

Under Utilized Species

Biomass workshop
Rochester
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Under Utilized Wood

- **Historical Use**
- Waldorf Paper – St Paul
- Chipping Facility - Kellogg
- Shipped by Rail to Mill in St. Paul
- Environmental Concerns shifted the plant to recycled fiber in the 1970's
- Mill now operated by Rock Tenn Corp.

Under Utilized Species

- **Today's markets**
- Updated technology and process
- Changes in mill ownership
- Changes in the pulping process
- Increased use of bottomland species such as boxelder and elm
- Increased competition for urban wood

Under Utilized Species

- New equipment to harvest efficiently
- Updated sawmill that are more efficient
- More portable mills to process smaller amounts of logs
- Reduced reliance on aspen and spruce at some mills
- Alternative markets for pine and spruce as cabin logs and utility poles



Portable mills go where the logs are.



Under-Utilized Species

- Opportunities for forest management, stand conversion
- Market for current cover type allows less expensive site preparation
- Convert low value and low quality species to higher value type
- Improves habitat and provides a benefit to the energy alternatives



Under Utilized Species

- Stand Conversion: any low value species
- Fit species to the site
- Marketing can offset some site prep costs
- Still need application of herbicide or brush disking
- Neglected space management, fencerow and wildlife habitat improvements



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Under Utilized Species

- Market Development
- Pulpwood – Limited market
- Limited number of operators
- Transportation costs
- Pallet industry
- New technologies: NRRI Birch research
Larex: using tamarack
- Northern industries would use more of our southern wood – transportation issues

There are really no under utilized species in today's market. Nearly everything that we set up for auction is sold.