

Whole Tree Biomass Weight Table, by species group, 2" DBH Class
Green Short Tons (Short Ton=2,000 lbs.) Dry Short Tons, and Carbon Short Tons

Size Range	Species Grouping	Bole	Total Above & Below ground	% dry weight	dry weight	% carbon	Short ton carbon	carbon in lbs.
6" DBH Class Poletimber	Cedar/Larch (cedar)	0.096	0.162	0.512	0.083	0.500	0.042	83
	Hemlock	0.106	0.179	0.483	0.087	0.500	0.043	87
	Pine	0.094	0.158	0.605	0.096	0.500	0.048	96
	Spruce/Fir (red spruce)	0.113	0.190	0.667	0.126	0.500	0.063	126
	Average 6" DBH Class Softwood Poletimber	0.102	0.172					
	Aspen/Alder/ Cottonwood/Willow (aspen)	0.100	0.189	0.441	0.083	0.500	0.042	83
	Soft Maple/Y Birch	0.127	0.239	0.596	0.143	0.500	0.071	143
	Mixed Hardwoods (white ash)	0.099	0.187	0.661	0.124	0.500	0.062	124
	Hard Maple/Oak/ Hickory/Beech (hard maple and red oak)	0.139	0.261	0.577	0.151	0.500	0.075	151
	Average 6" DBH Class Hardwood Poletimber	0.116	0.219					
	Average All Species 6" DBH Class Poletimber	0.109	0.196					
8" DBH Class Poletimber	Cedar/Larch (cedar)	0.191	0.312	0.512	0.160	0.500	0.080	160
	Hemlock	0.225	0.367	0.483	0.177	0.500	0.089	177
	Pine	0.196	0.320	0.605	0.194	0.500	0.097	194
	Spruce/Fir (red spruce)	0.228	0.372	0.667	0.248	0.500	0.124	248
	Average 8" DBH Class Softwood Poletimber	0.210	0.343					
	Aspen/Alder/ Cottonwood/Willow (aspen)	0.216	0.376	0.441	0.166	0.500	0.083	166
	Soft Maple/Y Birch	0.273	0.474	0.596	0.283	0.500	0.141	283
	Mixed Hardwoods (white ash)	0.221	0.384	0.661	0.254	0.500	0.127	254
	Hard Maple/Oak/ Hickory/Beech (hard maple and red oak)	0.304	0.528	0.577	0.305	0.500	0.152	305
	Average 8" DBH Class Hardwood Poletimber	0.253	0.440					
	Average All Species 8" DBH Class Poletimber	0.232	0.392					

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			ground	% dry weight	dry weight	% carbon			
10" DBH Class Poletimber	Cedar/Larch (cedar)	0.323	0.517	0.512	0.265	0.500	0.132	265	
	Hemlock	0.399	0.640	0.483	0.309	0.500	0.155	309	
	Pine	0.344	0.552	0.605	0.334	0.500	0.167	334	
	Spruce/Fir (red spruce)	0.391	0.627	0.667	0.418	0.500	0.209	418	
	Average 10" DBH Class Softwood Poletimber	0.364	0.584						
	Aspen/Alder/ (aspen)								
	Cottonwood/Willow	0.387	0.641	0.441	0.283	0.500	0.141	283	
	Soft Maple/Y Birch	0.486	0.805	0.596	0.480	0.500	0.240	480	
	Mixed Hardwoods (white ash)	0.404	0.669	0.661	0.442	0.500	0.221	442	
	Hard Maple/Oak/								
	Hickory/Beech (hard maple and red oak)	0.550	0.910	0.577	0.525	0.500	0.263	525	
	Average 10" DBH Class Hardwood Poletimber	0.457	0.756						
	Average All Species 10" DBH Class Poletimber	0.410	0.670						
	12" DBH Class Sawtimber	Cedar/Larch (cedar)	0.493	0.782	0.512	0.400	0.500	0.200	400
Hemlock		0.636	1.007	0.483	0.486	0.500	0.243	486	
Pine		0.544	0.862	0.605	0.521	0.500	0.261	521	
Spruce/Fir (red spruce)		0.606	0.960	0.667	0.640	0.500	0.320	640	
Average 12" DBH Class Softwood Sawtimber		0.570	0.903						
Aspen/Alder/ (aspen)									
Cottonwood/Willow		0.619	0.992	0.441	0.438	0.500	0.219	438	
Soft Maple/Y Birch		0.774	1.240	0.596	0.739	0.500	0.370	739	
Mixed Hardwoods (white ash)		0.657	1.053	0.661	0.696	0.500	0.348	696	
Hard Maple/Oak/									
Hickory/Beech (hard maple and red oak)		0.886	1.420	0.577	0.820	0.500	0.410	820	
Average 12" DBH Class Hardwood Sawtimber		0.734	1.177						
Average All Species 12" DBH Class Sawtimber		0.652	1.040						

