

**Bureau of Land Management
Nevada Forest Biomass Utilization**

Goal: Increase the commercial utilization of small diameter woody material from forestry, fuels and rangeland treatments.

A. Supply

State-wide Nevada public lands contain:

- About 300 Forested Islands (Mountain Ranges)
- Over 6 Million Acres of Pinyon/Juniper/Mountain Mahogany
- Over 150 Thousand Acres of Other Forest Species

The pinyon/juniper woodlands include species such as pinyon pine, Utah juniper and curlleaf mountain mahogany. 2-3 million acres are considered usable for wood production based on the percentage of the woodland that occurs on slopes of 30 percent or less. This represents a Net Volume of .9 – 1.4 billion cubic feet.

The Ely Field Office manages roughly half of BLM Nevada's forested lands. Their draft Resource Management Plan states that they plan to treat 1.1 million acres of woodland and maintain 2.5 million acres.

- Pinyon/Juniper Volumes and Weights

State-wide the BLM averages 6.5 cords per acre. High sites commonly contain 13+ cords per acre with some sites in excess of 30 cords per acre. Pinyon pine and Utah juniper averages about 2.2 green tons per cord. Mahogany averages over 3 green tons per cord. A recent whole-tree thinning project in Nevada produced about 10.6 green tons per acre.

- Pinyon/Juniper Average Stand Growth

Stand Age (Years)	Cubic Feet	Average Stand Diameter (Inches)	Volume (Cords)
100	500	7	6.3
150	750	8.5	9.4
Indicates actual stand growth is about 5 cubic feet/acre/year.			

B. Current and Potential Markets

- The General Public
- Fuels-For-Schools
- Nevada State Prison
- Honey Lake Power
- Other Future Biomass Plants

EXHIBIT K - LANDS
Document consists of 2 pages.
Entire Exhibit Provided
Meeting Date: 12-14-05

The General Public – Currently utilizes 7,500 to 8,000 cords of fuelwood; 6,000 to 7,000 Christmas trees; and varying quantities of posts, pine nuts, and wildings (live transplants) annually.

Fuels-For-Schools – The first project to date is located in Ely, Nevada. This boiler will utilize around 150 tons of biomass annually.

Nevada State Prison – Currently planning a one mega-watt generator that will utilize 10-12 thousand pounds annually. This plant is expandable at one mega-watt per expansion.

Honey Lake Power – Requires 205,000 Bone Dry Tons annually. This equates to 13 – 14 Thousand Truck Loads per year at 24 – 25 Green Tons per Load. The plant is currently running at about 55 percent capacity due to fuel shortage.

Other Future Biomass Plants – Lovelock plant, Carson Landfill plant, others....

C. Projects that Produce Biomass

- Forest Health Treatments
- Fuels Treatments (both WUI and non-WUI)
- Salvage Treatments (Fire/Insect)

D. Barriers to Using Biomass

- Few markets currently available in many areas
- Low value of materials
- Transportation costs to utilization centers

12/13/05