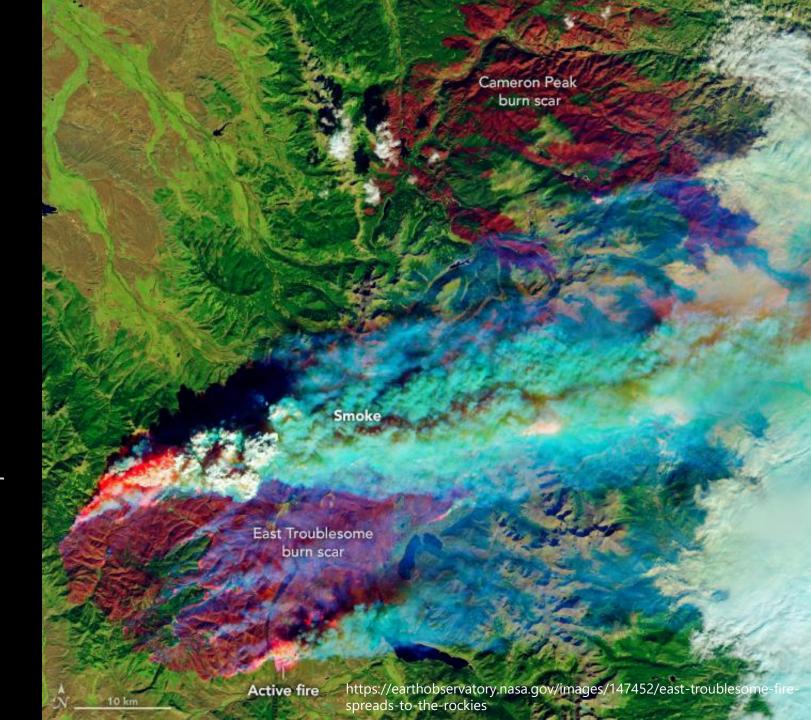
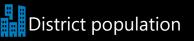
East Troublesome and Cameron Peak Wildfire Impacts

