

# SUMMARY OF GROWTH RATES AND YIELDS OF COMMON NEW HAMPSHIRE FOREST TYPES

**Table 1.** Very general growth and volume estimates for sawtimber stands in forest types of New Hampshire. Growth and volumes vary widely depending on site conditions, stand age, management intensity, species composition and stocking. Volume estimates also vary with product specifications, especially for softwood species. For additional information, use the references listed below the table.

Growth Measure	Northern Hardwood	Red Oak	White Pine	Hemlock	Spruce-fir
Annual Basal Area Growth/acre (sq.ft.)	1.0-2.2	1.0-2.5	1.5-3.5	2.0-2.7	2.0-3.0
Annual Board-foot growth/acre	100-275	150-400	300-1,200	150-250	150-250
Annual cubic-foot growth/acre	25-55	30-60	50-90	40-65	40-65
Annual diameter growth (inches)	0.05-0.20	0.10-0.25	0.10-0.40	0.10-0.30	0.10-0.20
Mature* gross standing volume (board feet)	10,000-15,000	5,000-15,000	10,000-50,000	15,000-20,000	15,000-30,000
Mature* gross standing volume (cubic feet)	2,500-4,000	3,000-5,000	6,000-9,000	4,500-5,500	4,000-6,000

\*Mature: Refers to financial maturity (see 2.3 Regeneration Methods). Larger trees about 12-16 inches (spruce-fir) and 18-24 inches (other types).

## ADDITIONAL INFORMATION

Dale, M.E. 1972. *Growth and Yield Predictions for Upland Oak Stands*. USDA For. Serv. Res. Pap. NE-241. 21 p.

Solomon, D.S. and R.M. Frank. 1983. *Growth Response of Managed Uneven-aged Northern Conifer Stands*. USDA For. Serv. Res. Pap. NE-517. 17 p.

Solomon, D.S. 1977. *The Influence of Stand Density and Structure on Growth of Northern Hardwoods in New England*. USDA For. Serv. Res. Pap. NE-362. 13 p.

Forbes, R.D. editor. 1955. *Forestry Handbook*. Ronald Press Co., New York, N.Y. 1202 p.

Barrett, J.P., R.J. Alimi, and K.T. McCarthy. 1976. Growth of White Pine in New Hampshire. *J. For.* 74(7):450-452.

Desmarais, K.M. and W.B. Leak. 2005. Ten-year Performance of Eastern White Pine Under a Crop Tree Release Regime on an Outwash Site. *North. J. Appl. For.* 22(2):139-142.