Instructions for "ROUNDWOOD RECEIVED FOR PROCESSING, Composite-Fuel"

This instruction sheet is provided to help you fill out the "ROUNDWOOD RECEIVED FOR PROCESSING, Composite-Fuel" s
This form has been designed to determine the location, size, and composition of the primary wood-using mills in your State, the volume of roundwood harvested by product, species, and geographic location, and the volume and disposition of wood residues generated during primary processing for the calendar year indicated. Your cooperation completing this form for your mill will make the results of this survey comprehensive, accurate, and timely. All information is held in confidentiality and used only for statistical reports. No individual mill production data will be released. Your cooperation is appreciated.

ROUNDWOOD is defined as any log, bolt, or other round section (including chips from roundwoo cut from trees for industrial or consumer use. This includes saw logs, veneer logs, cooperage lo and bolts, pilings, poles, posts, hewn ties, and various other round, split, or hewn products.

Page 1 -- Mill Information (This page only needs to be completed once per mill location.)

* Fill in the Business/Company name and mailing address. Also record the name and phone number of the owner, manager, or person that can be contacted if there are any questions concerning the information on the survey form.
* Record the address of the actual mill location if different from the business/company mailing address.
* Record the name of the County in which the mill is located. If Latitude and Longitude of mill location are available, they may be entered.
* If the mill is part of a larger, Parent company, record the Parent company name and address.
* Check the box if No wood was received at this mill location during the calender year of the survey. If no wood was received, no further information is needed. Please return the form in the enclosed envelope.
* Check the box under "Type of Roundwood Processed" that indicates the type of roundwood received at the mill for processing. If the mill processes more than one type of roundwood, complete a separate form for each.
* Enter the annual capacity of the mill when operating at full capacity, and indicate the unit of measure.
* Enter the number of employees, when the mill was established, and the mill status during the survey year.
* Check the box if you want the mill name and address to be withheld from "Regional/Statewide Industry" directories.
* Check the box to be to notified about the report resulting from this study.

Page 2 -- SECTION 2. ORIGINS AND SPECIES OF ROUNDWOOD PROCESSED

(This page should be completed for each 'Type of Roundwood Processed' in section 2.1)

* Check the box under "Type of Roundwood Processed" that indicates the type of roundwood received at the mill for processing. If the mill processes more than one type of roundwood, complete a separate form for each.
* Enter the total volume of roundwood received at the mill for the 'Type of Roundwood Processed' checked in Section 2.1, the unit of measure for softwood and hardwood, and the average log length and top diameter of logs processed at the mill. If the Unit of Mearsure is a weight measurement, please indicate the conversion factor the mill uses for pounds per board foot or cord.
* Indicate if the mill processes any logs from cities or towns (urban areas), and if so, what percent of the reported total volume of roundwood received came from cities or towns (urban areas).
* Indicate what percent of the reported of the total volume of roundwood received came from salvaged dead trees.
* Enter the amount or percent of each species group processed at the mill for the Raw Material (Logs/Roundwood) checked in Section 2.1. Break out the amount/percent by Roundwood, Whole tree chips or In-woods-chips (WTC and peeled roundwood or peeled and chipped. Enter "W" in the 'Roundwood, WTC (W), Peeled (P)' colume for tl amount/percent of wood that is whole tree chips or in-woods-chips. Enter "P" for the amount/percent that is peele or peeled and chipped. Leave blank for bark on roundwood logs. Across the columns at the top of the table, ente State and county, and foreign Country that the Raw Material (Logs/Roundwood) came from. Then fill in the table entering the amount or percent of each species that came from each county. If the species is not listed, enter it ir the last three rows labeled "Other:" A species list is at the bottom of page. If you need more space, please duplicate this form.

(Continued on next page.)

Instructions for "ROUNDWOOD RECEIVED FOR PROCESSING, Composite-Fuel" (continued)

Page 3-- SECTION 3. Mill equipment, wood process type, products produced, production amounts, and boiler/hog fuel, amounts.

(This page only needs to be completed once per mill location.)

* Check the wood process type and mill equipment found at the mill.
* Enter the percent of the group for each type of product produced at the mill.
* Enter the total amount produced for each 'Type of Roundwood Processed' in section 2.1, the unit of measure, and the amount of finished product exported out of the United States.
* If the mill receives mill residuses from other wood-using mills, enter the State or Foreign Country of origin. Whole tree chips or in-woods-chips should be entered on Page 2. Enter the amount of mill residues under the type of mill residue received from each State or Foreign Country by softwoods and hardwoods. Indicate the unit of measure reported in.
* If the mill receives roundwood, in-woods chips, whole-tree chips, and/or tops and limbwood used for Boiler/hog fuel/industri fuel, record the total amount by State of origin, and softwoods and hardwood, and indicate the unit of measure.