Kimberly Tekavec, Northern Water

Water Literate Leaders March 20, 2024







Northern Water Today

Ownership

Ag: 29%

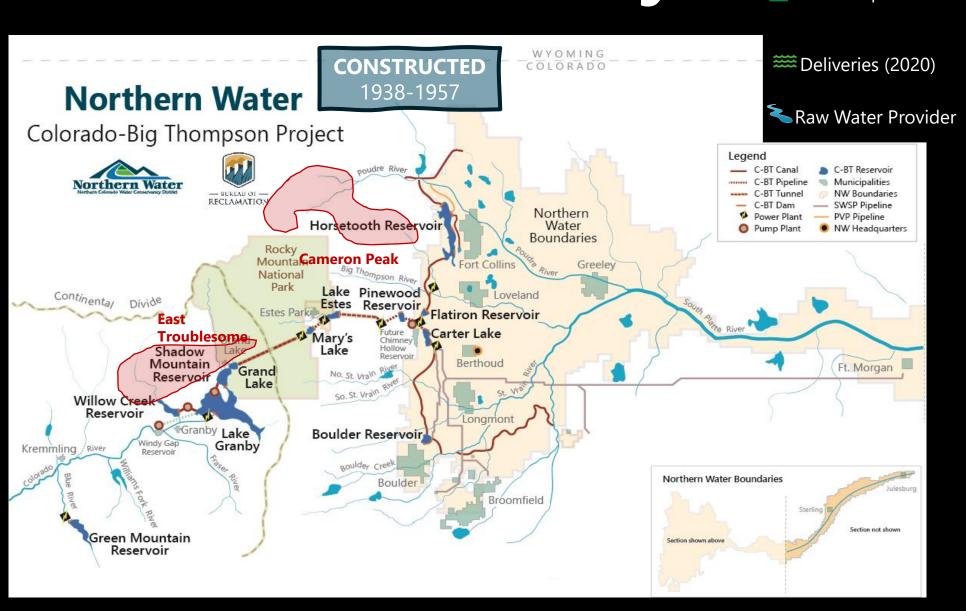
1,021,000

M&I: 71%

Ag: 40%

M&I: 60%

210,000 acre-feet/year



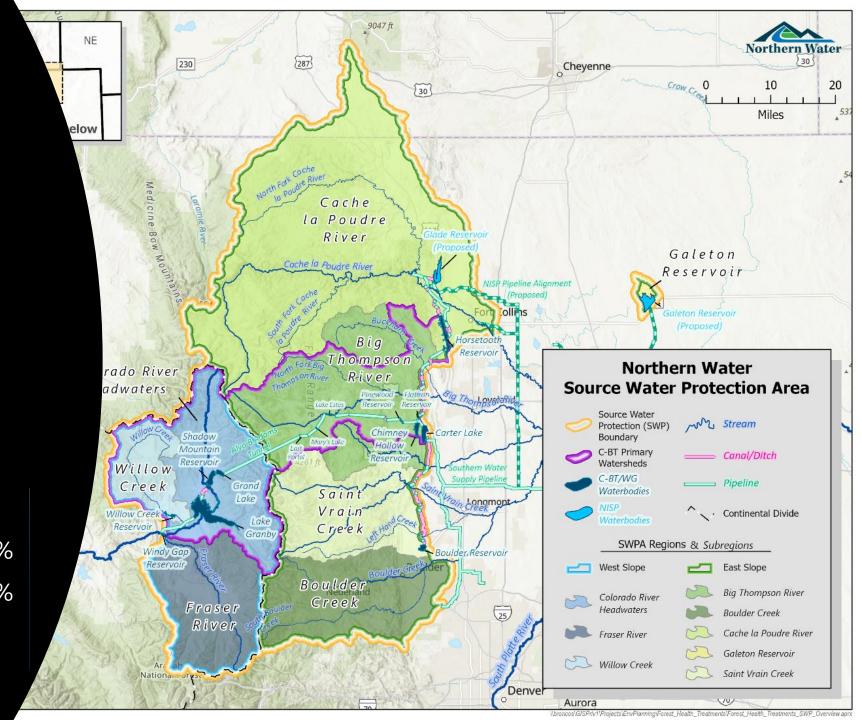
Source Water Protection Area

SWPA (ac)

