Forestry Update

Senate Resources Committee February 15, 2019



Chris Maisch, Director and State Forester Division of Forestry Alaska Department of Natural Resources

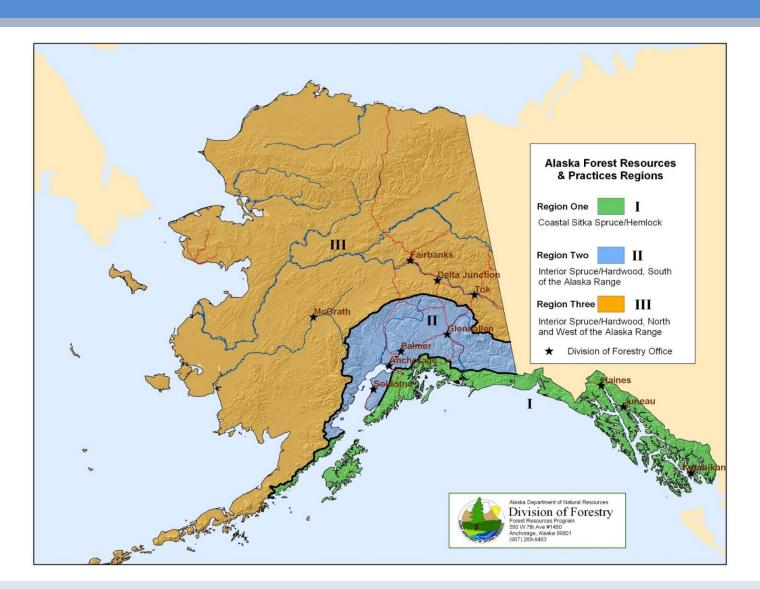


What Conditions Maintain or Grow the Forest Products Sector in Alaska

- Stable land base for forest management that produces a consistent offering of timber sales
- A mix of private, state, Trust (MHT and UTL) and federal land
- Access to markets both domestic and foreign
- A range of timber sale options, including longer-term commitments of supply 10 to 20 years
- Use of Good Neighbor Authority (GNA) to partner with the U.S. Forest Service to conduct work on national forest lands
- Access to resources and the current state specific Roadless
 Rule effort between the State and USDA



Forest Resources and Practices Act and Forest Types Across the State



DOF Forest Health Program Spruce beetle efforts

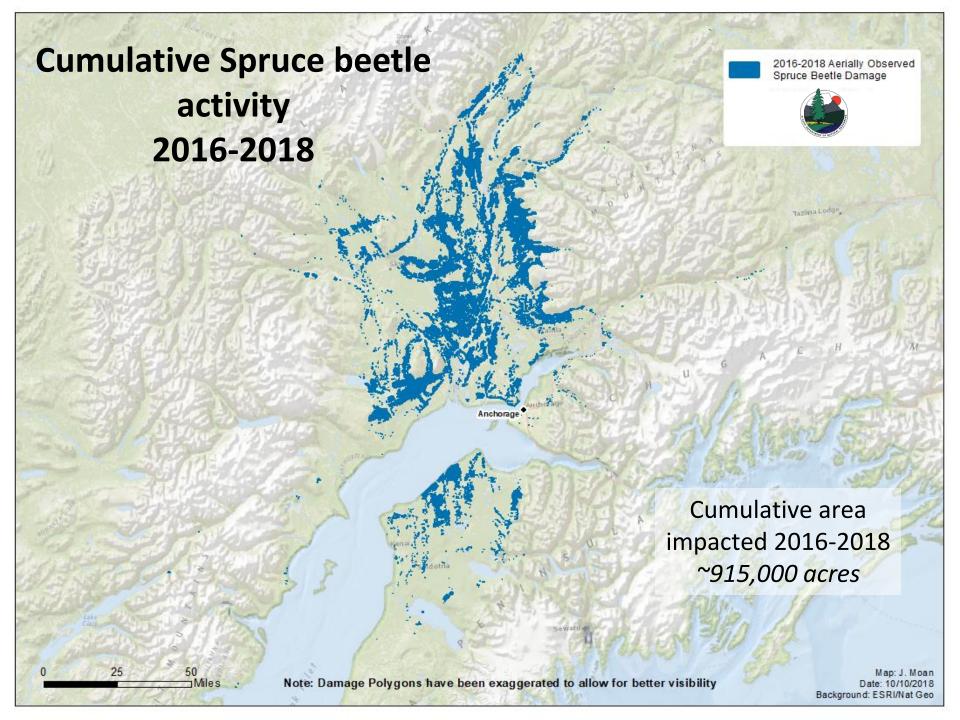




A handful of spruce beetles Soldotna

Photo: H. Rinke, AKDOF





DOF spruce beetle population monitoring, select locations

 Houston (2017-2018), Denali State Park (2018), Eagle River (2018), Homer (2018)