Pages 4 -- SECTION II. DISPOSAL OF BARK AND WOOD RESIDUES GENERATED

(This page should be completed for each 'Type of Roundwood Processed' in section 2.1.)

* Check the box under "Type of Roundwood Processed" that indicates the type of roundwood received at the mill for processing. If the mill processes more than one type of roundwood, complete a separate form for each.
* Enter the amount of mill residues that were generated by processing the type of Raw Material (Logs/Roundwood) Section 4.1 for each type of mill residue and for Softwoods and Hardwoods. Indicate the "Unit of Measure."
* Enter the percent for each type of "USE OF MILL RESIDUE" by the type of mill residue, and Softwoods and Hardwoods. The columns should sum to 100%.

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FOREST SERVICE, U.S. DEPARTMENT OF AGRICULTURE
Northern Research Station
1992 Folwell Avenue
St. Paul, Minnesota 55108

Form Approved
OMB No. 0596-0010
Expires: ***date***

ROUNDWOOD RECEIVED FOR PROCESSING, Composite-Fuel, *STATE, year*

Section 1.1

Business/Company Name: _____

Mailing Address: _____

City/State/Zip code: _____

Phone number: _____ Fax number: _____

Company website: _____ Company e-mail: _____

Contact Name and Title: _____ Title: _____

Mailing Address: _____

City/State/Zip code: _____

Phone number: _____ e-mail address: _____

Mill physical location if different from mill mailing address

Mill physical address: _____

City/State/Zip code: _____

County mill is located in: _____ Latitude of mill: _____ Longitude of mill: _____

Parent Company Name (if different from Mill Name**):** _____

Mailing Address: _____

City/State/Zip code: _____

Phone number: _____ Fax number: _____

☐ Check here if "NO" wood was processed during the calendar year and return form. No further information is needed.

Instructions: This form is for reporting the quantities and types of logs received by this mill in, and the disposal of plant residues resulting from the manufacturing or processing of wood products. Please complete this form and return it promptly. If complete records are not available, please give your best estimates. **Do not include logs or bolts sold or treansferred to another primary processing plant. Complete page 2 and 4 for each 'Type of Roundwood Processed' checked in Section 1.2 below. Only 1 page 1 and 3 need to be completed for each mill.** This survey is voluntary. While you are not required to respond your cooperation is needed to make the results of the survey comprehensive, accurate, and timely. **ALL VOLUMES REPORTED WILL BE HELD CONFIDENTIAL AND WILL ONLY BE USED TO AGGREGATE TO THE COUNTY AND STATE LEVEL.**

Section 1.2

Type of Roundwood Processed:

☐ Composite panel/Engineered wood product mill ☐ Industrial fuelwood/Biomass/energy plant

Annual mill capacity (volume per year when operating at full capacity): _____ Unit of measure: _____

Number of employees: _____ Year mill established: _____

Mill status (check one): ____ Active ____ New ____ Idle ____ Closed/Out of Business ____ Dismantled

☐ Check here if you want the mill's name and address to be withheld from "Regional/Statewide Industry" directories.

☐ Check here if you wish to notified about the report resulting from this study.

For Official Use Only.

Interviewer's Name and Title: _____ Phone: _____ Date of Interview: _____

Interview type: mail _____ phone _____ personal contact _____ e-mail _____

MILL_NBR: _____ State: _ _ County: _____ Product: _____ Total volume: _____

Section 2. ORIGINS AND SPECIES OF ROUNDWOOD PROCESSED

ROUNDWOOD is defined as any log, bolt, or other round section (including chips from roundwood) cut from trees for industrial or consumer use.
This includes saw logs, veneer logs, cooperage logs and bolts, pilings, poles, posts, hewn ties, and various other round, split, or hewn products.

