

SETs: Stand Evaluation Tools.

III. **Composite Volume and Value Tables for Hardwood Pulpwood**



by Paul S. DeBald
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SETs

THIS IS ONE of a series of papers designed to help the forester estimate the value of timber stands. We call these papers SETs — Stand Evaluation Tools. The first three papers are being published concurrently. They are:

SETs I. AN INDIVIDUAL-TREE APPROACH TO MAKING STAND EVALUATIONS (USDA Forest Service Research Paper NE-336), which describes a method for using individual tree values to make stand evaluations.

SETs II. TREE VALUE CONVERSION STANDARDS FOR HARDWOOD SAWTIMBER (USDA Forest Service Research Paper NE-337), which provides values for individual sawtimber trees.

SETs III. COMPOSITE VOLUME AND VALUE TABLES FOR HARDWOOD PULPWOOD (USDA Forest Service Research Paper NE-338), which provides values for individual growing-stock trees.

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III. Composite Volume and Value Tables for Hardwood Pulpwood

ABSTRACT

This paper presents 38 composite volume and value tables for hardwood pulpwood. Values are given for multiples of commonly used bolt lengths — 4, 5, and 8 feet — and may be applied, generally, to standing trees of all hardwood species. The volume tables resemble closely the Lake States Composite Volume Tables, but extend them to other units of measure: cubic feet, tons, cubic meters, and metric tons. The value tables give dollar values for individual trees at a wide range of pulpwood prices. Both sets of tables may be used with either entire trees or the pulpwood portions of sawtimber trees. Examples of such applications are provided.

INTRODUCTION

THIS PAPER has three purposes:

- (1) to expand the usefulness of the Lake States Composite Volume Tables (*Gevorkiantz and Olsen 1955*).
- (2) to provide a set of tree-value tables for pulpwood.
- (3) to serve as a companion paper to TREE VALUE CONVERSION STANDARDS FOR HARDWOOD SAWTIMBER, and AN INDIVIDUAL-TREE APPROACH TO MAKING STAND EVALUATIONS, which are being published concurrently.

As Volume Tables

The Lake States Composite Volume Tables are widely used in the eastern United States because, being composite tables, they can be applied to the average run of timber, regardless of species (*Beers 1964, Myers 1972*). This is important in diverse eastern forests. But the Lake States Tables, as originally published, have a drawback: they may require considerable interpolation (*Ek 1971*).

Efforts have been made to overcome this drawback. Beers and Ek offer volume equations for expanding several of the Lake States Tables with either a desk calculator or a computer. The Forest Service has published look-up volume tables based on the Lake States Tables: Region 9 CFI Newsletters 129 and 131 (*USDA Forest Service 1964, 1965*).

In this paper we further extend the Lake States Composite Volume Tables by interpolating values for 4- and 5-foot bolt lengths and converting them into various measures of volume and weight: cords, cubic feet, cubic meters, tons, and metric tons. We made the

metric conversions to provide a crosswalk between English and metric units within the Lake States Tables.

Value Tables

A hardwood tree's value as pulpwood usually depends on its volume, seldom on its species, so the Lake States Composite Volume Tables provide an excellent base for converting tree volumes to standing tree values. All that is needed is to multiply the composite tree volumes by appropriate stumpage values. But this is a tedious and costly operation, one that could discourage a potential user. We elected to lighten the user's job by making a number of such conversions for him, using our extended volume tables and a wide range of stumpage values per cord. The resulting composite value tables give individual tree values for pulpwood on the stump at various stumpage prices. These value tables can be applied, generally, to all hardwood species.

Companion Tables

In recent years, Forest Service scientists have published a series of papers dealing with the rates of value increase for most of the important hardwood species. In the course of deriving rates of value increase, tree value conversion standards had to be calculated. That work has been summarized in TREE VALUE CONVERSION STANDARDS FOR HARDWOOD SAWTIMBER which is being published concurrently with this paper and which presents tree value conversion standards for 12 species by butt log grade; dbh, and merchantable height (*Mendel, DeBald, and Dale 1976*). The standards can be used in estimating the values and in evaluating the development of either individual sawtimber trees or the sawtimber portions of forest stands. The pulp-

wood tree values that we present here can be combined with those sawtimber standards to estimate the timber value of entire forest stands and to evaluate their development over time. This is discussed in a third paper—AN INDIVIDUAL-TREE APPROACH TO MAKING STAND EVALUATIONS — which is also being published concurrently (*DeBald and Mendel 1976*).

Method

The composite volume tables in appendix A were generated with the following equation:

$$\text{volume in cords} = \frac{D^2(D+190) \left[\frac{H(168-H)}{64} + \frac{32}{H} \right]}{10^7}$$

where: D=dbh (in inches) and
H = merchantable height (in feet)
to a variable 4-inch top.

This equation is an adaptation of the one that Beers derived to approximate Lake States Composite Volume Table Number 6.

Cord volumes were converted to other units of measure by multiplying them by the following factors:

- (a) 79, for cubic feet
- (b) 2.25, for tons of soft hardwoods
- (c) 2.50, for tons of hard hardwoods
- (d) 2.212, for cubic meters
- (e) 2.04, for metric tons of soft hardwoods
- (f) 2.27, for metric tons of hard hardwoods

Soft hardwoods include such species as basswood, yellow-poplar, aspen, cottonwood, willow, and soft maple. Hard hardwoods include such species as oak, hickory, hard maple, and beech.

The composite value tables (appendix B) were computed by applying dollar values to the cord volumes.

APPLICATIONS

The composite volume tables given here may be read directly. They may also be used to estimate the pulpwood volumes in the upper stems of small sawtimber trees, although applying these composite tables to merchantable heights that are measured above forks or large branches will lead to overestimation of volumes.

Take, for example, a 14-inch tree whose sawlog portion contains two 16-foot logs and whose upper stem contains one 8-foot pulp bolt. If it were used strictly for pulpwood, that tree's gross volume would be .323 cords — the volume of a 14-inch tree with a 40-foot merchantable height (table 1). The volume of the sawlog portion is .276 cords — the volume of a 14-inch tree with a 32-foot merchantable height. The volume of the upper stem would thus be .047 cords — the difference between .323 cords and .276 cords.

The composite value tables make it possible to look up pulpwood values for individual trees, which may be either gross values on the stump (stumpage values) or net values at any processing stage from stump to mill-yard (conversion values).

Finding a tree's stumpage value is easy. Just look up the tree's dbh and merchantable height in the appropriate pulpwood value table. Tables for a wide range of stumpage prices, from \$1 to \$25 per cord, are provided in appendix B.

Finding a tree's conversion value takes an additional step. First, take the value of pulpwood at some point in its processing (a price at roadside may be convenient); say, for example, \$12 per cord. From that subtract the estimated costs of processing the pulpwood to that point — felling, bucking, limbing, and skidding. Here, say the cost is \$10 per cord. The difference, in this case \$2, between the pulpwood price at roadside and the costs of getting the pulpwood there may be used as a base for estimating individual tree values. So, in this example, we would estimate conversion values for individual trees by using table 19 for a stumpage value of \$2 per cord.

To estimate the value of pulpwood bolts in the upper stems of sawtimber trees, we would use an approach similar to the one we used to estimate the pulpwood volume in the upper stem of a 14-inch tree. So, let's look again at that same tree: a 14-inch tree that contains two 16-foot sawlogs, topped with one 8-foot pulp bolt. If pulpwood stumpage were \$2.50 per cord, the tree's upper stem would be worth \$0.12 (table 21). This is the difference in value between a 14-inch tree that has 40 feet of merchantable height (\$0.81) and one that has 32 feet of merchantable height (\$0.69).

As noted earlier, the composite pulpwood values can be used in conjunction with sawtimber conversion standards to estimate the timber values of entire forest stands and evaluate their development. When used together, the pulpwood and sawtimber values cover the entire range of merchantable diameters in a stand and reflect timber values in terms of the two most common timber products.

Many small sawtimber trees lack quality—just because of their small diameters — and will yield little value as 4/4 lumber. For some, even, conversion costs would exceed their lumber value. Many of these trees have more value as pulpwood, so it is important to be able to assign pulpwood values to small sawtimber trees, if for no other reason than to avoid working with negative tree value conversion standards.

To integrate pulpwood values with sawtimber value standards, we can simply compare the appropriate value tables and assign individual trees the higher of the two product values. The crossover point between pulpwood value and sawtimber value will vary with species, pulpwood and lumber prices, conversion costs, tree size, and tree quality.

We can also add a refinement by combining products in a single tree. Let's take the 14-inch sample tree that we have been using and, this time, say that it is a red oak with a Grade 2 butt log. We can combine pulpwood and lumber values for this tree as follows:

	Pulpwood ^a only	Lumber ^b only	Pulpwood and lumber combined
Sawlog portion (32')	\$0.69	\$4.40	\$4.40
Upper stem (8')	.12	—	.12
Total (40')	.81	4.40	4.52

^a Table 21.

^b From TREE VALUE CONVERSION STANDARDS FOR HARDWOOD SAWTIMBER.

This procedure can be used in hand computations, such as cut and leave tallies, by looking up the values directly. It can also be incorporated into computerized inventory systems in much the same way as volume tables are. Either way, it can be applied both to individual tree tallies and to stand tables. The resulting values can then be totaled to obtain stand summaries.

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APPENDIX A

Pulpwood Volumes

Table

1, 2	Gross volume	in cords
3, 4	" "	" cubic feet
5, 6	" "	" cubic meters
7, 8	" weight	" tons for soft hardwoods
9, 10	" "	" tons for hard hardwoods
11, 12	" "	" metric tons for soft hardwoods
13, 14	" "	" metric tons for hard hardwoods

All volumes are to top diameters that are variable, but not less than 4.0 inches.

Odd-numbered tables are for 4-foot merchantable lengths.

Even-numbered tables are for 5-foot merchantable lengths.

Table 1. — Gross volume in cords

Dbh (inches)	Merchantable height in feet														
	8	12	16	20	24	28	32	36	40	44	48	52	56	60	64
5	0.012	0.016	0.019	0.023	0.027	—	—	—	—	—	—	—	—	—	—
6	.017	.023	.028	.034	.039	0.044	0.049	—	—	—	—	—	—	—	—
7	.023	.031	.039	.046	.053	.060	.067	0.073	0.078	—	—	—	—	—	—
8	.030	.040	.051	.061	.070	.079	.087	.095	.102	0.109	0.115	—	—	—	—
9	.039	.051	.064	.077	.089	.101	.111	.121	.130	.139	.146	0.153	0.159	—	—
10	.048	.064	.080	.096	.111	.125	.138	.150	.162	.172	.181	.190	.197	—	—
11	.058	.078	.097	.116	.135	.152	.168	.183	.197	.209	.221	.231	.240	0.248	0.254
12	.070	.093	.116	.139	.161	.181	.201	.219	.235	.250	.264	.276	.287	.296	.304
13	.082	.109	.137	.164	.190	.214	.237	.258	.277	.295	.311	.325	.338	.349	.359
14	.096	.128	.160	.191	.221	.249	.276	.300	.323	.344	.363	.379	.394	.407	.418
15	.111	.147	.184	.221	.255	.288	.318	.347	.373	.397	.418	.438	.455	.469	.482
16	.127	.168	.211	.252	.292	.329	.364	.396	.426	.453	.478	.500	.520	.537	.551
17	.144	.191	.239	.286	.331	.373	.413	.450	.483	.514	.542	.568	.590	.609	.625
18	.162	.215	.270	.322	.373	.420	.465	.506	.545	.579	.611	.639	.664	.686	.704
19	.181	.241	.302	.361	.417	.471	.521	.567	.610	.649	.684	.716	.744	.768	.788
20	.202	.268	.336	.402	.465	.524	.580	.631	.679	.722	.762	.797	.828	.855	.878
21	.223	.297	.372	.445	.515	.581	.642	.699	.752	.800	.844	.883	.917	.947	.972
22	.246	.327	.410	.491	.568	.640	.708	.771	.829	.882	.930	.973	1.011	1.044	1.072
23	.270	.360	.451	.539	.623	.703	.777	.847	.910	.969	1.022	1.069	1.111	1.147	1.177
24	.296	.393	.493	.590	.682	.769	.851	.926	.996	1.060	1.118	1.169	1.215	1.255	1.288

Table 2. — Gross volume in cords

Dbh (inches)	Merchantable height in feet											
	10	15	20	25	30	35	40	45	50	55	60	65
5	0.014	0.019	0.023	—	—	—	—	—	—	—	—	—
6	.020	.027	.034	0.040	—	—	—	—	—	—	—	—
7	.027	.037	.046	.055	0.063	0.071	0.078	—	—	—	—	—
8	.035	.048	.061	.072	.083	.093	.102	0.110	—	—	—	—
9	.045	.061	.077	.092	.106	.119	.130	.141	0.150	0.157	—	—
10	.056	.076	.096	.114	.132	.147	.162	.174	.186	.195	—	—
11	.068	.092	.116	.139	.160	.179	.197	.212	.226	.238	0.248	0.256
12	.081	.111	.139	.166	.191	.214	.235	.254	.270	.284	.296	.306
13	.096	.130	.164	.196	.226	.253	.277	.299	.318	.335	.349	.361
14	.112	.152	.191	.228	.263	.294	.323	.349	.371	.391	.407	.420
15	.129	.175	.221	.264	.303	.340	.373	.402	.428	.451	.469	.485
16	.147	.200	.252	.301	.347	.388	.426	.460	.490	.515	.537	.554
17	.167	.227	.286	.342	.393	.441	.483	.522	.555	.584	.609	.629
18	.188	.256	.322	.385	.443	.496	.545	.588	.626	.658	.686	.708
19	.210	.287	.361	.431	.496	.556	.610	.658	.700	.737	.768	.793
20	.234	.319	.402	.480	.552	.619	.679	.732	.780	.821	.855	.883
21	.259	.354	.445	.532	.612	.685	.752	.811	.864	.909	.947	.978
22	.286	.390	.491	.586	.675	.756	.829	.895	.952	1.002	1.044	1.078
23	.314	.428	.539	.644	.741	.830	.910	.982	1.046	1.101	1.147	1.184
24	.344	.468	.590	.704	.811	.908	.996	1.075	1.144	1.204	1.255	1.296

