Minnesota DEPARTMENT OF NATURAL RESOURCES

The Market Place

A Service to Minnesota's Forest Industry

TIMBER PRODUCTS EQUIPMENT SERVICES

Summer 2006

In This Issue:

Page

1) Timber Market Update
Woody Biomass
5) Bioenergy in Europe
7) Educational Opportunities
8) Ad Listings
12) Notice to State Timber Purchasers

Hope you enjoy it!

Keith Jacobson

Timber Market Update

Very briefly: Average stumpage price for aspen pulpwood on DNR timber sales have softened in 2006. For the period January 1 through June 30, 2006, aspen pulpwood stumpage price was $53.50/ cord*. By comparison, the average aspen pulpwood stumpage price on DNR sales for July 1, 2004 through June 30, 2005 was $62.54/ cord*.

Wood yards at most of Minnesota's large pulp and paper and engineered wood mills continue to be very full, removing any upward pressure on stumpage prices. Underlying demand for most forest products is still reasonably good, but not as good as over the past several years. A major factor is the slowing demand for housing. * *Readers should use caution when comparing prices shown with actual prices for any specific timber sale. Individual sale prices will vary considerably due to physical and market conditions.*

Woody Biomass in Minnesota

Impacts to Forestry

Seems like everyone in forestry is talking about "biomass" these days. What is woody biomass, and how might developing markets and greater use of this resource impact the environment and economy in Minnesota?

Woody biomass includes entire living and dead trees and shrubs in a forest, including logs and residue material generated throughout various forest product processing steps. We will be referring mainly to the parts of the woody biomass resource without traditional forest product markets such as tops and limbs, small diameter timber, some forms of wood manufacturing residue, and brush.

The prospect of expanded woody biomass harvest and processing has many potential upsides, including reduced dependence on foreign energy sources, improved bottom lines for logging and processing operations, and increased opportunities for forestry and wildlife management.

However, as with almost any opportunity, there are potential pitfalls to be avoided. Some of these include: impacts to raw material supply for

Continued on Page 2

MarketPlace Bulletin

The MarketPlace Bulletin is published four times annually by the Minnesota DNR Wood Products Utilization & Marketing staff and is distributed free of charge. It serves the wood industry of the state by providing relevant information on forest industry and forest resources, and by listing forest product and related items wanted, for sale, equipment for sale or wanted, services provided and employment opportunities. The Bulletin has a mailing list of over 3,000, and is also available on the internet at: http://www.dnr.state.mn.us/publications/forestry/marketplace/index.html.

Persons can begin receiving the bulletin, or cancel a current subscription, by making a request by phone at: (651) 259-5270 or by email: keith.jacobson@dnr.state.mn.us.

Biomass…..Continued from Page 1

existing forest industry, nutrient depletion on sensitive sites, and negative habitat consequences. Every one of the potential downsides can be managed, but doing so will require thoughtful guidance as woody biomass markets expand.

SOURCES OF WOODY BIOMASS

Sources of woody biomass include:

• Logging residue. Logging residue is the largest potential woody biomass resource that is largely "untapped" at present. The untapped nature of this resource is rapidly changing as markets develop. How much logging residue might be available? A study by Bill Berguson of NRRI indicated that within 75 miles of Hibbing/Virginia, over 500,000 green tons of logging residue biomass could be available annually. A recent cooperative study by DNR and the University of Minnesota (funded by Department Of Energy) provides information for making estimates of logging residue volumes in the entire state. The report will be available on the DNR website soon. Additionally, Tom Burke of the University of Minnesota is working on a separate procedure to provide estimates of logging residue availability, using information from the aforementioned study tied to Forest Inventory Analysis data.

• "Primary" mill residue from sawmills, etc. Much of this resource is already utilized for various products, including energy, animal bedding, and forest products such as pulp & paper. Any new markets would need to pay more than current uses in order to compete for this resource.

• "Secondary" mill residue from cabinet manufacturers, etc. Much of this resource is already utilized as well. Residue from secondary wood product manufacturers differs from that produced by primary mills in several ways that impact its utility for biomass markets. The waste stream from secondary manufacturers is much more diverse, and often includes not only clean wood, but also materials with resins and finishes that can cause air quality concerns if burned. On the positive side, the residue material is normally much drier than that produced by primary mills, so the BTU content is higher (for secondary waste suitable for burning).

