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.

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

<table>
<thead>
<tr>
<th>SPECIES</th>
<th>Ease of Starting</th>
<th>Coaling Quality</th>
<th>Sparks</th>
<th>Heat Content</th>
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<tbody>
<tr>
<td>BLACK LOCUST</td>
<td>POOR</td>
<td>EXCELLENT</td>
<td>VERY FEW</td>
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<tr>
<td>HICKORY</td>
<td>FAIR</td>
<td>EXCELLENT</td>
<td>MODERATE</td>
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<td>EXCELLENT</td>
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<tr>
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<td>GOOD</td>
<td>MODERATE</td>
<td>26.2</td>
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<tr>
<td>BEECH</td>
<td>POOR</td>
<td>GOOD</td>
<td>FEW</td>
<td>24.8</td>
</tr>
<tr>
<td>RED OAK</td>
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<td>FEW</td>
<td>24.6</td>
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<tr>
<td>ASH</td>
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<tr>
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<td>LOW</td>
<td>MANY</td>
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<tr>
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</tbody>
</table>
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 $15.00 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 good 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 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.

**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.

Checks payable to: Commonwealth of Pennsylvania (Comm. of PA) for $15.00 per cord must be submitted with this request.

Mail to:

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