Table 3. — Gross volume in cubic feet

Dbh (inches)	Merchantable height in feet														64
	8	12	16	20	24	28	32	36	40	44	48	52	56	60	
5	0.9	1.2	1.5	1.8	2.1	—	—	—	—	—	—	—	—	—	—
6	1.3	1.8	2.2	2.7	3.1	3.5	3.8	—	—	—	—	—	—	—	—
7	1.8	2.4	3.1	3.6	4.2	4.8	5.3	5.7	6.2	—	—	—	—	—	—
8	2.4	3.2	4.0	4.8	5.5	6.2	6.9	7.5	8.1	8.6	9.1	—	—	—	—
9	3.1	4.1	5.1	6.1	7.0	7.9	8.8	9.6	10.3	10.9	11.5	12.1	12.6	—	—
10	3.8	5.0	6.3	7.6	8.7	9.9	10.9	11.9	12.8	13.6	14.3	15.0	15.6	—	—
11	4.6	6.1	7.7	9.2	10.6	12.0	13.3	14.4	15.5	16.5	17.4	18.2	18.9	19.6	20.1
12	5.5	7.3	9.2	11.0	12.7	14.3	15.9	17.3	18.6	19.8	20.8	21.8	22.7	23.4	24.0
13	6.5	8.7	10.8	13.0	15.0	16.9	18.7	20.4	21.9	23.3	24.6	25.7	26.7	27.6	28.3
14	7.6	10.1	12.6	15.1	17.5	19.7	21.8	23.7	25.5	27.2	28.6	30.0	31.1	32.2	33.0
15	8.7	11.6	14.6	17.4	20.2	22.7	25.1	27.4	29.4	31.3	33.0	34.6	35.9	37.1	38.1
16	10.0	13.3	16.7	19.9	23.1	26.0	28.7	31.3	33.7	35.8	37.8	39.5	41.1	42.4	43.5
17	11.3	15.1	18.9	22.6	26.2	29.5	32.6	35.5	38.2	40.6	42.8	44.8	46.6	48.1	49.4
18	12.8	17.0	21.3	25.5	29.5	33.2	36.7	40.0	43.0	45.8	48.3	50.5	52.5	54.2	55.6
19	14.3	19.0	23.8	28.5	33.0	37.2	41.1	44.8	48.2	51.2	54.0	56.5	58.8	60.7	62.3
20	15.9	21.2	26.5	31.8	36.7	41.4	45.8	49.9	53.6	57.1	60.2	63.0	65.4	67.5	69.3
21	17.6	23.5	29.4	35.2	40.7	45.9	50.7	55.2	59.4	63.2	66.6	69.7	72.5	74.8	76.8
22	19.5	25.9	32.4	38.8	44.9	50.6	55.9	60.9	65.5	69.7	73.5	76.9	79.9	82.5	84.7
23	21.4	28.4	35.6	42.6	49.3	55.5	61.4	66.9	71.9	76.5	80.7	84.4	87.7	90.6	93.0
24	23.4	31.1	39.0	46.6	53.9	60.8	67.2	73.2	78.7	83.7	88.3	92.4	96.0	99.1	101.8

Table 4. — Gross volume in cubic feet

Dbh (inches)	Merchantable height in feet													
	10	15	20	25	30	35	40	45	50	55	60	65		
5	1.1	1.5	1.8	—	—	—	—	—	—	—	—	—	—	
6	1.6	2.1	2.7	3.2	—	—	—	—	—	—	—	—	—	
7	2.1	2.9	3.6	4.4	5.0	5.6	6.2	—	—	—	—	—	—	
8	2.8	3.8	4.8	5.7	6.6	7.4	8.1	—	—	—	—	—	—	
9	3.6	4.8	6.1	7.3	8.4	9.4	10.3	8.7	—	—	—	—	—	
10	4.4	6.0	7.6	9.0	10.4	11.6	12.8	11.1	11.8	12.4	—	—	—	
11	5.4	7.3	9.2	11.0	12.6	14.2	15.5	13.8	14.7	15.4	—	—	—	
12	6.4	8.7	11.0	13.1	15.1	16.9	18.6	16.8	17.8	18.8	19.6	—	—	
13	7.6	10.3	13.0	15.5	17.8	20.0	21.9	20.0	21.3	22.4	23.4	20.2	—	
14	8.8	12.0	15.1	18.0	20.8	23.3	25.5	23.6	25.2	26.5	27.6	24.2	—	
15	10.2	13.8	17.4	20.8	24.0	26.8	29.4	27.5	29.3	30.9	32.2	28.5	—	
16	11.6	15.8	19.9	23.8	27.4	30.7	33.7	31.8	33.8	35.6	37.1	33.2	—	
17	13.2	18.0	22.6	27.0	31.1	34.8	38.2	36.3	38.7	40.7	42.4	38.3	—	
18	14.8	20.2	25.5	30.4	35.0	39.2	43.0	41.2	43.9	46.2	48.1	43.8	—	
19	16.6	22.6	28.5	34.1	39.2	43.9	48.2	46.4	49.4	52.0	54.2	49.7	—	
20	18.5	25.2	31.8	37.9	43.6	48.9	53.6	52.0	55.3	58.2	60.7	56.0	—	
21	20.5	27.9	35.2	42.0	48.3	54.1	59.4	57.9	61.6	64.8	67.5	62.6	—	
22	22.6	30.8	38.8	46.3	53.3	59.7	65.5	64.1	68.2	71.8	74.8	69.7	—	
23	24.8	33.8	42.6	50.9	58.5	65.6	71.9	70.7	75.2	79.2	82.5	77.3	—	
24	27.2	37.0	46.6	55.6	64.0	71.7	78.7	77.6	82.6	87.0	90.6	85.2	—	
								84.9	90.4	95.1	99.1	93.6	—	
												102.3	—	

Table 5. — Gross volume in cubic meters

Dbh		Merchantable height in feet (first line) and meters (second line)														
Inches	Centi- meters	8	12	16	20	24	28	32	36	40	44	48	52	56	60	64
		2.44	3.66	4.88	6.10	7.32	8.53	9.75	10.97	12.19	13.41	14.63	15.85	17.07	18.29	19.51
5	12.70	0.027	0.035	0.042	0.051	0.060	—	—	—	—	—	—	—	—	—	—
6	15.24	.038	.051	.062	.075	.086	0.097	0.108	—	—	—	—	—	—	—	—
7	17.78	.051	.069	.086	.102	.117	.133	.148	0.161	0.173	—	—	—	—	—	—
8	20.32	.066	.088	.113	.135	.155	.175	.192	.210	.226	0.241	0.254	—	—	—	—
9	22.86	.086	.113	.142	.170	.196	.223	.246	.268	.288	.307	.323	0.338	0.352	—	—
10	25.40	.106	.142	.177	.212	.246	.277	.305	.332	.358	.380	.400	.420	.436	—	—
11	27.94	.128	.173	.215	.256	.299	.336	.372	.405	.436	.462	.489	.511	.531	0.549	0.562
12	30.48	.155	.206	.257	.307	.356	.400	.445	.484	.520	.553	.584	.611	.635	.650	.672
13	33.02	.181	.241	.303	.363	.420	.473	.524	.571	.613	.653	.688	.719	.748	.772	.794
14	35.56	.212	.283	.354	.422	.489	.551	.611	.664	.714	.761	.803	.838	.872	.900	.925
15	38.10	.246	.325	.407	.489	.564	.637	.703	.768	.825	.878	.925	.969	1.006	1.037	1.066
16	40.64	.281	.372	.467	.557	.646	.728	.805	.876	.942	1.002	1.057	1.106	1.150	1.188	1.219
17	43.18	.319	.422	.529	.633	.732	.825	.914	.995	1.068	1.137	1.199	1.266	1.305	1.347	1.383
18	45.72	.358	.476	.597	.712	.825	.929	1.029	1.119	1.206	1.281	1.352	1.413	1.469	1.517	1.557
19	48.26	.400	.533	.668	.799	.922	1.042	1.152	1.254	1.349	1.436	1.513	1.584	1.646	1.699	1.743
20	50.80	.447	.593	.743	.889	1.029	1.159	1.283	1.396	1.502	1.597	1.686	1.763	1.832	1.891	1.942
21	53.34	.493	.657	.823	.984	1.139	1.285	1.420	1.546	1.663	1.770	1.867	1.953	2.028	2.095	2.150
22	55.88	.544	.723	.907	1.086	1.256	1.416	1.566	1.705	1.834	1.951	2.057	2.152	2.236	2.309	2.371
23	58.42	.596	.796	.998	1.192	1.378	1.555	1.719	1.874	2.013	2.143	2.261	2.365	2.458	2.537	2.604
24	60.96	.655	.869	1.091	1.305	1.509	1.701	1.882	2.048	2.203	2.345	2.473	2.586	2.688	2.776	2.849

Table 6. — Gross volume in cubic meters

Dbh		Merchantable height in feet (first line) and meters (second line)											
Inches	Centi- meters	10	15	20	25	30	35	40	45	50	55	60	65
		3.05	4.57	6.10	7.62	9.14	10.67	12.19	13.72	15.24	16.76	18.29	19.81
5	12.70	0.031	0.042	0.051	—	—	—	—	—	—	—	—	—
6	15.24	.044	.060	.075	0.088	—	—	—	—	—	—	—	—
7	17.78	.060	.082	.102	.122	0.139	0.157	0.173	—	—	—	—	—
8	20.32	.077	.106	.135	.159	.184	.206	.226	0.243	—	—	—	—
9	22.86	.100	.135	.170	.204	.234	.263	.288	.312	0.332	0.347	—	—
10	25.40	.124	.168	.212	.252	.292	.325	.358	.385	.411	.431	—	—
11	27.94	.150	.204	.256	.307	.354	.396	.436	.469	.500	.526	0.549	0.566
12	30.48	.179	.246	.307	.367	.422	.473	.520	.562	.597	.628	.650	.677
13	33.02	.212	.288	.363	.434	.500	.560	.613	.661	.703	.741	.772	.799
14	35.56	.248	.336	.422	.504	.582	.650	.714	.772	.821	.865	.900	.929
15	38.10	.285	.387	.489	.584	.670	.752	.825	.889	.947	.998	1.037	1.073
16	40.64	.325	.442	.557	.666	.768	.858	.942	1.018	1.084	1.139	1.188	1.225
17	43.18	.369	.502	.633	.757	.869	.975	1.068	1.155	1.228	1.292	1.347	1.391
18	45.72	.416	.566	.712	.852	.980	1.097	1.206	1.301	1.385	1.455	1.517	1.566
19	48.26	.465	.635	.799	.953	1.097	1.230	1.349	1.455	1.548	1.630	1.699	1.754
20	50.80	.518	.706	.889	1.062	1.221	1.369	1.502	1.619	1.725	1.816	1.891	1.953
21	53.34	.573	.783	.984	1.177	1.354	1.515	1.663	1.794	1.911	2.011	2.095	2.163
22	55.88	.633	.863	1.086	1.296	1.493	1.672	1.834	1.980	2.106	2.216	2.309	2.385
23	58.42	.695	.947	1.192	1.425	1.639	1.836	2.013	2.172	2.314	2.435	2.537	2.619
24	60.96	.761	1.035	1.305	1.557	1.794	2.008	2.203	2.378	2.531	2.663	2.776	2.867

Table 7. — Gross weight in tons for soft hardwoods

Dbh (inches)	Merchantable height in feet														64
	8	12	16	20	24	28	32	36	40	44	48	52	56	60	
5	.026	.035	.044	.052	.061	—	—	—	—	—	—	—	—	—	—
6	.038	.051	.064	.076	.088	.099	.110	—	—	—	—	—	—	—	—
7	.052	.069	.087	.104	.120	.136	.150	.163	.175	—	—	—	—	—	—
8	.068	.091	.114	.136	.158	.178	.197	.214	.230	.245	.259	—	—	—	—
9	.087	.116	.145	.174	.201	.226	.250	.273	.293	.312	.329	—	—	—	—
10	.108	.144	.180	.215	.249	.281	.310	.338	.364	.387	.408	.427	.444	—	—
11	.131	.175	.219	.262	.303	.341	.378	.411	.442	.470	.496	.519	.539	.557	.572
12	.157	.209	.262	.313	.362	.408	.452	.492	.529	.563	.593	.621	.645	.666	.684
13	.185	.246	.309	.369	.427	.482	.533	.580	.624	.664	.700	.732	.761	.786	.807
14	.216	.287	.360	.430	.498	.561	.621	.676	.727	.773	.816	.853	.887	.916	.940
15	.249	.331	.415	.497	.574	.648	.716	.780	.839	.892	.941	.985	1.023	1.056	1.085
16	.285	.379	.475	.568	.657	.740	.819	.892	.959	1.020	1.076	1.126	1.170	1.208	1.240
17	.323	.430	.538	.644	.745	.840	.929	1.011	1.088	1.157	1.220	1.277	1.327	1.370	1.407
18	.364	.484	.607	.726	.839	.946	1.046	1.139	1.225	1.304	1.375	1.438	1.495	1.543	1.585
19	.407	.542	.679	.812	.939	1.059	1.171	1.276	1.372	1.460	1.539	1.610	1.673	1.728	1.774
20	.454	.603	.756	.904	1.046	1.179	1.304	1.420	1.527	1.625	1.714	1.793	1.863	1.924	1.975
21	.502	.668	.837	1.002	1.158	1.306	1.445	1.573	1.692	1.800	1.898	1.986	2.064	2.131	2.188
22	.554	.737	.923	1.105	1.277	1.440	1.593	1.735	1.865	1.985	2.093	2.190	2.276	2.350	2.413
23	.608	.809	1.014	1.213	1.403	1.582	1.749	1.905	2.048	2.180	2.299	2.405	2.499	2.580	2.649
24	.666	.885	1.109	1.327	1.535	1.730	1.914	2.084	2.241	2.385	2.515	2.631	2.734	2.823	2.898