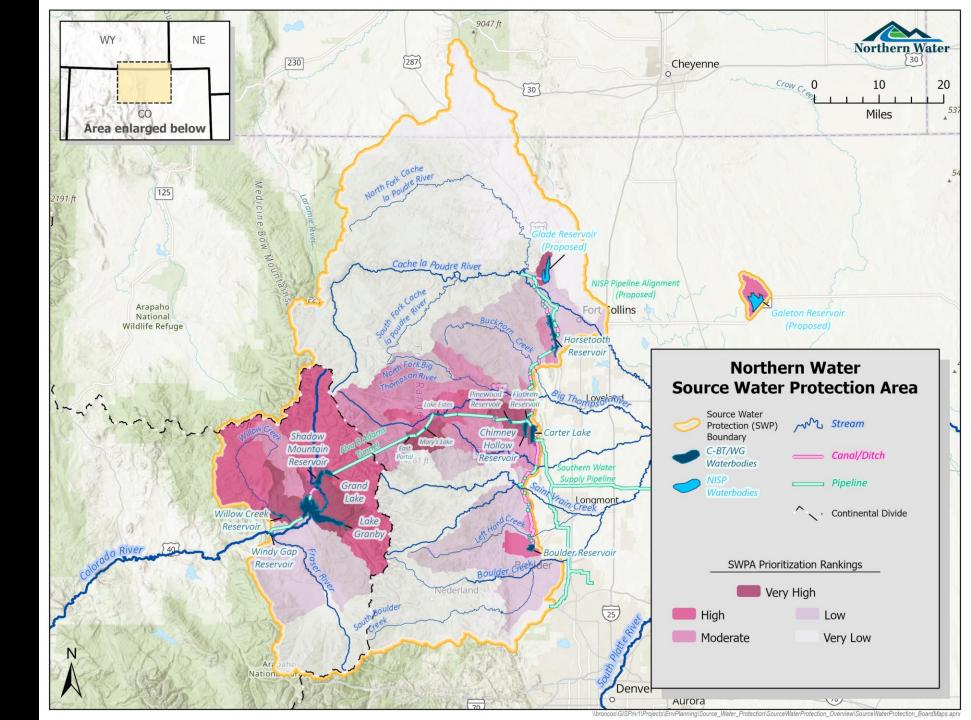
East Slope 1,595,122 76.2%

West Slope 498,126 23.8%

Total 2,093,247

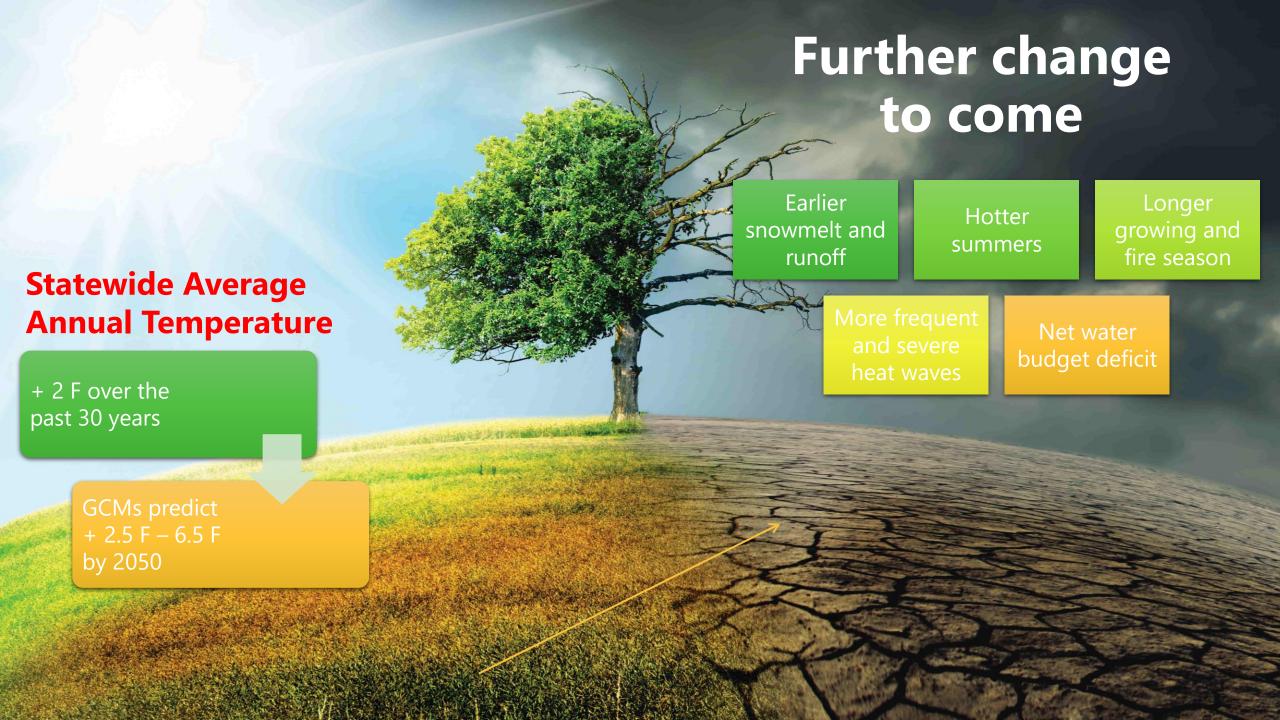


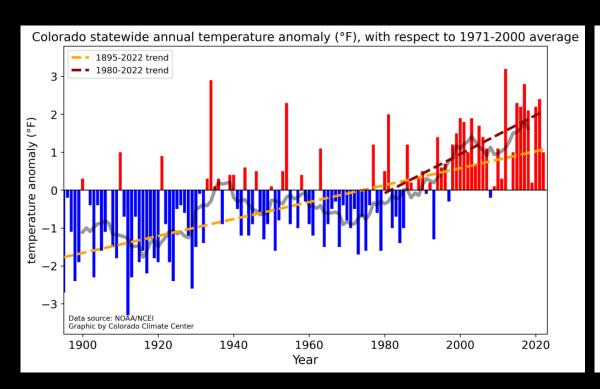
SWPA Prioritization Rankings (draft)