• Dedicated energy crops. Very small acreages of Short Rotation Woody Crops (SRWC) are currently being grown specifically for energy in Minnesota. Most SRWC in Minnesota is hybrid poplar, most of which will go to the highest value markets such as pulp & paper and OSB. Even if the main stems go to other markets however, the top and limb portion of the harvested trees could fit biomass energy markets.

• Land clearing projects. There is a significant resource from powerline clearing and road projects. Past practice has been to dispose of this material on-site through open burning, or sometimes chipping and spreading the material.

• Brush from brushlands. The use of brush from brushlands for energy markets is being rigorously examined by the Laurentian Energy Authority (LEA) in Virginia and Hibbing. There are excellent wildlife habitat benefits from greater management of brushlands.

• Precommercial thinning and timber stand improvement (TSI). A resource of currently unmerchantable woody material is produced during forest management activities.

MARKETS FOR WOODY BIOMASS

Two main factors keep small-diameter timber, tops and limbs and brush from being used for most traditional forest products:

1) The high percentage of bark relative to wood fiber.   Bark fiber is not suitable for many products.

2) The high cost of processing smaller diameter material. Processing efficiency is greater for larger material.

Woody biomass is a good fit for a number of products and markets, however. Existing markets for woody biomass in Minnesota include:

Engineered Wood. The Georgia Pacific hardboard mill in Duluth and the International Bildrite insulite mill in International Falls are the two engineered wood product mills in Minnesota that take bark-on chips.

Special Forest Products (SFP). Markets include log furniture, craftwood, etc. These tend to be small volume, but high value markets. DNR and University of Minnesota Extension, in cooperation with the U.S. Forest Service's State & Private Forestry division have produced a directory of some harvesters and buyers of SFP, which is available online on the DNR Utilization & Marketing (U&M) web page. http://www.dnr.state.mn.us/forestry/um/index.html

Landscape Mulch. Currently most landscape mulch is made from urban wood residue and wood manufacturing residue. The markets are limited in rural Minnesota, but are significant near metropolitan areas. A number of companies produce landscape mulch. Several of these are listed in the DNR's online wood industry directories, also available online on the DNR U&M web page.

Animal Bedding. The dairy and poultry industries use significant amounts of sawdust and shavings as bedding. This is typically produced from wood manufacturing residue, or else by shavings or pellet mills (from roundwood). Animal bedding markets are limited in some of the highly forested regions of Minnesota due to most of the poultry and dairy industry being located in the central and southern portions of the state.

Energy. Energy is a significant market for biomass in Minnesota, and is becoming larger as you read this. Energy from biomass is not new for our state, especially in the wood manufacturing industry. Many large and small primary wood manufacturers have produced heat, and in some cases power, for their own facilities by utilizing residue from their own and other mill's manufacturing processes for many years. So why all the additional interest now?

There are several reasons for the current high interest in energy production from woody biomass, including:

- Rising fossil fuel energy prices
- Uncertainty over the supply of fossil fuels from unstable regions of the world
- National security and economic benefits derived from renewable, locally-sourced energy production
- The legislative mandate to EXCEL energy to produce part of their energy from renewable biomass
- Energy production efficiency improvements
- Residue processing technology improvements make logging residue a potentially more attractive fuel.

Virtually every large pulpwood-using mill in the state produces heat and steam, and in some cases electricity, for their own use by burning wood residues produced during their own processing. Many smaller wood manufaturers do the same. Additionally, there are some larger commercial energy markets that purchase wood residues from others. Following is a very short list of some larger commercial woody biomass energy markets in Minnesota that use wood residues obtained through open market procurement. The list is not exhaustive, but gives some of the larger users that we are aware of:

- St. Paul District Energy, St. Paul
- Minnesota Power, Grand Rapids and Duluth
- Laurentian Energy, Hibbing and Virginia (Startup scheduled for December 2006)
- Hill Wood Products, Cook (processed for use in taconite kilns)
- SAPPI, Cloquet
- Central Minnesota Ethanol, Little Falls

- Xcel Energy, LaCrosse, WI
- Len Busch Roses, Plymouth

WHY IS GREATER USE OF WOODY BIOMASS IMPORTANT TO FORESTRY?

Greater use of woody biomass has significant implications for forestry and wildlife management. Specifically, greater use of biomass will result in:

- Opportunities for improved forestry and wildlife management.
- Increased business opportunities in rural communities
- Concern over maintenance of soil productivity, wildlife habitat, and riparian area function.

Opportunities for improved forestry and wildlife management.

