Oregon Solutions Southern Oregon Renewable Energy Project Feedstock on Public Lands







Blair Moody Biomass / Stewardship Program Lead Medford District BLM Rogue River-Siskiyou National Forest





Biomass

Biomass is all vegetative materials grown in forest, woodland, or rangeland environments that are the by-products of management, restoration, or hazardous fuel reduction treatments.

Historically, this material has had little value and has to be disposed of by mostly hand piling and burning.



Biomass utilization is the offer, sale, trade, harvest or use of vegetative material to produce a product or energy.







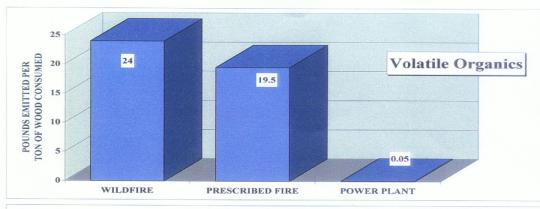


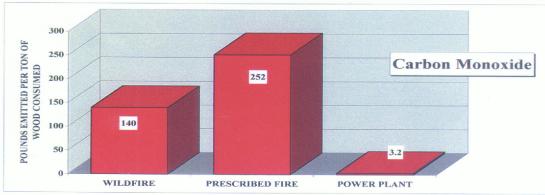


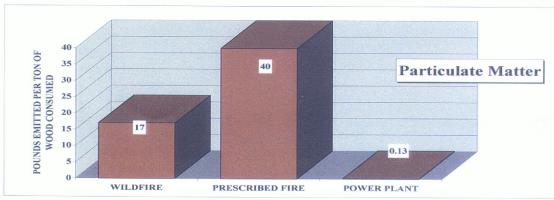


Rough & Ready Lumber Co. Cave Junction

Pollutant Emission Comparison









Profitable Biomass Utilization:

- Whole tree skidding, adequate landing space
- Mechanized processing of trees in landing
- Chipper and van access to process biomass to hogfuel concurrently with other operational aspects









Present Markets

- Energy
 - Cogen Facility
 - Wood pellets
 - Bio Bricks, Pucks
 - Firewood
 - Chips
- Post and pole
- Compost
- Shavings for animal bedding
- Erosion control products
- Wood plastic composites



Barriers to Woody Biomass Use

- High thinning costs
- High transportation costs
- Limited capacity for local use
- Low quality of material
- Small size of material
- Road Systems
- Sustainable Supply



What Is Taking Place in Southern Oregon To Promote More Utilization of Woody Biomass?

Southwest Oregon Interagency Biomass Utilization Strategy



Medford District Bureau of Land Management and

Rogue River – Siskiyou National Forest

January 2008

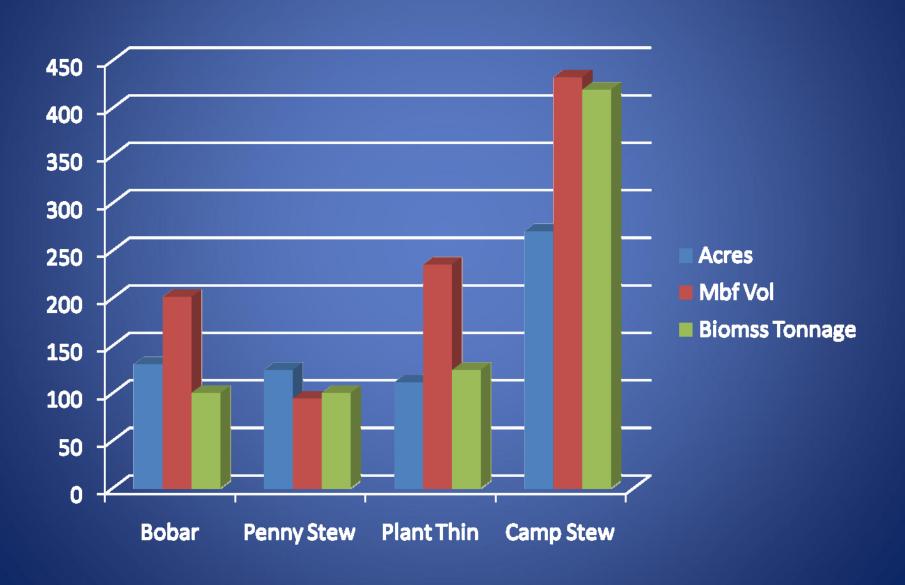




Medford District Completed Stewardship Contracts

Stew Name	MBF Working -	Biomass Removed (Green Tons)	Acres Completed
Bobar Ashland	201	100	130
Penny Stew Grants Pass	93.92	100	124
Plantation Thin Ashland	235.1	124	111
Camp Stew Butte Falls	<u>432.42</u>	<u>419</u>	<u>270</u>
23.00 1 3.13	962.44	743	635