Table 8. — Gross weight in tons for soft hardwoods

Dbh (inches)	Merchantable height in feet											
	10	15	20	25	30	35	40	45	50	55	60	65
5	0.031	0.042	0.052	—	—	—	—	—	—	—	—	—
6	.044	.060	.076	0.091	0.143	0.160	0.175	—	—	—	—	—
7	.061	.083	.104	.124	0.187	.210	.230	—	—	—	—	—
8	.080	.108	.136	.163	.238	.267	.293	0.249	—	—	—	—
9	.101	.138	.174	.207	.296	.331	.364	.316	0.337	0.354	—	—
10	.125	.171	.215	.257	.360	.403	.442	.392	.418	.440	—	—
11	.153	.208	.262	.313	.430	.482	.529	.477	.508	.535	0.557	0.575
12	.183	.249	.313	.374	.508	.568	.624	.571	.608	.639	.666	.688
13	.215	.293	.369	.441	.592	.663	.727	.673	.717	.754	.786	.811
14	.251	.342	.430	.514	.682	.764	.839	.784	.835	.879	.916	.946
15	.289	.394	.497	.593	.780	.874	.959	.905	.963	1.014	1.056	1.091
16	.331	.451	.568	.678	.885	.991	1.088	1.035	1.101	1.159	1.208	1.247
17	.375	.511	.644	.769	.997	1.117	1.225	1.174	1.249	1.315	1.370	1.415
18	.423	.576	.726	.866	1.116	1.250	1.372	1.322	1.408	1.481	1.543	1.594
19	.473	.645	.812	.970	1.116	1.250	1.372	1.480	1.576	1.658	1.728	1.784
20	.527	.718	.904	1.080	1.243	1.392	1.527	1.648	1.754	1.846	1.924	1.986
21	.584	.795	1.002	1.196	1.377	1.542	1.692	1.826	1.943	2.045	2.131	2.200
22	.644	.877	1.105	1.319	1.518	1.700	1.865	2.013	2.143	2.255	2.350	2.426
23	.707	.963	1.213	1.449	1.667	1.867	2.048	2.211	2.363	2.477	2.580	2.665
24	.773	1.054	1.327	1.585	1.824	2.043	2.241	2.418	2.575	2.709	2.823	2.915

Table 9.—Gross weight in tons for hard hardwoods

Dbh (inches)	Merchantable height in feet														
	8	12	16	20	24	28	32	36	40	44	48	52	56	60	64
5	0.029	0.039	0.049	0.058	0.067	—	—	—	—	—	—	—	—	—	—
6	.042	.056	.071	.084	.098	0.110	0.122	—	—	—	—	—	—	—	—
7	.058	.077	.097	.115	.134	.151	.167	0.181	0.195	—	—	—	—	—	—
8	.076	.101	.127	.152	.175	.198	.219	.238	.256	0.272	0.287	—	—	—	—
9	.097	.129	.161	.193	.223	.251	.278	.303	.326	.346	.365	0.382	0.397	—	—
10	.120	.160	.200	.239	.277	.312	.345	.376	.404	.430	.453	.474	.493	—	—
11	.146	.194	.243	.291	.336	.379	.420	.457	.491	.523	.551	.577	.599	0.619	0.635
12	.175	.232	.291	.348	.402	.454	.502	.546	.588	.625	.659	.690	.717	.740	.760
13	.206	.274	.343	.410	.475	.535	.592	.644	.693	.737	.778	.814	.845	.873	.896
14	.240	.319	.400	.478	.553	.624	.690	.751	.808	.859	.906	.948	.985	1.017	1.045
15	.277	.368	.461	.552	.638	.719	.796	.866	.932	.991	1.045	1.094	1.137	1.174	1.205
16	.316	.421	.527	.631	.730	.823	.910	.991	1.065	1.134	1.195	1.251	1.300	1.342	1.378
17	.359	.477	.598	.716	.828	.933	1.032	1.124	1.208	1.286	1.356	1.419	1.474	1.522	1.563
18	.404	.538	.674	.806	.932	1.051	1.163	1.266	1.361	1.449	1.528	1.598	1.661	1.715	1.761
19	.453	.602	.754	.903	1.044	1.177	1.301	1.417	1.524	1.622	1.710	1.789	1.859	1.920	1.971
20	.504	.670	.840	1.005	1.162	1.310	1.449	1.578	1.697	1.806	1.904	1.992	2.070	2.137	2.194
21	.558	.742	.931	1.113	1.287	1.451	1.605	1.748	1.880	2.000	2.109	2.207	2.293	2.368	2.431
22	.616	.819	1.026	1.227	1.419	1.601	1.770	1.927	2.073	2.205	2.326	2.433	2.529	2.611	2.681
23	.676	.899	1.127	1.348	1.559	1.758	1.944	2.117	2.276	2.422	2.554	2.672	2.777	2.867	2.944
24	.740	.984	1.233	1.475	1.705	1.923	2.126	2.315	2.490	2.649	2.794	2.923	3.038	3.137	3.220

Table 10.—Gross weight in tons for hard hardwoods

Dbh (inches)	Merchantable height in feet											
	10	15	20	25	30	35	40	45	50	55	60	65
5	0.034	0.046	0.058	—	—	—	—	—	—	—	—	—
6	.049	.067	.084	0.101	—	—	—	—	—	—	—	—
7	.067	.092	.115	.138	0.159	0.178	0.195	—	—	—	—	—
8	.088	.120	.152	.181	.208	.233	.256	0.276	—	—	—	—
9	.112	.153	.193	.230	.265	.297	.326	.351	0.374	0.394	—	—
10	.139	.190	.239	.286	.329	.368	.404	.436	.464	.488	—	—
11	.170	.231	.291	.347	.400	.448	.491	.530	.564	.594	0.619	0.639
12	.203	.276	.348	.416	.478	.536	.588	.634	.675	.710	.740	.764
13	.239	.326	.410	.490	.564	.632	.693	.748	.796	.838	.873	.901
14	.279	.380	.478	.571	.657	.736	.808	.872	.928	.977	1.017	1.051
15	.322	.438	.552	.659	.758	.849	.932	1.005	1.070	1.127	1.174	1.212
16	.368	.501	.631	.753	.867	.971	1.065	1.150	1.224	1.288	1.342	1.386
17	.417	.568	.716	.855	.983	1.101	1.208	1.304	1.388	1.461	1.522	1.572
18	.470	.640	.806	.963	1.108	1.241	1.361	1.469	1.564	1.646	1.715	1.771
19	.526	.717	.903	1.078	1.240	1.389	1.524	1.645	1.751	1.843	1.920	1.982
20	.586	.798	1.005	1.200	1.381	1.547	1.697	1.831	1.949	2.052	2.137	2.207
21	.649	.884	1.113	1.329	1.530	1.713	1.880	2.028	2.159	2.273	2.368	2.445
22	.715	.975	1.227	1.466	1.687	1.889	2.073	2.237	2.381	2.506	2.611	2.696
23	.786	1.070	1.348	1.610	1.852	2.075	2.276	2.456	2.615	2.752	2.867	2.961
24	.859	1.171	1.475	1.761	2.026	2.270	2.490	2.687	2.861	3.010	3.137	3.239

Table 11.—Gross weight in metric tons for soft hardwoods

Inches	Dbb	Merchantable height in feet (first line) and meters (second line)														
		8	12	16	20	24	28	32	36	40	44	48	52	56	60	64
	Centi- meters	2.44	3.66	4.88	6.10	7.32	8.53	9.75	10.97	12.19	13.41	14.63	15.85	17.07	18.29	19.51
5	12.70	0.024	0.033	0.039	0.047	0.055	—	—	—	—	—	—	—	—	—	—
6	15.24	.035	.047	.057	.069	.080	0.090	0.100	—	—	—	—	—	—	—	—
7	17.78	.047	.063	.080	.094	.108	.122	.137	0.149	0.159	—	—	—	—	—	—
8	20.32	.061	.082	.104	.124	.143	.161	.177	.194	.208	0.222	0.235	—	—	—	—
9	22.86	.080	.104	.131	.157	.182	.206	.226	.247	.265	.284	.298	0.312	0.324	—	—
10	25.40	.098	.131	.163	.196	.226	.255	.282	.306	.330	.351	.369	.388	.402	—	—
11	27.94	.118	.159	.198	.237	.275	.310	.343	.373	.402	.426	.451	.471	.490	0.506	0.518
12	30.48	.143	.190	.237	.284	.328	.369	.410	.447	.479	.510	.539	.563	.585	.604	.620
13	33.02	.167	.222	.279	.335	.388	.437	.483	.526	.565	.602	.634	.663	.690	.712	.732
14	35.56	.196	.261	.326	.390	.451	.508	.563	.612	.659	.702	.741	.773	.804	.830	.853
15	38.10	.226	.300	.375	.451	.520	.588	.649	.708	.761	.810	.853	.894	.928	.957	.983
16	40.64	.259	.343	.430	.514	.596	.671	.743	.808	.869	.924	.975	1.020	1.061	1.095	1.124
17	43.18	.294	.390	.488	.583	.675	.761	.843	.918	.985	1.049	1.106	1.159	1.204	1.242	1.275
18	45.72	.330	.439	.551	.657	.761	.857	.949	1.032	1.112	1.181	1.246	1.304	1.355	1.399	1.436
19	48.26	.369	.492	.616	.736	.851	.961	1.063	1.157	1.244	1.324	1.395	1.461	1.518	1.567	1.608
20	50.80	.412	.547	.685	.820	.949	1.069	1.183	1.287	1.385	1.473	1.554	1.626	1.689	1.744	1.791
21	53.34	.455	.606	.759	.908	1.051	1.185	1.310	1.426	1.534	1.632	1.722	1.801	1.871	1.932	1.983
22	55.88	.502	.667	.836	1.002	1.159	1.306	1.444	1.573	1.691	1.799	1.897	1.985	2.062	2.130	2.187
23	58.42	.551	.734	.920	1.100	1.271	1.434	1.585	1.728	1.856	1.977	2.085	2.181	2.266	2.340	2.401
24	60.96	.604	.802	1.006	1.204	1.391	1.569	1.736	1.889	2.032	2.162	2.281	2.385	2.479	2.560	2.628

Table 12. — Gross weight in metric tons for soft hardwoods

Dbh		Merchantable height in feet (first line) and meters (second line)												
Inches	Centi- meters	10	15	20	25	30	35	40	45	50	55	60	65	
		3.05	4.57	6.10	7.62	9.14	10.67	12.19	13.72	15.24	16.76	18.29	19.81	
5	12.70	0.029	0.039	0.047	—	—	—	—	—	—	—	—	—	
6	15.24	.041	.055	.069	0.082	—	—	—	—	—	—	—	—	
7	17.78	.055	.075	.094	.112	0.129	0.145	0.159	—	—	—	—	—	
8	20.32	.071	.098	.124	.147	.169	.190	.208	0.224	—	—	—	—	
9	22.86	.092	.124	.157	.188	.216	.243	.265	.288	0.306	0.320	—	—	
10	25.40	.114	.155	.196	.233	.269	.300	.330	.355	.379	.398	—	—	
11	27.94	.139	.188	.237	.284	.326	.365	.402	.432	.461	.486	0.506	0.522	
12	30.48	.165	.226	.284	.339	.390	.437	.479	.518	.551	.579	.604	.624	
13	33.02	.196	.265	.335	.400	.461	.516	.565	.610	.649	.683	.712	.736	
14	35.56	.228	.310	.390	.465	.537	.600	.659	.712	.757	.798	.830	.857	
15	38.10	.263	.357	.451	.539	.618	.694	.761	.820	.873	.920	.957	.989	
16	40.64	.300	.408	.514	.614	.708	.792	.869	.938	1.000	1.051	1.095	1.130	
17	43.18	.341	.463	.583	.698	.802	.900	.985	1.065	1.132	1.191	1.242	1.283	
18	45.72	.384	.522	.657	.785	.904	1.012	1.112	1.200	1.277	1.342	1.399	1.444	
19	48.26	.482	.585	.736	.879	1.012	1.134	1.244	1.342	1.428	1.503	1.567	1.618	
20	50.80	.477	.651	.820	.979	1.126	1.263	1.385	1.493	1.591	1.675	1.744	1.801	
21	53.34	.528	.722	.908	1.085	1.248	1.397	1.534	1.654	1.763	1.854	1.932	1.995	
22	55.88	.583	.796	1.002	1.195	1.377	1.542	1.691	1.826	1.942	2.044	2.130	2.199	
23	58.42	.641	.873	1.100	1.314	1.512	1.693	1.856	2.003	2.134	2.246	2.340	2.415	
24	60.96	.702	.955	1.204	1.436	1.654	1.852	2.032	2.193	2.334	2.456	2.560	2.644	

