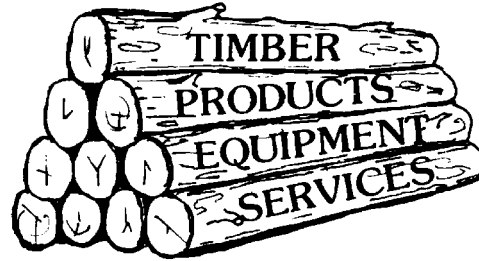




# The Market Place

A Service to  
Minnesota's  
Forest Industry



Spring 2006

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- Hope you enjoy it!

*Keith Jacobson*

## 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](mailto:keith.jacobson@dnr.state.mn.us).

## 2005 Minnesota Public Stumpage Price Review

Lillian Baker and Doug Ford of our Timber Sales Program have assembled the 2005 Public Stumpage Price Review. It is included along with historical information back to 1997 in the following tables. Thanks to Lillian and Doug and all public agency forestry folks who responded to the survey!!

Pulpwood (\$'s per cord)\*

| Species    | 1997  | 1998  | 1999  | 2000  | 2001  | 2002  | 2003  | 2004  | 2005  |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Aspen      | 19.20 | 20.54 | 23.40 | 25.28 | 28.76 | 27.36 | 28.95 | 37.20 | 59.70 |
| Balm       | 13.76 | 16.95 | 14.13 | 25.27 | 32.06 | 27.53 | 25.12 | 31.71 | 45.25 |
| Birch      | 7.88  | 7.53  | 7.66  | 7.69  | 8.31  | 8.16  | 9.04  | 12.21 | 20.57 |
| Ash        | 4.46  | 5.51  | 2.28  | 4.09  | 3.91  | 5.86  | 3.62  | 5.51  | 5.43  |
| Oak        | 5.64  | 8.98  | 10.76 | 9.27  | 7.74  | 5.77  | 4.35  | 8.28  | 16.28 |
| Basswood   | 4.27  | 4.88  | 5.67  | 5.68  | 5.48  | 6.51  | 6.05  | 6.58  | 10.64 |
| Balsam Fir | 12.65 | 14.12 | 12.09 | 14.84 | 14.61 | 13.99 | 13.46 | 21.12 | 33.54 |
| W. Spruce  | 12.8  | 19.18 | 26.62 | 32.63 | 29.90 | 30.51 | 21.87 | 31.80 | 43.39 |
| B. Spruce  | 18.40 | 21.16 | 20.61 | 22.23 | 29.17 | 27.05 | 31.96 | 31.50 | 43.39 |
| Tamarack   | 6.71  | 7.29  | 5.79  | 5.67  | 6.40  | 4.11  | 4.56  | 6.42  | 9.84  |
| W. Cedar   | 11.27 | 7.31  | 6.83  | 8.46  | 6.74  | 7.06  | 4.68  | 4.60  | 5.50  |
| J. Pine    | 23.59 | 24.72 | 24.32 | 21.94 | 21.63 | 22.18 | 21.37 | 29.46 | 30.66 |
| R & W Pine | 23.35 | 15.63 | 17.02 | 18.61 | 20.79 | 20.99 | 19.55 | 19.18 | 29.06 |

*\*Readers should use caution when comparing prices shown in these tables with actual prices on any specific timber sale. Individual sale prices will vary significantly from the averages shown in these tables due to variability in both economic and physical conditions. Figures compiled by Lillian Baker and Doug Ford of the DNR - Forestry Timber Sales Program. Average prices based on those reported by Minnesota Counties, Chippewa and Superior National Forests, Bureau of Indian Affairs, and Minnesota DNR-Forestry. The various reporting agencies have different fiscal years. Some agencies report their data based on timber appraisal estimates, while others report based on actual scale receipts. The reported sales data included numerous different products and units of measure.*

It is evident that pulpwood prices of most species rose at a rapid rate in 2005. Probably of greatest interest to most folks was the tremendous jump in average aspen pulpwood prices. Average aspen pulpwood prices rose by over 60% as compared to 2004. Prices at state auctions in the first quarter of 2006, while still very strong, seem to have moderated a bit from last spring and summer's highs. The reasons for the continuing stumpage price rise are a complex interaction of supply and demand factors. Following is a brief listing of some of the factors that contacts have cited during conversations over the past several months.