Greater markets for woody biomass will result in potential for improved management on some sites. Specifically, forested sites where regeneration, aesthetics, and forest health can be improved by removal of a greater portion of tops and limbs than is current practice will benefit. One simple example would be opportunity for greater use of tops and limbs in pine thinnings that will help control potential bark beetle outbreaks. There are many other examples, including the opportunity to reduce dangerous wildfire hazards due to fuel buildup. There is also opportunity for greater management of brushlands, with significant wildlife habitat and forestry benefits.

Business opportunities in rural communities and improved bottom lines for logging and trucking companies.

The addition of another product has the potential to help logging companies' bottom lines.

Procurement Companies. Several companies have positioned themselves to process tops and limbs on a landing after a sale and transport the chips to market. They plan to work with many logging companies. Therefore not every logging company will need to purchase chipping and grinding equipment in order to participate in biomass markets.

Integrated Logging Operations. Some logging companies have purchased, or will purchase, their own chipping or grinding equipment in order to process tops & limbs from their own sales.

Maintenance of soil productivity, some forms of wildlife habitat, and riparian area function.

Forest management policy related to maintenance of soil productivity, wildlife habitat, and riparian area function is outlined in the Minnesota Forest Resources Council's (MFRC) Forest Management Guidelines.

New MFRC forest management guidelines to direct the harvest of tops and limbs and brush from brushlands are being developed by a committee led by Dick Rossman of DNR. The new guidelines are scheduled for completion by July 2007. In the meantime, current guidelines relevant to woody biomass harvest include those that deal with three issues: ***1) wildlife habitat, 2) maintaining soil productivity, and 3) riparian areas.***

1) Wildlife habitat:

Guidelines require retention of some down woody debris, snags and leave trees

2) Maintenance of soil productivity:

Guidelines suggest that three types of sites are of greatest concern for removal of tops and logging residue: aspen and other hardwoods on very sandy, or very shallow, soils, and organic peatland soils.

3) Riparian areas:

Guidelines recommend retaining significant amounts of live vegetative cover.

These are very brief guideline summaries. Managers need to review actual guidelines in order to see the *full text, rationale and context.*

ADDITIONAL CONSIDERATIONS

• Greater use of woody biomass is an emerging issue. It will take some time to sort out both the natural resource management side and the market side. Natural resource management considerations, gathering and processing equipment and systems, and markets, will evolve over time.

•Energy markets are highly dependent on the price consumers are able to pay versus alternate fuels. If fossil fuel prices go down significantly for a long period as they did in the 1980s, woody biomass will not be an economically viable option in many cases. I have yet to see an energy analyst who thinks that this is likely to happen, however.

•Distance to markets is critical, especially since energy markets often have historically had a pretty limited procurement range. There are exceptions to this, however, especially when the alternative to biomass is a higher price fuel like natural gas. In general, though, impacts will be greater the nearer one gets to a biomass market.

WHAT IS THE FUTURE FOR WOODY BIOMASS?

• It is very likely that greater use of woody biomass is with us to stay. If fossil fuel prices continue to rise, biomass energy markets will continue to expand.

•Newly developed products or manufacturing processes may play a key role. Higher value products may drive even greater utilization in time.

Bioenergy Here and There - A Comparison Between Europe and North America

By: Gregory Russell, CF, Minnesota DNR Utilization and Marketing, and RC&D Forester

In May 2006, Kandiyohi County, and the City of Willmar Economic Development Commission hosted a small delegation from Sweden, a world leader in the use of bioenergy. I was one of 15 participants in the discussion focused on uses of biofuels in Europe, predicted shortages there, and potential for Minnesota businesses to fill some of that resource gap.

Bioenergy in Sweden. Bengt Erik Lofgren, President of AFAB, a bioenergy company in Sweden, reviewed the history of bioenergy use in Sweden. Sweden currently derives 25 percent of its energy from renewable sources, ten percent of which is biomass energy used in heating and electricity generation; fully 90 percent of the fuel used in Sweden's "District Energy Plants" is biomass. The most common forms of biofuel used are wood pellets, and farm crops and residue (oats, corn, etc.). Sweden is a world leader in the use of bioenergy, using 1.5 million tons of wood pellets per year, 1.1 million tons of which they produce domestically. The balance is currently imported from British Columbia, Canada. Sweden and Finland have an interest in producing pellets made from a combination of wood and peat, which may give better heat returns than straight wood or peat pellets alone.