Table 13. — Gross weight in metric tons for hard hardwoods

Dbh		Merchantable height in feet (first line) and meters (second line)														
Inches	Centi- meters	8	12	16	20	24	28	32	36	40	44	48	52	56	60	64
		2.44	3.66	4.88	6.10	7.32	8.53	9.75	10.97	12.19	13.41	14.63	15.85	17.07	18.29	19.51
5	12.70	0.027	0.036	0.043	0.052	0.061	—	—	—	—	—	—	—	—	—	—
6	15.24	.039	.052	.064	.077	.089	0.100	0.111	—	—	—	—	—	—	—	—
7	17.78	.052	.070	.089	.104	.120	.136	.152	0.166	0.177	—	—	—	—	—	—
8	20.32	.068	.091	.116	.138	.159	.179	.197	.216	.232	0.247	0.261	—	—	—	—
9	22.86	.089	.116	.145	.175	.202	.229	.252	.275	.295	.316	.331	0.347	0.361	—	—
10	25.40	.109	.145	.182	.218	.252	.284	.313	.341	.368	.390	.411	.431	.447	—	—
11	27.94	.132	.177	.220	.263	.306	.345	.381	.415	.447	.474	.502	.524	.545	0.563	0.577
12	30.48	.159	.211	.263	.316	.365	.411	.456	.497	.533	.568	.599	.627	.651	.672	.690
13	33.02	.186	.247	.311	.372	.431	.486	.538	.586	.629	.670	.706	.738	.767	.792	.815
14	35.56	.218	.291	.363	.434	.502	.565	.627	.681	.733	.781	.824	.860	.894	.924	.949
15	38.10	.252	.334	.418	.502	.579	.654	.722	.788	.847	.901	.949	.994	1.033	1.065	1.094
16	40.64	.288	.381	.479	.572	.663	.747	.826	.899	.967	1.028	1.085	1.135	1.180	1.219	1.251
17	43.18	.327	.434	.543	.649	.751	.847	.938	1.022	1.096	1.167	1.230	1.289	1.339	1.382	1.419
18	45.72	.368	.488	.613	.731	.847	.953	1.056	1.149	1.237	1.314	1.387	1.451	1.507	1.557	1.598
19	48.26	.411	.547	.686	.819	.947	1.069	1.183	1.287	1.385	1.473	1.553	1.625	1.689	1.743	1.789
20	50.80	.459	.608	.763	.913	1.056	1.189	1.317	1.432	1.541	1.639	1.730	1.809	1.880	1.941	1.993
21	53.34	.506	.674	.844	1.010	1.169	1.319	1.457	1.587	1.707	1.816	1.916	2.004	2.082	2.150	2.206
22	55.88	.558	.742	.931	1.115	1.289	1.453	1.607	1.750	1.882	2.002	2.111	2.209	2.295	2.370	2.433
23	58.42	.613	.817	1.024	1.224	1.414	1.596	1.764	1.923	2.066	2.200	2.320	2.427	2.522	2.604	2.672
24	60.96	.672	.892	1.119	1.339	1.548	1.746	1.932	2.102	2.261	2.406	2.538	2.654	2.758	2.849	2.924

Table 14. — Gross weight in metric tons for hard hardwoods

Dbh		Merchantable height in feet (first line) and meters (second line)											
Inches	Centi- meters	10	15	20	25	30	35	40	45	50	55	60	65
		3.05	4.57	6.10	7.62	9.14	10.67	12.19	13.72	15.24	16.76	18.29	19.81
5	12.70	0.032	0.043	0.052	—	—	—	—	—	—	—	—	—
6	15.24	.045	.061	.077	0.091	0.143	0.161	0.177	—	—	—	—	—
7	17.78	.061	.084	.104	.125	.188	.211	.232	0.250	—	—	—	—
8	20.32	.079	.109	.138	.163	.241	.270	.295	.320	0.341	0.356	—	—
9	22.86	.102	.138	.175	.209	—	—	—	—	—	—	—	—
10	25.40	.127	.173	.218	.259	.300	.334	.368	.395	.422	.443	—	—
11	27.94	.154	.209	.263	.316	.363	.406	.447	.481	.513	.540	0.563	0.581
12	30.48	.184	.252	.316	.377	.434	.486	.533	.577	.613	.645	.672	.695
13	33.02	.218	.295	.372	.445	.513	.574	.629	.679	.722	.760	.792	.819
14	35.56	.254	.345	.434	.518	.597	.667	.733	.792	.842	.888	.924	.953
15	38.10	.293	.397	.502	.599	.688	.772	.847	.913	.972	1.024	1.065	1.101
16	40.64	.334	.454	.572	.683	.788	.881	.967	1.044	1.112	1.169	1.219	1.258
17	43.18	.379	.515	.649	.776	.892	1.001	1.096	1.185	1.260	1.326	1.382	1.428
18	45.72	.427	.581	.731	.874	1.006	1.126	1.237	1.335	1.421	1.494	1.557	1.607
19	48.26	.477	.651	.819	.978	1.126	1.262	1.385	1.494	1.589	1.673	1.743	1.800
20	50.80	.531	.724	.913	1.090	1.253	1.405	1.541	1.662	1.771	1.864	1.941	2.004
21	53.34	.588	.804	1.010	1.208	1.389	1.555	1.707	1.841	1.961	2.063	2.150	2.220
22	55.88	.649	.885	1.115	1.330	1.532	1.716	1.882	2.032	2.161	2.275	2.370	2.447
23	58.42	.713	.972	1.224	1.462	1.682	1.884	2.066	2.229	2.374	2.499	2.604	2.688
24	60.96	.781	1.062	1.339	1.598	1.841	2.061	2.261	2.440	2.597	2.733	2.849	2.942

APPENDIX B

Pulpwood Values

Table

15, 16	Pulpwood values at \$1.00 per cord					
17, 18	"	"	"	1.50	"	"
19, 20	"	"	"	2.00	"	"
21, 22	"	"	"	2.50	"	"
23, 24	"	"	"	3.00	"	"
25, 26	"	"	"	4.00	"	"
27, 28	"	"	"	5.00	"	"
29, 30	"	"	"	7.50	"	"
31, 32	"	"	"	10.00	"	"
33, 34	"	"	"	15.00	"	"
35, 36	"	"	"	20.00	"	"
37, 38	"	"	"	25.00	"	"

All values are to top diameters that are variable, but not less than 4.0 inches.

Odd-numbered tables are for 4-foot merchantable lengths.

Even-numbered tables are for 5-foot merchantable lengths.

Table 15. — Pulpwood values at \$1.00 per cord

Dbh (inches)	Merchantable height in feet														
	8	12	16	20	24	28	32	36	40	44	48	52	56	60	64
5	0.01	0.02	0.02	0.02	0.03	0.04	0.05	0.07	0.08	0.11	0.15	0.19	0.20	0.25	0.25
6	.02	.02	.03	.03	.04	.05	.07	.07	.08	.11	.18	.23	.24	.30	.30
7	.03	.04	.04	.05	.05	.06	.09	.10	.10	.14	.22	.28	.29	.35	.36
8	.04	.05	.06	.08	.09	.10	.11	.12	.13	.17	.26	.33	.34	.41	.42
9	.05	.06	.08	.10	.11	.12	.14	.15	.16	.21	.31	.38	.39	.48	.48
10	.06	.08	.10	.12	.13	.15	.17	.18	.20	.25	.36	.44	.45	.54	.55
11	.07	.09	.12	.14	.16	.18	.20	.22	.24	.29	.42	.50	.52	.61	.63
12	.08	.11	.14	.16	.19	.21	.24	.26	.28	.34	.48	.57	.59	.69	.70
13	.10	.13	.16	.19	.22	.25	.28	.30	.32	.39	.54	.64	.66	.77	.79
14	.11	.15	.18	.22	.26	.29	.32	.35	.37	.40	.68	.72	.74	.85	.88
15	.13	.17	.21	.25	.29	.33	.36	.40	.43	.45	.76	.80	.83	.95	.97
16	.14	.19	.24	.29	.33	.37	.41	.45	.48	.51	.84	.88	.92	1.04	1.07
17	.16	.22	.27	.32	.37	.42	.47	.51	.54	.58	.93	.97	1.01	1.15	1.18
18	.18	.24	.30	.36	.42	.47	.52	.57	.61	.65	1.02	1.07	1.11	1.26	1.29
19	.20	.27	.34	.40	.46	.52	.58	.63	.68	.72	1.12	1.17	1.22	1.36	1.41
20	.22	.30	.37	.45	.51	.58	.64	.70	.75	.80	1.17	1.22	1.27	1.41	1.46
21	.25	.33	.41	.49	.57	.64	.71	.77	.83	.88	1.22	1.27	1.32	1.46	1.51
22	.27	.36	.45	.54	.62	.70	.78	.85	.91	.97	1.27	1.32	1.37	1.51	1.56
23	.30	.39	.49	.59	.68	.77	.85	.93	1.00	1.06	1.32	1.37	1.42	1.56	1.61
24															

Table 16.—Pulpwood values at \$1.00 per cord

Dbh (inches)	Merchantable height in feet											
	10	15	20	25	30	35	40	45	50	55	60	65
5	0.01	0.02	0.02	0.04	—	—	—	—	—	—	—	—
6	.02	.03	.03	.06	—	—	—	—	—	—	—	—
7	.03	.04	.05	.07	0.06	0.07	0.08	—	—	—	—	—
8	.04	.05	.06	.09	.11	.12	.13	0.11	—	—	—	—
9	.04	.06	.08	.11	.13	.15	.16	.14	0.15	0.16	—	—
10	.06	.08	.10	.11	.13	.15	.16	.17	.19	.20	—	—
11	.07	.09	.12	.14	.16	.18	.20	.21	.23	.24	0.25	0.26
12	.08	.11	.14	.17	.19	.21	.24	.25	.27	.28	.30	.31
13	.10	.13	.16	.20	.23	.25	.28	.30	.32	.34	.35	.36
14	.11	.15	.19	.23	.26	.29	.32	.35	.37	.39	.41	.42
15	.13	.18	.22	.26	.30	.34	.37	.40	.43	.45	.47	.48
16	.15	.20	.25	.30	.35	.39	.43	.46	.49	.52	.54	.55
17	.17	.23	.29	.34	.39	.44	.48	.52	.56	.58	.61	.63
18	.19	.26	.32	.39	.44	.50	.54	.59	.63	.66	.69	.71
19	.21	.29	.36	.43	.50	.56	.61	.66	.70	.74	.77	.79
20	.23	.32	.40	.48	.55	.62	.68	.73	.78	.82	.85	.88
21	.26	.35	.45	.53	.61	.69	.75	.81	.86	.91	.95	.98
22	.29	.39	.49	.59	.67	.76	.83	.89	.95	1.00	1.04	1.08
23	.31	.43	.54	.64	.74	.83	.91	.98	1.05	1.10	1.15	1.18
24	.34	.47	.59	.70	.81	.91	1.00	1.08	1.14	1.20	1.26	1.30

Table 17. — Pulpwood values at \$1.50 per cord

Dbh (inches)	Merchantable height in feet														
	8	12	16	20	24	28	32	36	40	44	48	52	56	60	64
5	0.02	0.02	0.03	0.03	0.04	—	—	—	—	—	—	—	—	—	—
6	.03	.03	.04	.05	.06	0.07	0.07	—	—	—	—	—	—	—	—
7	.03	.05	.06	.07	.08	.09	.10	0.11	0.12	—	—	—	—	—	—
8	.05	.06	.08	.09	.11	.12	.13	.14	.15	0.16	0.17	—	—	—	—
9	.06	.08	.10	.12	.13	.15	.17	.18	.20	.21	.22	0.23	0.24	—	—
10	.07	.10	.12	.14	.17	.19	.21	.23	.24	.26	.27	.28	.30	—	—
11	.09	.12	.15	.17	.20	.23	.25	.27	.29	.31	.33	.35	.36	0.37	0.38
12	.10	.14	.17	.21	.24	.27	.30	.33	.35	.38	.40	.41	.43	.44	.46
13	.12	.16	.21	.25	.28	.32	.36	.39	.42	.44	.47	.49	.51	.52	.54
14	.14	.19	.24	.29	.33	.37	.41	.45	.48	.52	.54	.57	.59	.61	.63
15	.17	.22	.28	.33	.38	.43	.48	.52	.56	.59	.63	.66	.68	.70	.72
16	.19	.25	.32	.38	.44	.49	.55	.59	.64	.68	.72	.75	.78	.81	.83
17	.22	.29	.36	.43	.50	.56	.62	.67	.73	.77	.81	.85	.88	.91	.94
18	.24	.32	.40	.48	.56	.63	.70	.76	.82	.87	.92	.96	1.00	1.03	1.06
19	.27	.36	.45	.54	.63	.71	.78	.85	.91	.97	1.03	1.07	1.12	1.15	1.18
20	.30	.40	.50	.60	.70	.79	.87	.95	1.02	1.08	1.14	1.20	1.24	1.28	1.32
21	.33	.45	.56	.67	.77	.87	.96	1.05	1.13	1.20	1.27	1.32	1.38	1.42	1.46
22	.37	.49	.62	.74	.85	.96	1.06	1.16	1.24	1.32	1.40	1.46	1.52	1.57	1.61
23	.41	.54	.68	.81	.94	1.05	1.17	1.27	1.37	1.45	1.53	1.60	1.67	1.72	1.77
24	.44	.59	.74	.89	1.02	1.15	1.28	1.39	1.49	1.59	1.68	1.75	1.82	1.88	1.93