Continued on Page 2

**Sold as Pulp & Bolts in Combination\***  
(\$'s per cord)

| Species     | 1997  | 1998  | 1999  | 2000  | 2001  | 2002  | 2003  | 2004  | 2005  |
|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Aspen       | 22.85 | 25.39 | 26.35 | 28.66 | 34.33 | 30.80 | 34.52 | 40.94 | 65.14 |
| Balm        | 16.01 | 19.51 | 18.04 | 25.41 | 32.57 | 28.35 | 28.21 | 34.15 | 47.09 |
| Birch       | 9.03  | 9.40  | 8.97  | 9.45  | 10.40 | 10.18 | 12.61 | 16.28 | 24.99 |
| Ash         | 26.70 | 18.45 | 7.09  | 10.01 | 11.52 | 10.01 | 9.84  | 13.42 | 21.76 |
| Oak         | 30.71 | 24.58 | 34.00 | 25.35 | 24.33 | 32.32 | 34.50 | 26.26 | 42.24 |
| Basswood    | 30.17 | 17.80 | 17.65 | 17.00 | 18.87 | 16.94 | 18.34 | 19.46 | 23.89 |
| Maple Spp   | --    | --    | --    | --    | --    | --    | --    | --    | 16.30 |
| Balsam Fir  | 14.97 | 17.49 | 15.60 | 19.87 | 24.01 | 20.53 | 23.04 | 26.76 | 41.38 |
| W. Spruce   | 27.78 | 26.56 | 29.83 | 34.25 | 33.84 | 34.88 | 35.86 | 41.67 | 48.03 |
| B. Spruce   | 19.05 | 21.16 | 21.28 | 23.04 | 30.01 | 27.65 | 31.96 | 32.88 | 48.03 |
| Tamarack    | 6.96  | 8.18  | 6.97  | 6.60  | 7.37  | 4.55  | 5.21  | 6.96  | 10.07 |
| White Cedar | 12.05 | 9.29  | 10.24 | 8.32  | 8.68  | 7.91  | 6.16  | 5.98  | 7.47  |
| J. Pine     | 31.97 | 33.83 | 32.78 | 30.39 | 37.95 | 36.76 | 38.20 | 41.75 | 50.81 |
| R & W Pine  | 44.71 | 48.81 | 57.93 | 53.35 | 43.89 | 40.01 | 39.13 | 39.76 | 55.17 |

A bolt is defined as a short log, usually 100" length, with a specific minimum diameter, generally sawn for lumber

**Sawtimber (\$ per Thousand Board Feet)\***

| Species    | 1997   | 1998   | 1999   | 2000   | 2001   | 2002   | 2003   | 2004   | 2005   |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Aspen      | 93.83  | 100.54 | 85.09  | 102.28 | 114.11 | 103.19 | 109.91 | 128.77 | 190.44 |
| Birch      | 36.60  | 39.78  | 36.12  | 43.17  | 50.48  | 55.87  | 72.34  | 94.41  | 128.30 |
| Ash***     | 108.93 | 97.09  | 48.70  | 71.39  | 81.97  | 66.85  | 76.60  | 99.56  | 144.62 |
| Elm        | 107.20 | 53.31  | 56.50  | ---    | 44.10  | 69.00  | 62.08  | 53.82  | 86.52  |
| Oak**      | 155.97 | 140.20 | 146.00 | 109.53 | 118.72 | 151.77 | 150.04 | 145.57 | 185.90 |
| Basswood   | 107.07 | 81.15  | 74.77  | 70.25  | 81.24  | 80.43  | 94.47  | 112.30 | 133.10 |
| Balsam Fir | 71.61  | 88.30  | 80.82  | 120.65 | 144.20 | 136.32 | 145.47 | 167.74 | 244.43 |
| Spruce     | 83.23  | 78.34  | 81.91  | 90.00  | 91.27  | 94.95  | 101.81 | 131.34 | 204.73 |
| W. Cedar   | 37.00  | 38.64  | 39.13  | 19.96  | 30.46  | 29.43  | 24.73  | 27.34  | 26.38  |
| J. Pine    | 115.46 | 121.84 | 124.00 | 114.86 | 154.35 | 155.76 | 135.43 | 168.66 | 184.79 |
| R & W Pine | 174.34 | 161.01 | 198.99 | 176.01 | 170.13 | 153.78 | 153.10 | 139.41 | 181.21 |

\*\*Oak sawtimber prices mainly from public lands in northern Minnesota

\*\*\*Black ash includes veneer

Salvage from July 1999 windstorm included in price for stumpage in 1999 and 2000.

## Timber Demand

Market Conditions for Wood Products. Engineered wood mills (OSB, etc) have had very good market conditions and ran at high capacity. Many paper and sawmills also ran at higher capacity than in the 2001 to 2003 period due to improved market conditions, although profit margins continued to be razor-thin in many cases.

Competition. Continuing favorable market conditions led to increased competition for wood. Mills had to raise their delivered prices and/ or pay bonuses in order to obtain enough wood. This resulted in increased stumpage prices, especially for aspen.

Speculation. It is possible that some timber buyers may have impacted the market by "betting" on continued rising prices, as they plan to hold onto sales for several years.

Other Species. High aspen prices have had a "domino" effect by causing pulpwood mills to broaden their species mix over the past several years. This has resulted in upward price pressure on birch and virtually all other species.

## Timber Supply

Private Lands. Although solid data on this are not in yet, the very high prices seemed to cause wood to flow from private lands at higher than normal levels last year.

Imports. Wood imports from Canada appeared to remain high last year, in spite of the relative strength of the Canadian dollar making the wood more expensive for Minnesota mills. Some mill closures regionally (in Michigan, Wisconsin and Canada) in the past year may have begun to have at least some impact on supply, as

pulpwood that would have gone to these mills looked for a new home.