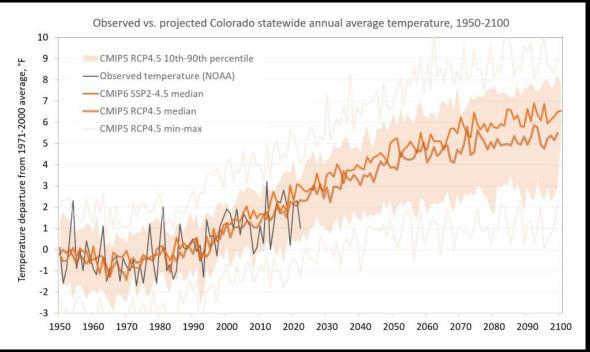


Context

Climate Change and Compromised Forest Health







Source: Colorado Climate Center

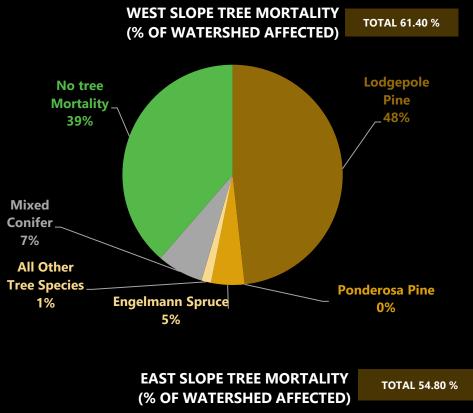


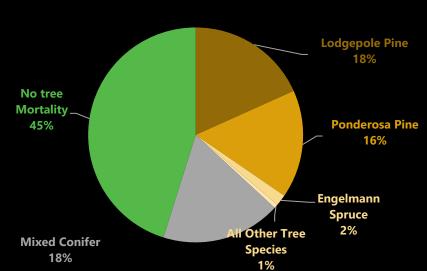


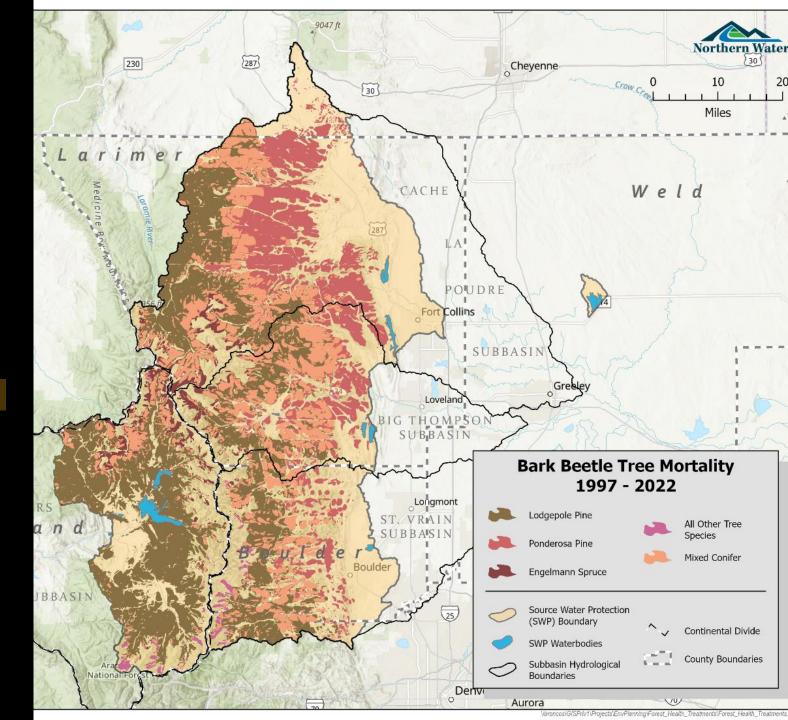