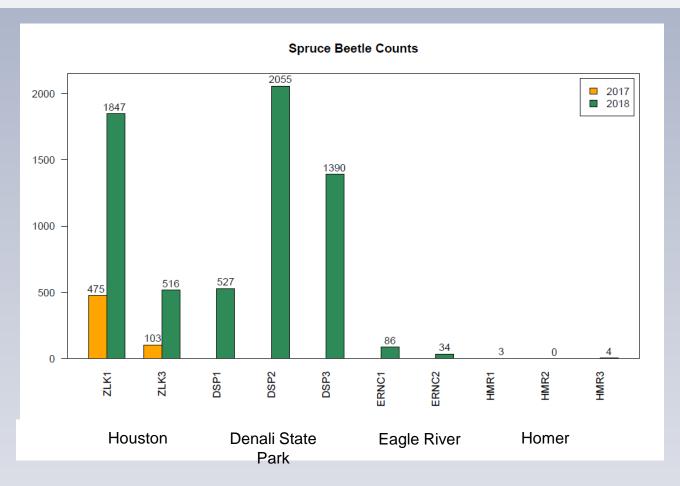
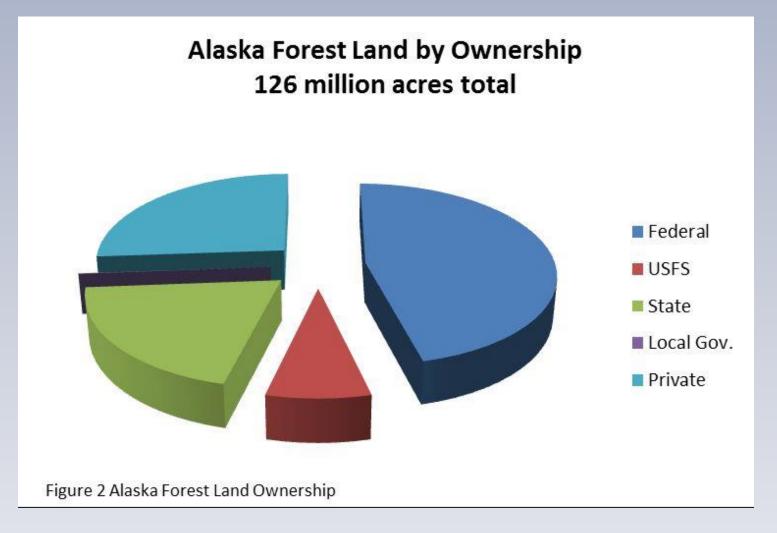




Figure: M. Schoofs, AKDOF

Who Owns Commercial Forest Lands





Statewide Overview of the Forest Products Sector

- Regional differences in scale, markets, products and type of facilities
- Primary Manufacturing
- Log Export
- Secondary Manufacturing
- Non Timber Forest Products
- Woody Biomass Projects scale and types of fuels



