





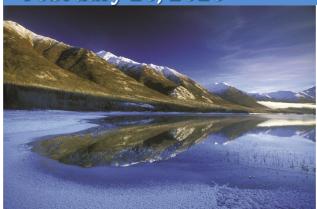
2019 Wildland Fire Season Update and FY20 Spring Fire Cost Estimate

Senate Finance Subcommittee



Alaska Department of Natural Resources

February 20, 2020

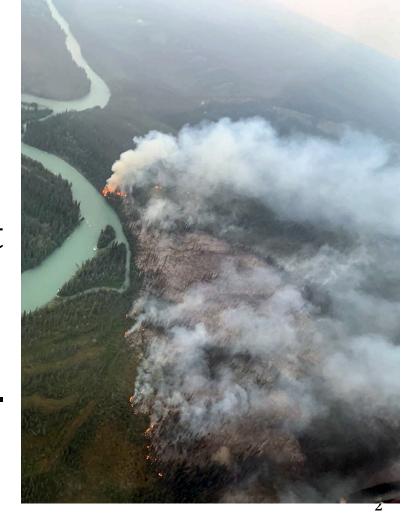


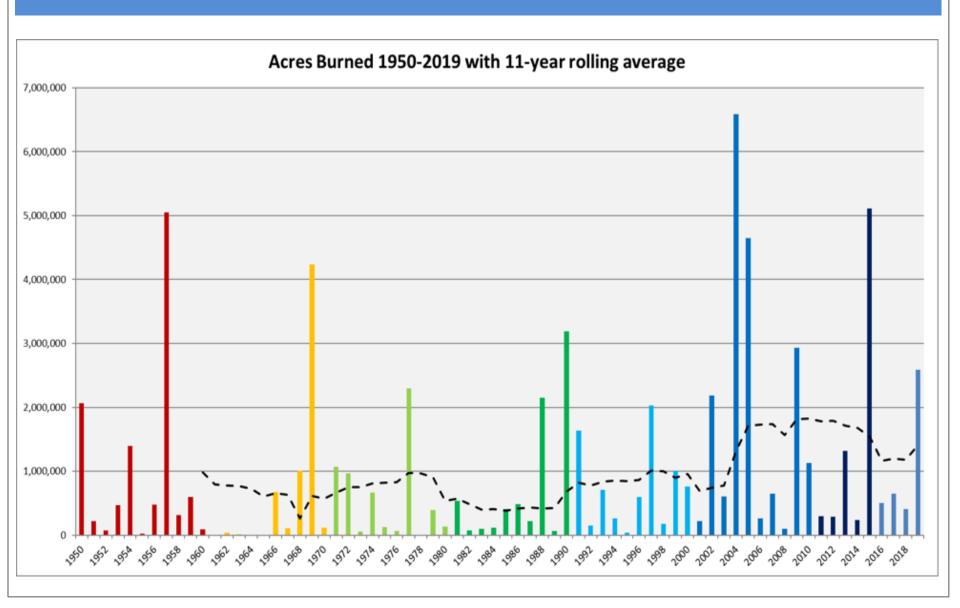






- Ranked #11 on list of AK's biggest fire seasons for acres burned and #8 for number of fires.
- 15th time since 1939 that Alaska surpassed the 2million-acre mark for acres burned in a season. Six of those have been since 2000.





Second-most destructive wildfire season in

Alaska history behind only 1996. There were a total of 158 structures destroyed in fires in 2019, including 59 primary homes,



most of which were lost in the McKinley Fire near Willow in August.

There were several DOF fires in the wildland urban interface that required evacuation notices, alerts and orders, including the