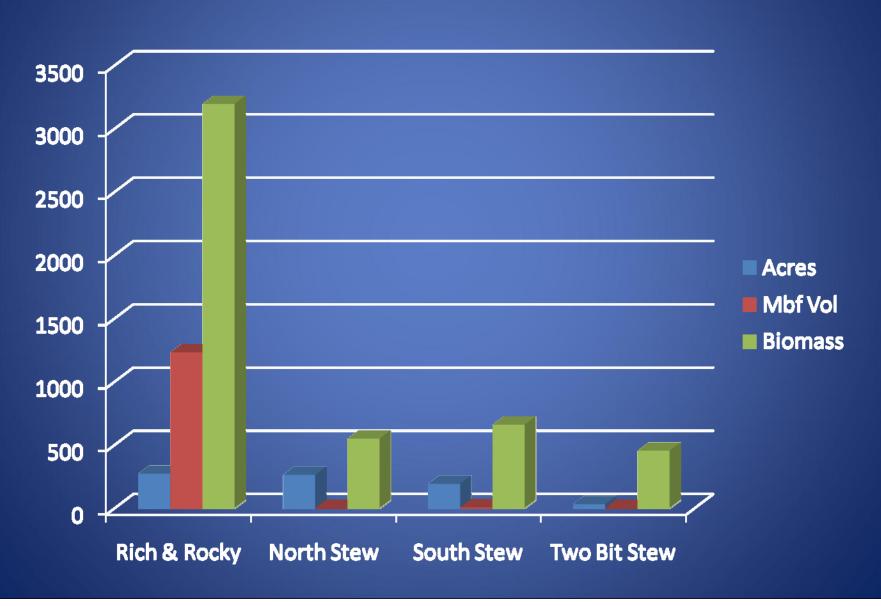
Completed Stewardship Contracts 2003 - 2008



Current Active Contracts

Stew Name	MBF Volume	Poles Linear Feet	Firewood	Biomass (Green Tons)	Acres Completed
Rich & Rocky Grants Pass 7 Task Orders 5 yr Contract	1,230	0	48	4,050	281
North Stew Grants Pass 4 Task Orders 10 yr Contract	0	13,852	134	498	262
South Stew Grants Pass 4 Task Orders 7 yr Contract	4.57	24,296	140	538	191
Two-Bit Stew Grants Pass 3 Task Orders 10 yr contract	<u>0</u> 1,235	<u>6,000</u> 44,148	<u>77</u> 399	<u>453</u> 5,539	<u>30</u> 764

Current Active District Stewardship Contracts



SW Oregon Active Stewardship Contracts

Medford BLM/Rogue River-Siskiyou NF

	BLM	Acres	Mbf Vol	Biomass Grn Tons	USFS	Acres	Mbf Vol	Biomass Grn Tons
Awarded	8	1,605	2,197	5,779	2	1,159	11,154	1,540
Completed	4	635	962	743				
New 2009	6	1,829	2,182	8,435	3	960	4,993	7,044

Roseburg BLM / Umpqua NF

	BLM	Acres	Mbf Vol	Biomass Grn Tons	USFS	Acres	Mbf Vol	Biomass Grn Tons
Awarded					6	1,571	27,963	1,076
Awd/Com	1	70	92		5	856	13,014	7,649
New 2009	0				1	1	373	2,275

ARRA Stimulus Projects Biomass Utilization

- South Stew 1,900 acres 14,000 tons
- Two Bit Stew − 1,900 acres − 14,000 tons
- Ranch Stew 1,300 acres 12,000 tons
- Hope Mountain Stew 890 acres 3,000 tons

Inventory and Potential Future Feedstock Supply

Early Inventory Studies

- 1999 Rogue River Basin (BLM & FS lands)
- 770,000 acres of LSR, Matrix, AMA lands
- Volume < 12" dbh: 6 billion board feet
- About 40% of volume, 2.4 billion board feet is within 1,000 feet of existing roads

Cow Creek CROP

- 2 National Forests
- 8 Ranger Districts
- 4 BLM Districts
- 3 Counties
- State Lands
- Private Lands

