

Impacts and Costs of Wildfire Season 2020

Senate Agriculture, Water, Natural Resources, and Parks Committee

George Geissler, State Forester Washington DNR December 2, 2020

Fire Season Summary

- Conducted firefighting operations by utilizing COVID-19 mitigation strategies to help prevent the spread of the virus. Minimal number of positive cases, and no outbreaks. Spent nearly \$200,000 to keep firefighters in COVID PPE during the season.
- Utilized a wide compliment of engines across the state (120). Pre-positioned resources during the season, especially mid-August to end of September.
- Aviation assets included (10) Type 2 DNR helicopters, (1) Type 3 DNR helicopter, (2) Type 1 contracted helicopters, (5) contracted Single-Engine Air Tankers (SEAT), and (2) additional contracted Type 1 "scoopers" (CL 215s) from Montana.
- Governor's Emergency Declaration allowed DNR to bring National Guard into the response effort: (2) Blackhawks for water delivery; and, (3) crews for Whitney, who then went to Inchelium Complex.
- DNR has (3) Type 2 hand crews, helitack in Olympia and Yakima (pre-positioned based on need), and Camps Crews (10-person).
- Part of the national system, state-to-state agreements, mutual aid with fire service, and NW Compact with Canada to bring in additional resources.



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Resource Summary DNR ground resources available for Initial Attack, 2020 Fire Season. Type 2 Crews (20-person) Camps Crews (10-person) Region **Engines Dozers** Northeast 41 6 Southeast 29 Olympic 8 9 South Puget 13 9 Pacific Cascade 19 12 Northwest 10 Totals 120 3 36 DNR and Washington Fire Service (WFS) resources dispatched out of state. STATE DNR DNR Grand Overhead **Engines** Crews Overhead Total Overhead Alaska 5 Arizona 2 5 6 20 California 47 96 143 Colorado 19 30 49 Idaho 2 2 Nevada 4 4 New Mexico 1 1 WASHINGTON STATE DEPARTMENT OF PARTY OF THE 201 537 Oregon 19 3 336 TOTAL 5 747

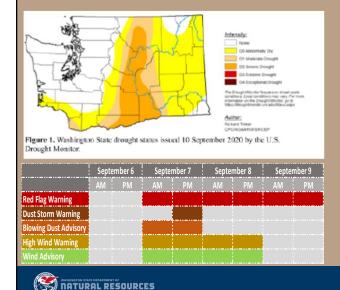
Weather and Fuels

- Three events shaped the fire season: a relatively dry spring that resulted in many escaped debris and open burning fires; a dry lightning storm in mid-August; and, the Labor Day wind event.
- Due to little rainfall in July, fuel conditions were at or below critical thresholds in eastern Washington.
- August continued the precipitation deficit, with a single wetting rain across most of the state on Aug. 6 and a rain event that impacted only the west side on Aug. 19-22.
- In September, a very strong thermal trough brought hot and dry conditions for a prolonged amount of time. On Labor Day weekend, there was an alignment of critical fuels, critical weather and abundant new ignitions.
- During the Labor Day event, widespread winds were sustained at 30-40 mph, with frequent gusts as high as 50 mph.



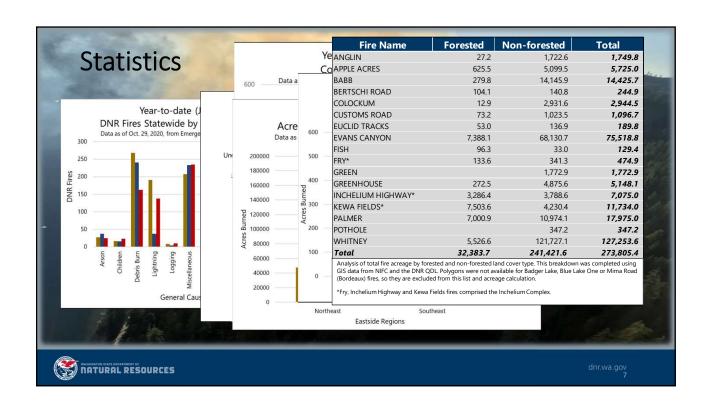
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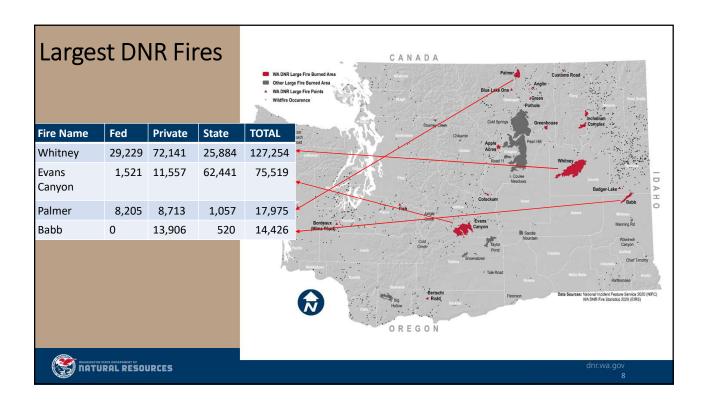
Labor Day event