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14" DBH Class Sawtimber	Cedar/Larch (cedar)	0.706	1.108	0.512	0.567	0.500	0.284	567
	Hemlock	0.941	1.478	0.483	0.714	0.500	0.357	714
	Pine	0.799	1.255	0.605	0.760	0.500	0.380	760
	Spruce/Fir (red spruce)	0.877	1.377	0.667	0.918	0.500	0.459	918
	Average 14" DBH Class Softwood Sawtimber	0.831	1.304					
	Aspen/Alder/ Cottonwood/Willow (aspen)	0.916	1.434	0.441	0.633	0.500	0.316	633
	Soft Maple/Y Birch	1.141	1.788	0.596	1.065	0.500	0.533	1065
	Mixed Hardwoods (white ash) Hard Maple/Oak/	0.987	1.546	0.661	1.022	0.500	0.511	1022
	Hickory/Beech (hard maple and red oak)	1.321	2.069	0.577	1.194	0.500	0.597	1194
	Average 14" DBH Class Hardwood Sawtimber	1.091	1.709					
	Average All Species 14" DBH Class Sawtimber	0.961	1.507					
16" DBH Class Sawtimber	Cedar/Larch (cedar)	0.961	1.499	0.512	0.768	0.500	0.384	768
	Hemlock	1.320	2.060	0.483	0.995	0.500	0.497	995
	Pine	1.114	1.739	0.605	1.052	0.500	0.526	1052
	Spruce/Fir (red spruce)	1.205	1.881	0.667	1.255	0.500	0.627	1255
	Average 16" DBH Class Softwood Sawtimber	1.150	1.795					
	Aspen/Alder/ Cottonwood/Willow (aspen)	1.283	1.974	0.441	0.871	0.500	0.435	871
	Soft Maple/Y Birch	1.594	2.453	0.596	1.462	0.500	0.731	1462
	Mixed Hardwoods (white ash) Hard Maple/Oak/	1.400	2.155	0.661	1.425	0.500	0.712	1425
	Hickory/Beech (hard maple and red oak)	1.862	2.865	0.577	1.653	0.500	0.827	1653
	Average 16" DBH Class Hardwood Sawtimber	1.535	2.362					
	Average All Species 16" DBH Class Sawtimber	1.342	2.078					

