Expertise in Primary and Secondary Solid-Wood Processing Available from State, Federal, and University Sources
The following list includes USDA Forest Service, state, and University personnel with expertise in primary and secondary solid-wood processing, particularly with respect to lumber sawing and cut-up operations, and issues related to product yield, mill productivity, and markets. Experts within these three groups are listed by region: Northeast, Mid-Atlantic, South, Midwest, and West. The Forest Service considers all public inquiries to be high priority regardless of the home state of the customer making the inquiry. State and university experts may be more restricted in their ability to assist out-of-state customers.

Many of the experts listed have published information about their programs as well as study results on the Internet. These publications usually can be accessed by entering their name and institution into your favorite search engine.

The listing includes six quick-find numerical codes that correspond to various areas of expertise: (1) primary processing, (2) secondary processing, (3) markets, sales, and supply, (4) machine and tooling, (5) drying, and (6) residues and recycling.

This listing is current as of October 2002. To obtain similar information related to forestry, rural development, and forest products industry assistance providers, consult the Forest Products Conservation and Recycling Personnel Directory (2002) published by the Technology Marketing Unit of the Forest Products Laboratory, Madison, WI. You can request a copy by calling 608-231-9504, or download the directory from: www.fpl.fs.fed.us/tmu/welcome.htm (select Techlines and Publications and then Technology Marketing Unit’s Special Reports).
FOREST SERVICE – NORTHEAST

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  **Areas of Expertise:** 1,5,6
  Hardwood and softwood lumber drying, primary processing, residue utilization

FOREST SERVICE – MID-ATLANTIC

- Delton Alderman, Forest Products Scientist
  USDA Forest Service, Princeton, WV
  Phone: 304-431-2734   Fax: 304-431-2772
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  **Areas of Expertise:** 1,3
  Underutilized species distribution and market development, veneer log-quality specifications, quality and markets for white pine

- Phil Araman, Project Leader
  USDA Forest Service, Blacksburg, VA
  Phone: 540-231-5341   Fax: 540-231-8868
  Email: paraman@vt.edu

  **Areas of Expertise:** 1,2,3,4,6
  Domestic and international markets for dimension parts, scanning systems, rough-mill yield, pallet production, wood recycling

- John Baumgras, Project Leader
  USDA Forest Service, Princeton, WV
  Phone: 304-431-2701   Fax: 304-431-2772
  Email: jbaumgras@fs.fed.us

  **Areas of Expertise:** 1
  Log bucking and merchandising, log-quality requirements for different industry sectors, timber management and wood quality
• **Matt Bumgardner**, Forest Products Scientist  
USDA Forest Service, Princeton, WV  
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Fax: 304-431-2772  
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Areas of Expertise: 3  
Solid-wood markets, low-grade log distribution and markets, character-marked furniture markets

• **Ed Cesa**, Forest Products Specialist  
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Areas of Expertise: 1,3,6  
Forest products markets, wood in transportation, utilization of urban trees

• **Bruce Hansen**, Project Leader  
USDA Forest Service, Princeton, WV  
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Areas of Expertise: 3,6  
Hardwood export data and markets, financial feasibility of capital investments, business plan development, industrial timber-products output

• **Bill Luppold**, Project Leader  
USDA Forest Service, Princeton, WV  
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Areas of Expertise: 1,3  
Hardwood lumber markets and pricing, market impacts on resource distribution, timber and product-quality relationships

• **Ed Thomas**, Computer Scientist  
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Areas of Expertise: 1,2,4  
Rough-mill yield simulation, optimizing saws and systems, log scanning
Jan Wiedenbeck, Forest Products Scientist
USDA Forest Service, Princeton, WV
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Areas of Expertise: 1,2
Rough-mill yield, sawmilling efficiency/recovery, log quality

FOREST SERVICE – SOUTH

Alex Clark, Forest Products Scientist
USDA Forest Service, Athens, GA
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Areas of Expertise: 1
Growth and yield of southern yellow pine

FOREST SERVICE – MIDWEST

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USDA Forest Service, St. Paul, MN
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Areas of Expertise: 2,3,6
Sawmill production of green dimension, business plan development, marketing, recycling of urban wood, certified forest products

