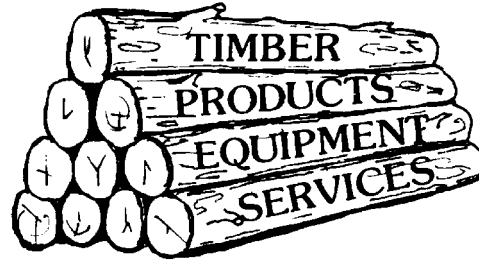




A Service to
Minnesota's
Forest Industry

The Market Place



Summer/Fall 2004

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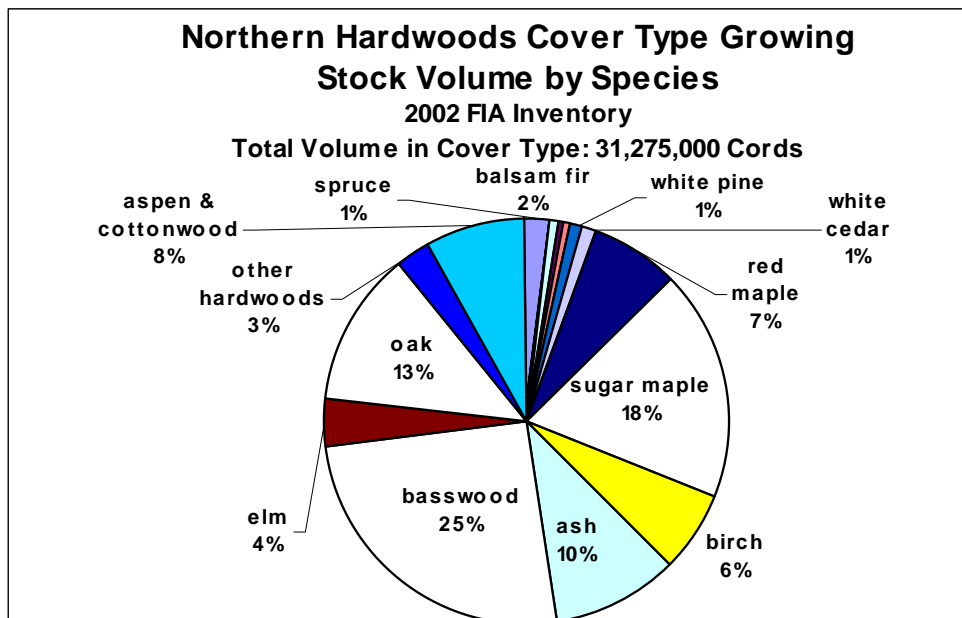
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Minnesota Forest Resources Overview

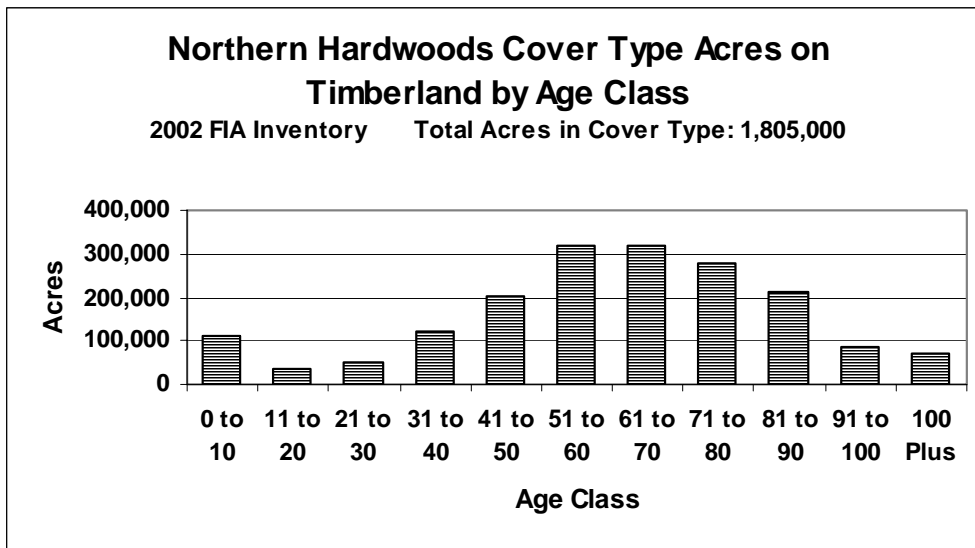
The northern hardwoods resource is part 5 of our continuing look at Minnesota's changing forest resource. Readers should be mindful that we are using the FIA inventory data currently on hand. One more year of data will be available later this fall, so some of the numbers will change a bit as more data comes online.

Northern Hardwoods

The northern hardwoods cover type is a conglomeration of a wide group of species, the most prevalent of which are the shade tolerant sugar maple and basswood. There are also significant ash, oak, birch and aspen volumes present.