Primary Manufacturing Facilities

Viking Sawmill-Craig

Tidewater and Road Access







Primary Manufacturing Facilities

Head Rig Cutting Old Growth Log
Producing Lumber

By Products
Chips and Sawdust





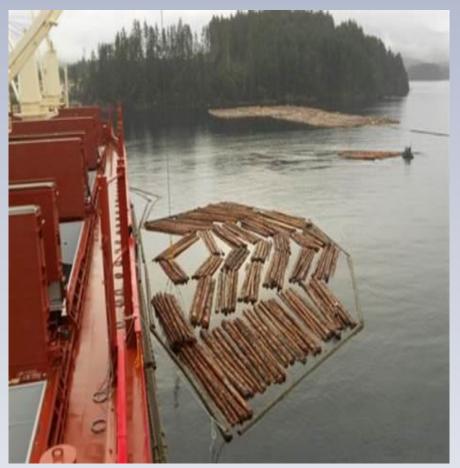


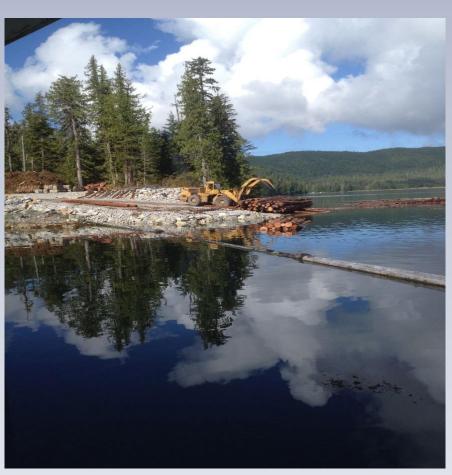
Primary Manufacturing Log Export

Loading Bundles of Young Growth

Logs for Export

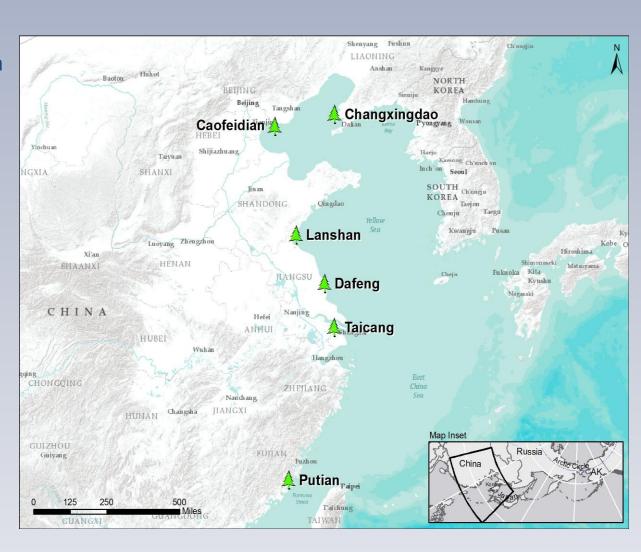
Edna Bay Log Transfer Facility (LTF)
And Young Growth Logs





Log Exports and Phytosanitary Inspection

- Agriculture program
 staff provides inspection
 service and third party
 fumigation inspections
 on-board ship in Korea
 for logs heading to
 China ports without on shore facilities
- Industry pays travel costs
- On shore fumigation is now available in six ports
- Value last year \$74.3 million in exports
- Log tariff issue



Primary Manufacturing Facilities

Superior Pellet LLC- North Pole

Pellet Press Two Units





Primary Manufacturing Facilities

Wood Pellets for Commercial and Residential Space Heating Markets





Primary Manufacturing Facilities Smaller Scale

Log Turning Mill
Log Homes and Cabin Kits

Wood Miser Band Mill Lumber and Timbers







Secondary Manufacturing Facilities Fairweather Ski Works - Haines







Secondary Manufacturing Facilities Great Alaska Bowl Company - Fairbanks

Nested Birch Bowls



Production Floor





Non Timber Forest Product Manufacturing Facilities

Kahiltna Birch Works

Sap Evaporator
Sap to Syrup Ratio 70:1







Woody Biomass and Energy

- Types of Wood Fuels Used
- Scale of Operations From Commercial to Residential
- Space Heating Most Common in AK
- Electrical Generation Tentative Steps
- Combined Heat and Power Larger Scale



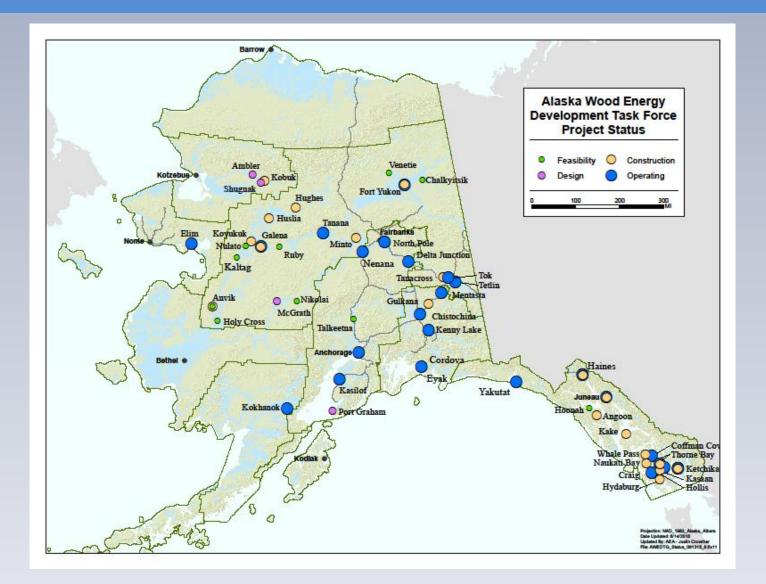
Wood Chips

Solid Wood

Pellets



Locations of Biomass Energy Projects





Ketchikan Airport Pellet Fuel Heating Project

Pellet Silo Next to Boiler Building

Pellet Boiler







Galena Woody Biomass Heating Project

Wood Boiler



Chip Auger and Conveyer to Day Bin and Boiler





Galena Woody Biomass Heating Project

Covered Storage for Chips

Timber Harvest Operations







Tanana Solid Wood Fuel Heating Project

Garn Wood Fired Heating System Model 20000

Produces 450,000 BTUs per Hour Energy Stored in Water Jacket







Community Sustainability and Economy

Tanana Resident Cuts and Hauls Wood to Sell to the City

Projects Create Jobs and Keeps More Dollars in the Community









Seismic Test CLT 7-Story Building

