Alaska Division of Forestry and DNR Overview

ABoVE 2nd Science Team Meeting
Anchorage, Alaska
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Why Inventory Alaska?

- Changing Wildland Fire Regime- fire return interval and vegetative changes

- Climate Issues- permafrost changes and associated GHG releases

- Woody Biomass and Energy Projects – sustainability of fuel supplies in both urban and rural communities
Wildland Fire
Figure 1.- History of acres burned by year in Alaska with rolling average by eleven year increments. Note the significant jump in the running average that began in 2004.
Figure 2.- Number of lightning strikes (61K) across Alaska during a critical seven day period in the 2015 fire season and the number of new fire starts each day.
Lightning Strikes 6-20 to 6-24-15
MODIS 6-Days Previous with Smoke Model
Figure 3.- Extreme late season fire activity on the Twin Creeks fire on Kodiak Island. Image was taken from the community of Kodiak looking across the ocean on the evening the fire started. The settlement of Chiniak is between the fire and the ocean shoreline.
Climate Issues
Methane Capture in Frozen Lakes
Methane Flare
Biomass and Energy

Woody biomass
Alive with jobs.

Biomass harvesting can help generate sustainable renewable energy, improve forest health, and revitalize rural communities.
Figure 4.- Example of shaded fuel break and natural barriers working together to reduce wildland fire risk for the community of Nikolai. (Bureau of Indian Affairs and Tanana Chiefs Conference, Inc. project)
Biomass and Energy

Superior Pellet Mill Fairbanks
Wood Chips Space Heating

Tok and Delta Schools
Craig Public Buildings