2.1. Type of Roundwood Processed (check one). From Section 1.2

☐ Composite panel/Engineered wood product mill ☐ Industrial fuelwood/Biomass/energy plant

2.2. Amount of Roundwood received and processed at the mill.

Enter the TOTAL amount of Raw Material (Logs/Roundwood) received and processed at the mill for the 'Type of Rooundwood Processed' checked in 2.1 above.	**Softwood** Unit of Measure (from list at right)	**Hardwood** Unit of Measure (from list at right)	If Unit of measure is a weight, enter **Softwood** Weight conversion factor	If Unit of measure is a weight, enter **Hardwood** Weight conversion factor	Average Log Length (in feet)	Average Log Top Diameter (in inches)	**Units of Measure:** 21 - Standard cord (4' X 4' X 8') 22 - Lake States cord (4' X 4' X 100") 31 - Green tons (short, 2,000 lbs) 33 - Green metric tonnes 43 - Thousand cubic feet 47 - Thousand cubic meters 99 - Other (specify):_____
Amount: _____			____lbs. per cord	____lbs. per cord			

Do you process any logs from cities or towns (urban areas) at your mill? ☐ YES ☐ NO If YES, what percent of the total roundwood received was urban wood in ***year***? _____%

What percent of the total roundwood received was from salvaged dead trees from forested areas? _____%

2.3.Species and Origin of roundwood received at mill.

Please enter the amount or percent of roundwood received, broken out by roundwood, whole tree chips (WTC), and peeled roundwood or peeled and chipped roundwood.
Enter "W" in the 'Roundwood, WTC (W), Peeled (P)' colume for amount of whole tree chips, and "P" for roundwood amounts that are peeled, including peeled and chipped.
Please complete the matrix to the best of your knowledge. If you don't know the exact origin please give approximate values for the top counties within the mill's procurement zone

			Provide county name as headings for column below. If out of state or foreign origin please specify state or Country. Add additional sheets as needed.											**Total All Counties**
Species Group Name	**Amount received by spp**	**Roundwood, WTC (W), Peeled (P)**												
Cedar/juniper														100%
Balsam fir														100%
Jack pine														100%
Red pine														100%
White pine														100%
Other pine														100%
Ash														100%
Aspen/balsam poplar														100%
Basswood														100%
Yellow birch														100%
White (paper) birch														100%
Other birch														100%
Black cherry														100%
Black walnut														100%
Cottonwood														100%
Elm														100%
Hickory														100%
Hard maple														100%
Soft maple														100%
Yellow-poplar														100%
Red oak														100%
White oak														100%
Other: from list below _____														100%
Other: from list below _____														100%

Other species

Cypres	Hemlock	Ponderosa/Jeffrey pine	Longleaf/slash pine	Sugar pine	Spruce	Alder	Beech	Tupelo/black gum
Douglas-fir	Loblolly/shortleaf pine	Lodgepole pine	Lodgepole pine	Tamarack/larch	Redwood	Sweetgum	Sycamore	Other hardwoods not listed

Section 3 - Mill equipment, wood process type, products produced, production amounts, and boiler/hog fuel, amounts.

3.1. Check type of equipment in use.

Wood process type
_____Sulfite
_____Kraft
_____Groundwood/Mechanical
_____Semichemical
_____Kraft/Groundwood
_____Thermochemical
_____Thermomecnanical
_____Pelletizer
_____Other - specify _____

Equipment
_____Slab chipper
_____Chipper
_____Debarker
_____Dry kiln
_____Treating equipment
_____Chip Canter
_____Shaving machine
_____Hammer mill

Equipment
_____Firewood Processor
_____Wood-fired boiler
_____Optimizer equipment
_____Machine stress-rating
_____Other - specify _____
_____Other - specify _____

Section 3.2 -- Products produced from logs received in *year*.

Enter the percent of the total for each group of products produced from logs, or chipped logs.
Do not include products that are produced from mill residues such as bark, sawdust, planer shavings, slabs, etc.

Composite panel/Engineered wood products
____% 401 - Oriented Strand Board (OSB)
____% 402 - Particle board
____% 403 - Wafer board
____% 404 - Hardboard
____% 405 - Medium density fiber board (MDF)
____% 406 - Laminated veneer lumber (LVL)
____% 407 - Other engineered product -
Specify: _____

Charcoal
____% 520 - Charcoal/briquettes

Bioenergy/Fuelwood
____% 500 - Industrial fuelwood (co-gen,steam,etc)
____% 501 - Industrial fuelwood - electricity/power
____% 502 - Industrial fuelwood - heat/steam
____% 510 - Pellets
____% 511 - Pellets - Residential grade
____% 512 - Pellets - Torrefied
____% 513 - Pellets/briquettes - Industrial grade
____% 514 - Pellets - other(please specify)
____% 530 - Pressed/reconstituted logs (Presto)
____% 540 - Liquid fuels
____% 541 - Liquid fuels - Ethanol
____% 542 - Liquid fuels - Other (aviation fuel,etc)
____% 550 - Other energy products -
Specify: _____