Biogas Fuels. Per Wennerberg, representing EcoEx, a Western Sweden exporter, discussed Sweden's burgeoning biogas use. Sweden is a European leader in biogas production and use, trailing only Germany. The use of biofuels in transportation in Sweden has increased from 9 percent to 18 percent and this trend is expected to continue. Sweden uses most of its biogas for

Continued on Page 6

Europe…..Continued from Page 5

transportation, while Germany's use is for electricity and heat. Sweden is using methane digesters to turn wood and farm crops into methane, and is also producing ethanol. For Sweden, methane production has a better energy balance than ethanol. Sweden has developed a distribution system that includes filling stations pumping biogas and ethanol for use in automobiles.

Swedish automakers are producing "flex fuel" car engines using biogas that get better power and mileage than traditional gasoline-powered engines. As of March, SAAB and Volvo are producing 50 percent flex fuel vehicles, up from 10 percent in 2005 and 2.4 percent in 2004. Most communities in western Sweden now have biogas readily available at filling stations. According to Wennerberg, "you can actually drive with biogas in a large part of Sweden".

Global competition for biomass fuel resources is increasing. Germany, Italy, Great Britain and Japan are all expected to increase their use of wood pellets over the next few years. Germany and Italy combined use 80,000 tons per year, and will increase to 300,000 tons next year. It is expected that Britain will be using 3 million tons per year by 2015. Japan is expected to go from presently using 200,000 tons to 1 million tons per year within the next year or so. Europe is anticipating a shortage in excess of 200,000 tons of pellets in 2007, unless new supplies can be found.

North America's Role in the Global Market. North America currently has more than 60 pellet mills producing just over 680,000 tons of fuel quality wood pellets per year, 95 percent of which are premium grade pellets containing less than one percent ash. Could North America, and specifically Minnesota, position itself as a supplier of wood fuel pellets to a growing world market? The short answer is, "Yes".

Current Demand. Currently there is a growing demand in Minnesota for wood residue for use in composite building materials, biopower, heat, animal bedding, and landscape mulches. However, a number of factors indicate potential for expanded utilization of wood for energy. There is interest in using logging residues, "brush" from wildlife habitat clearing projects, and wood biomass from plantations. Minnesota also has a large, mostly untapped, peat resource that could potentially be incorporated into the fuel pellet production.

Changes to Minnesota's Biomass Infrastructure. A Minnesota company currently producing alfalfa pellets for livestock feed is again exploring the potential for producing pellets for fuel, having tried unsuccessfully to identify markets for these in the past. Another new Minnesota business will produce a line of stoves that can burn a wide variety of blended biomass pellets. Minnesota facilities under construction and in the design phase, will soon be gasifying wood and other biomass. According to the Minnesota State Energy Office, 30 facilities currently generate biogas, and another nine facilities are in the planning stage. Research is being conducted in Grand Forks and at the University of Minnesota at Morris on gasification of wood and crop residues. Minnesota wood industries have also indicated interest in biorefineries[1].

Prognosis. It appears that Sweden has technology to share, and Minnesota has a resource to market. The opportunities for partnering look good. The Swedish-American Entrepreneurial Days Convention in Lidkoping Sweden on August 21 – 23, 2006, and a follow-up conference on August 24 highlighting bioenergy might be a good opportunity to learn more. If you would like to learn more about these events, go to: http://www.sacc-uas.org/lidkoping2006/ or call me, Greg Russell, at 320-231-0008 extension 139.

[1] Biorefinery: A processing and conversion facility that (1) efficiently separates its biomass raw material into individual components and (2) converts these components into marketplace products, including biofuels, biopower, and conventional and new bioproducts.

Educational Opportunities

Building the Capacity of Minnesota's Wood Products Manufacturing Industry: Harnessing Innovation

Our friends at the Blandin Foundation have been chief sponsors of several outstanding conferences for secondary wood product manufacturers over the past several years. I highly recommend this year's conference. The networking opportunities and conference information promise to be outstanding:

On August 16-17 Blandin Foundation's Vital Forests/Vital Communities Initiative is convening a conference, Building the Capacity of Minnesota's Wood Products Manufacturing Industry: Harnessing Innovation, at The Lodge at Giants Ridge in Biwabik, Minnesota. Participants will explore how to harness Minnesota's unique forest resources, cutting-edge design and innovations to open access to new and expanded markets. For more information, call Mary at 218.327.8738 or visit: http://www.blandinfoundation.org/html/public_vfvc%20_cconf_06.cfm.