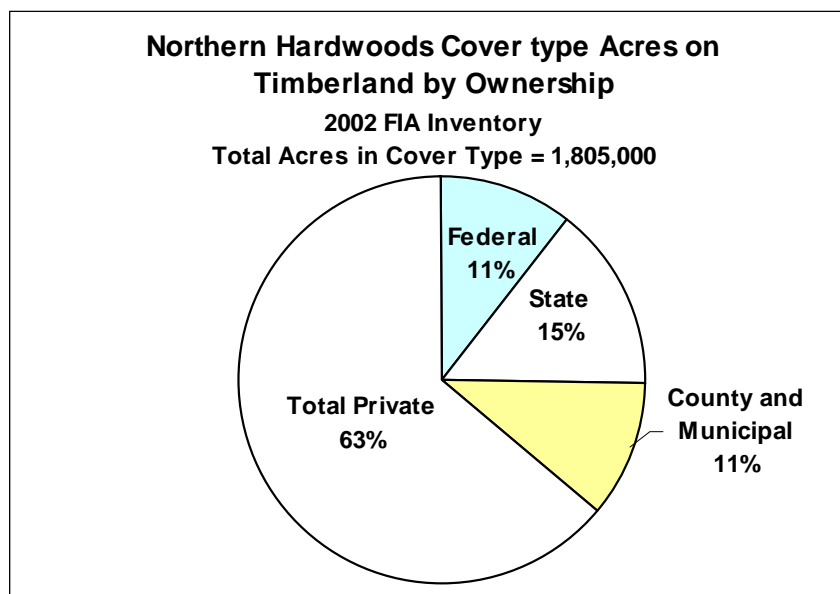


Source: 2002 FIA Database provided by USFS, North Central Research Station



Source: 2002 FIA Database provided by USFS, North Central Research Station

There are approximately 1.8 million acres of northern hardwoods in the state, out of a total timberland resource of around 15 million acres. It is therefore a very significant resource. The cover type is dominated by late “middle age” stands, many of which are in need of thinning in order to promote optimal growth and forest health. Northern hardwoods provide habitat for a variety of birds and other animals.



Source: 2002 FIA Database provided by USFS, North Central Research Station

The northern hardwoods cover type is owned largely by private landowners. Continuing and improved availability and use of forest management technical assistance to private landowners is therefore a critical issue for this type.

Hard Maple and Basswood Quality and Size

The growing conditions for sugar maple in most of Minnesota are marginal because we are on the western edge of its natural range. The result is that sugar maple in most of the state tends to be of lower sawlog quality than that grown in some regions of the country due to relatively small size and poor form (some higher quality sugar maple is grown in southeastern Minnesota). Basswood is quite a different story. Simply put, we grow some of the finest quality basswood in the world here. A high percentage of veneer quality material can often be obtained from basswood grown on good sites.

In Minnesota, our hard maple tends to be relatively small in diameter. Less than 23% of sugar maple volume is in trees over 15 inches Diameter at Breast Height (DBH). In contrast, over 35% of basswood volume is contained in trees greater than 15 inches DBH.

Management

Northern hardwoods are often managed through periodic “thinning” harvests, although clearcutting can be an appropriate tool in some situations.

The multiple-entry management typically practiced in northern hardwoods means that great attention must be paid to minimizing both soil compaction and damage to residual trees during harvest operations.

It is also important to avoid harvesting high-quality hardwood stems too early for use as pulpwood. In order to maximize long-term economic opportunity for landowners, to maintain diverse wildlife habitats and to sustain a diverse forest industry, those stems with potential for sawlog, veneer and specialty markets should be grown to sawlog size. This is especially true for basswood.

The Future

Our northern hardwoods cover type has been something of a “neglected” resource for many years. This has largely been due to a history of poor markets for pulpwood products for many hardwood species in much of the state. The market situation for most hardwoods has changed drastically in recent years, however. Several Minnesota pulp and paper and OSB mills have expanded their raw material species mix to include maple and other hardwoods. Sawlog markets for most hardwood species are also very good throughout most of the state. Better markets mean that greatly improved management of the northern hardwood resource is now possible. Since the majority of the resource is privately owned, availability and use of technical forest management assistance for private landowners will therefore be more critical than ever.

Wood Campaign a Marketing Boost for Northern Minnesota

Have you ever wished that the world marketplace better appreciated northern Minnesota as a source of wood and forest products? Join the Minnesota Wood Campaign and benefit from our joint effort to put Minnesota at the TOP of consumers’ and customers’ minds when they are looking for wood- and forest-based products.

Minnesota Wood Campaign membership is open to northern Minnesota forest product producers of all sizes and shapes. Thanks to significant grants from Blandin Foundation, United States Department of Agriculture (USDA) and Iron Range Resources (IRR), our dues are minimal. For 2005, dues range from \$25 to \$350, depending on number of employees. Grant requirements limit membership to producers in counties that are forest-based and economically challenged (which includes most counties north of the metro area, according to the USDA definition).

The Campaign is owned and directed by local wood- and forest-products producers. Benefits are significant and include: access to the Campaign’s proprietary list of high-potential markets (including specific customers); use of a new and well-promoted brand (in development); one-on-one professional marketing and trade assistance; access to shared initiatives such as professional product photography, trade show exhibits, buyers’ marts and international buying delegations, publicity, Minneapolis Farmers’ Market, etc.; and participation in marketing networks.

For more information, check out www.minnesotawoodcampaign.com. Questions? Email us at minnesotawoodcampaign@aol.com or call Allison Ahcan, one of the Campaign’s project managers, at 612-961-9155.

Attention Sawmillers!

2004 Sawmill Production Survey Time is Approaching

The time to update the sawmill production survey is rapidly approaching. DNR Utilization & Marketing staff will begin surveying sawmills in the late fall of 2004, and the survey will continue through early spring of 2005. We have had great cooperation from the industry over the years and we hope we can count on your continued cooperation this time.