Weather. Last summer and fall were excellent for producing timber, or prices might have been even higher. Mills went into the winter in very good shape, which seemed to moderate prices at least a bit during the last few auctions at the end of 2005. Then, very late and short freeze-up compressed the winter harvest season and there was much concern. It was then interesting and surprising to watch mill yards stay very full this winter in spite of the very warm weather through January. It is hard to believe this won't have supply impacts somewhere down the line, since apparently many loggers operated in "summer" wood for a large part of the winter. However, for now, the mill yards are full.

## **2006 Outlook**

The relevant publications I see predict that 2006 will be a pretty good year in most wood product sectors, keeping demand strong. On the supply side, I don't see any factors that are likely to result in a significant supply change any time soon. On public lands (which account for roughly 1/2 of harvest volume in Minnesota), the DNR and counties are generally offering and selling all of their planned harvest, and our National Forests are unlikely to offer a great deal more wood than current levels. If prices moderate even a little, it will be worth watching to see if private timber continues to flow at similar levels as in 2005. Wood flow from Canada, Michigan and Wisconsin will also bear watching as the impacts of currency changes and the recent mill closures shake out.

## **Stumpage Price Bottom Line**

Pulpwood stumpage prices should remain strong in Minnesota for 2006, although it is likely that they will not be quite as robust as 2005.

## **Housing Market Analysis and Outlook**

Because it is such an important indicator of demand for the engineered wood and lumber sectors of the wood business (which together account for use of roughly 55% of all wood harvested and utilized in Minnesota) I wanted to share some analysis on housing market trends done by Dr. Al Schuler, a research economist with the USDA Forest Service in Princeton, WV. Thanks to the USDA Forest Service and to Dr. Schuler for providing this analysis, which follows in italics:

*Monthly housing starts can fluctuate significantly, and that means we should focus on trends. January starts, heavily influenced by unseasonably warm weather, were up 16%. However, we have seen pullbacks in four out of the past 6 months and it appears that we are simply returning to a more sustainable level that is supported by basic demographic forces. Annual demand for shelter is estimated to be 1.85 to 2.05 million units. Assuming that 150,000 units for manufactured (HUD code) housing, that means demand for conventional housing (single family plus multi family) is about 1.7 million to 1.9 million. Very attractive interest rates, innovative financing, and a surplus of capital (encouraging speculative buying of real estate) pushed demand beyond sustainable levels for the past few years. We are still at the upper end of that range but we're certainly getting closer to what most analysts would call "sustainable". In that respect, the fixed rate mortgage, although moving up to 6.49%, remains attractive by historical standards. The job picture continues to improve with the unemployment rate dropping below 5% and incomes are still increasing faster than inflation. Today's PPI report tells us that inflation is "tame" with the exception of volatility in the oil markets. Inflation should remain relatively tame, however tighter labor markets are becoming a growing concern with the Fed.*

*Residential fixed investment (the dollar amount invested in housing) is slowing, and prices are pulling back in some regions in California and southern Florida. Additional signs are: (1) the inventory of new homes on the market is 548,000, a 6.3 month supply at current sale rates; (2) builders are starting to offer "deals"; (3) price increases are moderating (actually falling in some areas); (4) sellers are seeing fewer "multiple offers"; (5) mortgage delinquencies are increasing; and (6) lending standards are tightening.*

**Housing Market Summary:** *Still a solid housing market that is simply correcting to more sustainable levels.*

# Special Forest Product (SFP) News

## Spruce Top Sales From DNR Lands

The decorative spruce top industry in Minnesota is driven by demand for decorative items around the Christmas holiday season. Spruce top sales can be a good way to generate revenue from stands that might not provide other economic returns, yet there are workload and environmental issues with continuing these types of sales.

Most spruce top harvest takes place on low productivity spruce stands on public lands. Harvest typically takes place during October and November on wet sites when the ground is unfrozen. For 2003, there were approximate retail sales of 600,000 to 650,000 spruce tops in Minnesota. Most of these were sold by landscape nurseries such as Bachman's, Gertin's and Linder's. Some were also sold by grocery and home improvement stores such as Menard's, Cub Foods and Home Depot.

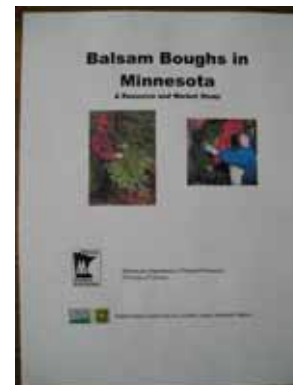
Due to a desire to minimize environmental impacts of spruce top harvest and still support sustainable economic use of the resource, DNR-Forestry has decided to continue to offer spruce tops for sale, but to offer some for harvest only during frozen ground conditions. A decision has also been made to offer some sales west of traditional harvest areas, in the DNR Northwest Region.