September 11, 2005 September 28, 2011

Bark Beetle Epidemic

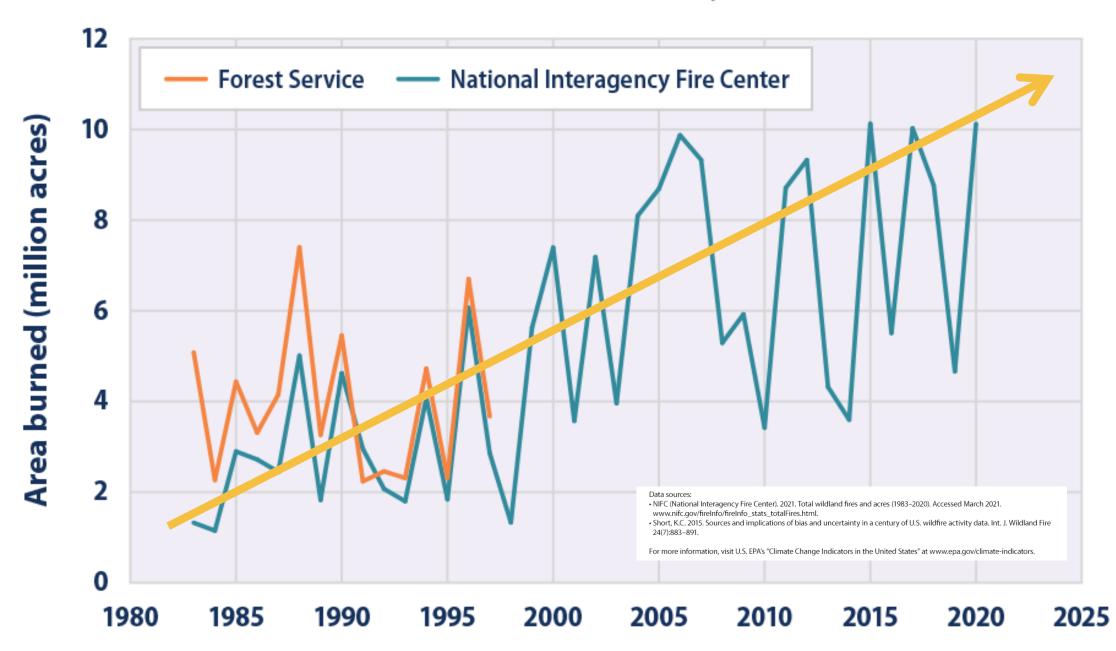




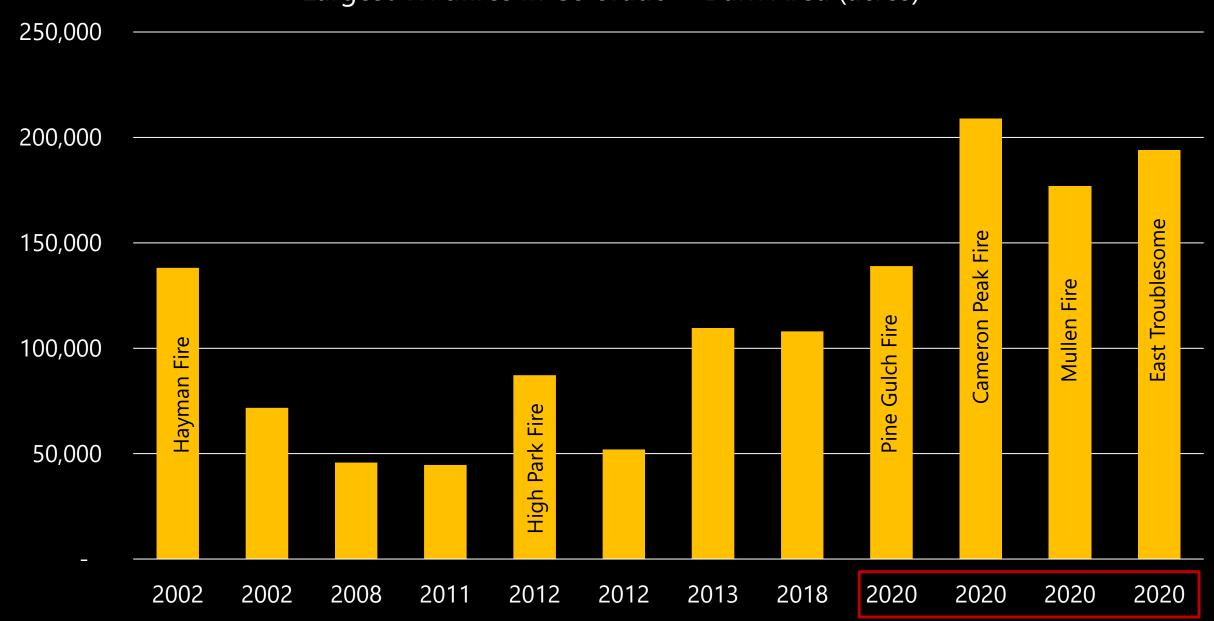




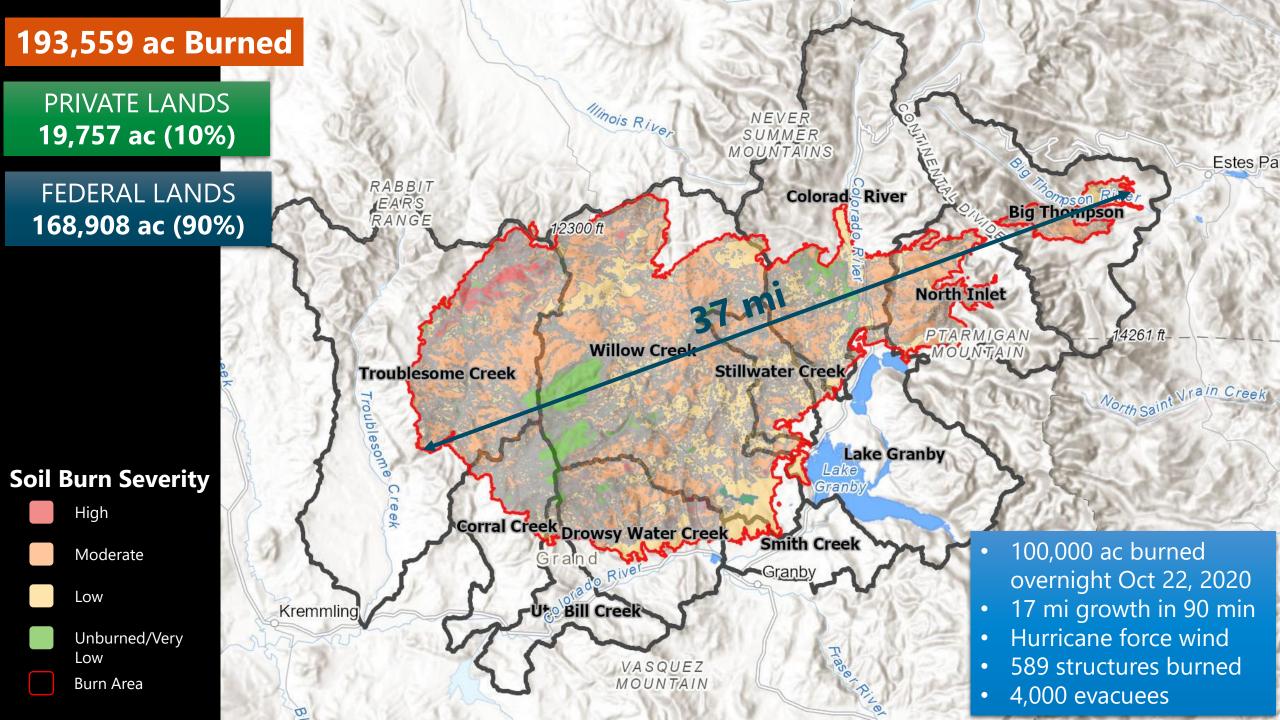
Wildfire Extent in the United States, 1983–2020