Most of the smaller sawmills will be contacted by mail, while some of our larger sawmills will receive a personal or phone visit. Any proprietary information furnished by mills during the survey is held strictly confidential.

Purpose and Benefits

Critically important information is collected during the survey:

Most importantly, we collect updated harvest species and location information. There is no other way to determine harvest levels for all ownerships. Accurate harvest level information is critical to maintaining resource sustainability.

We also collect critical marketing information in order to update the Minnesota Primary Forest Product Producer Directory. Most businesses that choose to be listed in the Directory receive additional business as a result. The Directory is now available online at: <http://www.dnr.state.mn.us/forestry/um/index.html>. We will also be producing a new printed version during the summer of 2005, using fresh information from the upcoming survey.

Information on wood residue amounts and availability is also collected. This information has resulted in new business

opportunities for many mills through improved utilization of wood "waste". In other words, we can often help find markets for your residue if we know about it!

Additional benefit

The survey can provide an opportunity to make DNR aware of issues of importance to your business and to better show foresters the "consumer" side of the wood business.

Questions?

Any questions that you might have about the survey can be directed to Keith Jacobson by email at: keith.jacobson@dnr.state.mn.us or by phone at: (651) 296-6491.

Thanks again to all of you for your past cooperation, and we look forward to hearing from you in a few months!



Primary & Secondary Forest Product Manufacturer Directories & Other DNR Utilization & Marketing Products Now Available On The Web!

DNR's U&M Program has leaped headlong into the technology of the latter part of the 20th century. Most of our products are now available on the web on the DNR site at the following address: <http://www.dnr.state.mn.us/forestry/um/index.html>

The online Primary and Secondary Manufacturer Directories have the advantage of providing a searchable format, and also of being updated with the most current information available. We think they are a major upgrade to the printed versions for these reasons. Be sure to try them out when you get a chance! Foresters, landowners, and a wide variety of people in wood industry can use these directories to find markets for wood products of all kinds. A feature will soon be added that will allow online users to download information into a PDF file suitable for printing.

DNR U&M Products Available Online:

Minnesota Primary Forest Product Producer Directory - lists sawmills, pulp and paper mills, Oriented Strand Board mills, veneer mills, and dry-kiln facilities in Minnesota.

Minnesota Secondary Forest Product Producer Directory - lists wood-product manufacturing companies, including those that make furniture, cabinets, doors, fixtures, and log homes.

The MarketPlace - Quarterly newsletter published as a service to Minnesota's forest industry. Features articles of general interest to foresters and those in the wood industry and free ads for buyers and sellers of forest products. Distribution to well over 3,000 people quarterly.

Minnesota's Forest Resources - Annual publication with information on Minnesota's forest resources and forest industry, and trends impacting them.

Minnesota's Special Forest Products A 1994 report on marketing opportunities in special forest products including: decorative greenery, dried florals and ornamentals, herbs and medicinals, decorative woods, cones, and smokewoods

Wood Product Business Assistance Directory Designed to help Minnesota's small-to medium-sized wood product businesses find available sources of technical assistance in marketing, financing, and general business areas.

Greg Russell Joins DNR Utilization & Marketing Team

Greg Russell has taken over as DNR Resource Conservation & Development (RC&D) Forestry Coordinator. Steve Vongroven left the RC&D position last winter in order to take a job supervising the DNR's General Andrews Nursery. We welcome Greg to the DNR's Utilization & Marketing (U&M) team. A brief bio follows:

I grew up in the concrete jungle of Detroit, Michigan. I graduated from Michigan Technical University with a B.S. in Forest management in 1980. My first forestry job was with the State of Wyoming, where I worked until the Fall of 1982. I then moved to Minnesota and began my career with the Minnesota DNR. Over the past 22 years, I have done forest inventory in northern Minnesota, worked in the Cambridge District Office, the Hibbing Area Office, and the Willmar Area Office. Most of my career has been as a service forester, where I developed my interest in Utilization and Marketing. The biggest chal-

lenge in my career to date (other than getting my wife – a loggers daughter—to move from the forest to the prairie) has been to find markets for the wood resources in west central Minnesota. As most of the timberlands are owned in small parcels, and the quality of wood is marginal due to past land practices, this really got me into the U&M arena.

I have worked with Prairie Country RC&D for nearly 9 years on local forestry projects, and was intrigued enough by their activities and accomplishments to seek the RC&D Foresters' position when it came open. I am looking forward to working with the other RC&D Councils around the State on a wide variety of U&M projects. I just hope my next 10 years are as rewarding as my last 20+ have been. To borrow a line from the old TV show, Paladin: "Have (paint) gun will travel", will be my motto. I look forward to working with the forest products people around the State. It is nice to be here.

New Study and Brochure on Value-Added Economic Impact of Timber Harvested in Minnesota

Wood products manufacturing is a major contributor to the state's wealth, and much of the raw material driving the industry comes from Minnesota timberlands.

To better evaluate the impact of forest management and timber production on the state's economy, the Minnesota departments of Employment and Economic Development (DEED) and Natural Resources (DNR) recently cooperated on a study. This study found that each dollar of timber sold supports approximately \$41.60 of value-added economic activity in the state's economy! Included in the \$41.60 figure is \$2.72 in income and sales taxes generated.

summarizes selected results of the study is now available. For copies of the brochure or the full study, contact Sharon Schmitz by email at: sharonschmitz@dnr.state.mn.us; or by phone: 651-297-7298.