Table 18. — Pulpwood values at \$1.50 per cord

Dbh (inches)	Merchantable height in feet											
	10	15	20	25	30	35	40	45	50	55	60	65
5	0.02	0.03	0.03	—	—	—	—	—	—	—	—	—
6	.03	.04	.05	0.06	—	—	—	—	—	—	—	—
7	.04	.06	.07	.08	0.10	0.11	0.12	—	—	—	—	—
8	.05	.07	.09	.11	.12	.14	.15	0.17	—	—	—	—
9	.07	.09	.12	.14	.16	.18	.20	.21	0.22	0.24	—	—
10	.08	.11	.14	.17	.20	.22	.24	.26	.28	.29	—	—
11	.10	.14	.17	.21	.24	.27	.29	.32	.34	.36	0.37	0.38
12	.12	.17	.21	.25	.29	.32	.35	.38	.41	.43	.44	.46
13	.14	.20	.25	.29	.34	.38	.42	.45	.48	.50	.52	.54
14	.17	.23	.29	.34	.39	.44	.48	.52	.56	.59	.61	.63
15	.19	.26	.33	.40	.45	.51	.56	.60	.64	.68	.70	.73
16	.22	.30	.38	.45	.52	.58	.64	.69	.73	.77	.81	.83
17	.25	.34	.43	.51	.59	.66	.73	.78	.83	.88	.91	.94
18	.28	.38	.48	.58	.66	.74	.82	.88	.94	.99	1.03	1.06
19	.32	.43	.54	.65	.74	.83	.91	.99	1.05	1.11	1.15	1.19
20	.35	.48	.60	.72	.83	.93	1.02	1.10	1.17	1.23	1.28	1.32
21	.39	.53	.67	.80	.92	1.03	1.13	1.22	1.30	1.36	1.42	1.47
22	.43	.58	.74	.88	1.01	1.13	1.24	1.34	1.43	1.50	1.57	1.62
23	.47	.64	.81	.97	1.11	1.24	1.37	1.47	1.57	1.65	1.72	1.78
24	.52	.70	.89	1.06	1.22	1.36	1.49	1.61	1.72	1.81	1.88	1.94

Table 19. — Pulpwood values at \$2.00 per cord

Dbh (inches)	Merchantable height in feet														
	8	12	16	20	24	28	32	36	40	44	48	52	56	60	64
5	0.02	0.03	0.04	0.05	0.05	0.09	0.10	—	—	—	—	—	—	—	—
6	.03	.05	.06	.07	.08	.12	.13	0.15	0.16	—	—	—	—	—	—
7	.05	.06	.08	.09	.11	.16	.17	.19	.20	—	—	—	—	—	—
8	.06	.08	.10	.12	.14	.20	.22	.24	.26	0.22	0.23	—	—	—	—
9	.08	.10	.13	.15	.18	.25	.28	.30	.32	.28	.29	0.31	0.32	—	—
10	.10	.13	.16	.19	.22	.30	.34	.37	.39	.34	.36	.38	.39	—	—
11	.12	.16	.19	.23	.27	.36	.40	.44	.47	.42	.44	.46	.48	0.50	0.51
12	.14	.19	.23	.28	.32	.43	.47	.52	.55	.50	.53	.55	.57	.59	.61
13	.16	.22	.27	.33	.38	.50	.55	.60	.65	.59	.62	.65	.68	.70	.72
14	.19	.26	.32	.38	.44	.58	.64	.69	.75	.69	.73	.76	.79	.81	.84
15	.22	.29	.37	.44	.51	.66	.73	.79	.85	.79	.84	.88	.91	.94	.96
16	.25	.34	.42	.50	.58	.75	.83	.90	.97	.91	.96	1.00	1.04	1.07	1.10
17	.29	.38	.48	.57	.66	.84	.93	1.01	1.09	1.03	1.08	1.14	1.18	1.22	1.25
18	.32	.43	.54	.64	.75	.94	1.04	1.13	1.22	1.16	1.22	1.28	1.33	1.37	1.41
19	.36	.48	.60	.72	.83	.94	1.04	1.13	1.22	1.30	1.37	1.43	1.49	1.54	1.58
20	.40	.54	.67	.80	.93	1.05	1.16	1.26	1.36	1.44	1.52	1.59	1.66	1.71	1.76
21	.45	.59	.74	.89	1.03	1.16	1.28	1.40	1.50	1.60	1.69	1.77	1.83	1.89	1.94
22	.49	.65	.82	.98	1.14	1.28	1.42	1.54	1.66	1.76	1.86	1.95	2.02	2.09	2.14
23	.54	.72	.90	1.08	1.25	1.41	1.55	1.69	1.82	1.94	2.04	2.14	2.22	2.29	2.35
24	.59	.79	.99	1.18	1.36	1.54	1.70	1.85	1.99	2.12	2.24	2.34	2.43	2.51	2.58

Table 20. — Pulpwood values at \$2.00 per cord

Dbh (inches)	Merchantable height in feet											
	10	15	20	25	30	35	40	45	50	55	60	65
5	0.03	0.04	0.05	0.08	—	—	—	—	—	—	—	—
6	.04	.05	.07	.08	0.13	0.14	0.16	—	—	—	—	—
7	.05	.07	.09	.11	.17	.19	.20	0.22	—	—	—	—
8	.07	.10	.12	.14	.21	.24	.26	.28	0.30	—	—	—
9	.09	.12	.15	.18	.26	.29	.32	.35	.37	0.31	—	—
10	.11	.15	.19	.23	.32	.36	.39	.42	.45	.39	—	—
11	.14	.18	.23	.28	.32	.38	.43	.47	.51	.48	0.50	0.51
12	.16	.22	.28	.33	.38	.43	.47	.51	.54	.57	.59	.61
13	.19	.26	.33	.39	.45	.51	.55	.60	.64	.67	.70	.72
14	.22	.30	.38	.46	.53	.59	.65	.70	.74	.78	.81	.84
15	.26	.35	.44	.53	.61	.68	.75	.80	.86	.90	.94	.97
16	.29	.40	.50	.60	.69	.78	.85	.92	.98	1.03	1.07	1.11
17	.33	.45	.57	.68	.79	.88	.97	1.04	1.11	1.17	1.22	1.26
18	.38	.51	.64	.77	.89	.99	1.09	1.18	1.25	1.32	1.37	1.42
19	.42	.57	.72	.86	.99	1.11	1.22	1.32	1.40	1.47	1.54	1.59
20	.47	.64	.80	.96	1.10	1.24	1.36	1.46	1.56	1.64	1.71	1.77
21	.52	.71	.89	1.06	1.22	1.37	1.50	1.62	1.73	1.82	1.89	1.96
22	.57	.78	.98	1.17	1.35	1.51	1.66	1.79	1.90	2.00	2.09	2.16
23	.63	.86	1.08	1.29	1.48	1.66	1.82	1.96	2.09	2.20	2.29	2.37
24	.69	.94	1.18	1.41	1.62	1.82	1.99	2.15	2.29	2.41	2.51	2.59

Table 21. — Pulpwood values at \$2.50 per cord

Dbh (inches)	Merchantable height in feet														
	8	12	16	20	24	28	32	36	40	44	48	52	56	60	64
5	0.03	0.04	0.05	0.06	0.07	—	—	—	—	—	—	—	—	—	—
6	.04	.06	.07	.08	.10	0.11	0.12	—	—	—	—	—	—	—	—
7	.06	.08	.10	.12	.13	.15	.17	0.18	0.19	—	—	—	—	—	—
8	.08	.10	.13	.15	.18	.20	.22	.24	.26	0.27	0.29	—	—	—	—
9	.10	.13	.16	.19	.22	.25	.28	.30	.33	.35	.37	0.38	0.40	—	—
10	.12	.16	.20	.24	.28	.31	.34	.38	.40	.43	.45	.47	.49	—	—
11	.15	.19	.24	.29	.34	.38	.42	.46	.49	.52	.55	.58	.60	0.62	0.64
12	.17	.23	.29	.35	.40	.45	.50	.55	.59	.63	.66	.69	.72	.74	.76
13	.21	.27	.34	.41	.47	.54	.59	.64	.69	.74	.78	.81	.85	.87	.90
14	.24	.32	.40	.48	.55	.62	.69	.75	.81	.86	.91	.95	.99	1.02	1.04
15	.28	.37	.46	.55	.64	.72	.80	.87	.93	.99	1.05	1.09	1.14	1.17	1.21
16	.32	.42	.53	.63	.73	.82	.91	.99	1.07	1.13	1.20	1.25	1.30	1.34	1.38
17	.36	.48	.60	.72	.83	.93	1.03	1.12	1.21	1.29	1.36	1.42	1.47	1.52	1.56
18	.40	.54	.67	.81	.93	1.05	1.16	1.27	1.36	1.45	1.53	1.60	1.66	1.71	1.76
19	.45	.60	.75	.90	1.04	1.18	1.30	1.42	1.52	1.62	1.71	1.79	1.86	1.92	1.97
20	.50	.67	.84	1.00	1.16	1.31	1.45	1.58	1.70	1.81	1.90	1.99	2.07	2.14	2.19
21	.56	.74	.93	1.11	1.29	1.45	1.61	1.75	1.88	2.00	2.11	2.21	2.29	2.37	2.43
22	.62	.82	1.03	1.23	1.42	1.60	1.77	1.93	2.07	2.21	2.33	2.43	2.53	2.61	2.68
23	.68	.90	1.13	1.35	1.56	1.76	1.94	2.12	2.28	2.42	2.55	2.67	2.78	2.87	2.94
24	.74	.98	1.23	1.48	1.71	1.92	2.13	2.32	2.49	2.65	2.80	2.92	3.04	3.14	3.22

Table 22. — Pulpwood values at \$2.50 per cord

Dbh (inches)	Merchantable height in feet											
	10	15	20	25	30	35	40	45	50	55	60	65
5	0.03	0.05	0.06	—	—	—	—	—	—	—	—	—
6	.05	.07	.08	0.10	0.16	0.18	0.19	—	—	—	—	—
7	.07	.09	.12	.14	.21	.23	.26	—	—	—	—	—
8	.09	.12	.15	.18	.26	.30	.33	0.28	—	—	—	—
9	.11	.15	.19	.23	.33	.37	.40	.44	0.37	0.39	—	—
10	.14	.19	.24	.29	.38	.45	.49	.53	.46	.49	—	—
11	.17	.23	.29	.35	.40	.48	.54	.63	.56	.59	0.62	0.64
12	.20	.28	.35	.42	.48	.54	.59	.71	.68	.71	.74	.76
13	.24	.33	.41	.49	.56	.63	.69	.80	.80	.84	.87	.90
14	.28	.38	.48	.57	.66	.74	.81	.87	.93	.98	1.02	1.05
15	.32	.44	.55	.66	.76	.85	.93	1.01	1.07	1.13	1.17	1.21
16	.37	.50	.63	.75	.87	.97	1.07	1.15	1.22	1.29	1.34	1.39
17	.42	.57	.72	.85	.98	1.10	1.21	1.30	1.39	1.46	1.52	1.57
18	.47	.64	.81	.96	1.11	1.24	1.36	1.47	1.56	1.65	1.71	1.77
19	.53	.72	.90	1.08	1.24	1.39	1.52	1.64	1.75	1.84	1.92	1.98
20	.59	.80	1.00	1.20	1.38	1.55	1.70	1.83	1.95	2.05	2.14	2.21
21	.65	.88	1.11	1.33	1.53	1.71	1.88	2.03	2.16	2.27	2.37	2.44
22	.72	.97	1.23	1.47	1.69	1.89	2.07	2.24	2.38	2.51	2.61	2.70
23	.79	1.07	1.35	1.61	1.85	2.07	2.28	2.46	2.61	2.75	2.87	2.96
24	.86	1.17	1.48	1.76	2.03	2.27	2.49	2.69	2.86	3.01	3.14	3.24

Table 23. — Pulpwood values at \$3.00 per cord

Dbh (inches)	Merchantable height in feet														
	8	12	16	20	24	28	32	36	40	44	48	52	56	60	64
5	0.04	0.05	0.06	0.07	0.08	—	—	—	—	—	—	—	—	—	—
6	.05	.07	.08	.10	.12	.13	.15	—	—	—	—	—	—	—	—
7	.07	.09	.12	.14	.16	.18	.20	.22	.23	—	—	—	—	—	—
8	.09	.12	.15	.18	.21	.24	.26	.29	.31	.33	.34	—	—	—	—
9	.12	.15	.19	.23	.27	.30	.33	.36	.39	.42	.44	.46	0.48	—	—
10	.14	.19	.24	.29	.33	.37	.41	.45	.48	.52	.54	.57	.59	—	—
11	.18	.23	.29	.35	.40	.46	.50	.55	.59	.63	.66	.69	.72	0.74	0.76
12	.21	.28	.35	.42	.48	.54	.60	.66	.71	.75	.79	.83	.86	.89	.91
13	.25	.33	.41	.49	.57	.64	.71	.77	.83	.88	.93	.98	1.01	1.05	1.08
14	.29	.38	.48	.57	.66	.75	.83	.90	.97	1.03	1.09	1.14	1.18	1.22	1.25
15	.33	.44	.55	.66	.77	.86	.95	1.04	1.12	1.19	1.25	1.31	1.36	1.41	1.45
16	.38	.50	.63	.76	.88	.99	1.09	1.19	1.28	1.36	1.43	1.50	1.56	1.61	1.65
17	.43	.57	.72	.86	.99	1.12	1.24	1.35	1.45	1.54	1.63	1.70	1.77	1.83	1.88
18	.49	.65	.81	.97	1.12	1.26	1.40	1.52	1.63	1.74	1.83	1.92	1.99	2.06	2.11
19	.54	.72	.91	1.08	1.25	1.41	1.56	1.70	1.83	1.95	2.05	2.15	2.23	2.30	2.37
20	.60	.80	1.01	1.21	1.39	1.57	1.74	1.89	2.04	2.17	2.28	2.39	2.48	2.56	2.63
21	.67	.89	1.12	1.34	1.54	1.74	1.93	2.10	2.26	2.40	2.53	2.65	2.75	2.84	2.92
22	.74	.98	1.23	1.47	1.70	1.92	2.12	2.31	2.49	2.65	2.79	2.92	3.03	3.13	3.22
23	.81	1.08	1.35	1.62	1.87	2.11	2.33	2.54	2.73	2.91	3.06	3.21	3.33	3.44	3.53
24	.89	1.18	1.48	1.77	2.05	2.31	2.55	2.78	2.99	3.18	3.35	3.51	3.65	3.77	3.86