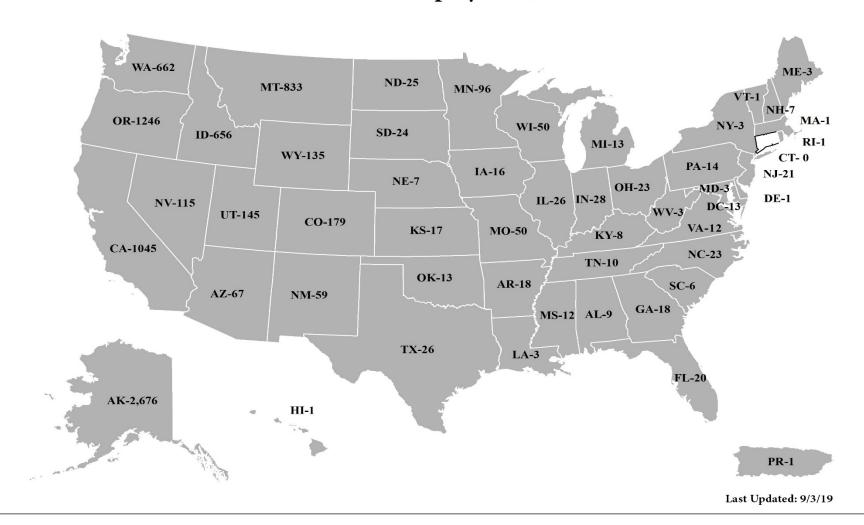
Bluff Drive, Swan Lake, Shovel Creek, Montana Creek, Malaspina, Kobe, Smith Creek, Rainy Pass, Deshka Landing, McKinley, North Fork and Levelock fires.

- 122 crews were imported from L48, some of which made two trips.
- More than 140 smokejumpers from



the L48 were brought to AK to help. There were 206 smokejumpers in AK on July 14, which was more than half of all the smokejumpers rostered in the U.S.

RESOURCES DEPLOYED TO ALASKA FIRES 2019 Personnel Deployed: 8,444



The nearly 2.6 million acres that burned in Alaska represented more than half the total acreage – approximately 4.7 million acres - that

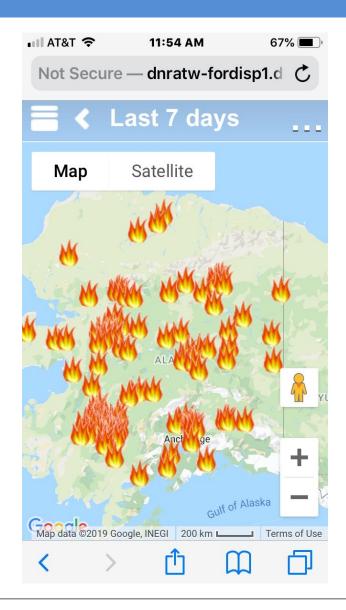
Fires and acres burned

by state in 2019

| <u>State</u> | Fires | Acres |
|------------------------|-------|-----------|
| 1. <mark>Alaska</mark> | 719 | 2,589,893 |
| 2. Arizona | 1,852 | 378,798 |
| 3. Idaho | 956 | 283,083 |
| 4. California | 8,092 | 258,731 |
| 5. Texas | 5,925 | 201,363 |

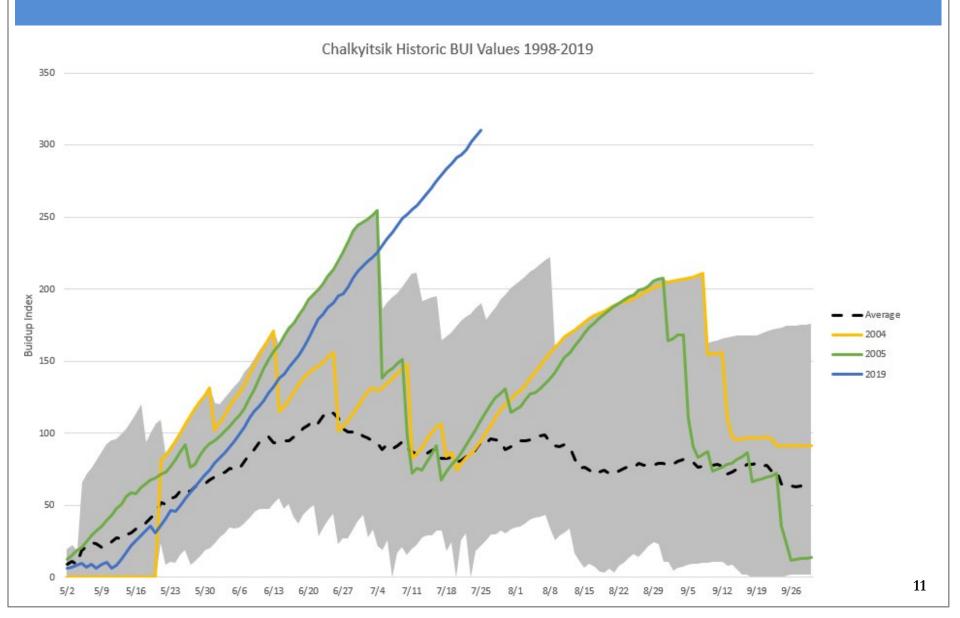
burned in the United States in 2019.