The study and printing of the brochure were funded by a grant from the US Forest Service State & Private Forestry's "Rural Development Through Forestry" program.



A brochure that

Slashbundler Demonstrations

The use of biomass as a raw material to produce energy and other products has gained attention in recent years. In forestry, the major sources of currently unutilized biomass are in the form of logging residue from harvested sites, and shrubs from brushlands. Wood biomass has the potential to supply energy-producing (and other wood product plants) with at least part of their raw material needs in the future.

Loggers, landowners and land managers may benefit from greater utilization of logging residue and/ or brush on some sites. There is potential to improve aesthetics, reduce fire hazard, help accomplish site preparation prior to regeneration, and to improve wildlife habitat. Greater utilization would also provide some additional income opportunity to loggers and landowners.

The cost associated with gathering, transporting, processing and storing logging residue and brush has been one major hurdle preventing its greater utilization, however. In response to this issue, the Timberjack 1490D is designed to bundle slash from harvesting sites in order to allow more efficient gathering and transport.

Demonstrations

Three demonstrations were carried out this spring at different locations and dates to show field performance and operability of the Timberjack 1490D. They were held in Grand Rapids May 12, 2004 on School Forest land; Sandstone May 18, 2004 on the St. Croix State Forest; and Alexandria May 20, on private land. The demonstrations were well attended. Approximately 250 people total including loggers, private landowners, land managers (forestry and wildlife), conservationists, bioplant managers and investors attended and/ or participated in the demonstrations.

During the demonstrations, it was found that the size of materials (tops and limbs) and tree species do not

greatly affect system performance. However, material configuration on the ground affects system productivity, and moisture content was found to affect bundle structure. The diameter of each bundle of material was found to be approximately 2 feet, and the length can be adjusted between 2 to 10 feet. Each bundle can weigh up to 240 lbs., depending on the tree species and moisture content. The system can produce between 15 and 25 bundles per hour (depending on operating conditions) and up to 60 bundles per acre. Economic studies may be needed to assess economic return on capital investment.

The demonstrations were a cooperative effort between Laurentian RC&D, Minnesota DNR, University of Minnesota Extension, Timberjack, Nortrax, and the Minnesota Agroforestry Cooperative. For more information, contact Jean Mouelle of Minnesota DNR at (651) 772-7567 or jean.mouelle@dnr.state.mn.us.



Timberjack 1490D bundler



Stacks of bundled logging residue

Don't Miss Out!

Building the Capacity of Minnesota's Secondary Wood Products Industry

A Conference Focusing on Creating an Edge for Global
Competition

October 14-16, 2004

Ruttger's Sugar Lake Lodge, Grand Rapids, MN

"How can Minnesota's secondary wood products industry compete in the global marketplace?"

Secondary wood manufacturers are those making a product from previously processed wood materials such as green or kiln-dried lumber. Secondary wood products include cabinets, doors, windows, wood packaging, flooring, and other products. The "Building Capacity" conference is focused on unique issues pertinent to secondary wood product manufacturers.

Organizers hope this conference will help you:

- Learn about opportunities for development of new and existing Minnesota wood products, manufacturing processes, and marketing strategies.
- Leverage Minnesota's unique resources to improve marketing success.
- Increase your enthusiasm, optimism, leadership, and collaboration with your peers
- Deepen and broaden professional and personal contacts with your peers and others

The program will include presentations, exhibits, tours of manufacturing facilities and forests, networking opportunities, and a keynote address by John Brandt, CEO, Manufacturing Performance Institute. Organized under the auspices of the Blandin Foundation's Vital Forests/Vital Communities initiative, other conference sponsors include: Iron Range Resources, Minnesota Power, Natural Resources Research Institute, Northland Foundation, Technologies for the Future, and SOTA TEC Fund.

For more information on the conference, please visit the Blandin Foundation's website at www.blandinfoundation.org/capacity.cfm or call Bernadine Joselyn at 218/327-8728 or email vfvc@blandinfoundation.org.



Minnesota Launches Pilot Certified Wood Chain-of-Custody Industry Group

Approximately 800,000 acres of forest land in Minnesota is certified well-managed under the standards of the Forest Stewardship Council (FSC)

www.fscus.org

This includes county, state, and private forest land. Certification has created a pool of certified resource, but it has also resulted in a marketing challenge because of the lack of chain-of-custody (CoC) certified companies ready to purchase certified raw material and use it to create and market certified finished product.

With support from the McKnight Foundation, the Blandin Foundation, the Minnesota Department of Natural Resources, the Aitkin County Land Department, the Cass County Land Department, and the Natural Resources Con-

servation Service, a group of seven local businesses formed the Upper Mississippi Certified Group (UMCG) as a way of marketing their certified product and reducing the cost to each member of becoming FSC certified. This group came together late in 2003 and is working to develop markets, infrastructure, and inventory, and to create a network of support for each other as they move into broader markets. The UMCG modeled itself after the original chain of custody certified group, Maine WoodNet

www.mainewoodnet.org

Upper Mississippi Certified Group members include retailers, loggers, trucking firms, wood product manufacturers, lumber dryers, sawmills, and a printing and graphics company. One attrac-

tive benefit of membership is the ability of individual members to delegate some of the responsibility for certification and audit paperwork to the group itself. UMCG has a Coordinator, Ross Wagner, who helps member businesses with setting up a tracking system for certified product, and ensures that they are consistently applying the protocols to which the group agreed. Group members are randomly selected for audit by the certifying body (SmartWood™ in this case), so each member must be prepared to undergo an annual audit; the Coordinator helps ensure that this is the case. Details about the individual members can be found at the website <http://www.greatlakescertifiedwood.com/umcg/index.html>

