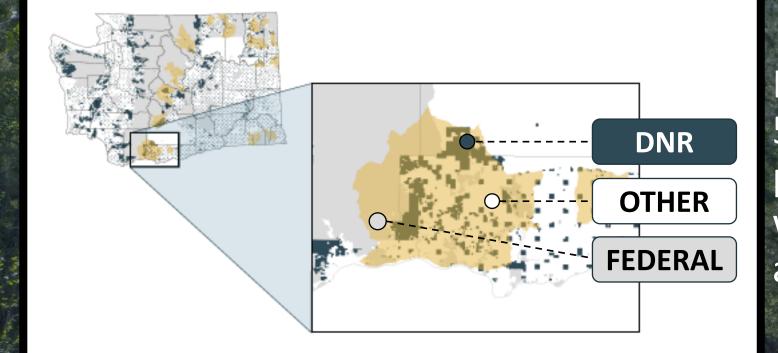


22 million acres of forest land

LANDOWNERS INCLUDE: State agencies | Federal agencies | Tribes | Private



The priority areas cross ownership boundaries



DNR owns or manages 500,000 acres in the priority areas. It must work with others to achieve goals.

Proposed Final Report: Wildfire Prevention, Preparedness, and Expenditure Review

JLARC



Landscape preparedness is coordinated through formal agreements, collaboratives, and assistance programs.

PARTNERS INCLUDE:

Federal agencies | Private landowners | Local governments | Tribes | Fire agencies | Conservation Districts | Community groups



Presentation Overview



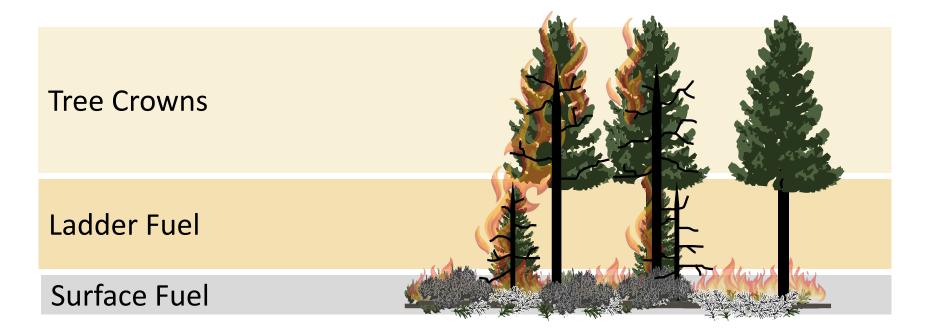
Research suggests removing fuels from the landscape has reduced the intensity and severity of individual fires.

Source: Review of 300+ research documents.

BEFORE FUEL REDUCTION

HIGHER INTENSITY: Fire spreads from forest surface through ladder fuels to tree crowns.

HIGHER SEVERITY: Fire spreads through canopy and forest is more damaged by fire.





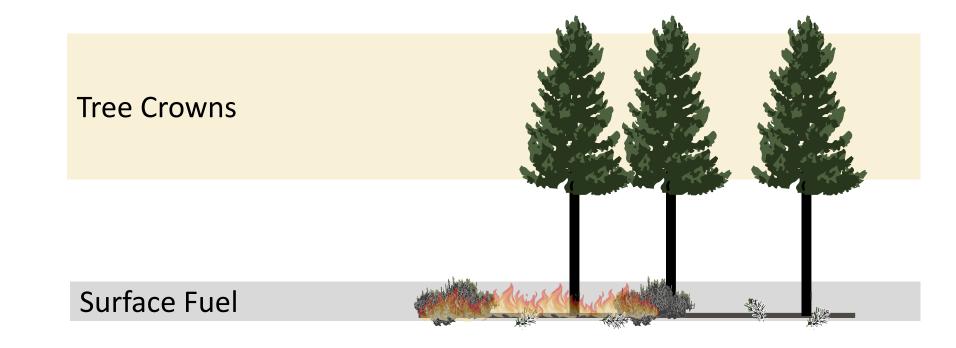
Research suggests removing fuels from the landscape has reduced the intensity and severity of individual fires.

Source: Review of 300+ research documents.

AFTER FUEL REDUCTION

LOWER INTENSITY: Fire less likely to rise to tree crowns.

LOWER SEVERITY: Forest is less damaged.





Thinning + Prescribed Fire is a best practice for removing surface fuels



Not treated with prescribed fire before wildfire

Source: Photograph taken by Justin Haug, Washington Department of Fish and Wildlife (WDFW).



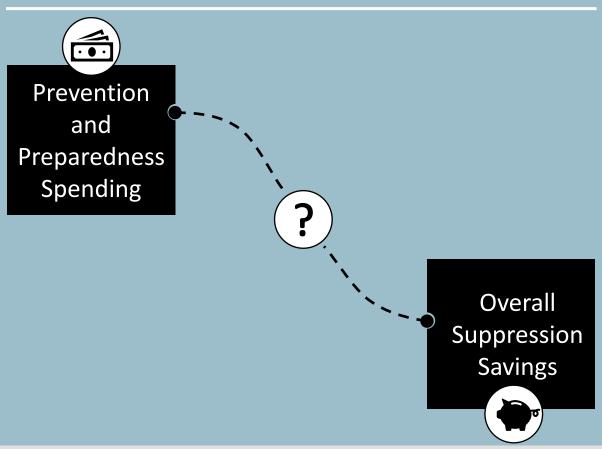
Treated with



Relationship between preparedness, prevention, and suppression spending is complex.



Models predict preparedness activities may reduce suppression costs for individual fires.



Many factors affect suppression costs

- Fire size and behavior
- Climate and weather
- Wildland urban interface





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Contact Us

Research Analysts

Casey Radostitz 360.786.5176 casey.radostitz@leg.wa.gov

Suzanna Pratt 360.786.5106 suzanna.pratt@leg.wa.gov Rebecca Connolly 360.786.5175 rebecca.connolly@leg.wa.gov

Jennifer Sulcer 360.786.5181 jennifer.sulcer@leg.wa.gov

Project Coordinator

Valerie Whitener 360.786.5191 valerie.whitener@leg.wa.gov

Legislative Auditor

Keenan Konopaski 360.786.5187 keenan.konopaski@leg.wa.gov

www.leg.wa.gov/jlarc