Largest Wildfires in Colorado - Burn Area (acres)

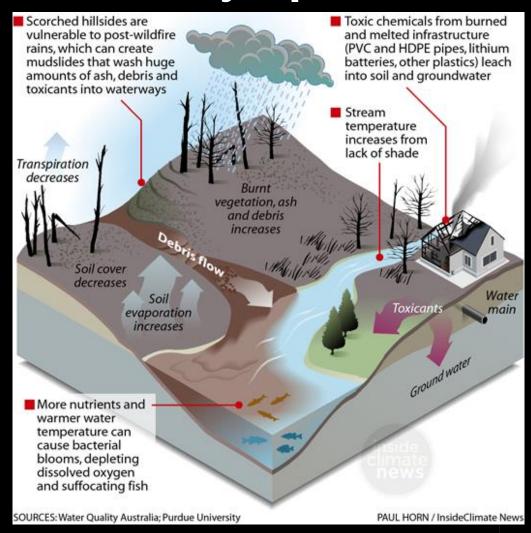


2020 Wildfires

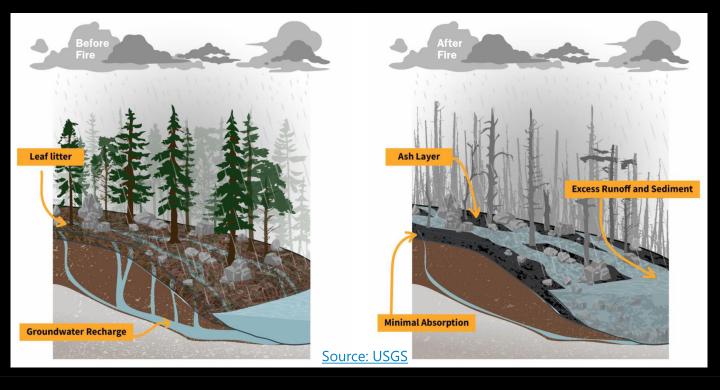




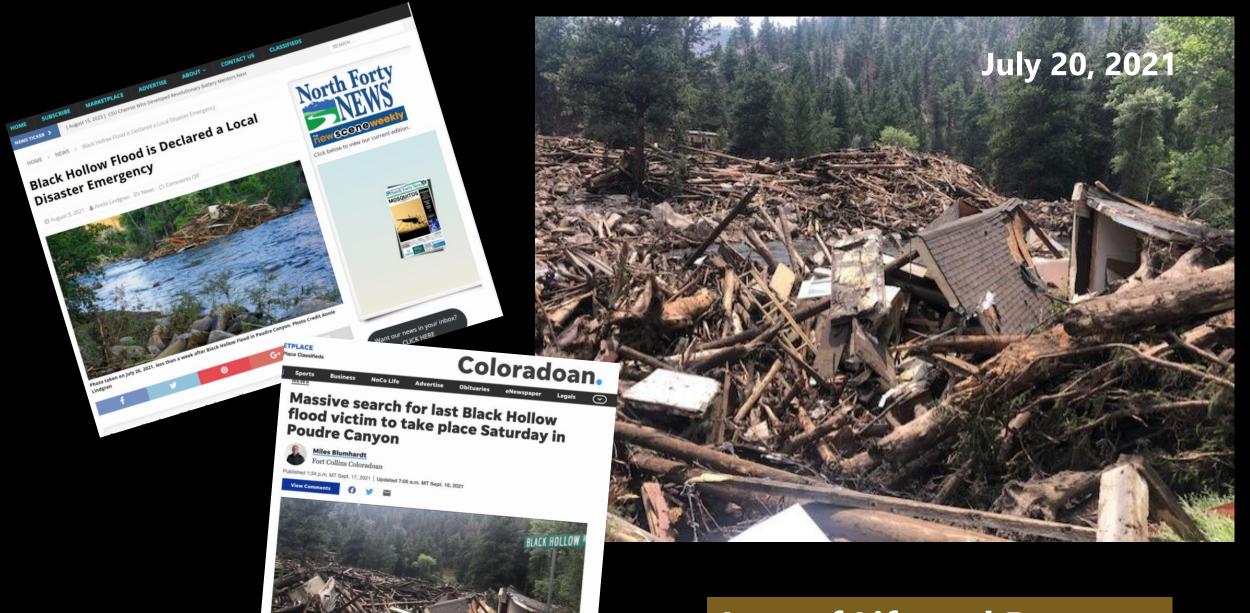
Water Quality Impacts



Flood After Fire







Loss of Life and Property





Stillwater Creek Road Crossing





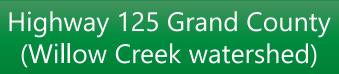
Black water events – August 2021





