

# THE GREAT PORTABLE SAWMILL SHOOT-OUT <sup>2009</sup> RULES

- 1.** The Shoot-Out is open to any kind of sawmill that can be moved by no larger than a one-ton truck.
- 2.** Participating manufacturers may use freestanding or attached portable edgers to edge lumber sawn on the mills.
- 3.** Participating manufacturers may set up log racks, ramps, and related log-loading and lumber off-bearing equipment prior to the start of the sawing, as long as all such equipment can be accommodated within the space allowed and does not interfere with spectators or other participants.
- 4.** Mills, edgers, log racks, and other equipment used in the event must include only standard equipment and OEM options. Ancillary equipment (such as edgers and log racks) does not need to be manufactured by the same company that manufactured the sawmill.
- 5.** Participants may use hand tools, such as an axe, chain saws, and chain saw-powered debarkers to trim and clean their logs before the start of the event. Appropriate safety gear must be worn. (See number 6 below.)
- 6.** All participants must wear eye and ear protection, hard hats, full-length pants or chaps, and steel-toed boots. Gloves must be worn when handling boards and logs. In addition, anyone using a chain saw or chain saw-powered device such as a debarker must also wear approved chaps or cutting pants, which will not be provided.
- 7.** Each mill will be supplied with four poplar logs that scale a total of approximately 450 BF. All logs will be as uniform as possible for all participants. The logs will consist of: two large Poplar logs (16 to 20 in. dia, 12 ft. long) with the bulk of the scale, and two small Poplar logs (8 to 12 in. diameter, 10 ft. long). Logs will be scaled to the nearest 1/2-in. diameter using the equations for the International 1/4-in. Log Rule, with scale deductions for defects such as sweep, crook, and rot.
- 8.** Sawyers must saw 4-edge, 1-1/8 in.-thick lumber. The lumber will be scaled according to the criteria listed below. Lumber grade will not be considered.

#### SCALING CRITERIA— HARDWOOD:

- Allowable board widths: 4 in., 5 in., 6 in., 8 in., 10 in., 12 in.
- Width tolerance: -1/8 in, +7/8". (e.g., any board between 7-7/8 in. and 8-7/8 in. would be counted as an 8-inch wide board). Any board more than 1/8 in. narrower than allowed will be scaled to the next lower allowable width.
- Board thickness: nominal 1 in.
- Thickness tolerance: + 1/8 in., - 1/16 in. (i.e., minimum thickness is 1-1/16 in., maximum is 1-1/4 in.).
- Wane may not exceed more than 1/2 the actual thickness of the board at any location.
- Wane may not exceed 1/4 the width of the board at any location.
- Wane length: the sum of the length of the wane on both edges of a board may not exceed 1/2 of the board's length.
- Damage to boards caused by log turners, clamps, log stops, handling, etc., will be considered wane for scaling purposes.
- Any board that does not meet the scaling criteria full length will be "pencil trimmed" to a shorter length, if that shorter length meets the scaling criteria. Scaling lengths are 6 ft., 8 ft., 10 ft., and 12 ft..
- Defects such as knots, holes, and rot will not be considered in scaling the lumber.
- Any board that does not meet the scaling criteria will be deemed miscut and will not be tallied.
- The decisions of the Shoot-Out lumber scaler will be final.

- 9.** A timekeeper will be assigned to each team. There is a 3-1/2 hour time limit on sawing for the Shoot-Out and Hardwood Demonstration combined



## **FIREWOOD SPLITTER RULES**

- 1.** Each entrant will be provided with a stack of unsplit firewood chunks 4 feet high and 12 feet wide. The pieces will be about 16 in. long, for a total unsplit volume of about 1/2 of a full cord (a full cord is 4 ft. high x 4 ft. wide x 8 ft. long). Firewood chunk diameter will range between 7 in. and 24 in. diameter.
- 2.** Split wood must pass through one of two precut holes: one 6 inches square, the other 4 in. by 9 in..
- 3.** All equipment must fit in the designated area, which will be 30 ft. by 30 ft. or larger.
- 4.** Firewood chunks may not be loaded onto splitters prior to the start of the competition.
- 5.** A timekeeper will be assigned to each team. Each team will be allowed up to 15 minutes of time-out(s) to adjust the machine, clear jams, or just relax for a few minutes. Maximum total time allowed for the competitive portion is 2 hours, not including time-out or demonstration.
- 6.** Appropriate PPE (personal protection equipment) is mandatory. Steel-toed boots, eyewear, ear protection, long trousers, and hard hat will be required for all team members any time they are in the competition area. Gloves must be worn by every team member handling wood. Teams are responsible for providing their own personal protection equipment.
- 7.** If a chain saw is used for any reason, cutting pants or chaps must be worn in addition to all other safety gear listed.
- 8.** Teams are expected to demonstrate safe operation of their machine. Hands must be in a safe position before the splitting ram (or other device) is activated. It is not permissible for either team member to be bending over (for instance, picking up a piece of firewood from the ground) within 5 feet of the splitter while a piece is being split. Also, the person operating the splitting ram's (or other device's) controls must be the same person holding the piece to be split in position.
- 9.** Any team operating in an unsafe manner will receive a warning from the safety official. A repeated safety violation will result in an order to shut down and disqualification. Teams are encouraged to discuss any safety or operating concerns with the safety officer prior to the event.
- 10.** Teams are responsible for loading firewood onto the splitter.

## **FIREWOOD PROCESSOR RULES**

- 1.** Each team will have the same total lineal footage of logs: i.e. 15 logs each, 12 ft. long, 10 in. to 16 in. dia. Approximate volume will be 1.5 full cord.
- 2.** Split firewood 16 in. long is to be produced during the competition.
- 3.** Two person teams are envisioned: one to operate the processor and the other to load logs. If desired by the entrant, a one person "team" may be used.
- 4.** All equipment must fit in the designated area, which will be 80 ft. by 80 ft. or larger.
- 5.** Teams are responsible for loading wood onto their firewood processors.
- 6.** Firewood logs may not be loaded onto processors prior to the start of the competition. Log decks may be preloaded.
- 7.** A timekeeper will be assigned to each team. Each team will be allowed up to 15 minutes of time-out(s) to adjust the machine, clear jams, or just relax for a few minutes. Maximum total time allowed for the competitive portion of the Firewood Competition is 2 hours (not including time-out or demonstration).
- 8.** Appropriate PPE (personal protection equipment) is mandatory. Steel-toed boots, eyewear, ear protection, long trousers, and hard hat will be required for all team members anytime they are in the competition area. Gloves must be worn by any team member handling wood; gloves are optional for machine operators. Teams are responsible for providing their own personal protection equipment.
- 9.** All guards and safety features must be in place and fully functional.
- 10.** Hands or feet may not protrude beyond guards or into hazard zones to clear jams, or for any other purpose, when the machine is running. If a jam cannot be cleared with the machine controls or a stick, the machine must be shut down/locked out and all moving parts stopped before clearing the jam.
- 11.** If a chain saw is used for any reason, cutting pants or chain saw chaps must be worn in addition to all other safety gear listed.