Rusty Dramm, Forest Products Specialist
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Areas of Expertise: 1,2,3,6
Sawmill analysis, lumber-size control, wood products markets

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Areas of Expertise: 5
Hardwood and softwood lumber-drying schedules, heat treatment of wood products
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USDA Forest Service, Portland, OR
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Areas of Expertise: 1
Wood quality, softwood lumber manufacturing, small-log utilization, technology transfer

Geoffrey Donovan, Research Economist
USDA Forest Service, Sitka, AK
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Areas of Expertise: 3
Forest products value-added markets, markets for alternative lumber grades and species

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Areas of Expertise: 1,2,3,5,6
Sawmilling, lumber drying, economic development, value-added markets

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Areas of Expertise: 1,2
Western hardwood sawmill recovery, value-added manufacturing systems, small-log utilization

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Areas of Expertise: 1,2,3,6
Value-added markets and processing systems for underutilized species/resources, residue utilization in energy markets
UNIVERSITY/STATE – NORTHEAST

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  **Areas of Expertise:** 1,3,5
  Primary wood processing, short-log processing, value-added opportunities, lumber handling and drying

- **Gordon Boyce**, Wood Utilization Specialist
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  **Areas of Expertise:** 1,3,6
  Wood biomass for energy, small-log utilization, primary processing, wood markets, low-impact logging

- **Sloane Crawford**, Wood Utilization Specialist
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  **Areas of Expertise:** 1,3,6
  Primary hardwood processing and markets, resource trends

- **Jack Dwyer**, Chief of Marketing and Utilization
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  **Areas of Expertise:** 1,3,6
  Sawmilling, log grading, hardwood markets, residue markets, wood energy
Paul Frederick, Wood Utilization Specialist  
Vermont Department of Forests, Parks & Recreation, Waterbury  
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Areas of Expertise:  1  
Primary wood processing

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Areas of Expertise:  1,5  
Hardwood sawmill operations and economics

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Areas of Expertise:  1,2,3,5,6  
Primary wood processing

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Areas of Expertise:  1,4  
Woodworking machinery, wood surface quality, knife angles and saw blades, lumber drying, portable sawmills

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Areas of Expertise:  3,4,5  
Solid wood markets, scanning, nondestructive evaluation, quality control systems, lumber drying
Sarah Smith, Extension Specialist  
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**Areas of Expertise: 1,2,3**  
Hardwood lumber grading and yields, markets for different species

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**Areas of Expertise: 2,4**  
Rough-mill equipment, yield, and production costs; optimizing saws

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**Areas of Expertise: 1,5**  
Scanning systems, optimization, primary hardwood processing, process control, hardwood lumber drying, log grades

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**Areas of Expertise: 1,2,4**  
Sawmill and rough-mill scanning and control systems, optimization equipment and software, process economics

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**Areas of Expertise: 3**  
Forest products manufacturing productivity, safety in secondary wood products manufacturing
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Areas of Expertise: 1,2,3  
Secondary processing, sawmill and rough-mill yield, residue markets, adhesives, finishing systems

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Areas of Expertise: 2,4  
Secondary manufacturing machinery, CAD/CAM programming, CNC machinery, machinery costs and production efficiency

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Areas of Expertise: 1,3,6  
Wood products sales and marketing, pallet industry supply and demand, primary processing industry, residue markets

Paul Smith, Professor  
Pennsylvania State University, University Park  
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Areas of Expertise: 3  
Export markets for components and furniture, forest products marketing research

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Areas of Expertise: 1  
Primary hardwood processing, pallet design and manufacture
UNIVERSITY/STATE – SOUTH

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  **Areas of Expertise: 2,3,6**
  Rough-mill yield, residue markets, wood recycling, competitiveness of the furniture industry

- **Charles Clement**, Research Associate
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  **Areas of Expertise: 2**
  Rough-mill yield

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  **Areas of Expertise: 1,4,5,6**
  Lumber drying, primary processing, sawing accuracy, equipment/technology justification