Table 24. — Pulpwood values at \$3.00 per cord

Dbh (inches)	Merchantable height in feet											
	10	15	20	25	30	35	40	45	50	55	60	65
5	0.04	0.06	0.07	—	—	—	—	—	—	—	—	—
6	.06	.08	.10	0.12	—	—	—	—	—	—	—	—
7	.08	.11	.14	.17	0.19	0.21	0.23	—	—	—	—	—
8	.11	.14	.18	.22	.25	.28	.31	0.33	—	—	—	—
9	.13	.18	.23	.28	.32	.36	.39	.42	0.45	0.47	—	—
10	.17	.23	.29	.34	.39	.44	.48	.52	.56	.59	—	—
11	.20	.28	.35	.42	.48	.54	.59	.64	.68	.71	0.74	0.77
12	.24	.33	.42	.50	.57	.64	.71	.76	.81	.85	.89	.92
13	.29	.39	.49	.59	.68	.76	.83	.90	.96	1.01	1.05	1.08
14	.33	.46	.57	.69	.79	.88	.97	1.05	1.11	1.17	1.22	1.26
15	.39	.53	.66	.79	.91	1.02	1.12	1.21	1.28	1.35	1.41	1.45
16	.44	.60	.76	.90	1.04	1.17	1.28	1.38	1.47	1.55	1.61	1.66
17	.50	.68	.86	1.03	1.18	1.32	1.45	1.56	1.67	1.75	1.83	1.89
18	.56	.77	.97	1.16	1.33	1.49	1.63	1.76	1.88	1.98	2.06	2.12
19	.63	.86	1.08	1.29	1.49	1.67	1.83	1.97	2.10	2.21	2.30	2.38
20	.70	.96	1.21	1.44	1.66	1.86	2.04	2.20	2.34	2.46	2.56	2.65
21	.78	1.06	1.34	1.60	1.84	2.06	2.26	2.43	2.59	2.73	2.84	2.93
22	.86	1.17	1.47	1.76	2.02	2.27	2.49	2.68	2.86	3.01	3.13	3.24
23	.94	1.28	1.62	1.93	2.22	2.49	2.73	2.95	3.14	3.30	3.44	3.55
24	1.03	1.40	1.77	2.11	2.43	2.72	2.99	3.23	3.43	3.61	3.77	3.89

Table 25. — Pulpwood values at \$4.00 per cord

Dbh (inches)	Merchantable height in feet														64
	8	12	16	20	24	28	32	36	40	44	48	52	56	60	
5	0.05	0.06	0.08	0.09	0.11	—	—	—	—	—	—	—	—	—	—
6	.07	.09	.11	.14	.16	0.18	0.19	—	—	—	—	—	—	—	—
7	.09	.12	.15	.18	.21	.24	.27	0.29	0.31	—	—	—	—	—	—
8	.12	.16	.20	.24	.28	.32	.35	.38	.41	0.44	—	—	—	—	—
9	.15	.21	.26	.31	.36	.40	.44	.48	.52	.55	0.46	0.61	—	—	—
10	.19	.26	.32	.38	.44	.50	.55	.60	.65	.69	.73	.76	.79	—	—
11	.23	.31	.39	.47	.54	.61	.67	.73	.79	.84	.88	.92	.96	0.99	1.02
12	.28	.37	.47	.56	.64	.73	.80	.87	.94	1.00	1.05	1.10	1.15	1.18	1.22
13	.33	.44	.55	.66	.76	.86	.95	1.03	1.11	1.18	1.24	1.30	1.35	1.40	1.43
14	.38	.51	.64	.77	.88	1.00	1.10	1.20	1.29	1.38	1.45	1.52	1.58	1.63	1.67
15	.44	.59	.74	.88	1.02	1.15	1.27	1.39	1.49	1.59	1.67	1.75	1.82	1.88	1.93
16	.51	.67	.84	1.01	1.17	1.32	1.46	1.59	1.70	1.81	1.91	2.00	2.08	2.15	2.20
17	.57	.76	.96	1.15	1.32	1.49	1.65	1.80	1.93	2.06	2.17	2.27	2.36	2.44	2.50
18	.65	.86	1.08	1.29	1.49	1.68	1.86	2.03	2.18	2.32	2.44	2.56	2.66	2.74	2.82
19	.72	.96	1.21	1.44	1.67	1.88	2.08	2.27	2.44	2.59	2.74	2.86	2.97	3.07	3.15
20	.81	1.07	1.34	1.61	1.86	2.10	2.32	2.52	2.71	2.89	3.05	3.19	3.31	3.42	3.51
21	.89	1.19	1.49	1.78	2.06	2.32	2.57	2.80	3.01	3.20	3.37	3.53	3.67	3.79	3.89
22	.99	1.31	1.64	1.96	2.27	2.56	2.83	3.08	3.32	3.53	3.72	3.89	4.05	4.18	4.29
23	1.08	1.44	1.80	2.16	2.49	2.81	3.11	3.39	3.64	3.88	4.09	4.28	4.44	4.59	4.71
24	1.18	1.57	1.97	2.36	2.73	3.08	3.40	3.70	3.98	4.24	4.47	4.68	4.86	5.02	5.15

Table 26. — Pulpwood values at \$4.00 per cord

Dbh (inches)	Merchantable height in feet											
	10	15	20	25	30	35	40	45	50	55	60	65
5	0.05	0.07	0.09	—	—	—	—	—	—	—	—	—
6	.08	.11	.14	0.16	—	—	—	—	—	—	—	—
7	.11	.15	.18	.22	0.25	0.28	0.31	—	—	—	—	—
8	.14	.19	.24	.29	.33	.37	.41	0.44	—	—	—	—
9	.18	.24	.31	.37	.42	.47	.52	.56	0.60	0.63	—	—
10	.22	.30	.38	.46	.53	.59	.65	.70	.74	.78	—	—
11	.27	.37	.47	.56	.64	.72	.79	.85	.90	.95	0.99	1.02
12	.32	.44	.56	.66	.77	.86	.94	1.01	1.08	1.14	1.18	1.22
13	.38	.52	.66	.78	.90	1.01	1.11	1.20	1.27	1.34	1.40	1.44
14	.45	.61	.77	.91	1.05	1.18	1.29	1.39	1.48	1.56	1.63	1.68
15	.51	.70	.88	1.05	1.21	1.36	1.49	1.61	1.71	1.80	1.88	1.94
16	.59	.80	1.01	1.21	1.39	1.55	1.70	1.84	1.96	2.06	2.15	2.22
17	.67	.91	1.15	1.37	1.57	1.76	1.93	2.09	2.22	2.34	2.44	2.51
18	.75	1.02	1.29	1.54	1.77	1.99	2.18	2.35	2.50	2.63	2.74	2.83
19	.84	1.15	1.44	1.72	1.98	2.22	2.44	2.63	2.80	2.95	3.07	3.17
20	.94	1.28	1.61	1.92	2.21	2.47	2.71	2.93	3.12	3.28	3.42	3.53
21	1.04	1.41	1.78	2.13	2.45	2.74	3.01	3.25	3.46	3.64	3.79	3.91
22	1.14	1.56	1.96	2.35	2.70	3.02	3.32	3.58	3.81	4.01	4.18	4.31
23	1.26	1.71	2.16	2.58	2.96	3.32	3.64	3.93	4.18	4.40	4.59	4.74
24	1.38	1.87	2.36	2.82	3.24	3.63	3.98	4.30	4.58	4.82	5.02	5.18

Table 27. — Pulpwood values at \$5.00 per cord

Dbh (inches)	Merchantable height in feet														
	8	12	16	20	24	28	32	36	40	44	48	52	56	60	64
5	0.06	0.08	0.10	0.12	0.13	—	—	—	—	—	—	—	—	—	—
6	.08	.11	.14	.17	.20	0.22	0.24	—	—	—	—	—	—	—	—
7	.12	.15	.19	.23	.27	.30	.33	—	—	—	—	—	—	—	—
8	.15	.20	.25	.30	.35	.40	.44	0.36	0.39	—	—	—	—	—	—
9	.19	.26	.32	.39	.45	.50	.56	.61	.65	0.54	0.57	—	—	—	—
10	.24	.32	.40	.48	.55	.62	.69	.75	.81	.86	.91	.95	.99	—	—
11	.29	.39	.49	.58	.67	.76	.84	.91	.98	1.05	1.10	1.15	1.20	1.24	1.27
12	.35	.46	.58	.70	.80	.91	1.00	1.09	1.18	1.25	1.32	1.38	1.43	1.48	1.52
13	.41	.55	.69	.82	.95	1.07	1.18	1.29	1.39	1.47	1.56	1.63	1.69	1.75	1.79
14	.48	.64	.80	.96	1.11	1.25	1.38	1.50	1.62	1.72	1.81	1.90	1.97	2.03	2.09
15	.55	.74	.92	1.10	1.28	1.44	1.59	1.73	1.86	1.98	2.09	2.19	2.27	2.35	2.41
16	.63	.84	1.05	1.26	1.46	1.65	1.82	1.98	2.13	2.27	2.39	2.50	2.60	2.68	2.76
17	.72	.95	1.20	1.43	1.66	1.87	2.06	2.25	2.42	2.57	2.71	2.84	2.95	3.04	3.13
18	.81	1.08	1.35	1.61	1.86	2.10	2.33	2.53	2.72	2.90	3.06	3.20	3.32	3.43	3.52
19	.91	1.20	1.51	1.81	2.09	2.35	2.60	2.83	3.05	3.24	3.42	3.58	3.72	3.84	3.94
20	1.01	1.34	1.68	2.01	2.32	2.62	2.90	3.16	3.39	3.61	3.81	3.98	4.14	4.27	4.39
21	1.12	1.48	1.86	2.23	2.57	2.90	3.21	3.50	3.76	4.00	4.22	4.41	4.59	4.74	4.86
22	1.23	1.64	2.05	2.45	2.84	3.20	3.54	3.85	4.15	4.41	4.65	4.87	5.06	5.22	5.36
23	1.35	1.80	2.25	2.70	3.12	3.52	3.89	4.23	4.55	4.84	5.11	5.34	5.55	5.73	5.89
24	1.48	1.97	2.47	2.95	3.41	3.85	4.26	4.63	4.98	5.30	5.59	5.85	6.08	6.28	6.44

Table 28. — Pulpwood values at \$5.00 per cord

Dbh (inches)	Merchantable height in feet											
	10	15	20	25	30	35	40	45	50	55	60	65
5	0.07	0.09	0.12	—	—	—	—	—	—	—	—	—
6	.10	.13	.17	0.20	—	—	—	—	—	—	—	—
7	.13	.18	.23	.28	0.32	0.36	0.39	—	—	—	—	—
8	.18	.24	.30	.36	.42	.47	.51	0.55	—	—	—	—
9	.22	.31	.39	.46	.53	.59	.65	.70	0.75	0.79	—	—
10	.28	.38	.48	.57	.66	.74	.81	.87	.93	.98	—	—
11	.34	.46	.58	.69	.80	.90	.98	1.06	1.13	1.19	1.24	1.28
12	.41	.55	.70	.83	.96	1.07	1.18	1.27	1.35	1.42	1.48	1.53
13	.48	.65	.82	.98	1.13	1.26	1.39	1.50	1.59	1.68	1.75	1.80
14	.56	.76	.96	1.14	1.31	1.47	1.62	1.74	1.86	1.95	2.03	2.10
15	.64	.88	1.10	1.32	1.52	1.70	1.86	2.01	2.14	2.25	2.35	2.42
16	.74	1.00	1.26	1.51	1.73	1.94	2.13	2.30	2.45	2.58	2.68	2.77
17	.83	1.14	1.43	1.71	1.97	2.20	2.42	2.61	2.78	2.92	3.04	3.14
18	.94	1.28	1.61	1.93	2.22	2.48	2.72	2.94	3.13	3.29	3.43	3.54
19	1.05	1.43	1.81	2.16	2.48	2.78	3.05	3.29	3.50	3.69	3.84	3.96
20	1.17	1.60	2.01	2.40	2.76	3.09	3.39	3.66	3.90	4.10	4.27	4.41
21	1.30	1.77	2.23	2.66	3.06	3.43	3.76	4.06	4.32	4.55	4.74	4.89
22	1.43	1.95	2.45	2.93	3.37	3.78	4.15	4.47	4.76	5.01	5.22	5.39
23	1.57	2.14	2.70	3.22	3.70	4.15	4.55	4.91	5.23	5.50	5.73	5.92
24	1.72	2.34	2.95	3.52	4.06	4.54	4.98	5.38	5.72	6.02	6.28	6.48

