

Valuing Forest Resources Worksheet

Name: _____

1. What are your timber resources for your plot?

Species	Height	Number 16 Foot Logs	DBH	Board Feet	Timber Value
Total per plot:					
Total per Acre:					

Standing Tree Board Foot Volumes -- Doyle Rule									
DBH (inches)	Number of 16-Foot Logs								
	0.5	1	1.5	2	2.5	3	3.5	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	1040	
32	270	440	590	730	860	990	1120	1220	
34	300	510	680	850	1000	1140	1300	1440	
36	350	580	780	970	1140	1310	1480	1640	
38	390	660	880	1100	1290	1480	1680	1860	
40	430	740	990	1230	1450	1660	1880	2080	
42	470	830	1100	1370	1620	1860	2100	2320	
From: Ashley, Burl S. 1980. <i>Reference handbook for foresters</i> . USDA NA-FR-15. 35 pp.									

This table displays the number of board feet present within a standing tree.

Please see the WV Forestry stumpage price report and region map to find the price per thousand board feet for each species for your region.

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2. What is your maple resource for your plot?

	Number of Maples	Number of Taps	Gallons of Sap	Gallons of Syrup	Syrup Value
Total per Plot:					
Total per Acre:					

One tree produces approximately 20 gallons of sap over a good season, and can do this every season for decades. It takes about 40 gallons of sap to make 1 gallon of syrup. West Virginia maple syrup sold for on average \$36.70 per gallon in 2017.

You have a 100 acre forest that you are trying to decide if you want to log or keep it standing.

3. What is the estimated timber value over your 100 acres? What is the estimated syrup value?

4. Now looking over the next 30 years. What is the syrup value of your forest?

5. Looking only at your timber value and your syrup value, what is your decision? Why?

These two values are both direct. What indirect values does your forest provide for

7. What existence values does your forest provide for you?

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8. Why is difficult to monetize indirect and existence values of your forest?

[illegible]

9. Considering all of the different values of your forest, what is your decision? Will you timber it or leave it standing? Why?

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