Members receive

benefits that include joint marketing, shared promotional efforts, and reduced costs. These benefits would be available to other small (less than 15 employees or less than \$1m annual sales) wood-based businesses that wanted to form a similar alliance. UMCG members suggest starting with businesses that are in fairly close proximity, and with whom you already enjoy some kind of a business relationship, but any small businesses wanting to form a group could do so. For more information about the UMCG, contact Ross Wagner, Aitkin County Economic Development Coordinator at (218) 927-7305.



Forest Products Wanted

- WANTED 6/4 low-grade hardwood lumber for stake manufacturing, 4", 6", & 8" widths. Contact: Bob Montgomery; Phone (610) 621-2893; Email: ramco@juno.com.
- WANTED White oak or burr oak logs, two clear sides needed: Contact Robert, Staggemeyer Stave Co., Inc, 18318 State Hwy 76, Caledonia, MN 55921; Phone: (507) 725-3395; Fax: (507) 724-3140; Email: stag@acegroup.cc.
- WANTED Black ash veneer logs, 3 clear sides & better, mostly 14" & up, 8'-9'-10' length plus 6" trim, no ring shake. Contact: Ross Hebeisen, High Island Export, Box 346, Isle, MN 56342; Phone: (320) 676-8546; Email: hiisle@ecenet.com

Equipment Wanted

- WANTED Planer heads with knives for an American #65 lumber planer 13/4" shaft. Contact: Eric Collman, 11682 Nordess Rd, Floodwood, MN 55736; Phone: (218) 476-2536; Email: collmans@aol.com.
- WANTED Log cabin tooling for Pendu saw, late model pallet manufacturing, wooden stake & shavings bagging equipment. Contact: Bob; Phone: (610) 621-2893; Email: ramco@juno.com
- WANTED Salvageable skidders, small crawlers & excavators. Contact: Schaefer Enterprises of Wolf Lake, Inc, PO Box 136, 4535 State Rt 3 N, Wolf Lake, IL 62998; Phone: (800) 626-6056 or (618) 833-5498; Fax: (618) 833-7765; Email: parts@sewlparts.com; Website: www.sewlparts.com



Forest Products For Sale

- FOR SALE Northern white cedar products. (1) One set of cabin logs. (2) 12' to 16' logs. (3) 8" posts. (4) 8' dimension lumber and 4"x4"'s. Contact: Duane Maki, Maki Wood Products, 36591 Co. Rd. 39, Deer River, MN 56636; Phone: (218) 246-8738; Email: makidm@paulbunyan.net.
- FOR SALE Plywood, OSB, particleboard and/ or MDF cut to size or shape according to your specifications. (2) Plywood blocks for pallets. Contact: Joe Campbell, Steel City Lumber Company, P.O. Box 36189, Birmingham, AL 35236; Phone: (800) 733-1907; Fax: (205) 733-1709; Email: Joecampbell@bellsouth.net.
- FOR SALE (1) Cedar lumber: 1"x 4", 1"x 6", 2"x 4", 2"x 6", 4"x 4", 4"x 6" dimensions. (2) Rough cedar posts, 3" to 6" diameter, 8' length. (3) Tamarack and ash lumber, various dimensions. Contact: Marvin Hovorka, J. Hovorka & Sons LTD, Box 60, Sprague, MB; Phone: (204) 437-2742; Fax: (204) 437-2032.