Table 29. — Pulpwood values at \$7.50 per cord

Dbh (inches)	Merchantable height in feet														64
	8	12	16	20	24	28	32	36	40	44	48	52	56	60	
5	0.09	0.12	0.15	0.17	0.20	—	—	—	—	—	—	—	—	—	—
6	.13	.17	.21	.25	.29	0.33	0.37	—	—	—	—	—	—	—	—
7	.17	.23	.29	.35	.40	.45	.50	0.54	0.58	—	—	—	—	—	—
8	.23	.30	.38	.45	.53	.59	.66	.71	.77	0.82	0.86	—	—	—	—
9	.29	.39	.48	.58	.67	.75	.83	.91	.98	1.04	1.10	1.15	1.19	—	—
10	.36	.48	.60	.72	.83	.94	1.03	1.13	1.21	1.29	1.36	1.42	1.48	—	—
11	.44	.58	.73	.87	1.01	1.14	1.26	1.37	1.47	1.57	1.65	1.73	1.80	1.86	1.91
12	.52	.70	.87	1.04	1.21	1.36	1.51	1.64	1.76	1.88	1.98	2.07	2.15	2.22	2.28
13	.62	.82	1.03	1.23	1.42	1.61	1.78	1.93	2.08	2.21	2.33	2.44	2.54	2.62	2.69
14	.72	.96	1.20	1.43	1.66	1.87	2.07	2.25	2.42	2.58	2.72	2.84	2.96	3.05	3.13
15	.83	1.10	1.38	1.66	1.91	2.16	2.39	2.60	2.80	2.97	3.14	3.28	3.41	3.52	3.62
16	.95	1.26	1.58	1.89	2.19	2.47	2.73	2.97	3.20	3.40	3.59	3.75	3.90	4.03	4.13
17	1.08	1.43	1.79	2.15	2.48	2.80	3.10	3.37	3.63	3.86	4.07	4.26	4.42	4.57	4.69
18	1.21	1.61	2.02	2.42	2.80	3.15	3.49	3.80	4.08	4.35	4.58	4.79	4.98	5.14	5.28
19	1.36	1.81	2.26	2.71	3.13	3.53	3.90	4.25	4.57	4.87	5.13	5.37	5.58	5.76	5.91
20	1.51	2.01	2.52	3.01	3.49	3.93	4.35	4.73	5.09	5.42	5.71	5.98	6.21	6.41	6.58
21	1.67	2.23	2.79	3.34	3.86	4.35	4.82	5.24	5.64	6.00	6.33	6.62	6.88	7.10	7.29
22	1.85	2.46	3.08	3.68	4.26	4.80	5.31	5.78	6.22	6.62	6.98	7.30	7.59	7.83	8.04
23	2.03	2.70	3.38	4.04	4.68	5.27	5.83	6.35	6.83	7.27	7.66	8.02	8.33	8.60	8.83
24	2.22	2.95	3.70	4.43	5.12	5.77	6.38	6.95	7.47	7.95	8.39	8.77	9.11	9.41	9.66

Table 30. — Pulpwood values at \$7.50 per cord

Dbh (inches)	Merchantable height in feet											
	10	15	20	25	30	35	40	45	50	55	60	65
5	0.10	0.14	0.17	—	—	—	—	—	—	—	—	—
6	.15	.20	.25	0.30	—	—	—	—	—	—	—	—
7	.20	.28	.35	.41	0.48	0.53	0.58	—	—	—	—	—
8	.27	.36	.45	.54	.62	.70	.77	0.83	—	—	—	—
9	.34	.46	.58	.69	.79	.89	.98	1.05	1.12	1.18	—	—
10	.42	.57	.72	.86	.99	1.10	1.21	1.31	1.39	1.47	—	—
11	.51	.69	.87	1.04	1.20	1.34	1.47	1.59	1.69	1.78	1.86	1.92
12	.61	.83	1.04	1.25	1.43	1.61	1.76	1.90	2.03	2.13	2.22	2.29
13	.72	.98	1.23	1.47	1.69	1.89	2.08	2.24	2.39	2.51	2.62	2.70
14	.84	1.14	1.43	1.71	1.97	2.21	2.42	2.61	2.78	2.93	3.05	3.15
15	.96	1.31	1.66	1.98	2.27	2.55	2.80	3.02	3.21	3.38	3.52	3.64
16	1.10	1.50	1.89	2.26	2.60	2.91	3.20	3.45	3.67	3.86	4.03	4.16
17	1.25	1.70	2.15	2.56	2.95	3.30	3.63	3.91	4.16	4.38	4.57	4.72
18	1.41	1.92	2.42	2.89	3.32	3.72	4.08	4.41	4.69	4.94	5.14	5.31
19	1.58	2.15	2.71	3.23	3.72	4.17	4.57	4.93	5.25	5.53	5.76	5.95
20	1.76	2.39	3.01	3.60	4.14	4.64	5.09	5.49	5.85	6.15	6.41	6.62
21	1.95	2.65	3.34	3.99	4.59	5.14	5.64	6.09	6.48	6.82	7.10	7.33
22	2.15	2.92	3.68	4.40	5.06	5.67	6.22	6.71	7.14	7.52	7.83	8.09
23	2.36	3.21	4.04	4.83	5.56	6.22	6.83	7.37	7.84	8.26	8.60	8.88
24	2.58	3.51	4.43	5.28	6.08	6.81	7.47	8.06	8.58	9.03	9.41	9.72

Table 31. — Pulpwood values at \$10.00 per cord

Dbh (inches)	Merchantable height in feet														
	8	12	16	20	24	28	32	36	40	44	48	52	56	60	64
5	0.12	0.16	0.19	0.23	0.27	—	—	—	—	—	—	—	—	—	—
6	.17	.23	.28	.34	.39	0.44	0.49	—	—	—	—	—	—	—	—
7	.23	.31	.39	.46	.53	.60	.67	0.73	0.78	—	—	—	—	—	—
8	.30	.40	.51	.61	.70	.79	.87	.95	1.02	1.09	1.15	—	—	—	—
9	.39	.51	.64	.77	.89	1.01	1.11	1.21	1.30	1.39	1.46	1.53	1.59	—	—
10	.48	.64	.80	.96	1.11	1.25	1.38	1.50	1.62	1.72	1.81	1.90	1.97	—	—
11	.58	.78	.97	1.16	1.35	1.52	1.68	1.83	1.97	2.09	2.21	2.31	2.40	2.48	2.54
12	.70	.93	1.16	1.39	1.61	1.81	2.01	2.19	2.35	2.50	2.64	2.76	2.87	2.96	3.04
13	.82	1.09	1.37	1.64	1.90	2.14	2.37	2.58	2.77	2.95	3.11	3.25	3.38	3.49	3.59
14	.96	1.28	1.60	1.91	2.21	2.49	2.76	3.00	3.23	3.44	3.63	3.79	3.94	4.07	4.18
15	1.11	1.47	1.84	2.21	2.55	2.88	3.18	3.47	3.73	3.97	4.18	4.38	4.55	4.69	4.82
16	1.27	1.68	2.11	2.52	2.92	3.29	3.64	3.96	4.26	4.53	4.78	5.00	5.20	5.37	5.51
17	1.44	1.91	2.39	2.86	3.31	3.73	4.13	4.50	4.83	5.14	5.42	5.68	5.90	6.09	6.25
18	1.62	2.15	2.70	3.22	3.73	4.20	4.65	5.06	5.45	5.79	6.11	6.39	6.64	6.86	7.04
19	1.81	2.41	3.02	3.61	4.17	4.71	5.21	5.67	6.10	6.49	6.84	7.16	7.44	7.68	7.88
20	2.02	2.68	3.36	4.02	4.65	5.24	5.80	6.31	6.79	7.22	7.62	7.97	8.28	8.55	8.78
21	2.23	2.97	3.72	4.45	5.15	5.81	6.42	6.99	7.52	8.00	8.44	8.83	9.17	9.47	9.72
22	2.46	3.27	4.10	4.91	5.68	6.40	7.08	7.71	8.29	8.82	9.30	9.73	10.11	10.44	10.72
23	2.70	3.60	4.51	5.39	6.23	7.03	7.77	8.47	9.10	9.69	10.22	10.69	11.11	11.47	11.77
24	2.96	3.93	4.93	5.90	6.82	7.69	8.51	9.26	9.96	10.60	11.18	11.69	12.15	12.55	12.88

Table 32. — Pulpwood values at \$10.00 per cord

Dbh (inches)	Merchantable height in feet											
	10	15	20	25	30	35	40	45	50	55	60	65
5	0.14	0.19	0.23	—	—	—	—	—	—	—	—	—
6	.20	.27	.34	0.40	—	—	—	—	—	—	—	—
7	.27	.37	.46	.55	0.63	0.71	0.78	—	—	—	—	—
8	.35	.48	.61	.72	.83	.93	1.02	1.10	—	—	—	—
9	.45	.61	.77	.92	1.06	1.19	1.30	1.41	1.50	1.57	—	—
10	.56	.76	.96	1.14	1.32	1.47	1.62	1.74	1.86	1.95	—	—
11	.68	.92	1.16	1.39	1.60	1.79	1.97	2.12	2.26	2.38	2.48	2.56
12	.81	1.11	1.39	1.66	1.91	2.14	2.35	2.54	2.70	2.84	2.96	3.06
13	.96	1.30	1.64	1.96	2.26	2.53	2.77	2.99	3.18	3.35	3.49	3.61
14	1.12	1.52	1.91	2.28	2.63	2.94	3.23	3.49	3.71	3.91	4.07	4.20
15	1.29	1.75	2.21	2.64	3.03	3.40	3.73	4.02	4.28	4.51	4.69	4.85
16	1.47	2.00	2.52	3.01	3.47	3.88	4.26	4.60	4.90	5.15	5.37	5.54
17	1.67	2.27	2.86	3.42	3.93	4.41	4.83	5.22	5.55	5.84	6.09	6.29
18	1.88	2.56	3.22	3.85	4.43	4.96	5.45	5.88	6.26	6.58	6.86	7.08
19	2.10	2.87	3.61	4.31	4.96	5.56	6.10	6.58	7.00	7.37	7.68	7.93
20	2.34	3.19	4.02	4.80	5.52	6.19	6.79	7.32	7.80	8.21	8.55	8.83
21	2.59	3.54	4.45	5.32	6.12	6.85	7.52	8.11	8.64	9.09	9.47	9.78
22	2.86	3.90	4.91	5.86	6.75	7.56	8.29	8.95	9.52	10.02	10.44	10.78
23	3.14	4.28	5.39	6.44	7.41	8.30	9.10	9.82	10.46	11.01	11.47	11.84
24	3.44	4.68	5.90	7.04	8.11	9.08	9.96	10.75	11.44	12.04	12.55	12.96

Table 33. — Pulpwood values at \$15.00 per cord

Dbh (inches)	Merchantable height in feet														
	8	12	16	20	24	28	32	36	40	44	48	52	56	60	64
5	0.18	0.23	0.29	0.35	0.40	—	—	—	—	—	—	—	—	—	—
6	.25	.34	.42	.51	.59	0.66	0.73	—	—	—	—	—	—	—	—
7	.35	.46	.58	.69	.80	.90	1.00	1.09	1.17	—	—	—	—	—	—
8	.46	.61	.76	.91	1.05	1.19	1.31	1.43	1.54	1.63	1.72	—	—	—	—
9	.58	.77	.97	1.16	1.34	1.51	1.67	1.82	1.95	2.08	2.19	2.29	2.38	—	—
10	.72	.96	1.20	1.44	1.66	1.87	2.07	2.25	2.42	2.58	2.72	2.85	2.96	—	—
11	.88	1.16	1.46	1.75	2.02	2.28	2.52	2.74	2.95	3.14	3.31	3.46	3.60	3.71	3.81
12	1.05	1.39	1.75	2.09	2.41	2.72	3.01	3.28	3.53	3.75	3.96	4.14	4.30	4.44	4.56
13	1.24	1.64	2.06	2.46	2.85	3.21	3.55	3.87	4.16	4.42	4.67	4.88	5.07	5.24	5.38
14	1.44	1.91	2.40	2.87	3.32	3.74	4.14	4.51	4.85	5.16	5.44	5.69	5.91	6.10	6.27
15	1.66	2.21	2.77	3.31	3.83	4.32	4.77	5.20	5.59	5.95	6.27	6.56	6.82	7.04	7.23
16	1.90	2.52	3.16	3.79	4.38	4.94	5.46	5.94	6.39	6.80	7.17	7.50	7.80	8.05	8.27
17	2.15	2.86	3.59	4.29	4.97	5.60	6.19	6.74	7.25	7.72	8.14	8.51	8.85	9.13	9.38
18	2.43	3.23	4.04	4.84	5.59	6.31	6.98	7.60	8.17	8.69	9.17	9.59	9.96	10.29	10.56
19	2.72	3.61	4.53	5.42	6.26	7.06	7.81	8.50	9.14	9.73	10.26	10.74	11.16	11.52	11.83
20	3.02	4.02	5.04	6.03	6.97	7.86	8.69	9.47	10.18	10.83	11.42	11.95	12.42	12.82	13.17
21	3.35	4.45	5.58	6.68	7.72	8.71	9.63	10.49	11.28	12.00	12.65	13.24	13.76	14.21	14.59
22	3.69	4.91	6.16	7.36	8.52	9.60	10.62	11.56	12.44	13.23	13.95	14.60	15.17	15.67	16.08
23	4.06	5.39	6.76	8.09	9.35	10.55	11.66	12.70	13.66	14.53	15.32	16.03	16.66	17.20	17.66
24	4.44	5.90	7.40	8.85	10.23	11.54	12.77	13.89	14.94	15.90	16.77	17.54	18.23	18.83	19.32