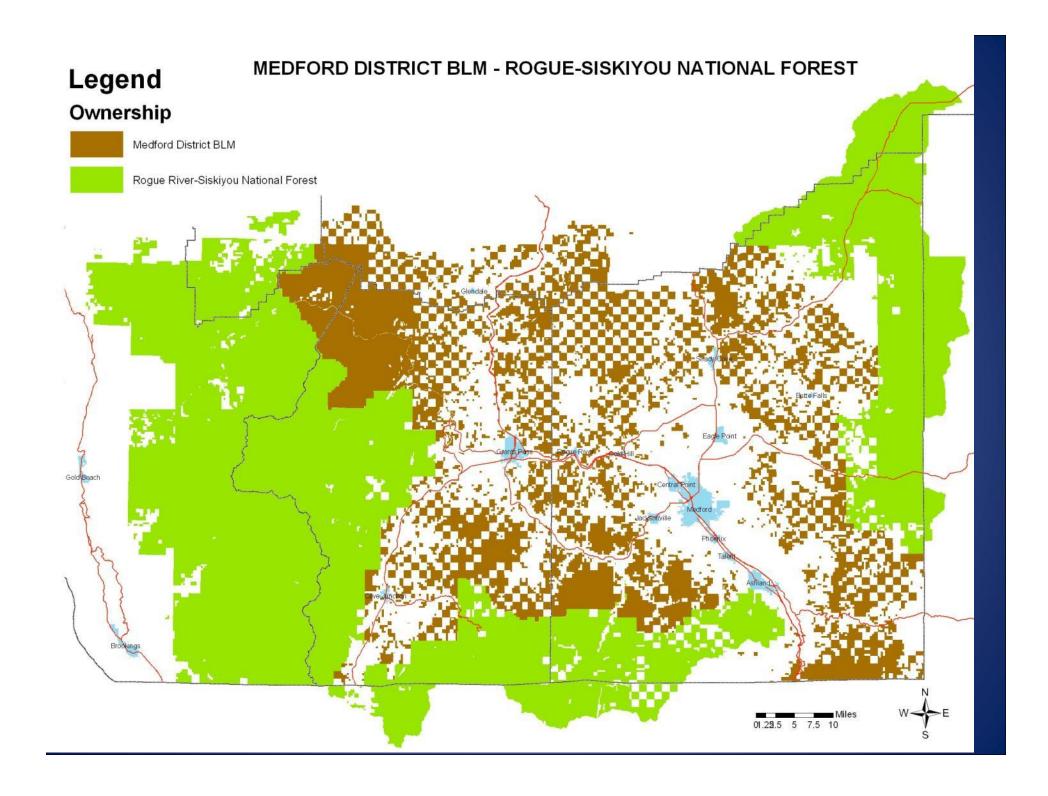


Cow Creek CROP

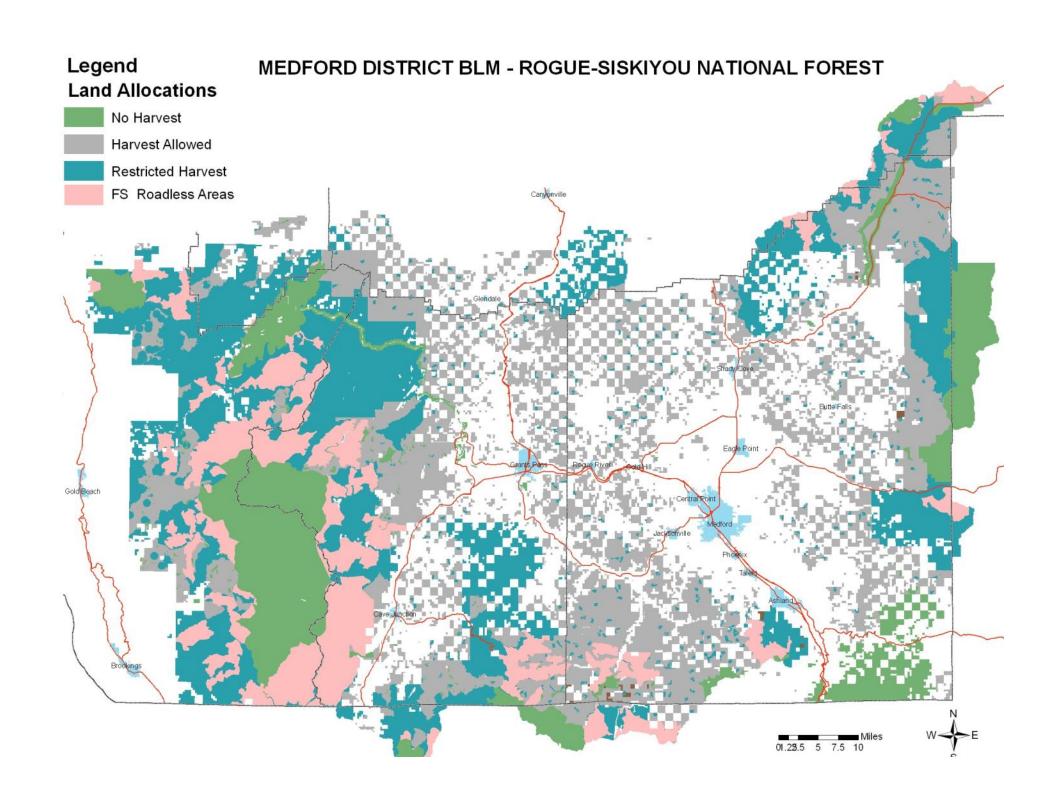
Projected biomass volume of 236,000 gT/yr

76% coming from the Medford BLM

 Volume is more than sufficient to support a 13 MW power plant using 160,000 gT/yr



Land Allocation	Acres
Total Federal Harvestable Acres	2,125,957
(Does not account for riparian)	
After Removing Inventoried Roadless Areas (342,381 Ac)	1,783,576
Within the	
Communities at Risk One Mile Buffer	380,000
Private Lands	3,356,622
Total Analysis Area	5,920,964



	Total Standing Volume	Volume available for removal under 20" using Basal Area Prescriptions
In Harvestable Land Allocations	38,155,326,000	7,016,073,000
Within the CAR Buffer	6,390,751,000	1,428,475,000

