

Denser, heavier woods contain more heat than lighter woods, for a given volume.

Wood is never completely dry. Wood dried to the normal air-dried state has a 20% moisture content.

The best time to cut firewood is during the winter and early spring, before leaf-out, since the moisture content is lowest at this time.

Wood should be dried before burning (6 to 12 months). Air-dried wood has about 20 to 25% more available heat than green wood, since less heat is lost driving out moisture during burning.

A pick-up truck load of wood on a standard 6' truck bed contains approximately 1/3 of a standard cord of wood.

A standard cord is a stack of wood 4' x 4' x 8', and contains 128 cubic feet. The actual volume of wood in a cord is about 68 cubic feet, the rest is air, bark, etc.

A face cord of wood is 4' x 8', but the width is variable. A face cord with 16" long logs contains about 1/3 the volume of a standard cord.

A cord of air-dried hardwood has the heating equivalent of about 1 ton of coal, 230 gallons of fuel oil, or 28,000 cubic feet of natural gas.

Ashes from burnt wood are alkaline and can be used as a soil amendment in gardens and lawns to raise the PH of acidic soils. One cord of heavier fuelwood will produce about 60 pounds of ashes.

A cord of undried red oak weighs about 2 tons.

This chart shows features of different woods, and rates each wood according to its total heat content per cord, expressed in million BTU's

SPECIES	Ease of Starting	Coaling Quality	Sparks	Heat Content
BLACK LOCUST	POOR	EXCELLENT	VERY FEW	29.2
HICKORY	FAIR	EXCELLENT	MODERATE	28.3
WHITE OAK	POOR	EXCELLENT	FEW	26.3
BLACK BIRCH	FAIR	GOOD	MODERATE	26.2
BEECH	POOR	GOOD	FEW	24.8
RED OAK	POOR	EXCELLENT	FEW	24.6
ASH	FAIR	GOOD	FEW	24.2
SUGAR MAPLE	POOR	EXCELLENT	FEW	23.7
RED MAPLE	GOOD	GOOD	MODERATE	21.2
BLACK CHERRY	FAIR	EXCELLENT	FEW	20.6
ELM	FAIR	EXCELLENT	FEW	20.0
YELLOW-POPLAR	GOOD	LOW	MANY	19.2
HEMLOCK	GOOD	LOW	MANY	16.5
WHITE PINE	EXCELLENT	POOR	MODERATE	14.6

Firewood Guidelines

Tiadaghton State Forest



Tiadaghton State Forest Forest District #12

10 Lower Pine Bottom Road
Waterville, PA 17776
(570) 753-5409
(570) 753-5721 fax
fd12@state.pa.us

Firewood Cutting

- A permit is required to cut firewood on the Tiadaghton State Forest. This permit should be in your possession at all times while cutting firewood. The cost is \$20.00 per cord.
- Permits are issued for a minimum of one cord. Permits for one cord are good for 15 days. Two and three cord permits are good for 30 days. Four, five, and six cord permits are good for 60 days.
- Firewood permits are for standing dead and dead and down trees with the exception of black cherry. You are prohibited from cutting black cherry 12-inches in diameter and greater.
- You must be prepared to explain the location of the wood prior to receiving the permit.
- Driving off-road or through the woods to access firewood is not permitted. Firewood permits are not sold for within active timber sale areas.
- Stump height should not exceed the diameter of the stump or twelve inches, whichever is less.
- Mechanized skidding is prohibited unless approved in writing by the District Forester.
- Help keep our forests clean. Carry your trash home with you.
- Firewood may be gathered without a permit, while camping on state forest land. This wood may not be removed to another location. Use of a chain saw is prohibited.

- Stop and visit us at the Resource Management Center for a permit. The office is open Monday through Friday, 8 am to 4 pm.

Additional Cutting Information

- **DO NOT CUT LIVE TREES**
- Firewood cut from the State Forest is for personal use only and may not be resold.
- Firewood is not to be cut from areas marked for timber sales.
- Firewood cutting is not permitted in any Wild or Natural Area.
- Debris must be pulled back at least 25 feet from all roads, trails, streams, and boundary lines.
- Stay on main roads. It may be necessary to carry wood several hundred feet. You are encouraged to check the cutting area *before* you request a permit.
- Always work with a companion, and wear protective equipment.
- All permits expire when the volume listed is removed (regardless of the expiration date) or the expiration date.
- A standard 8-foot truck bed contains approximately one-half of a standard rough cord (4'x4'x8') of wood.
- Firewood cutting is permitted throughout the year, with the exception of times of high fire danger.
- Cutting of black cherry 12 inches or greater is prohibited.

When requesting fuelwood permits by mail:

Please provide the following information:

Name: _____

Leased camp #: _____

Address: _____

City: _____

State, Zip: _____

Phone #: _____

License Plate(s): _____

Up to 3 road(s): _____

Start Date: _____

Permits must be in your possession while you cut so allow enough time to reach you by mail.

Check or Money Order payable to:

**Commonwealth of Pennsylvania
or Comm. of PA**

\$20.00 per cord must be submitted with this request.

Mail to:

**Tiadaghton State Forest
10 Lower Pine Bottom Road
Waterville, PA 17776**