

Forestry

* Required

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The native tree pictured below can often be spotted in the understory of a woods in the winter months because it holds onto its leaves well after most other species have lost theirs. This tree is a slow-grower with excellent wildlife value, both as a food source and den tree. *

1 point



- ☒ American beech (*Fagus grandiflora*)
- ☐ Black cherry (*Prunus serotina*)
- ☐ Shagbark hickory (*Carya ovata*)
- ☐ Sassafras (*Sassafras albidum*)



What new disease has been impacting the species of tree from Question #1 in Northeast Ohio? Symptoms include dark banding on leaves, leaf disfigurement, and branch dieback. *

1 point

- ☐ Bur oak blight
- ☒ Beech leaf disease
- ☐ Chestnut blight
- ☐ Dutch elm disease

What is the canopy position of the tree pictured in Question #1?

1 point

- ☐ Dominate
- ☐ Codominant
- ☐ Intermediate
- ☒ Suppressed

Maple syrup is easily recognizable as a product of the sugar maple tree. What lesser known product is also made from sugar maple? *

1 point

- ☒ Basketball courts
- ☐ Barrels
- ☐ Tupelo honey
- ☐ Nut butter



Forested watersheds provide many benefits to streams and ponds. Of the following which is NOT a benefit of a forested watershed? ^{1 point} *

- ☐ Erosion control
- ☐ Shading
- ☐ Flood control
- ☐ Warmer water



Using the chart below, what is the value of a tree with the following parameters: DBH of 22; two 16-foot logs; and value per board foot of \$0.50? *

1 point

Table 1. Standing Tree Board Foot Volumes—Doyle Rule								
Dbh (inches)	Number of 16-Foot Logs							
	1/2	1	1-1/2	2	2-1/2	3	3-1/2	4
Board Feet								
12	20	30	40	50	60			
14	30	50	70	80	90	100		
16	40	70	100	120	140	160	180	190
18	60	100	130	160	200	220	240	160
20	80	130	180	220	260	300	320	360
22	100	170	230	280	340	380	420	460
24	130	220	290	360	430	490	540	600
26	160	260	360	440	520	590	660	740
28	190	320	430	520	620	710	800	880
30	230	380	510	630	740	840	940	1,040
32	270	440	590	730	860	990	1,120	1,220
34	300	510	680	850	1,000	1,140	1,300	1,440
36	350	580	780	970	1,140	1,310	1,480	1,640
38	390	660	880	1,100	1,290	1,480	1,680	1,860
40	430	740	990	1,230	1,450	1,660	1,880	2,080
42	470	830	1,100	1,370	1,620	1,860	2,100	2,320

From: Ashley, Burl S. 1980. *Reference handbook for foresters*. USDA NA-FR-15. 35 pp.

- ☒ \$140.00
- ☐ \$145.00
- ☐ \$248.00
- ☐ \$300.00



The standing dead ash trees pictured on this Eastern Ohio property were killed by which of the following? *

1 point



- ☐ Spotted Lanternfly
- ☐ Armillaria root rot
- ☐ Asian Long-Horned Beetle
- ☒ Emerald ash borer



Which part of the tree is responsible for moving water up to the canopy? * 1 point

- ☐ Cambium layer
- ☐ Bark
- ☒ Xylem
- ☐ Phloem

Which part of the tree is responsible for giving the leaf its green color? * 1 point

- ☐ Mitochondria
- ☒ Chloroplast
- ☐ Nucellus
- ☐ Lignin

If a nail is placed in a tree 4.5 feet above the ground when the tree is 20 feet tall, where will the nail be when the tree is 40 feet tall? * 1 point

- ☒ 4.5 ft
- ☐ 24.5 ft
- ☐ 35.5 ft
- ☐ 44.5 ft



The American elm was once widely planted as a street tree, but this species experienced mass mortality due to what vascular wilt disease caused by a non-native fungus? *

1 point

- ☐ Elm Anthracnose
- ☒ Dutch elm disease
- ☐ Verticillium elm wilt
- ☐ Bacterial leaf scorch

After the autumn leaves have fallen, visitors hiking through Ohio forests are often surprised see the native understory tree pictured below in full flower. *

1 point



- ☐ Ironwood
- ☐ American hazelnut
- ☐ Eastern redbud
- ☒ Witch hazel



Garlic mustard is an invasive forest plant species native to Europe, introduced to North America in the 1800's for use as an edible herb. Which of the following statements is not true? *

1 point

- ☐ Garlic mustard has an allelopathic effect that allows it to out-compete native ground cover plants.
- ☐ Garlic mustard has the ability to reproduce rapidly.
- ☒ The only way to control garlic mustard is through the use of herbicides.
- ☐ Garlic mustard is not a woody plant.

The Ohio Department of Agriculture regulates the sale of firewood in Ohio. Non-packaged firewood must be sold by which unit of measurement? *

1 point

- ☐ Board foot
- ☐ Rack
- ☒ Cord
- ☐ Truckload

"Girdling" trees is a common thinning practice that is recommended in many woodlands. Which category of trees listed below, after girdled, has the biggest impact on tree growth rates, wildlife habitat enhancement, and aesthetics after girdling? *

1 point

- ☐ The small saplings and dying pole-sized trees in the stand
- ☐ The large pole-sized trees in the stand
- ☒ The poor-quality trees competing at the canopy level with better quality trees
- ☐ The poorly formed trees that are underneath the canopy level trees



This species of oak tree produces acorns in one growing season. *

1 point

- ☐ Northern red oak
- ☐ Shingle oak
- ☒ White oak
- ☐ Black oak

Which combination of non-invasive tree species below would be best for flowering interest in urban settings where there is limited height availability due to overhead electric lines? *

1 point

- ☒ Flowering dogwood, Eastern redbud, Allegheny serviceberry
- ☐ Flowering dogwood, Callery pear, Eastern redbud
- ☐ White mulberry, Boxelder, Callery pear
- ☐ Eastern redbud, Tulip poplar, Sassafras

Efforts taken to reduce soil erosion during and after a timber harvest are called forestry Best Management Practices, or BMPs. Which of the practices below is NOT considered a BMP? *

1 point

- ☐ Water bars constructed at 30-degree angles on skid roads
- ☒ Leaving logging slash greater than 6 inches in diameter in a perennial stream
- ☐ Crossing streams at 90-degree angles
- ☐ Routing skid trails along the contour of the slope



Spotted lanternfly (pictured below) is a new non-native invasive insect pest 1 point
to the United States. In October 2020, a small population was identified in Jefferson County, OH. This insect has the potential to be devastating to Ohio's grape and wine industry, feeding on grapevines as well as fruit trees, hops, blueberry, oak, pine, poplar, and walnut. Adult Spotted lanternfly show a strong preference for which invasive tree species?



- ☒ Tree of Heaven (*Ailanthus altissima*)
- ☐ Siberian elm (*Ulmus pumila*)
- ☐ Eastern hemlock (*Tsuga canadensis*)
- ☐ Eastern cottonwood (*Populus deltoides*)

Which of the following types of timber harvests below are considered silvicultural? * 1 point

- ☐ Clearcut, diameter limit harvest, shelterwood
- ☐ Diameter limit harvest, shelterwood
- ☒ Single tree selection, clearcut, shelterwood
- ☐ Single tree selection, clearcut, diameter-limit harvest



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