W B Johnson
Family of Companies

Futurewood Corp

North Shore Forest Products, Inc.

Johnson Timber Corporation

Flambeau River Papers

Flambeau River Biofuels

Renewable Densified Fuel
Flambeau River BioFuels Plant Site – Adjacent to Flambeau River Papers
Specific Gravity in the Main Stem (bole) with Bark

Bulk Densities for Chips made from the Main Stem (Bole), with bark at 10% MC

Business Proprietary
BTU's per LB in the Main Stem (Bole) with Bark, Oven Dry

- balsam
- white pine
- hemlock
- aspen
- black spruce
- white spruce
- basswood
- birch
- tamarack
- white ash
- soft maple
- white ash
- red oak
- aspen
- hemlock
- aspen
- black spruce
- black spruce
- red pine
- white spruce
- white pine
- balsam

BTU's per LB

0 25,000 50,000 75,000 100,000 125,000 150,000

BTU's per Cubic Foot in the Merchantable Stem (Boles), With Bark, Oven Dry

- hard maple
- birch
- white ash
- soft maple
- red oak
- aspen
- black spruce
- basswood
- red pine
- white spruce
- white pine
- balsam

BTU's per Cubic Foot

Business Proprietary
Analysis of the Co-Gen Facility at the Flambeau River Paper Mill

Thermal Efficiency and Moisture Content for Park Falls Cogen Plant

Tons Required to Produce 160,000 lbs of Steam at Different MC's for Park Falls Cogen Plant

Note: units are tons per hour
Resource Utilization for Co-Gen Facilities and Electric Utilities

Thermal Efficiency and Moisture Content for Park Falls Cogen Plant Compared to a Utility

Bone Dry Tons Required to Produce 160,000 lbs of Steam at Different MC's for Park Falls Cogen Plant Compared to a Utility

Note: units are tons per hour
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  Physical Testing          Doug Hanus, John Gephart
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