Equipment For Sale

- FOR SALE (1) Jackson Lumber Harvester stationary hydraulic sawmill, reconditioned, model IBM-40, 125 hp motor/w electrical panels, motors & starters, 18' two strand log deck w/stop & turner, 2 saw Tower edger, 21' live belt, 2 each 52" & 1 each 50" inserted tooth millsaws, 24' dead roll, pantograph, dial indicator, 5 head block carriage, hydraulic feed set, skidway & log turner, enclosed sawyer's control console, sawmill mounted on heavy full length 5"x12" I beams, complete with track & husk. \$16,400 FOB Cass Lake, MN. Contact: Don LaTourelle, Cass Forest Products; Phone (218) 335-2694; Email: cass@paulbunyan.net.
- FOR SALE (1) Arasmith salvager hog w/50"x50" opening. (2) Prentice model 150 stationary loader w/5th wheel. (3) Rodgers un-nailer w/10" blades. (4) Rip-Jac over & under pallet dismantler. (5) Waechter band resaw. (6) Williams C-32 No-Nife hog. (7) Morbark model 640 debarker. (8) Fastline log merchandiser. (9) Bronco pallet stackers. (10) Lauderdale-Hamilton super chop pop up trimmer. (11) Newman chamfering machine. (12) Cornell double arbor resaw w/cut up system. (13) Cornell remote trim saw. (14) Cornell cant sizer. (15) Pendu diesel powered M5000 gangsaw w/log cabin tooling. (16) Pendu diesel powered A5000 double arbor resaw system. (17) Pendu A4000 w/cutoff. (18) Brewer gang saws. (19) Wilson 4 strand unscrambler w/Corley package deck. (20) Woodpower grinder model T-60. (21) Morbark waste recycler. (22) Hempstead low speed whole pallet grinder. (23) Keystone stake pointers, manual & automatic. Contact: Bob Montgomery; Phone: (610) 621-2893; Email: ramco@juno.com.
- FOR SALE (1) Three Bell 4a dowel machines w/extra blades & setups up 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; Email: drhandles@new.rr.com.
- FOR SALE (1) Saws & knives. (2) Saw bits & shanks. Contact: Jim Moraska, Moraska Saw & Supply Inc, Box 114, Spalding, MI 49886; Phone: (906) 497-5509; Fax: (906) 497-5509.
- FOR SALE Jaw crusher for crushing stone 10"x20" opening, \$3,000 or will trade. Contact: G&G 2525 Westbrook, Magnolia, OH 44643; Phone: (330) 866-9764; Fax: (330) 866-5225; Email: hgg9407@aol.com; Website: <http://www.GGRepair.com>
- FOR SALE (1) Used FAS trac model #307 left hand band sawblade sharpener, sharpens 2-1/2 "-7" wide bands for blades 20' length & under, \$4,500, shipping charges extra. (2) Used inserted saw blades. (3) Authorized dealer for; Simonds, Pacific/Hoe, IKS, Piper, Euro, Frickco, Oleson. Contact: Ruth Bartlett, Harry Schell Sawmill Sales & Supplies, Inc., 601 W Park St, Blue River, WI 53518, Phone: (608) 537-2987; Fax: (608) 537-2032.
- FOR SALE (1) Four sided Yates American molder, extra heads, \$4,000. (2) Assortment of sprockets for green chain or log decks, mostly new. (3) Large spray paint booth for painting or sand blasting, \$500. (4) Assortment of large v-belts, C & D width. (5) Debarker w/20' infeed live deck, extra spare heads, needs some work, \$3,000. (6) Single head pallet knotcher, \$1,500. (7) Large bull edger, \$2,500. (8) 10 hp sawdust blower & dust collector, \$900. Contact: Dave Volvsek, Dave Volvsek Lumber LLC, W7355 Mann Rd, Greenwood, WI 54437. Phone: (715) 267-6517; Fax: (715) 267-7179.
- FOR SALE (1) Bark processing plant; conveyor & hopper infeed, first big roller screen, Patz chain conveyor under screen, Patz inclined chain conveyor, second roller screen w/conveyor transfer, 40' Patz inclined chain conveyor, Nugget conveyor, all required electric motors,

starters, switches, wiring, etc. (2) Cornell blowers, edgers, trimmers, notchers, slabsaws, log cleaners, unscrambler, decks. (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. (10) Jonsered chainsaws. (11) Dixon sawmills, edgers, conveyors, log turners, hydra-dogs, pallet notchers, debarkers, slab edgers, trimsaws, decks, rollcases, small hydraulic loaders & trailers. (12) Trailers w/loaders for 4-wheelers. (13) Safe-T-Shelters, storm shelters. (14) Over 100 used electric motors & electrical equipment. (15) Used sawmill machinery. Contact: Rusch Equipment Sales, 400 Rusch Rd, Antigo, WI 54409; Phone: (715) 627-4361; Fax: (715) 627-4375.

FOR SALE (1) Jackson vertical edger. Contact: Jackson Lumber Harvester Co., Inc., 830 N State Rd 37, Mondovi, WI 54755; Phone: (715) 926-3816; Fax: (715) 926-4545; Email: info@jacksonlbrharvester.com; Web: www.jacksonlbrharvester.com.

FOR SALE (1) Carbide saw tips & blanks. (2) Notcher & sizer inserts. (3) Diamond & CBN grinding wheels. (4) Industrial knives. (5) Carbide-tipped saw blades. (6) Saw sharpening & grinding machines. (7) Saw servicing supplies. Contact: Joyce R. Mosher, International Carbide & Engineering, Inc., P.O. Box 216, 5000 Main St, Drakes Branch, VA, 23937-0216; Phone: (800)424-3311; (434) 568-3311; Fax: (434) 568-3421; Email: joyce@ice-va.com; Web: www.ice-va.com.

FOR SALE (1) 2001 JD 444H w/ac & heat. (2) 2002 Case 521D, w/qc, forks & bucket. (3) 2002 TJ 360D grapple. (4) 2000 TJ 350 cable. (5) 2000 JD 648G 11. (6) 1998 Cat 515 grapple. (7) 1997 TJ 360 grapple. (8) 1996 JD 548G. (9) 1994 JD 548E. (10) 1990 JD 548D. (11) 1990 JD 640D cable. (12) 1985 JD 440D. (13) 1998 Prentice 210E w/saw. (14) 1995 Barko 160B w/saw. (15) 1995 self-propelled Prentice 210D w/aux hydra & pup trailer. (16) 1998 TK 723T w/Reilly II head. (17) 1998 JD 643G w/Koehring saw head. (18) Hydra-ax 221 w/16" shear. (19) 1995 Cat 312 w/Tigercat saw head. (20) 1988 Franklin pre-hauler w/Prentice. (21) 1985 Ford 8000 w/boom. (22) Rotobec 60" cont. turn, by-pass grapple. (23) Band & circular sawmills, portable & stationary. (24) Selection of chip-pacs & debarkers. Contact: Weber Forest Machinery; Phone: (615) 373-8809; Email: gary@timberlinemag.com.