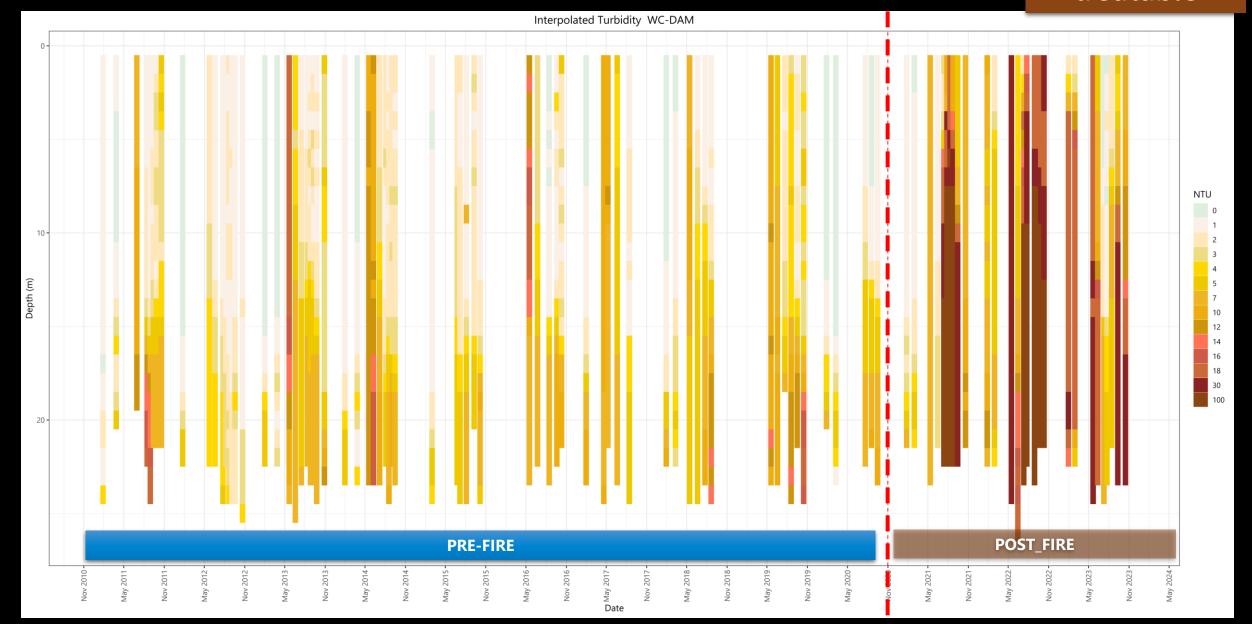








>100 not treatable









WILLOW CREEK RESERVOIR DELTA

Loss of Storage

Timeframe	Annual Volume Lost (af)
1969 - 2020 Annual Average	14.8
2020 - 2021 Combined Survey	51.1
2021-2022 Survey	50.5

3.45 x baseline (2021) 1% active storage annually



Post-Fire Watershed Protection



Phase I

Emergency Watershed Protection Program (NRCS)