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  **Areas of Expertise: 4**
  Tooling, surface quality, ultrasound-based quality assessment

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  **Areas of Expertise: 2,5**
  Rough-mill equipment and yield, hardwood lumber drying, solid-wood gluing, wood-machining quality
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**Areas of Expertise:** 2,3  
Production economics, equipment justification, quality assurance, markets

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**Areas of Expertise:** 3,6  
Wood products marketing and processing

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**Areas of Expertise:** 1,2,4  
Crosscut versus rip analysis, scanning systems, simulation, sawmill machinery and recovery

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**Areas of Expertise:** 4  
Tooling, machine design and vibration

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**Areas of Expertise:** 3  
Secondary industry demographics and competitiveness factors, barcoding and production information systems, e-business
Bob Wright, Wood Utilization Specialist
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Areas of Expertise: 1,5,6
Log and lumber grading, primary hardwood processing

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Areas of Expertise: 1,2
Statistical process control

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Areas of Expertise: 1,3
Technology adoption, hardwood markets and marketing, primary processing

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Areas of Expertise: 2,3,6
Forest resource utilization trends, markets, certified wood products, life-cycle analysis

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Areas of Expertise: 1,2
Low-grade lumber utilization in structural applications, nondestructive evaluation of trees, logs, lumber, and timber bridges
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Areas of Expertise: 1,4,5
Primary processing, panel processing, lumber and wood properties, lumber cut-up, portable sawmills

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Areas of Expertise: 2
Dry-end veneer processing, millwork, casegoods, and flooring production, process improvement/control

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Areas of Expertise: 2,4
Furniture design, manufacturing, and testing

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Areas of Expertise: 4,5
Lumber drying, wood machining and machining defects, wood surface quality

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Areas of Expertise: 1,3
Primary hardwood processing/sawmills
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  **Areas of Expertise:** 2
  Rough-mill yield and processing simulation, electronic information and data systems, secondary industry ergonomics

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  **Areas of Expertise:** 1,4
  Primary processing, portable sawmills, processing economics and finance

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  **Areas of Expertise:** 3
  Wood products markets and marketing, value-added wood products

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  **Areas of Expertise:** 1,2,3,6
  Primary hardwood processing, timber products output, residue markets, logging compliance

- **Terry Mace**, Forest Products Specialist
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  Primary and secondary wood products markets
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Areas of Expertise: 1,6
Primary wood products production, residue utilization and markets

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Areas of Expertise: 1,2,3,6
Primary processing, residue utilization, production economics, health and safety, machining

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Areas of Expertise: 1,2,4,5
Lumber drying, hardwood lumber grading, machining

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Areas of Expertise: 3
Forest products marketing and sales, e-commerce for the wood industry

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Areas of Expertise: 2,3
Rough mill processing systems, industry location and markets, yields
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Areas of Expertise: 1,6
Primary processing, saw maintenance, wood residue

UNIVERSITY/STATE – WEST

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Areas of Expertise: 2,4
Cut-up optimization, simulation, production control, scanning

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Areas of Expertise: 3
Industry competitiveness factors, employee and machinery productivity, primary and secondary markets

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Areas of Expertise: 1,4
Quality control, lumber-size control, primary processing
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Areas of Expertise: 3
International forest products trade, material substitution between wood and nonwood products

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Areas of Expertise: 4
Scanning and optimization, panel products and lamination, technology feasibility

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Areas of Expertise: 3
Forest products marketing research

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Areas of Expertise: 1,3
Sawmill processing and sawmill studies, value-added markets

Scott Leavengood, Extension Specialist
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Areas of Expertise: 3,5
Lumber drying, value-added processing markets, processing efficiency
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Areas of Expertise: 1,2,4
Value-added employee training systems, optimization systems, production control, technology implementation

Mike Milota, Associate Professor
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Areas of Expertise: 5
Lumber drying, dry kilns, VOC emissions

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Areas of Expertise: 1,2,3,6
Forest products certification, markets, business startup, processing systems

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Areas of Expertise: 1,2,5
Primary processing, harvesting, merchandising
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