Division of Forestry has set a target of offering 300,000 total tops in FY07. 200,000 of this total is to be offered by DNR Region II (northeast Minnesota), with 100,000 to be offered by DNR Region I (northwest Minnesota). **Of the 300,000 total tops to be offered for sale in fiscal 2007, 150,000 will be offered for frozen ground harvest only (in other words, after the traditional harvest season). It is important that the spruce top industry be aware of these changes, and that they begin to examine storage options and logistics necessary to facilitate frozen ground harvest of a significant percentage of the state offering.**

## Balsam Bough Study Report Out

Balsam fir is an important component of Minnesota's forest resource. In addition to its environmental benefits and importance to traditional forest industry, balsam fir also holds the distinction of being Minnesota's SFP of greatest commercial value. The balsam bough decorative industry generates over 23 million in retail sales annually. A new report on a study that examined sustainability of the balsam bough resource and industry is available. "Balsam Boughs in Minnesota - A Resource and Market Study" was a cooperative venture between several groups and organizations, including largely the US Forest Service, Minnesota Department of Natural Resources, and the Balsam Bough Partnership. No printed copies were produced, but the report is available in PDF format on the DNR Utilization & Marketing Program web page at: <http://www.dnr.state.mn.us/forestry/um/index.html>

Thanks to all who contributed to the project!



## DNR Contribution to Timber Harvest Levels

I had some questions at a recent logger conference regarding the state's contribution to annual harvest levels. Specifically, the questioners thought that the state was not doing its share to manage its lands and provide timber for industry. Apparently accurate word of DNR efforts has not reached everyone. I think it is important to set the record straight.

For the four fiscal years 2002 through 2005, DNR has offered an average of 857 thousand cords of timber for sale. This figure is very close (within 3%) to DNR's estimated long-term sustainable harvest level of 882.8 thousand cords. To suggest that DNR has offered timber volumes significantly below its sustainable harvest levels in recent years is inaccurate.

Another illustration of the state contribution can be seen in the Forest Inventory and Analysis (FIA) figures for the aspen cover type. According to the 2004 FIA inventory, the DNR had higher rates of management in the aspen forest type than any other ownership. For State-owned lands, approximately 19.6% of total aspen forest type acreage is in the 0 to 10 year age class (indicative of its having been harvested and regenerated within the 1994-2004 period). For County ownership, the figure is 18.2%, and Federal, 16.5%. For private ownerships, the figure is only 15.9%. The data clearly show that the state of Minnesota has been doing its share to manage its timberlands and support healthy rural economies.

## Educational Opportunities

Our friend Harlan Petersen of University of Minnesota Extension sent along information on several educational opportunities. For any of you who may not have attended one of these sessions, I highly recommend them. I attended the Kiln Drying and Lumber Grading short course in the past, and they were excellent.

### Hardwood Lumber Grading Short Course

The U of M's 36<sup>th</sup> Annual Hardwood Lumber Grading Short Course will be held September 19-21, 2006 at the Cloquet Forestry Center, Cloquet, Minnesota. This course is designed to provide a practical introduction to hardwood lumber grading through classroom discussion of the National Hardwood Lumber Association (NHLA) rules and "hands on" practice grading of actual lumber. For more information, contact Harlan Petersen at (612) 624-3407, fax (612) 625-6286, or email [harlan@umn.edu](mailto:harlan@umn.edu). Complete details, including registration form, will be available at the following website in late May or early June: <http://www.cnr.umn.edu/bp/extension/shortcourses/grading.php>

### Kiln Drying Short Course

The 29<sup>th</sup> 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](mailto:harlan@umn.edu)

### Great Lakes Kiln Drying Association Fall Meeting

The GLKDA fall meeting will be held October 5-6, 2006 at the Stone Harbor Resort, Sturgeon Bay, Wisconsin (Door County). For more information, contact Harlan Petersen, University of Minnesota, Department of Bio-based Products, 2004 Folwell Avenue, St Paul, MN 55108. Phone: (612)624-3407.

E-mail: [harlan@umn.edu](mailto:harlan@umn.edu)

## DNR Auctions

Readers interested in bidding on DNR timber auctions should be aware that the Department will be completing a much-needed update to its electronic timber sale system late this fall through early winter. As the changeover to the new system is completed, no DNR auctions will be scheduled (except in an emergency due to natural disaster) from December 18, 2006 through February 6, 2007. This will not impact total timber volumes offered by DNR, but it does mean that the auction schedule will be heavier than normal just outside of those dates.

Additionally, timber buyers should be aware that there will be no transactions (over-the-counter sales, payments, etc.) of any sort taking place from December 18, 2006 through Dec 31, 2006. Just some words to the wise as you plan timber purchases for the coming year.