• Private Lands

Life and Property Protection Mulching



Phase II

Federal Lands: BLM & USFS

- Cooperative Agreement
- Participating Agreement



Phase III

USFS

Participating Agreement

Mulching

Watershed Restoration

Highway 125 Before









AERIAL MULCHING









12,520 ACRES 980+ SEMI 87 DAYS LOADS



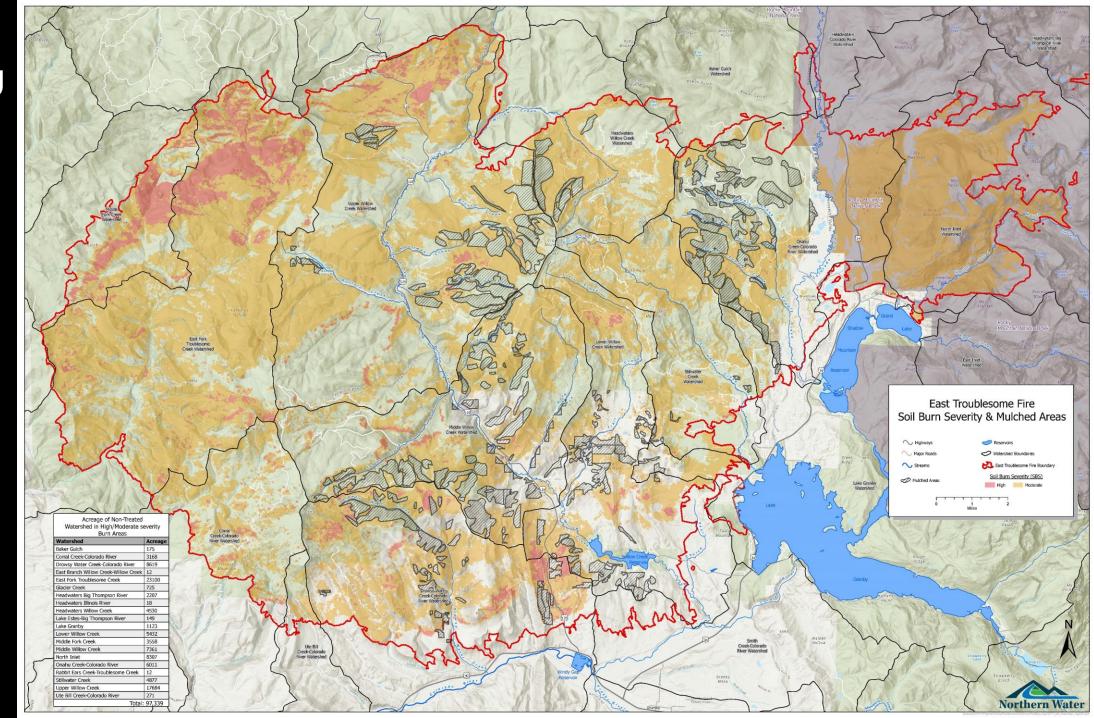


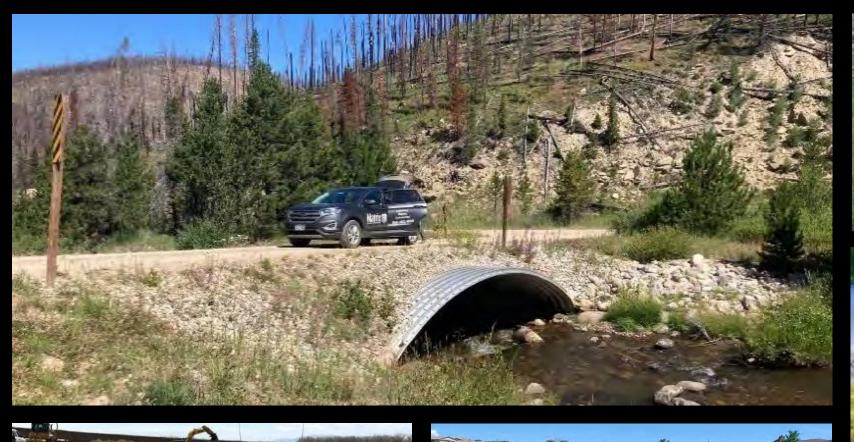
\$26.5 MILLION 19,000+ DROPS



Mulching

97,000+
acres
remain
untreated
(moderate
+ severe
burn)







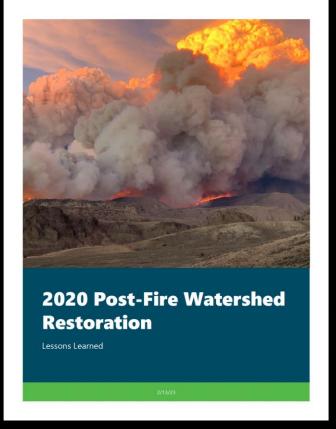










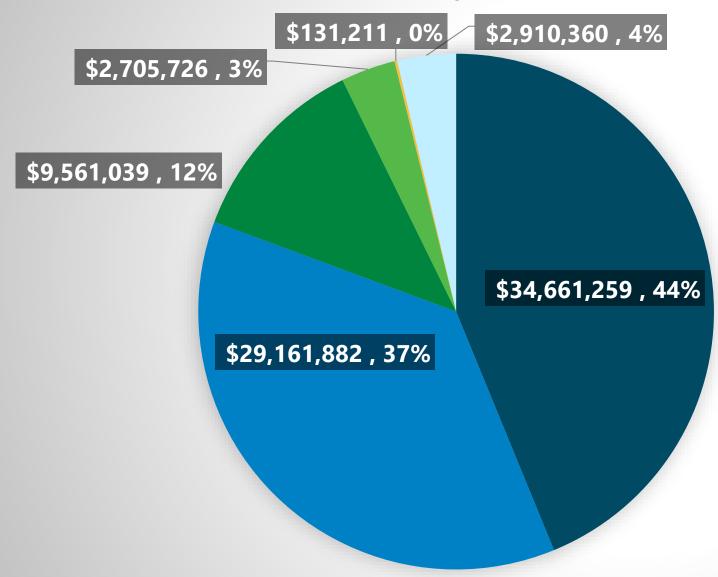




Other Lessons Learned

- Watershed Protection and Forest Recovery Act of 2023
- **Lessons Learned Report**
- CWCB Instrumental!

East Troublesome Fire Watershed Restoration Cost to-date (January 2024)



TOTAL ~\$79,000,000

- USFS
- NRCS EWP
- CWCB
- BLM

Thank you

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