

Bend, Oregon

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BOARD FOOT VOLUME TABLE FOR LODGEPOLE PINE

By

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Lodgepole pine has been recognized by foresters as a potentially important timber species for many years. Local ranchers have made and used stockade poles and fence posts since homesteading days. The ease with which it can be impregnated and treated with preservatives has been appreciated and several tie-cutting operations have occurred since World War II. Today it is being seriously sought and marketed on its own as lumber and approval has been announced of its pulping qualities. The occurrence of tight knots, pleasing grain, and inherent luster has favored it for knotty-pine panelling, interior finishing and specialized mouldings.

Volume tables for lodgepole pine of a local nature have been made in emergencies for pertinent stands in eastern Oregon. More standardization is required and the following table is based upon 277 tree measurements from current logging operations in the extensive lodgepole pine stands of the Deschutes River basin. This table is an initial attempt making use of considerably more basic measurements, lower diameter classes (5.5" d. b. h.) and smaller top diameter limits (5.5" diameter inside bark).

The rapid extension of utilization practices, markets and varieties of products makes the construction of a cubic foot volume table on a regional basis urgent and necessary. To do this, tree measurements will be needed from other important stands in the Northwest.

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STANDARD VOLUME TABLE
FOR
Lodgepole Pine on the Deschutes Plateau 1/
MERCHANTABLE HEIGHT IN FEET - 8 FOOT LOGS

D.B.H. (inches)	8'	16'	24'	32'	40'	48'	56'	64'	Basis No. of trees
GROSS VOLUME (Board Feet) OF TREE - SCRIBNER DECIMAL "C" LOG RULE									
6	0.5	1.4	2.1	3.2	4.5				14
7	0.5	1.8	2.7	3.8	5.4				25
8	0.5	2.0	3.3	4.4	6.3				24
9	0.5	2.4	3.7	5.0	7.1	8.8			23
10		2.7	4.1	5.7	8.0	10.0			17
11		2.9	4.5	6.4	8.8	11.2	14.0	16.8	15
12		3.2	4.9	7.2	9.7	12.5	15.7	18.4	36
13		3.5	5.3	7.9	10.6	13.8	17.1	20.3	27
14			5.7	8.6	11.5	15.1	18.9	22.2	38
15			6.0	9.4	12.5	16.5	20.6	24.5	17
16				10.1	13.4	17.9	22.6	27.0	13
17				10.8	14.4	19.3	24.4	29.9	13
18					15.4	20.7	26.4	33.0	5
19					16.3	22.1	28.6	36.8	1
20					17.3	23.6	30.8	41.9	7
21					18.2	25.0	32.0	48.0	2
22						26.4	35.6	54.4	0
Basis No. of Trees	14	27	28	39	52	71	34	12	277

1/ Basis - 277 trees (Spike-top and forked trees not measured).

Limits of actual data enclosed by lines.

Age-class range from 60 to 180 years.

Minimum top - 5.5 inches, inside bark.

Stump height - 1.0 foot.

Scaling length of logs - 8.0 feet.

Method of construction - harmonized curves.

Aggregate deviation - 0.86%

Average deviation - plus or minus 9.61%