### 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 specifications and log lengths. Logs accepted 24/7. Contact: Jay Dauner, Cass Forest Products, Cass Lake, MN; Phone: (218) 335-2694; email [Cass@paulbunyan.net](mailto:Cass@paulbunyan.net).
- Wanted Logs or standing timber. Contact: Mike Haege, Custom Cuts, Hampton, MN 55031; Phone: (651) 367-4321; Email: [Mhaege777@yahoo.com](mailto:Mhaege777@yahoo.com).
- Wanted Plywood, OSB, or other panel drops (or off fall). Clean, dry & sound pieces, prefer large volume, but will consider what you have to offer. Contact: Joe Campbell, Steel City Lumber Company, PO Box 36189, Birmingham, AL 35236; Phone: (800) 733-1907; Fax: (205) 733-1790; Email: [joecampbell@bellsouth.net](mailto:joecampbell@bellsouth.net).
- Wanted Mini bolts. Specs: must be 6" in diameter or larger; cut at 8' (102"+ or -2"); sound (no rot or split); straight; trimmed flush. Acceptable species: Dense hardwoods, oak, maple, ash, birch & aspen. Contact: Katie Bauer, Woodline Sawmills, 11812 Quail Rd, Onamia, MN 56359; Phone: (320) 532-3272; Fax: (320) 532-4045.
- Wanted Wood fuel for energy production. All species of bark, and shredded or chipped wood. Two locations: Rapids Energy Center in Grand Rapids and Hibbard Energy Center in Duluth. Contact: Mike Polzin, Minnesota Power, 30 W. Superior Street, Duluth, MN 55803. Email: [mpolzin@mnpower.com](mailto:mpolzin@mnpower.com)

### Equipment Wanted

- Wanted (1) Log cabin tooling for Pendu saw. (2) Late model pallet & wooden stake mfg. equipment, shavings bagging equipment, band re-saws, band sawmills, trim saws. (3) Wagner or Ro-Jo gang saw. Contact: Bob Montgomery; Phone: (610)621-2893; Email: [ramco@comcast.net](mailto:ramco@comcast.net).



## Forest Products For Sale

- For Sale Two black walnut trees, one has veneer log 20' length x 27" diameter, one has 8' x 30" log. Trees are 10 miles south of Perham, MN, Ottertail County. Contact: Don Fondrick; Phone: (218) 495-3640.
- For Sale Surplus log home materials; (1) 2" x 6" x 8' shiplap siding. (2) 2" x 8" x 8' shiplap siding, faux corners. (3) 6" x 8" x RL T&G logs. Contact: Bob Montgomery; Phone: (610) 621-2893. Email: [ramco@comcast.net](mailto:ramco@comcast.net).
- For Sale Firewood; (Blow down) oak & ash. East Ottertail Co. You cut, \$25 per fireplace cord. Contact: David Lindroth: 8150 137<sup>th</sup> St W, Apple Valley, MN 55124; Phone: (952) 432-7066.
- For Sale White oak lumber sawed to your specifications. Available products include: quarter sawn lumber, outdoor construction applications, including fencing materials, beam manufacturing up to 8" by 8" by 20', & full width log slabbing up to 6" thick by 5' wide. Contact: Dana W. Thomsen, Midstate Wood Products, Phone: (320) 294-5708.
- For Sale Red cedar branches, short pieces, short blocks, recently cut. Contact: Ron's Wood Shop, 30431 390<sup>th</sup> St, Melrose, MN; Phone: (320) 256-3423.
- For Sale Rough cut walnut lumber, random widths & lengths. Contact: Thomas Gosse, 511 2<sup>nd</sup> St. E., Wabasha, MN 55981; Phone: (651) 565-4597.
- For Sale (1) Plywood, OSB, particleboard and/or MDF cut to size or shape according to your specs. (2) Plywood blocks for pallets. Contact: Joe Campbell, Steel City Lumber Co, Box 36189, Birmingham, AL 35236; Phone: (800) 733-1907; Fax: (205) 733-1709; Email: [joecampbell@bellsouth.net](mailto:joecampbell@bellsouth.net).
- For Sale Real half log siding 8", 10" & 12". Contact Lyle Hietala, Hietala Lumber, Inc. 4565 Hult Rd, Aurora, MN 55705. Phone: (218) 638-2848; Fax: (218) 638-2848.
- 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's Mill & Crafts, 37885 Park Trail, Center City, MN 55012; Phone: (651) 583-2813; Email: [jlmie@ties2.net](mailto:jlmie@ties2.net).
- For Sale Large amount of cottonwood lumber, mostly 2", with some 1" thick. Also black walnut & ash lumber. Will saw to your specs. with either band or circle saw. Contact: Loren Strei, 3835 121<sup>st</sup> Ave., Ortonville, MN 56278; Phone: (320) 839-2057.
- For Sale Several thousand cords of red pine pulpwood in NE Minnesota, 4" to 8" diameter. Contact: Doug Magee, Hedstrom Lumber Company, 1624 Ninth Ave., Two Harbors, MN 55616; Phone: (218) 834-5151; Cell: (218) 349-9241; Fax: (218) 834-6418.