Table 34. — Pulpwood values at \$15.00 per cord

Dbh (inches)	Merchantable height in feet											
	10	15	20	25	30	35	40	45	50	55	60	65
5	0.20	0.28	0.35	—	—	—	—	—	—	—	—	—
6	.30	.40	.51	0.60	—	—	—	—	—	—	—	—
7	.40	.55	.69	.83	0.95	1.07	1.17	—	—	—	—	—
8	.53	.72	.91	1.09	1.25	1.40	1.54	1.66	—	—	—	—
9	.67	.92	1.16	1.38	1.59	1.78	1.95	2.11	2.24	2.36	—	—
10	.84	1.14	1.44	1.71	1.97	2.21	2.42	2.62	2.78	2.93	—	—
11	1.02	1.39	1.75	2.08	2.40	2.69	2.95	3.18	3.39	3.56	3.71	3.83
12	1.22	1.66	2.09	2.49	2.87	3.21	3.53	3.80	4.05	4.26	4.44	4.59
13	1.44	1.96	2.46	2.94	3.38	3.79	4.16	4.49	4.78	5.03	5.24	5.41
14	1.67	2.28	2.87	3.43	3.94	4.42	4.85	5.23	5.57	5.86	6.10	6.30
15	1.93	2.63	3.31	3.95	4.55	5.10	5.59	6.03	6.42	6.76	7.04	7.27
16	2.21	3.01	3.79	4.52	5.20	5.83	6.39	6.90	7.34	7.73	8.05	8.31
17	2.50	3.41	4.29	5.13	5.90	6.61	7.25	7.82	8.33	8.77	9.13	9.43
18	2.82	3.84	4.84	5.78	6.65	7.44	8.17	8.81	9.38	9.88	10.29	10.62
19	3.16	4.30	5.42	6.47	7.44	8.34	9.14	9.87	10.51	11.06	11.52	11.89
20	3.51	4.79	6.03	7.20	8.29	9.28	10.18	10.99	11.70	12.31	12.82	13.24
21	3.89	5.30	6.68	7.98	9.18	10.28	11.28	12.17	12.96	13.64	14.21	14.67
22	4.29	5.85	7.36	8.79	10.12	11.34	12.44	13.42	14.29	15.04	15.67	16.18
23	4.71	6.42	8.09	9.66	11.11	12.45	13.66	14.74	15.69	16.51	17.20	17.76
24	5.16	7.02	8.85	10.56	12.17	13.62	14.94	16.13	17.16	18.06	18.83	19.44

Table 35. — Pulpwood values at \$20.00 per cord

Dbh (inches)	Merchantable height in feet														
	8	12	16	20	24	28	32	36	40	44	48	52	56	60	64
5	0.24	0.32	0.38	0.46	0.54	—	—	—	—	—	—	—	—	—	—
6	.34	.46	.56	.68	.78	0.88	0.98	—	—	—	—	—	—	—	—
7	.46	.62	.78	.92	1.06	1.20	1.34	—	—	—	—	—	—	—	—
8	.60	.80	1.02	1.22	1.40	1.58	1.74	1.46	1.56	—	—	—	—	—	—
9	.78	1.02	1.28	1.54	1.78	2.02	2.22	2.42	2.60	2.18	2.30	—	—	—	—
10	.96	1.28	1.60	1.92	2.22	2.50	2.76	3.00	3.24	3.44	3.62	3.80	3.94	—	—
11	1.16	1.56	1.94	2.32	2.70	3.04	3.36	3.66	3.94	4.18	4.42	4.62	4.80	4.96	5.08
12	1.40	1.86	2.32	2.78	3.22	3.62	4.02	4.38	4.70	5.00	5.28	5.52	5.74	5.92	6.08
13	1.64	2.18	2.74	3.28	3.80	4.28	4.74	5.16	5.54	5.90	6.22	6.50	6.76	6.98	7.18
14	1.92	2.56	3.20	3.82	4.42	4.98	5.52	6.00	6.46	6.88	7.26	7.58	7.88	8.14	8.36
15	2.22	2.94	3.68	4.42	5.10	5.76	6.36	6.94	7.46	7.94	8.36	8.76	9.10	9.38	9.64
16	2.54	3.36	4.22	5.04	5.84	6.58	7.28	7.92	8.52	9.06	9.56	10.00	10.40	10.74	11.02
17	2.88	3.82	4.78	5.72	6.62	7.46	8.26	9.00	9.66	10.28	10.84	11.36	11.84	12.18	12.50
18	3.24	4.30	5.40	6.44	7.46	8.40	9.30	10.12	10.90	11.58	12.22	12.78	13.28	13.72	14.08
19	3.62	4.82	6.04	7.22	8.34	9.42	10.42	11.34	12.20	12.98	13.68	14.32	14.88	15.36	15.76
20	4.04	5.36	6.72	8.04	9.30	10.48	11.60	12.62	13.58	14.44	15.24	15.94	16.56	17.10	17.56
21	4.46	5.94	7.44	8.90	10.30	11.62	12.84	13.98	15.04	16.00	16.88	17.66	18.34	18.94	19.44
22	4.92	6.54	8.20	9.82	11.36	12.80	14.16	15.42	16.58	17.64	18.60	19.46	20.22	20.88	21.44
23	5.40	7.20	9.02	10.78	12.46	14.06	15.54	16.94	18.20	19.38	20.44	21.38	22.22	22.94	23.54
24	5.92	7.86	9.86	11.80	13.64	15.38	17.02	18.52	19.92	21.20	22.36	23.38	24.30	25.10	25.76

Table 36. — Pulpwood values at \$20.00 per cord

Dbh (inches)	Merchantable height in feet											
	10	15	20	25	30	35	40	45	50	55	60	65
5	0.28	0.38	0.46	—	—	—	—	—	—	—	—	—
6	.40	.54	.68	0.80	—	—	—	—	—	—	—	—
7	.54	.74	.92	1.10	1.26	1.42	1.56	—	—	—	—	—
8	.70	.96	1.22	1.44	1.66	1.86	2.04	2.20	—	—	—	—
9	.90	1.22	1.54	1.84	2.12	2.38	2.60	2.82	3.00	3.14	—	—
10	1.12	1.52	1.92	2.28	2.64	2.94	3.24	3.48	3.72	3.90	—	—
11	1.36	1.84	2.32	2.78	3.20	3.58	3.94	4.24	4.52	4.76	4.96	5.12
12	1.62	2.22	2.78	3.32	3.82	4.28	4.70	5.08	5.40	5.68	5.92	6.12
13	1.92	2.60	3.28	3.92	4.52	5.06	5.54	5.98	6.36	6.70	6.98	7.22
14	2.24	3.04	3.82	4.56	5.26	5.88	6.46	6.98	7.42	7.82	8.14	8.40
15	2.58	3.50	4.42	5.28	6.06	6.80	7.46	8.04	8.56	9.02	9.38	9.70
16	2.94	4.00	5.04	6.02	6.94	7.76	8.52	9.20	9.80	10.30	10.74	11.08
17	3.34	4.54	5.72	6.84	7.86	8.82	9.66	10.44	11.10	11.68	12.18	12.58
18	3.76	5.12	6.44	7.70	8.86	9.92	10.90	11.76	12.52	13.16	13.72	14.16
19	4.20	5.74	7.22	8.62	9.92	11.12	12.20	13.16	14.00	14.74	15.36	15.86
20	4.68	6.38	8.04	9.60	11.04	12.38	13.58	14.64	15.60	16.42	17.10	17.66
21	5.18	7.08	8.90	10.64	12.24	13.70	15.04	16.22	17.28	18.18	18.94	19.56
22	5.72	7.80	9.82	11.72	13.50	15.12	16.58	17.90	19.04	20.04	20.88	21.56
23	6.28	8.56	10.78	12.88	14.82	16.60	18.20	19.64	20.92	22.02	22.94	23.68
24	6.88	9.36	11.80	14.08	16.22	18.16	19.92	21.50	22.88	24.08	25.10	25.92

Table 37. — Pulpwood values at \$25.00 per cord

Dbh (inches)	Merchantable height in feet														64
	8	12	16	20	24	28	32	36	40	44	48	52	56	60	
5	0.30	0.40	0.48	0.58	0.68	—	—	—	—	—	—	—	—	—	—
6	.43	.58	.70	.85	.98	1.10	1.23	—	—	—	—	—	—	—	—
7	.58	.78	.98	1.15	1.33	1.50	1.68	1.83	1.95	—	—	—	—	—	—
8	.75	1.00	1.28	1.53	1.75	1.98	2.18	2.38	2.55	2.73	2.88	—	—	—	—
9	.98	1.28	1.60	1.93	2.23	2.53	2.78	3.03	3.25	3.48	3.65	3.83	3.98	—	—
10	1.20	1.60	2.00	2.40	2.78	3.13	3.45	3.75	4.05	4.30	4.53	4.75	4.93	—	—
11	1.45	1.95	2.43	2.90	3.38	3.80	4.20	4.58	4.93	5.23	5.53	5.78	6.00	6.20	6.35
12	1.75	2.33	2.90	3.48	4.03	4.53	5.03	5.48	5.88	6.25	6.60	6.90	7.18	7.40	7.60
13	2.05	2.73	3.43	4.10	4.75	5.35	5.93	6.45	6.93	7.38	7.78	8.13	8.45	8.73	8.98
14	2.40	3.20	4.00	4.78	5.53	6.23	6.90	7.50	8.08	8.60	9.08	9.48	9.85	10.18	10.45
15	2.78	3.68	4.60	5.53	6.38	7.20	7.95	8.68	9.33	9.93	10.45	10.95	11.38	11.73	12.05
16	3.18	4.20	5.28	6.30	7.30	8.23	9.10	9.90	10.65	11.33	11.95	12.50	13.00	13.43	13.78
17	3.60	4.78	5.98	7.15	8.28	9.33	10.33	11.25	12.08	12.85	13.55	14.20	14.75	15.23	15.63
18	4.05	5.38	6.75	8.05	9.33	10.50	11.63	12.63	13.63	14.48	15.28	15.98	16.60	17.15	17.60
19	4.53	6.03	7.55	9.03	10.43	11.78	13.03	14.18	15.25	16.23	17.10	17.90	18.60	19.20	19.70
20	5.05	6.70	8.40	10.05	11.63	13.10	14.50	15.78	16.98	18.05	19.05	19.93	20.70	21.38	21.95
21	5.58	7.43	9.30	11.13	12.88	14.53	16.05	17.48	18.80	20.00	21.10	22.08	22.93	23.68	24.30
22	6.15	8.18	10.25	12.28	14.20	16.00	17.70	19.28	20.73	22.05	23.25	24.33	25.28	26.10	26.80
23	6.75	9.00	11.28	13.48	15.58	17.58	19.43	21.18	22.75	24.23	25.55	26.73	27.78	28.68	29.43
24	7.40	9.83	12.33	14.75	17.05	19.23	21.28	23.15	24.90	26.50	27.95	29.23	30.38	31.38	32.20

Table 38. — Pulpwood values at \$25.00 per cord

Dbh (inches)	Merchantable height in feet												
	10	15	20	25	30	35	40	45	50	55	60	65	
5	0.35	0.48	0.58	—	—	—	—	—	—	—	—	—	
6	.50	.68	.85	1.00	—	—	—	—	—	—	—	—	
7	.68	.93	1.15	1.38	1.58	1.78	1.95	—	—	—	—	—	
8	.88	1.20	1.53	1.80	2.08	2.33	2.55	2.75	—	—	—	—	
9	1.13	1.53	1.93	2.30	2.65	2.98	3.25	3.53	3.75	3.93	—	—	
10	1.40	1.90	2.40	2.85	3.30	3.68	4.05	4.35	4.65	4.88	—	—	
11	1.70	2.30	2.90	3.48	4.00	4.48	4.93	5.30	5.65	5.95	6.20	6.40	
12	2.03	2.78	3.48	4.15	4.78	5.35	5.88	6.35	6.75	7.10	7.40	7.65	
13	2.40	3.25	4.10	4.90	5.65	6.33	6.93	7.48	7.95	8.38	8.73	9.03	
14	2.80	3.80	4.78	5.70	6.58	7.35	8.08	8.73	9.28	9.78	10.18	10.50	
15	3.23	4.38	5.53	6.60	7.58	8.50	9.33	10.05	10.70	11.28	11.73	12.13	
16	3.68	5.00	6.30	7.53	8.68	9.70	10.65	11.50	12.25	12.88	13.43	13.85	
17	4.18	5.68	7.15	8.55	9.83	11.03	12.08	13.05	13.88	14.60	15.23	15.73	
18	4.70	6.40	8.05	9.63	11.08	12.40	13.63	14.70	15.65	16.45	17.15	17.70	
19	5.25	7.18	9.03	10.78	12.40	13.90	15.25	16.45	17.50	18.43	19.20	19.83	
20	5.85	7.98	10.05	12.00	13.80	15.48	16.98	18.30	19.50	20.53	21.38	22.08	
21	6.48	8.85	11.13	13.30	15.30	17.13	18.80	20.28	21.60	22.73	23.68	24.45	
22	7.15	9.75	12.28	14.65	16.88	18.90	20.73	22.38	23.80	25.05	26.10	26.95	
23	7.85	10.70	13.48	16.10	18.53	20.75	22.75	24.55	26.15	27.53	28.68	29.60	
24	8.60	11.70	14.75	17.60	20.28	22.70	24.90	26.88	28.60	30.10	31.38	32.40	

Headquarters of the Northeastern Forest Experiment Station are in Upper Darby, Pa. Field laboratories and research units are maintained at:

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- Burlington, Vermont, in cooperation with the University of Vermont.
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