Kiln Drying Short Course

The 29th Annual Kiln Drying Short Course will be held August 14-17, 2006 at the U of M Saint Paul campus. The course is designed to provide basic training for dry kiln operators and supervisors, but anyone interested in learning more about lumber drying, kiln construction, kiln operation and wood-moisture relationships is welcome and encouraged to attend.

Instruction will include lectures, demonstrations, and "hands on" kiln drying experience. Conventional kiln drying of hardwood lumber will be emphasized; however, dehumidification drying, solar drying, and air drying will also be covered.
For more information, go to: http://www.cnr.umn.edu/bp/extension/shortcourses/kdsc.php
or contact Harlan Petersen at (612)624-3407, or e-mail harlan@umn.edu

Utilization & Marketing Staff: All staff other than Keith Jacobson are part-time on U&M.

Keith Jacobson, U&M Program Leader, St. Paul, 651-296-6491 Email: keith.jacobson@dnr.state.mn.us

Rick Dahlman, U&M Staff, St. Paul, 651-296-6502 Email: rick.dahlman@dnr.state.mn.us

Jeff Edmonds, Northwest Region U&M Staff, Bemidji, 218-755-2894 Email: jeff.edmonds@dnr.state.mn.us

Doug Tillma, Northeast Region U&M Staff, Grand Rapids, 218-327-4108 Email: doug.tillma@dnr.state.mn.us

Lynn Mizner, Northeast Region U&M Staff, Aitkin, 218-927-7511 Email: lynn.mizner@dnr.state.mn.us

Jean Mouelle, Central Region U&M Staff, Warner Road, St. Paul, 651-772-7567, Email: jean.mouelle@dnr.state.mn.us

Lance Sorensen, Southern Region U&M Staff, Lake City, 651-345-3216 Email: lance.sorensen@dnr.state.mn.us

Greg Russell, RC&D Forestry Coordinator, Willmar; Phone: 320-231-0008; Email: greg.russell@dnr.state.mn.us

FOR SALE: FOREST PRODUCTS AND EQUIPMENT

Forest Products For Sale

FOR SALE (1) Dowels, rods, poles, ¾”-2 1/2” diameter. Lengths up to 16’ long w/no splicing. (2) Factory cart truck stakes & replacement parts. (3) Wheelbarrow handles, core plugs, re-winding plugs, plywood shipping circles, pry bars, lifting sticks, paddles, many types of plugs, cutting sticks, many types of custom made wood products. Contact: Mark Slade, Mark Slade Mfg, 110 S Mill St, Seymour, WI 54165-1250; Phone: (920) 833-6557; E-mail: drhandles@new.rr.com.

FOR SALE (1) OSB A-grade, utility, shop & reject, cut to your size or full sheets 4’x8’ up to 8’x24’. (2) Softwood plywood CDX, BC’s, mill cert, shop and reject. (3) Heat treated (HT) lumber items, #3 & economy & precut (4) SPF pallet parts. Contact: Kris Breuing, Viking Forest Products, 7615 Smetana Lane, Eden Prairie, MN 55344; Phone: (800) 733-3801; Fax: (952) 941-6512; Email: vfposb@yahoo.com.

FOR SALE Northern white cedar products: (1) Log furniture material. (2) Round & sawn log home timbers. (3) Lumber. (4) Fence posts. Contact: Richard Hufnagle, Page & Hill Forest Products, Inc, 7556 County Rd 31, Big Falls, MN 56627; Phone: (218) 276-2251; Fax: (218) 276-2352; Email: pagehill@citlink.net.

FOR SALE Small quantities for the crafter: Ash, birch, basswood, butternut, hard maple, red oak, white oak, poplar, spruce, red pine & white pine. Contact: Jim Mielke, Mielke Mill & Crafts, 37885 Park Trail, Center City, MN 55012; Phone; (651) 583-2813; E-mail: jlmiel@ties2.net.

FOR SALE (1) Northern white cedar house logs, various sizes, (2) White cedar posts. All winter cut and seasoned, hand felled. Contact: Jim Parson, Jim Parson Logging, Box 412, Big Falls, MN 56627; Phone: (218) 244-9372; Email: Jparson@citlink.net.

FOR SALE Oak stumpage from an 11 acre site. White oak trees up to 3’ in diameter. Contact: Gary Mason, GJ Ranch, 3222 420th St, Fertile, MN 56540; Phone: (218) 280-3524.