## Equipment For Sale

- For Sale (1) Arasmith salvager hog. (2) Baker deduster. (3) Brewco Big Band 3-head band saw w/ runaround. (4) Hempstead low speed grinder. (5) Morbark stac-trac, late model. (6) Morbark

waste recycler. (7) Norcot pavement grinder. (8) Williams hog. (9) Woodpower grinder. (10) Prentice model 150 loader. (11) Cornell cant sizer. (12) Cornell double arbor gang. (13) Cornell remote trim. (14) Keystone stake pointers. (15) Keystone double-end trim. (16) Lauderdale Hamilton super chop. (17) Newman 500 & 501 planers. (18) Newman KM-16. (19) Pendu gang saws & complete systems. (20) Pendu board stackers. (21) Rip-Jac over & under dismantler. (22) Rogers un-nailer. (23) Waechter band re-saws. (24) Wilson board unscrambler. (25) Timber Harvester band resaw system. Contact: Bob; Phone: (610) 621-2893; Email: [ramco@comcast.net](mailto:ramco@comcast.net).

For Sale (1) Majaco log loaders from 9' –14' reach, w/different size log trailers. (2) Skidding winches from 25 hp – 80 hp. (3) Tractors with 3pt. hitch. Contact: Dave Grinnell, Arrowhead Wood & Forest Service, 1592 Olsonville Rd, Carlton, MN 55718; Phone: (218) 384-3325; Fax: (218) 384-3187; Email: [Grinnell@callta.com](mailto:Grinnell@callta.com).

For Sale Late 60's C-4 TF skidder - needs work, whole machine or for parts, \$2,500 as is. Contact: Dan Homstad, Homstad Sawing & Hauling, 311 Prairie Lake Rd, Wright, MN 55798; Phone: (218) 644-3398.

For Sale (1) Circular sawmills, two sizes of edgers. (2) Log turners, belts & chain conveyors, roll cases, hydra dogs, pallet notchers, slab edgers, debarkers, multiple saw trimmers. (3) Custom built decks. (4) Small & medium size hydraulic loaders & trailers. Contact: Dixon-Rusch Co, LLC, 400 Rusch Rd, Antigo, WI 54409; Phone: (715) 627-4361; Fax: (715) 627-4375.

For Sale (1) Large mill pencil pointer for stake production, \$2,500. (2) 6" Morgan board de-duster, \$3,400. (3) Hytrol 8" x 12' conveyor, \$200. Contact: Bill; Phone: (320) 838-3518.

For Sale (1) Vertical edger. (2) Wood shaving 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](http://www.jacksonlbrharvester.com)

For Sale CATD 333T Power unit, 6-cylinder turbo charged 177hp, complete w/radiator, governor, clutch & pulley, 1200 hrs, \$10,000. Contact: Bud Peters, Route 1 Box 130A, Mellen, MN 54546; Phone: (715) 274-2925.

For Sale 1994 Woodmizer LT-40-HD sawmill, 21', 24 hp gas engine, sharpener & setter, spare belts & parts, extra blades including approximately 20 double hard blades, 1400 hrs, \$17,000 OBO. Contact: Wallace Bartel, Bartel Enterprises, 9895 420<sup>th</sup> St, Harris, MN 55032; Phone: (651) 674-5892.

For Sale Four side planer-molder, flat belt powered, extra knives. Contact: Thomas Proulx, Box 83, Willow River, MN 55795. Phone: (218) 372-3413.

For Sale (1) Portable right hand all steel sawmill, complete w/two 50" inserted tooth saws, hydraulic feedworks, four headblock carriage w/hydraulic dog, live log deck, sawdust blower, steel lumber & slab drags, banding equipment, Jocky grinder, new bits & shanks. (2) GVI Minneapolis Moline tractor. Contact: Eldred Dexter, 38392 119<sup>th</sup> Ave, Menahga, MN 56464. Phone: (505) 894-1196; (after 6/3/06 – Phone: (218) 564-4475).

For Sale XL moldmatcher, 4 head molder, 3 – phase, older model made by Smithway Machine Co in Seattle WA, needs some work, \$375. Contact: Duane Myklejord, 34683 350<sup>th</sup> Ave SE, Fosston, MN 56542.