Other miscellaneous products
____% 1101 - Mulch, soil additives, compost
____% 1102 - Chemical extractives
____% 1105 - Shavings/excelsior (packing material, bedding, etc.)
____% 1106 - Novelty
____% 1107 - Foreign Export logs
____% 1108 - Other -
Specify: _____

Section 3.3 -- Volume of product produced from Raw Material (Logs/Roundwood) Processed in *year*.

Please enter amount of mill product produced in **year** from each type of RAW MATERIAL (Logs/roundwood) by softwoods and hardwoods.

Product Produced	Amount	Unit of Measure (codes at right)
Composite panel/ Engineered wood products		
Bioenergy/Fuelwood		
Other - specify: _____		

Units of Measure
31 - Green tons
32 - Dry tons
72 - Thousand Square Feet
99 - Other (specify): _____

Do you export finished product out of the Country? ____ NO ____YES. Percent of finished product exported out of the United States: _____%.

Section 3.4 -- PLANT BYPRODUCTS RECEIVED FOR USE IN PRODUCTION OF COMPOSITE PANELS OR INDUSTRIAL FUELWOOD

Instructions: Select the unit of measure the volume is reported in. Indicate the State of origin, plant byproduct, and the volume each species group received.
Wood chips are chips from coarse mill residues. Whole tree chip volumes should be recorded as roundwood on page 2.

Check only one Unit of Measure
XX
____ Standard cord
____ Dry tons
____ Green tons
____ Other (specify): _____

Origin of byproduct		Wood chips		Sawdust		Other byproducts	
State or foreign Country	ST code (office use)	Softwood	Hardwood	Softwood	Hardwood	Softwood	Hardwood

Section 3.5 -- Volume of hog fuel/industrial fuelwood received in *year*. (Composite panel/Engineered wood product mills only)

Please record the volume/amount of in-woods chips, whole-tree chips, and/or tops and limbwood used for Boiler/hog fuel/industrial fuelwood that you received at the mill in *year*.

State or foreign Country	ST code (office use)	Boiler/hog fuel volume	
		Softwood	Hardwood

Check the unit of Measure used (only one)
____Dry tons
____Green tons
____Thousand cu. ft.
____Other (specify): _____

Section 4—MILL RESIDUE and MILL RESIDUE USE for (year)

☐ **Check if no residues are produced, everything goes into product. If no residues are produced. Skip sections 4.1, 4.2, and 4.3.**

4.1. Type of Roundwood Processed (check one). From Section 1.2

☐ Composite panel/Engineered wood product mill ☐ Industrial fuelwood/Biomass/energy plant

4.2. Please enter the amount of mill residue produced by this mill.

Type of Residue	**Softwood**	**Hardwood**	**Unit of Measure** (example: green tons, dry tons, thousand cubic feet, etc.)
Bark			
Coarse (chips, slabs, edgings, trims, cores, etc.)			
Fine - Shavings (Planer or Lathe)			
Fine - Sawdust			
Whole logs or short sections chipped or not processed as mills primary product			

4.3. Disposal of mill residues

Instructions: For each type of wood residue generated at your mill, enter the percentage that was disposed of by the various means. Each column should sum to 100% for each species group recorded.

	BARK		**COARSE** (chips, slabs, edgings, trims, cores, etc.)		**FINE** Shavings (Planer or Lathe)		**FINE** Sawdust		**WHOLE LOGS/SHORT SECTIONS**	
Disposal of Mill Residues	Softwood %	Hardwood %	Softwood %	Hardwood %	Softwood %	Hardwood %	Softwood %	Hardwood %	Softwood %	Hardwood %
Manufacture of fiber/composite products										
Small dimension and other sawn products										
Charcoal or chemical wood										
Industrial fuel at this plant (on-site)										
Industrial fuel at other plants										
Bio-energy pellets										
Other Bio-energy products (biodiesel,etc)										
Residential fuelwood										
Mulch/Soil additive (includes biochar)										
Animal bedding										
Other misc. uses- please specify: _____										
NOT USED (land fill, burned, etc.)										
TOTAL	**100%**	**100%**	**100%**	**100%**	**100%**	**100%**	**100%**	**100%**	**100%**	**100%**