- Approximately 20,000 lightning strikes across Alaska between June 4-13
- The single biggest day was on July 11 with 25,157 lightning strikes



Weather was a major factor:

- Warmest March on record contributed to early snowpack melt, producing high-fire danger conditions by late April.
- Record-high fire indices across the state contributed to a high level of fire activity and long-duration fires that were very resistant to control. Extensive mop-up was required on many fires due to the depth of burning.



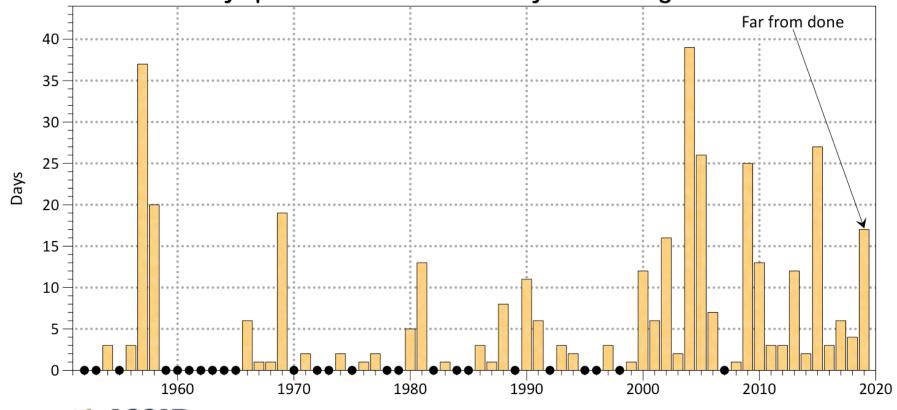
Mop-up on the line and near structures



Checking for heat



Fairbanks, Alaska, 1952-2019 Days per Summer with Visibility Restricting Smoke



Alaska Center for Climate Assessment and Policy A NOAM RISKS 1000

Graphic and analysis by @AlaskaWx

Data source: NOAA/NCEI & NWS

Criteria: Days at Fairbanks International Airport
with visibility ≤6 miles May through Sept

2019 data through July 11

Smoke Conditions in Chalkyitsik



- Shovel Creek Fire (21,309 acres)
- Prompted
 evacuations and
 threatened hundreds
 of homes northwest
 of Fairbanks



Shovel Creek Fuel Break and Burnout



Governor Dunleavy Meeting Hand Crew



Donlin Mine Point Protection-Burnout





Ignition Methods





- Swan Lake (167,164 acres)
- Longest staffed wildfire in AK history, with personnel assigned for four months



- At estimated cost of \$49 million, it was the most expensive fire in the country in 2019.
- No structures
 destroyed but very
 diruptive due to long



duration, road closures & delays on the Sterling Hwy and smoke & economic impacts to local communities and Anchorage.

Fiscal Summary CY2019

- The Division of Forestry spent \$224.8 million in fire suppression funds: \$142.1 GF and \$82.7 FED authority
- The State is expecting to be reimbursed \$82.7 million for fires the State managed on Federal lands.
- Overall cost of the 2019 season for State and Federal agencies will be over \$300 million.

Three fires qualified for a Federal Management

Assistance Grants:

- Shovel Creek
- Deshka Landing
- McKinley



Eligible costs are reimbursed at a 75% rate and will save approximately \$24-\$30 million in GF.

- Estimates of the FY20 spring/early summer fire season are based on historic costs and a fouryear average
- A declaration for \$16.0
 million is anticipated for
 both GF and Fed
 Authority

