

WOODY BIOMASS UTILIZATION

FROM A LANDOWNER'S PERSPECTIVE

Jeff Bryant

Objective

- ▣ Treat excess sub-merchantable and non-merchantable materials at the lowest cost.

Where do I want to be:

- ▣ Cost of treatment = Value of material removed

Fuel chips of wood-fired power plants

1. Wood fired power plants-existing infrastructure
2. All sub-merch and small merch can be converted to fuel chips

Cost of Treatment

- | | | |
|----|-----------------------|----------|
| 1. | Fall and Bunching | 1/3 cost |
| 2. | Skidding and Chipping | 1/3 cost |
| 3. | Transportation | 1/3 cost |

Felling and Bunching

1. Size and slope of treatment area
2. Size and density of cut trees

Feller Buncher



25/8/2009 11:40pm

Bunches



25/8/2009 11:41pm

Skidding and Chipping

1. Size or material
2. Landing configuration

Chipper



Transportation

1. Distance from power plant
2. Landing and road configuration

Chip Van Trailer at Landing



Value of Material removed

1. Receipts from wood fire power plants
2. Value of any saw logs removed
3. Biomass Crop Assistance Program
4. Cost share programs
5. Selling carbon offset credits