Equipment For Sale

FOR SALE Older Tandem-axle short wood skidder; Contact: Lillian Polo, 275 Hwy 73, Wright, MN 55798; Phone: (218) 644-3521.

FOR SALE (1) Three Bell 4a dowel machines w/extra blades & setups to 2 1/2” diameter. (2) Large table saw, 30 blades, most are carbide tipped, 12”-16” diameter. Contact: Mark Slade, Mark Slade Mfg, 110 S Mill St, Seymour, WI 54165-1250. Phone: (920) 833-6557; E-mail: drhandles@new.rr.com.

FOR SALE (1) Hydraulic sawmill carriages: Mudata set-works, Tower dogs, cant turndowns. (2) Jackson Scragg mill. Contact: Jackson Lumber Harvester Co, Inc, 830 N State Rd 37, Mondovi, WI 54755; Phone: (715) 926-3816; Fax: (715) 926-4545;Web: www.jacksonlbrharvester.com.

FOR SALE Cab, blade cylinder and hydraulic tank for 1979 C5D. Contact: Rod Ustipak, 14969 Lyndale Lane, Brainerd, MN 56425; Phone: (218) 839-5711; Email: rodustipak@charter.net.

FOR SALE (1) 1993 Timbco 435 22” Quadco saw w/lateral tilt, 28” S/B, new U/C. (2) 1988 TJ 380 B dual function arch, 5,000 hrs on new engine 24.5s, w/chains, set of 4, 67x34x26. (3) 2002 Hoad 1200 self- propelled loader, 6x6 60” direct drive slasher saw. (4) 1994 Peterbilt 357 log truck, N14 13 spd 20/46 w/2000 Hood 7000 self-loader and tree length pole trailer. Contact: Todd Wass, 58804 State Hwy 6, Bigfork, MN 56628; Phone: (218) 743-3630 or (218) 244-2348.

FOR SALE 1909 pat. American 4 x planer, 6”x16” belt or PTO, $1700. Contact: Joe Neubauer, MN Hardwood Supply, 21482 Rice Rd, Hinckley, MN 55037; Phone: (320) 629-1080.

FOR SALE (1) Dixon sawmills, conveyors, log turners, hydra-dogs, pallet notchers, de-barkers, slab edgers, trim saws, decks, roll cases, small hydraulic loaders & trailers, trailers w/loaders for 4 wheelers. (2) Cornell blowers, edgers, trimmers, notchers, slab saws, log cleaners, un-scrambler. (3) Valby wood chippers. (4) Farmi – skidding winches. (5) Hitachi power tools & chains. (6) Patz conveyors & belts. (7) Lacey Harmer laser lights. (8) Danco rip saws. (9) Webster vibrating conveyors. (8) Safe-T-Shelters & storm shelters. (10) Used electric motors & electrical equipment, used sawmill machinery & bark processing equipment. (11) Dixon line of sawmill & logging equipment. (12) Circular sawmills & edgers, both stationary & portable. (14) Log turners, belt & chain conveyors, roll cases, log turners, hydra-dogs, pallet notchers, slab edgers, de-barkers, multiple saw trimmers, (15) Custom built decks, small & medium size hydraulic loaders & trailers. Contact: Dixon-Rusch Co, 400 Rusch Rd, Antigo, WI 54409; Phone: (715) 627-4361; Fax: (715) 627-4375.

FOR SALE 1999 Valmet 646 forwarder, 11,000 hrs, $80,000. Contact: Clay Klasen, K Company Logging, Inc, 6308 E Rockdale Rd, South Range, WI 54874. Phone: (715) 399-8835 or (218) 348-3195; Fax: (715) 399-0835.

FOR SALE Trail King equipment trailer, 21,000 lbs. W/pindle hitch, $1,900. Contact: Jim Parson, Jim Parson Logging, Box 412, Big Falls, MN 56627; Phone: (218) 244-9372; Email: address; jparson@citlink.net.