FOR SALE Bank Liquidation: (1) 1999 C-16 debarker. (2) 1999 L&M cut off system. (3) 1999 Baker scragg. (4) 1999 Baker single. (5) Morgan edger. (6) 1999 Baker 3 saw trim. (7) 2002 Baker 5 saw trim. (8) 2002 Baker 3 head band. (9) West Plains notcher. (10) Conveyors. (11) 25 hp compressor & dryer. (12) Northland kiln. (13) 2 dump bins. (14) Dust system. (15) 2003 Morgan 2 saw trimmer. (16) 2003 30" Cornell blower. (17) Cyclone w/pipe. (18) Baker 12' 3 strand deck. (19) Baker 20' 2 strand deck. (20) Approximately 40 acres of land w/ 60' x 100' heated commercial building. Contact: Roger Houg, Peoples National Bank of Mora, 15 Minnesota Ave, Aitkin, MN 56431; Phone: (218) 927-3716; Fax: (218) 927-2876.

FOR SALE Commercial wood chipper, electric start, Ford industrial engine, top discharge, 12-14" throat, ball hitch & jack, newly sharpened blades, \$2,400 (Located in Ottertail County). Contact: J. Stenseth; Phone: (612) 721-5206.

FOR SALE (1) Roto-saw, 18" w/tilt, \$3,500. (2) Roto-saw, 22" w/tilt, \$4,800. Skidders: (3) 1978 TF, cable, 24.5" x 32" tires & chains, \$11,500. (4) 1978 Clark, cable, 24.5" x 32" tires, \$12,000. (5) 1964 TJ 200, cable, gas, 16.9" x 30" tires, \$7,000. (6) New skidder chains & used parts. Contact: Huber Logging, Box 31, Mine Center, Ontario, Canada, POW1HO; Phone: (807) 599-2833; Fax: (807) 599-2822.

FOR SALE (1) Used parts for skidders, small crawlers & excavators. (2) 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, Tree Farmer & Trojan. (3) Engines, transmissions & tires. Contact: Dianne Chaffin, Schaefer-Entrprises of Wolf Lake, Inc, P.O. Box 136, 4535 State Rt 3 N, Wolf Lake, IL, 62998; Phone: (618) 833-5498; Email:parts@sewlparts.com; Web Site: www.sewlparts.com.

FOR SALE (1) Older Barko 160 loader mounted on 1976 Chev tandem, both need engine work, with 60" Sirro slasher, can separate. (2) Complete grapple & boom for smaller skidder. Contact: Jerry Shuster, 11613 Willow River Rd., Gheen, MN 55771-9018; Phone: (218) 787-2264.



Services and Miscellaneous

SERVICES We make factory cart truck stakes & replacement parts, and 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; Email: drhandles@new.rr.com.

SERVICES On-site repair and instruction on planers, molders & flooring machinery. Contact: Larry Holtz, Midwest Planer Service, N462 Robin Dr, Stetsonville, WI 54480; Phone: (715) 678-2080; Fax: (715) 678-2402; Email: midwestplanerservice@excite.com.

SERVICES Structural engineering, log & heavy timber frame homes, unusual foundation problems solved. MN & WI registration. Contact: John Wilkinson, Consulting Engineer, 604 2nd Ave N, Sartell, MN 56377; Phone: (320) 253-1019; or (563) 547-1078.

SERVICES Custom log sawing with a Woodmizer band sawmill on your site. Will travel statewide. Contact: Ed Pogreba, Ed's Custom Log Sawing, 3850 15th St. NE, Sauk Rapids, MN 56379; Phone: (320) 252-1711.

SERVICES Complete saw & knife repairs, mill saws, band saws, carbide saws, slasher saws, planer knives, chipper knives, saw bits & shanks. Contact: Jim Moraska, Moraska Saw & Supply Inc; Box 114, Spalding, MI 49886; Phone: (906) 497-5509; Fax: (906) 497-5509.

SERVICES Reconditions Montgomery hog teeth, anvils, rings & Zeno grinding machine cutters. Contact: G&G, 2525 Westbrook, Magnolia, OH 44643; Phone: (330) 866-9764; Fax: (330) 866-5225; Email: hgg9407@aol.com; Website: <http://www.GGRepair.com>.

SERVICES Circular, band & carbide saw blade repair. Contact: Harry R. Schell Sawmill Sales & Supplies Inc, 601 W Park St, Blue River, WI 53518; Phone: (608) 537-2987; Fax: (608) 537-2032; Order Line: (800) 462-5807.

SERVICES Hardwood dry kiln operator's short course, September 21-24, 2004. Haywood Community College, Clyde, North Carolina. Contact: Joe Denig, N Carolina State University, Campus Box 8003, Raleigh, NC 27695; Phone: (919) 515-5582; Fax: (919) 515-8739; Email: Joe_Denig@ncsu.edu.

SERVICES (1) Custom design carbide & diamond sawblades. (2) CBN grinding wheels. (3) Saw & tool sharpening & repair. Contact: Joyce Mosher, International Carbide & Engineering, Inc., P.O. Box 216, 5000 Main St, Drakes Branch, VA 23937-0216; Phone: (800) 424-3311; (434) 568-3311; Fax: (434) 568-3421; Email: joyce@ice-va.com; Web: www.ice-va.com.

