

## 2. Southern California Lumber Seasoning Association

### Summary—Fuel Costs In Kiln Drying

By SOUTHERN CALIFORNIA LUMBER SEASONING ASSOCIATION  
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Kiln	Fuel	Holding Capacity	BM dried per year	Species Dried	Thicknesses	Avg. Cost Per MBM Per year
#1	Gas	25,000'	5,000,000'	90% Hardwoods 10% Softwoods	Up to 12/4	\$1.29
#2	Gas	150,000'	6,000,000'	40% Philippine Mahogany 40% Douglas Fir 10% Other Hardwood 10% Other Softwood	All	1.65*
#3	Gas	80,000'	2,495,000' 891,000' 1,062,000'	Douglas Fir Douglas Fir Redwood	4/4 8/4 4/4 & 5/4	.7724
#4	Gas	75,000'		Douglas Fir Hardwoods (Pre air dried)	4/4 & 8/4 4/4 & 6/4 8/4	.805 .93 1.84
#5	Shavings		1,420,324' 1,590,280'	Redwood Douglas Fir	4/4 4/4 & 8/4	.76
#6	Gas	70,000'	5,000,000'	60% Softwoods 40% Hardwoods	All	.65

\*Includes Power—Gas—Water—Electricity.

- #1—Old Northcoast Natural Draft kiln that was converted by Moore Dry Kiln Co. to a forced draft by putting fans in floor; masonry building; track loaded; gas burner into boiler for steam; 25,000 BM capacity of 4/4.
- #2—Direct fire, gas furnace kiln with 18 fans in floor; Mettler burner; uses a Bloxham Humidifier; cement block building; 3 compartments, 50,000 BM per compartment; stacker loaded.
- #3—Bloxham Engineering Co. kiln; direct fire gas furnace; Ray burner; using hot water injection for humidity; pumice block building—walls and roof; completely automatic; 80,000 BM holding capacity; track loaded; no boiler.
- #4—Direct fire gas furnace; overhead fans; cross-circulating; stacker loaded; holding capacity 75,000 BM; wooden wall with aluminum sheet lined; no boiler.
- #5—Northcoast Natural Draft type; 8 single tracks with a length of 105'; boiler is a Llewellyn Water Tube boiler; it has 3½ inch tubes and is 200 H.P.; steam pressure is maintained at about 90 lbs. with pop-off at 115#; fire box is fed with shavings from mill on an average of about 15,000 cubic feet of shavings per week. It is estimated that the shavings at \$3.00 per 1,000 cubic feet making a weekly cost of \$15.00 and a yearly cost of \$2,295.00 for fuel.
- #6—Cement block type; steam heated; cross-circulating with 8 fans; track loaded; boiler rated at 50 H.P.