- For Sale (1) 1991 Super T Bell feller- buncher, new engine w/28”Lx26” tires & Hultdins tracks, \$27,000. (2) Newman 200 knife grinder, \$5500. (3) Barko 80 loader mounted on 2070 International truck, \$5500. Contact: Brad Maus, Maus Sales Inc, 1163 Cty. Rd 6 NW, Baudette, MN 56625; Phone: (218) 634-2864; Fax: (218) 634-1600; Email: [maussales@wiktel.com](mailto:maussales@wiktel.com).
- For Sale (1) C4 forwarder. (2) 1980 GMC boom truck. Contact: Barry Graber, 3006 Pilot St, Brook Park, MN 55007; Phone: (320) 679-2183.
- For Sale 2001 Hahn shortwood processor, rebuilt JD engine, feed rollers, 2 man. Contact: Kelly Kimball, Kimball Logging, Inc, 23516 Brill Ave, Park Rapids, MN 56470; Phone: (218) 573-3454; Email: [kimlogs@arvig.net](mailto:kimlogs@arvig.net).
- For Sale (1) Used parts for skidders, small crawlers & excavators. Parts for CAT, JD, IHC, AC, MH, Athey, Bantam/Kohering, Bobcat, Case, Clark, TJ, Drott, Franklin, Hein-Warner, Insley, Leiberr, Michigan, Mitsubishi, New Holland, New Process, Pettibone, Taylor, TF & Trojan. (2) Engines, transmissions & tires. Contact: Judy Clark; Schaefer Enterprises of Wolf Lake, Inc, Box 136, 4535 State Rt. 3 N., Wolf Lake, IL 62998. Phone: (800) 626-6046 or (618) 833-5498; Fax: (618) 833-7765; Email: [parts@sewlparts.com](mailto:parts@sewlparts.com); Web: [www.sewlparts.com](http://www.sewlparts.com).
- For Sale Portable Jackson lumber harvester, sawmill all hydraulic, cab, live deck, with Jackson vertical edger, 671 Detroit power unit, \$25,000. Contact: Duane Johnson, 2709 243<sup>rd</sup> Ave, Sebeka, MN 56477; Phone: (218) 472-3391.
- For Sale Used band saw blades – 19 gauge, 1 3/4” tooth spacing, sliver back, 20’6” long, 4”-5” widths. Contact: Todd Tollefsrud, 23243 County 16, Spring Grove, MN 55974. Phone: (507) 498-3534, evenings.
- For Sale Newman KM16 4 saw end trimmer, carbide saws, 8”, 10”, & 12”. Contact: Lyle Hietala, Hietala Lumber Inc., 3565 Hult Rd, Aurora, MN 55705; Phone: (218) 638-2848.
- For Sale **Cable Skidders:** (1) 1991 JD 640E, new tires, \$35,000. (2) 1970 JD 440A, \$10,500. (3) TJ 240, P.O.R. (4) TJ 350, P.O.R. **Grapple Skidders:** (5) 1991 TJ 450B, Cummins engine, \$18,000. (6) 1985 JD 548D, HD axles, 28. 1x26 tires, \$26,000. (7) 1998 JD 648GII, single function, rebuilt engine P.O.R. (8) 2001 JD 648GIII, dual function, \$102,000. **Crawlers:** (9) 1997 D5MLGP, P.O.R. (10) 1190 650G, 6-way blade, \$32,000. (11) 1977 D6D LGP, \$27,000. (12) 1987 D4H LGP, 6-way blade, enclosed cab, \$27,000. **Knuckleboom Loaders:** (13) 1998 Barko 160D, 6cyl. Cummins, mounted on trailer, \$44,000. (14) 1987 XL 175 Husky, mounted on truck, \$17,500. **Excavators:** (15) 1990 JD 490D, \$24,000. (16) 1996 Yammar B6U mini excavator, \$13,750. **Wheel Loaders:** (17) JD 410 backhoe, cab, \$13,000. (18) 1979 JD 440B, \$18,500. (19) 1984 JD 544C, new JD engine, \$23,000. **Trucks:** (20) 1978 GMC 2 ton w/hydr hoist, flatbed dump, \$4,500. **Delimbers:** (21) Siiro delimber/slasher, \$7,000. **Feller-Bunchers & Shears:** (22) 775A Barko, P.O.R. (22) 1988 Cat 910, 17” shearhead, rebuilt transmission, \$32,000. (23) 1978 Drott 40, JD engine, \$13,000. (24) 2004 643H, JD, 2100 hrs, warranty, \$135,000. (25) 1984 411B Hydro-Ax, \$15,000. (26) 1986 611B Hydro-Ax, 6BT Cummins, \$27,000. (27) 1993 JD 5900D w/18” roto saw, \$27,000. (28) 1976 JD 544B, 20” shear, \$21,000. **Miscellaneous:** (29) 1988 534 Grandall 8000# lift, \$24,000. (30) 1991 853 Bobcat, w/forks & brook, \$8,500. (31) Cat V80D 8,000# forklift, \$6,500. (32) 60” slasher w/power unit, \$14,500. (33) 20” Koehring sawhead to fit 643 JD, \$9,000. (34) New 60” & 72” Hanfab slashers, P.O.R. (35) Gafner Iron Mule prehauler, \$12,000. Contact: Northern Timberline Equipment, Inc, 6000 Cty Rd 8, Littlefork, MN 56653-9132; Phone: (218) 278-6203; Fax: (218) 278-6716; Email: [ntel@frontiernet.net](mailto:ntel@frontiernet.net).