FOR SALE Cable Skidders: (1) 1991 JD 640E, new tires, $35,000. (2) 1969 TF C4, P.O.R. (3) TJ 350, P.O.R. Grapple Skidders: (4) 1996 JF 648G, $29,500. (5) 2001 JD 648GIII, single function, new 28.1x26 tires, $96,000. (6) 2001 FD 648GIII, dual function, $102,000. (7) 1980 TF C6, w/23.1x26 tires, $9,000. Crawlers: (8) 1997 D5MLGP, P.O.R. (9) 1977 D6D LGP, $27,000. (10) 1987 D4H LGP, 6 way blade, enc cab, $27,000. (11) 1998 Barko 160D, 6 cyl Cummins, mounted on trailer, $44,000. (12) 1987 Prentice 210C, 6 cyl JD slasher pkg, $27,000. Excavators: (13) 1990 JD 490D, $24,000. (14) 1990 JD 590D, hyd/thumb, P.O.R. (15) 1996 Yammer B6U mini excavator, $13,700. Wheel Loaders: (16) JD 410 backhoe, cab, $13,000. (17) 410B JD rubber tired 4x4, cab, P.O.R. (18) 1981 JD 644C, $25,000. Trucks: (19) 1978 GMC 2 ton w/hydr hoist, flatbed dump, $4,500. Delimbers: (20) Siiro delimber/slasher, $7,000. Feller Bunchers & Shears: (21) 775A Barko, P.O.R. (22) 1979 Drott 40, shearhead, $17,000. (23) 1995 Timbco T425B, $85,000. (24) 2004 570 Hydro-Ax, 1800 hrs. 22” sawhead, $123,000. (25) 2004 643H JD, 2100 hrs., warranty, $135,000. (26) 1984 411B Hydro-Ax, $15,000. (27) 1994 511E Hydro-Ax 20” Kochring, $57,000. (28) 1997 720 Tigercat, $55,000. (29) 1976 JD 544B, $17,000. (30) 1976 JD 544B, 20” shear, $21,000. (31) 1993 Risely Black Magic w/Risley sawhead, $65,000. Miscellaneous: (46) 1988 534 Grandall, 8000# lift, $24,000. (32) 1991 853 Bobcat, w/forks & broom, $8,500. (33) 60” Slasher w/power unit, $14,500. (34) 60” Siiro slasher, $8,500. (35) 60” Lemco slasher, $8,000. (36) 20” Koehring sawhead to fit 643 JD, $9,000. (37) New 60” & 72” Hanfab slashers, P.O.R. (38) Gafner iron mule pre-hauler, $12,000. Contact: Northern Timberline

Equipment, Inc, 6000 County Rd 8, Littlefork, MN 56653; Phone: (218) 278-6203; Fax: (218) 278-6716; Email: ntel@frontiernet.net.

For Sale — Small scale logging & forest equipment. Log trailers, log loaders, brush and small tree chippers, 3 point tractor skidding winches. Contact: Dave Grinnell, Arrowhead Wood & Forest Services, 1592 Olsonville Rd, Carlton, MN 55718; Phone: (218) 384-3325; Fax: (218) 384-3325.

WANTED: FOREST PRODUCTS AND EQUIPMENT

Equipment Wanted

Wanted — Pettibone Super 15 rims & parts. Contact: Don LaTourelle, Cass Forest Products, Cass Lake, MN; Phone: (218) 335-2694; Emai: cass@paulbunyan.net.

Wanted — Used 18.4x34 skidder tires. Tread not important (must hold air). Will be used in yard operations. Contact: Bob Martin, Lake Superior Timber Farming, PO Box 117, Hovland, MN 55606; Phone: (218) 475-2274.

Wanted — 16.9x30 skidder tire & 8 hole rim to fit older TF/TJ w/Rockwell axles. Contact: Rod Ustipak, 14969 Lyndale Lane, Brainerd, MN 56425; Phone: (218) 839-5711; Email: rodustlpak@charter.net.

Forest Products Wanted

WANTED — (1) Fresh cut red & white pine logs up to 20’. (2) Fresh cut jack pine, red & white pine bolts. Call for specs. Contact: Jay Dauner, Cass Forest Products; Phone: (218) 335-2694; Email: cass@paulbunyan.net.

WANTED — Northern white cedar for producing mulch. Can use slabs, trim ends, tops or logs. Contact: Larry Doose, Sylva Corporation, Inc, PO Box 219, Princeton, MN 55371; Phone: (763) 389-2748; Fax: (763) 389-9378; Email: ladoose@yahoo.com.

WANTED — (1) Premium white birch, white hard maple, white soft-maple, 3-6 M ft/order, kiln dried & delivered. (2) 80/90 sort red cherry, kiln dried & delivered. Contact: Glacial Wood Products, Inc, 530 First Street, Brooten, MN 56316; Phone: (320) 346-9663; Fax: (320) 346-2099; Email; glacialwood@tds.net.

