

Weight of Green Logs

March 4, 2012

Rope, Knots and Climbing, A. Robert Thompson, Tree Preservation Technical Bulletin No. 7

U.S. Department of the Interior, National Park Service, Revised 1955

Species	Weight ¹ Per Ft ³	Weight (in pounds) of 1-foot sections based on mean diameters													
		10"	12"	14"	16"	18"	20"	22"	24"	26"	28"	30"	32"	34"	36"
Apple	55	30	43	59	77	97	120	145	173	203	235	270	307	347	388
Ash, White	48	26	38	51	67	85	104	126	150	177	205	235	267	302	338
Basswood	42	23	33	45	59	74	92	111	132	155	180	206	235	265	297
Beech	54	29	42	58	75	95	118	142	169	199	231	265	301	340	381
Birch, Paper	50	27	39	53	70	88	109	132	157	164	214	245	279	317	353
Birch, Yellow	57	31	45	61	80	101	124	151	179	210	244	280	319	360	403
Butternut	46	25	36	49	64	81	100	121	144	170	197	226	257	290	325
Cherry, Black	45	25	35	48	63	79	98	199	141	166	192	221	251	283	318
Chestnut	55	30	43	59	77	97	120	145	173	203	235	270	307	347	388
Cottonwood	49	27	38	52	68	86	107	129	154	180	209	240	273	310	346
Elm, American	54	29	42	58	75	95	118	142	169	199	231	265	301	340	381
Gum, Black	45	25	35	48	63	79	98	119	141	156	192	221	251	283	318
Gum, Red (Sweet)	50	27	39	53	70	88	109	132	157	164	214	245	279	317	353
Hackberry	50	27	39	53	70	88	109	132	157	164	214	245	279	317	353
Hickory, Shagbark	64	35	50	68	89	113	140	169	201	236	273	314	357	403	452
Honey Locust	61	33	48	65	85	108	133	161	192	225	261	299	341	385	431
Magnolia, Southern	59	32	46	63	82	104	129	156	185	217	252	289	329	372	417
Maple, Red	50	27	39	53	70	88	109	132	157	164	214	245	279	317	353
Maple, Silver	45	25	35	48	63	79	98	119	141	166	192	221	251	283	318
Maple, Sugar	56	31	44	60	78	99	122	148	176	206	239	275	313	353	396
Oak, Black	62	34	48	66	86	109	135	163	194	228	265	304	346	390	437
Oak, Live	76	41	60	81	106	134	156	200	238	280	324	372	424	478	536
Oak, Red	63	34	49	57	88	111	137	166	198	232	269	309	251	397	445
Oak, White	62	34	48	66	86	109	135	163	194	228	265	304	346	390	437
Pecan	61	33	48	65	85	108	133	161	192	225	261	299	341	385	431
Persimmon	63	34	49	67	88	111	137	166	198	232	269	309	251	397	445
Pine, White	36	20	28	38	50	64	78	95	113	128	154	176	201	227	254
Poplar, Yellow	38	21	30	40	53	67	83	99	119	140	162	186	211	239	268

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		10"	12"	14"	16"	18"	20"	22"	24"	26"	28"	30"	32"	34"	36"
Sassafras	44	24	34	47	61	78	96	116	138	162	188	215	245	277	310
Spruce, Red	34	19	27	36	47	60	74	90	106	125	145	166	189	214	239
Sycamore	52	28	41	55	72	92	113	137	163	191	222	254	290	327	366
Tamarack	47	26	37	50	65	83	102	124	147	173	200	230	262	295	331
Walnut, Black	58	32	45	62	81	102	126	153	182	213	248	284	323	364	409

¹ Strength and Related Properties of Woods Grown in the United States, L.J. Markwardt and T.R.C. Wilson, USDA Technical Bulletin No. 479, 1935.