- Continued drought conditions.
- Red Flag Warning in place for several days.
- High Wind Warning in place for days.
- Tree damage from wind with debris falling on power lines, and power outages occurred.
- 39 new fires started on Sept 7.
- Strong winds resulted in several fires burning long distances, including Cold Springs fire, which burned 50 miles on the 7th alone.
- Aviation was limited in response due to high winds lasting for multiple days after the main event.
- Smoke became a factor and created poor visibility for Aviation as well.

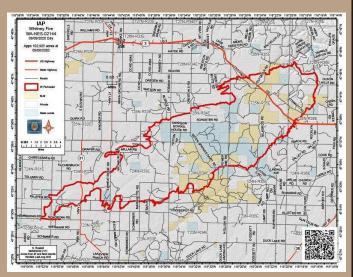
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Whitney

- The fire started on Sept 7. Cause is under investigation.
- The fire burned on lands protected by DNR, BLM, and Fire Service.
 State mobilization was provided by Washington State Police.
- The fire threatened grazing, recreation, and homes. Fuels burned were timber, sagebrush, range, and farmland.
- 145 structures damaged or destroyed, with 55 of those being homes destroyed.





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Evans Canyon

- The fire started on Aug 31. Cause is undetermined.
- The fire burned on lands protected by DNR and fire service. State mobilization was provided by Washington State Police.
- The fire threatened recreation and private property. Fuels burned were grass, brush, and timber.
- 6 homes were destroyed.



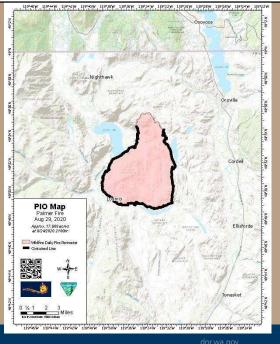
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Palmer

- The fire started on Aug 18. Cause is under investigation.
- The fire burned on lands protected by DNR, BLM, and Fire Service.
 State mobilization was provided by Washington State Police.
- The fire threatened recreation, timber, farmland, and homes. Fuels burned were grass, brush, and timber.





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Babb

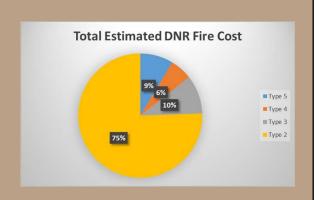
- The fire started on Sept 7. Cause is under investigation.
- The fire burned on lands protected by DNR and Fire Service. State mobilization was provided by Washington State Police.
- The fire threatened farmland, communities of Malden and Pine City, and range. Fuels burned were grass and timber.
- 228 structures were damaged or destroyed, and of the total, 4 homes damaged and 121 destroyed.





Financial Highlights – Estimated as of Sept 30

- DNR had 7 significant and costly incidents, incurring a cost of \$1M or greater.
- Three incidents exceeded \$500,000.
- Type 4 fires \$2.4M
- Type 5 Fires \$1.6M
- DNR is involved in 16 incidents that involve cost-share with other agencies.
- DNR will seek reimbursement from FEMA for 7 FMAG fires.





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Impacts

- Whitman County hardest hit, resulting in Presidential Declaration for Individual Assistance submitted to FEMA on September 16, 2020. DNR and National Weather Service provided weather and climate data for EMD.
- Other counties impacted: Okanogan, Ferry, Pend Oreille, Chelan, Douglas, Kittitas, Yakima, Lincoln, Franklin, Skamania, and Mason.
- Damage Assessment Estimated (Wind and Fire):
 - Utilities ~ \$20M
 - State Agency infrastructure ~\$15M
 - Other Gov't/Districts ~10M
- Total Structures Damaged/Destroyed: 464
- Total homes lost: 188
- Total Firefighter loss: 0
- · Total Civilian Loss: 1





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