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Size Range	Species Grouping	Bole	Total Above & Below ground	% dry weight	dry weight	% carbon	Short ton carbon	carbon in lbs.
18" DBH Class Sawtimber	Cedar/Larch (cedar)	1.260	1.957	0.512	1.002	0.500	0.501	1002
	Hemlock	1.778	2.760	0.483	1.333	0.500	0.667	1333
	Pine	1.493	2.318	0.605	1.402	0.500	0.701	1402
	Spruce/Fir (red spruce)	1.595	2.477	0.667	1.652	0.500	0.826	1652
	Average 18" DBH Class Softwood Sawtimber	1.532	2.378					
	Aspen/Alder/ Cottonwood/Willow (aspen)	1.723	2.616	0.441	1.154	0.500	0.577	1154
	Soft Maple/Y Birch	2.136	3.242	0.596	1.932	0.500	0.966	1932
	Mixed Hardwoods (white ash)	1.903	2.889	0.661	1.910	0.500	0.955	1910
	Hard Maple/Oak/ Hickory/Beech (hard maple and red oak)	2.515	3.818	0.577	2.203	0.500	1.102	2203
	Average 18" DBH Class Hardwood Sawtimber	2.069	3.141					
	Average All Species 18" DBH Class Sawtimber	1.800	2.760					
20" DBH Class Sawtimber	Cedar/Larch (cedar)	1.606	2.484	0.512	1.272	0.500	0.636	1272
	Hemlock	2.319	3.587	0.483	1.732	0.500	0.866	1732
	Pine	1.938	2.997	0.605	1.813	0.500	0.907	1813
	Spruce/Fir (red spruce)	2.049	3.168	0.667	2.113	0.500	1.057	2113
	Average 20" DBH Class Softwood Sawtimber	1.978	3.059					
	Aspen/Alder/ Cottonwood/Willow (aspen)	2.241	3.365	0.441	1.484	0.500	0.742	1484
	Soft Maple/Y Birch	2.771	4.161	0.596	2.480	0.500	1.240	2480
	Mixed Hardwoods (white ash)	2.500	3.754	0.661	2.482	0.500	1.241	2482
	Hard Maple/Oak/ Hickory/Beech (hard maple and red oak)	3.287	4.937	0.577	2.848	0.500	1.424	2848
	Average 20" DBH Class Hardwood Sawtimber	2.700	4.054					
	Average All Species 20" DBH Class Sawtimber	2.339	3.557					

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Size Range	Species Grouping	Bole	Total Above & Below ground	% dry weight	dry weight	% carbon	Short ton carbon	carbon in lbs.
22" DBH Class Sawtimber	Cedar/Larch (cedar)	1.999	3.082	0.512	1.578	0.500	0.789	1578
	Hemlock	2.949	4.545	0.483	2.195	0.500	1.098	2195
	Pine	2.453	3.781	0.605	2.287	0.500	1.144	2287
	Spruce/Fir (red spruce)	2.568	3.958	0.667	2.640	0.500	1.320	2640
	Average 22" DBH Class Softwood Sawtimber	2.492	3.841					
	Aspen/Alder/ Cottonwood/Willow (aspen)	2.839	4.226	0.441	1.864	0.500	0.932	1864
	Soft Maple/Y Birch	3.503	5.215	0.596	3.108	0.500	1.554	3108
	Mixed Hardwoods (white ash) Hard Maple/Oak/ Hickory/Beech (hard maple and red oak)	3.197	4.759	0.661	3.145	0.500	1.573	3145
	Average 22" DBH Class Hardwood Sawtimber	4.184	6.228	0.577	3.593	0.500	1.797	3593
		3.431	5.107					
	Average All Species 22" DBH Class Sawtimber	2.961	4.474					
24" DBH Class Sawtimber	Cedar/Larch (cedar)	2.441	3.752	0.512	1.921	0.500	0.961	1921
	Hemlock	3.671	5.643	0.483	2.725	0.500	1.363	2725
	Pine	3.041	4.674	0.605	2.828	0.500	1.414	2828
	Spruce/Fir (red spruce)	3.155	4.850	0.667	3.235	0.500	1.617	3235
	Average 24" DBH Class Softwood Sawtimber	3.077	4.730					
	Aspen/Alder/ Cottonwood/Willow (aspen)	3.521	5.203	0.441	2.295	0.500	1.147	2295
	Soft Maple/Y Birch	4.337	6.409	0.596	3.819	0.500	1.910	3819
	Mixed Hardwoods (white ash) Hard Maple/Oak/ Hickory/Beech (hard maple and red oak)	3.998	5.908	0.661	3.905	0.500	1.953	3905
	Average 24" DBH Class Hardwood Sawtimber	5.211	7.699	0.577	4.442	0.500	2.221	4442
		4.267	6.305					
	Average All Species 24" DBH Class Sawtimber	3.672	5.517					