Employment Opportunity

WANTED Lumber Grader. St. Croix Valley Hardwoods in Luck, WI, has a job opening for an experienced lumber grader. An NHLA graduate with work experience is preferred, but a non-graduate with extensive work experience is acceptable. Contact: Paul Stapel, St. Croix Valley Hardwoods, Box 120, Luck, WI 54853; Phone: (715) 472-8994; Fax: (715) 472-4751; Email: pstapel@scvh-luck.com.

Miscellaneous For Sale

FOR SALE (1) Anchorseal end sealer for green logs & lumber, a wax emulsion end sealer which reduces end checking in newly sawn green hardwood & softwood logs & lumber, available in clear & colors; free samples available. (2) LogSavers & FitchSavers – Plastic S-irons for logs & veneer fitches; can be sawn or sliced through w/out damaging equipment. Contact: U-C Coatings Corp, PO Box 1066M, Buffalo, NY 14215; Phone: (716) 833-9366; Fax: (716) 833-0120; Email: mnmkt@ucoating.com; Website: www.uccoatings.com.

Special Forest Product Directory Opportunity

Special Forest Products are seeds, burls, herbs, berries, and other (non-timber) raw materials that are gathered from forests. A marketing directory is being prepared to better connect the harvesters (suppliers) and the purchasers of these materials. To be included in this new directory, please complete the survey on-line at: www.surveymonkey.com/s.asp?u=68847513330, or call Phil Monson at the University of Minnesota Extension Service, Cloquet Regional Center, at: (218) 726-6471.

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 timber producing and wood using industries of the state by providing relevant information on Minnesota's 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>. Subscribers include small and large businesses in Minnesota's forest products industry, forest resource managers, and some forest landowners. Persons can begin receiving the bulletin, or cancel a current subscription, by making a request by phone at: (651) 296-6491 or by email: keith.jacobson@dnr.state.mn.us. We love subscribers, but if you no longer use the Bulletin, please cancel your subscription and help us stretch our budget.

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

Keith Jacobson, St. Paul; 651-296-6491; Email: keith.jacobson@dnr.state.mn.us

Rick Dahlman, St. Paul; 651-296-6502; Email: rick.dahlman@dnr.state.mn.us

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

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

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

Jean Mouelle, Central Region, St. Paul; 651-772-7567; Email: jean.mouelle@dnr.state.mn.us

Lance Sorensen, Southern Region, Lake City; 651-345-3216; Email: lance.Sorensen@dnr.state.mn.us

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

DNR Forestry Timber Auction Sales

Date	Auction Type	Sale Name	Location
Sept 14	Regular	Camp Ripley (DMA) Timber Sale	Range Control Building, Camp Ripley
Sept 16	Regular	Bemidji-Bagley Area	Bagley Forestry Office
Sept 16	Intermediate	Bemidji-Bagley Area	Bagley Forestry Office
Sept 23	Regular	Little Falls Area	Onamia DNR - Forestry Office
Sept 23	Intermediate	Little Falls Area	Onamia DNR- Forestry Office
Oct 1	Regular	Two Harbors Area (West Half)	Two Harbors DNR – Forestry Office
Oct 11	Regular	Two Harbors Area (East Half)	Cook County Courthouse
Oct 12	Regular	Park Rapids – Detroit Lakes Area	Park Rapids Environ Ed. Building
Oct 15	Regular	Bemidji Area	Bemidji Area DNR- Forestry Office
Oct 22	Regular	Houston and Fillmore County	Rushford Fire Hall
Dec 2	Intermediate	Littlefork Area	Littlefork Community Bldg
Dec 2	Regular	Littlefork Area	Littlefork Community Bldg
Dec 6	Regular	Aitkin Area	Long Lake Conservation Center
Dec 6	Intermediate	Aitkin Area	Long Lake Conservation Center
Dec 7	Regular	Baudette Area	Baudette DNR – Forestry Office
Dec 7	Intermediate	Baudette Area	Baudette DNR – Forestry Office
Dec 7	Regular	Orr and Tower Areas	Orr City Hall
Dec 7	Intermediate	Orr and Tower Areas	Orr City Hall
Dec 9	Regular	Warroad - Wannaska Area	Grygla Town Hall
Dec 9	Intermediate	Warroad - Wannaska Area	Grygla Town Hall
Dec 9	Regular	Cloquet Area	Cloquet DNR – Forestry Office
Dec 9	Intermediate	Cloquet Area	Cloquet DNR – Forestry Office
Dec 14	Regular	Deer River and Effie Area	Bigfork Village Hall
Dec 14	Intermediate	Deer River and Effie Area	Bigfork Village Hall
Dec 15	Regular	Blackduck Area	Blackduck Senior Center
Dec 15	Intermediate	Blackduck Area	Blackduck Senior Center
Dec 15	Regular	Brainerd Area	Brainerd Area DNR- Forestry Office
Dec 15	Intermediate	Brainerd Area	Brainerd Area DNR- Forestry Office
Dec 16	Regular	Hibbing Area	Iron World, Chisholm
Dec 16	Intermediate	Hibbing Area	Iron World, Chisholm
Dec 17	Regular	Houston and Olmsted County	Rushford Fire Hall



The Market Place
 DNR Forestry
 500 Lafayette Rd
 St. Paul, MN 55155-4044
 Website: <http://www.dnr.state.mn.us/finfo/luse/harvest.htm>

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