SERVICES AND MISCELLANEOUS

Services and Miscellaneous

Services — Custom drying, dehumidification kiln – 600 bd. ft capacity. Contact: Jim Mielke, Mielke’s Mill & Crafts, 37885 Park Trail, Center City, MN 55012; Phone: (651) 583-2813; Email jlmiel@ties2.net.

Services — (1) Stock and sell all steel and ply banding tools. (2) Repairs of all strapping tools. Contact: Mike Bonde, Industrial Fairway Supply, 1006 38th St NW, Fargo, ND 58102; Phone: (800) 347-0061; Fax: (877) 347-0065; Email: mbonde@industrialfairwaysupply.com.

If you wish to list an ad in the fall issue of the Market Place bulletin, please fill out and return this form by September 30, 2006. There is no cost for placing the ad.

Forest Products:	☐ Wanted	☐ For Sale			
Equipment:	☐ Wanted	☐ For Sale			
Services/ Misc.:	☐ Wanted	☐ For Sale	☐ Available	☐ Services	☐ Notice

(Examples of items to be listed include stumpage; lumber; logging; sawmill and woodworking equipment; sawing, drying, or marketing services; employment; or other forestry-related items)

____

____

____

____

____

____

____

____

____

____

____

____

____

____

Name: ______________________________ Company: ______________________________

Address: ____________________________ City, State, Zip:___________________________

Phone: ______________________________ Fax: __________________________________

E-mail Address: ____

Please Note: Due to limited space not all ads will be printed in every issue. Please limit your ads to one page or less. <u>Ads will not carried-over from one issue to the next, please resubmit them once for each issue.</u>

Mail Ads To:	DNR Forestry Keith Jacobson, Utilization & Marketing Forester 500 Lafayette Rd St Paul, MN 55155-4044
Phone/Fax:	Phone (651) 259-5270; Fax: (651) 296-5954
E-Mail:	keith.jacobson@dnr.state.mn.us

The Minnesota Department of Natural Resources reserves the right to edit all items included and accepts no responsibility for the accuracy of description or for the commercial integrity of the persons or firms making offers in this Bulletin.

Notice To Purchasers of State Timber

The Division of Forestry is instituting a requirement for timber purchasers to register before purchase of any state timber sales. The new policy will go into effect on January 1, 2007. The registration system accomplishes several objectives. First, it will enable us to better differentiate between individual loggers, partnerships and corporations and prevent account misidentification. Second, the Dept of Revenue, Debt Collection Division is requiring us to provide this additional information for their debt collection process. Finally, it will enable us to ensure timber auctions are conducted with "responsible bidders" and authorized company personnel as provided in Minnesota Statute.

Registration may be done as an individual or business, but a separate registration form must be submitted for each name under which a State timber permit will be purchased. Each business name should be registered with the MN Secretary of State and have a tax id number. There is no fee for registration. Registration forms can be obtained by contacting your local forestry office, and will also be available soon on the DNR website.

DNR Forestry Timber Auction Sales

Date	Auction Type	Sale Name	Location
Sep 07	Regular	Camp Ripley – Little Falls Area	Range Control Building
Sep 15	Regular	Bemidji Area – Sealed Bid	Bemidji Area DNR Forestry Office
Sep 19	Intermediate	Park Rapids/Detroit Lakes Area	Park Rapids Environmental Ed Building
Sep 19	Regular	Park Rapids Area	Park Rapids Environmental Ed Building
Sep 21	Regular	Little Falls Area	Onamia Forestry Office
Sep 21	Intermediate	Little Falls Area	Onamia Forestry Office
Nov 28	Regular	Cambridge Area	Cambridge Area DNR Office
Nov 28	Regular	Blackduck Area	Blackduck Senior Center
Nov 28	Intermediate	Blackduck Area	Blackduck Senior Center
Nov 29	Intermediate	Littlefork Area	Littlefork Community Building
Nov 29	Regular	Littlefork Area	Littlefork Community Building
Nov 30	Regular	Goodhue and Wabasha Counties	Lake City Area DNR Forestry Office
Nov 30	Regular	Two Harbors Area	Silver Bay Reunion Hall
Nov 30	Intermediate	Two Harbors Area	Silver Bay Reunion Hall

The Market Place
DNR Forestry
500 Lafayette Rd
St. Paul, MN 55155-4044
Website: http://www.dnr.state.mn.us/publications/forestry/marketplace/index.html

PRSRT. STD.
US POSTAGE PAID
ST PAUL, MN
PERMIT NO. 171

Change Service Requested