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26" DBH Class Sawtimber	Cedar/Larch (cedar)	2.932	4.497	0.512	2.302	0.500	1.151	2302
	Hemlock	4.489	6.884	0.483	3.325	0.500	1.662	3325
	Pine	3.705	5.682	0.605	3.437	0.500	1.719	3437
	Spruce/Fir (red spruce)	3.812	5.846	0.667	3.900	0.500	1.950	3900
	Average 26" DBH Class Softwood Sawtimber	3.734	5.727					
	Aspen/Alder/ Cottonwood/Willow (aspen)	4.290	6.300	0.441	2.778	0.500	1.389	2778
	Soft Maple/Y Birch	5.275	7.746	0.596	4.617	0.500	2.308	4617
	Mixed Hardwoods (white ash) Hard Maple/Oak/ Hickory/Beech (hard maple and red oak)	4.910	7.209	0.661	4.765	0.500	2.383	4765
	Average 26" DBH Class Hardwood Sawtimber	6.373	9.357	0.577	5.399	0.500	2.700	5399
	Average 26" DBH Class Hardwood Sawtimber	5.212	7.653					
	Average All Species 26" DBH Class Sawtimber	4.473	6.690					
28" DBH Class Sawtimber	Cedar/Larch (cedar)	3.474	5.317	0.512	2.722	0.500	1.361	2722
	Hemlock	5.407	8.276	0.483	3.997	0.500	1.999	3997
	Pine	4.447	6.807	0.605	4.118	0.500	2.059	4118
	Spruce/Fir (red spruce)	4.541	6.951	0.667	4.636	0.500	2.318	4636
	Average 28" DBH Class Softwood Sawtimber	4.467	6.838					
	Aspen/Alder/ Cottonwood/Willow (aspen)	5.149	7.520	0.441	3.316	0.500	1.658	3316
	Soft Maple/Y Birch	6.321	9.231	0.596	5.502	0.500	2.751	5502
	Mixed Hardwoods (white ash) Hard Maple/Oak/ Hickory/Beech (hard maple and red oak)	5.935	8.668	0.661	5.729	0.500	2.865	5729
	Average 28" DBH Class Hardwood Sawtimber	7.675	11.209	0.577	6.468	0.500	3.234	6468
	Average 28" DBH Class Hardwood Sawtimber	6.270	9.157					
	Average All Species 28" DBH Class Sawtimber	5.369	7.997					

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30"+ DBH Class Sawtimber	Cedar/Larch (cedar)	4.068	6.215	0.512	3.182	0.500	1.591	3182
	Hemlock	6.429	9.823	0.483	4.744	0.500	2.372	4744
	Pine	5.270	8.053	0.605	4.872	0.500	2.436	4872
	Spruce/Fir (red spruce)	5.344	8.166	0.667	5.447	0.500	2.723	5447
	Average 30" DBH Class Softwood Sawtimber	5.278	8.064					
	Aspen/Alder/							
	Cottonwood/Willow (aspen)	6.100	8.868	0.441	3.911	0.500	1.955	3911
	Soft Maple/Y Birch	7.477	10.869	0.596	6.478	0.500	3.239	6478
	Mixed Hardwoods (white ash)	7.078	10.289	0.661	6.801	0.500	3.401	6801
	Hard Maple/Oak/							
	Hickory/Beech (hard maple and red oak)	9.123	13.262	0.577	7.652	0.500	3.826	7652
	Average 30" DBH Class Hardwood Sawtimber	7.444	10.822					
	Average All Species 30" DBH Class Sawtimber	6.361	9.443					