## Services and Miscellaneous

- Services (1) ANCHORSEAL end sealer for green logs and lumber, available in clear and colors; free sample available. (2) LogSavers and FitchSavers — plastic “s-irons” for logs, can be sawn or sliced through without damaging equipment. Contact: U-C Coatings Corp., P.O. Box 1066MN, Buffalo, NY 14215, Phone: (716) 833-9366; Fax: (716) 833-0120; Email: [mnmkt@uccoatings.com](mailto:mnmkt@uccoatings.com)
- Services Fungus problem? Disease? Decay? Stain? Mold? Analysis and testing using AWPA, NWDA, ASTM standards and other methods based on your needs or situation; new products testing; fungus isolation and identification from trees, wood products and wood in use. Answers to your fungus questions. Contact: Dr. Dana Richter, Forest Resources and Environmental Science, Michigan Technological University, Houghton, MI 49931; Phone: 906-487-2149; Email: [drichte@mtu.edu](mailto:drichte@mtu.edu).
- Services Custom sawing with LT 70, Woodmizer sawmill. Contact: Mike Haege, Custom Cuts, 23815 Lillehr’s Ave, Hampton, MN 55031; Phone: (651) 367-4321; Email: [mhaege777@yahoo.com](mailto:mhaege777@yahoo.com)
- Services Structural engineering, log & heavy timber frame homes, unusual foundation problems solved. MN & WI registration. Contact: John Wilkinson, Consulting Engineer, 604 2<sup>nd</sup> Ave N, Sartell, MN 56377; Phone: (320) 253-1019; or (563) 547-1078.
- Services Custom log sawing done on site. Contact: Edward Pogreba, Ed’s Custom Log Sawing, 59196 Hwy 46, Blackduck, MN 56630; Phone: (218) 659-4463.
- Services Custom drying; dehumidification kiln, 600 BF capacity. Contact: Jim Mielke, Mielke’s Mill & Crafts, 37885 Park Trail, Center City, MN 55012; Phone: (651) 583-2813; Email: [jlmiel@ties2.net](mailto:jlmiel@ties2.net).
- Services Manufacture wood items to customer specification: dowels, plugs, wedges, blocks, handles, knobs, legs, moldings, balls, cases, rollers, spools & shaping. Contact: Ed Koelbl, American Wood Working Co, Inc, Montello, WI 53949; Phone: (608) 297-2131; Fax: (608) 297-7124. Web: [www.americanwoodworkingco.com](http://www.americanwoodworkingco.com).

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## DNR Forestry Timber Auction Sales

| <b>Date</b> | <b>Auction Type</b> | <b>Sale Name</b>               | <b>Location</b>                         |
|-------------|---------------------|--------------------------------|---|
| May 05      | Regular             | Houston and                    | Rushford Fire Hall                      |
| May 15      | Regular             | Aitkin Area                    | Long Lake Conservation Center, Palisade |
| May 15      | Intermediate        | Aitkin Area                    | Long Lake Conservation Center, Palisade |
| May 16      | Intermediate        | Park Rapids/Detroit Lakes Area | Park Rapids Env. Ed. Building           |
| May 16      | Regular             | Park Rapids Area               | Park Rapids Env. Ed. Building           |
| May 26      | Regular             | Hibbing Area                   | Ironworld, Chisholm, MN                 |
| May 26      | Intermediate        | Hibbing Area                   | Ironworld, Chisholm, MN                 |
| May 31      | Regular             | Bemidji Area                   | Bagley DNR Field Station                |
| May 31      | Intermediate        | Bemidji Area                   | Bagley DNR Field Station                |
| June 01     | Intermediate        | Littlefork Area                | Big Falls Community Building            |
| Jun 01      | Regular             | Littlefork Area                | Big Falls Community Building            |
| Jun 02      | Regular             | Backus Area                    | Pequot Lakes City Hall                  |
| Jun 02      | Intermediate        | Backus Area                    | Pequot Lakes City Hall                  |
| Jun 06      | Regular             | Baudette Area                  | Baudette Area DNR Forestry Office       |
| Jun 06      | Intermediate        | Baudette Area                  | Baudette Area DNR Forestry Office       |
| Jun 06      | Regular             | Deer River Area                | Big Fork Community Building             |
| Jun 06      | Intermediate        | Deer River                     | Big Fork Community Building             |
| Jun 07      | Regular             | Orr and Tower Area             | Orr American Legion                     |
| Jun 07      | Intermediate        | Orr and Tower Area             | Orr American Legion                     |
| Jun 08      | Regular             | Warroad Area                   | Warroad Area DNR Forestry Office        |
| Jun 08      | Intermediate        | Warroad Area                   | Warroad Area DNR Forestry Office        |
| Jun 13      | Regular             | Two Harbors Area               | Silver Bay Reunion Hall                 |
| Jun 13      | Intermediate        | Two Harbors Area               | Silver Bay Reunion Hall                 |
| June 14     | Regular             | Blackduck Area                 | Blackduck Senior Center                 |
| June 14     | Intermediate        | Blackduck Area                 | Blackduck Senior Center                 |
| June 14     | Regular             | Sandstone Area                 | Rutledge Community Center               |
| June 14     | Intermediate        | Sandstone Area                 | Rutledge Community Center               |
| July 12     | Regular             | Decorative Tops                | Floodwood DNR Forestry office           |



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