FRST 211 – Forest Measures III Lab 2 – Grade Considerations

Determine the:

- proper species code,
- net measures (end measures to nearest rad, length to nearest 0.1 m),
- % volume available for lumber and
- highest potential grade.

Show all calculations, including units, in a neat and orderly fashion.

T = top end measure (rads) of log, R_T = top end measure (rads) of rot B = butt end measure (rads) of log, R_B = butt end measure (rads) of rot C = core of solid wood (rads) D & E = length & width of "rot rectangle" in rads L (A, B, C) = Length (m) of log

- 1) Log A: Douglas-fir, T = 25, $R_T = 13$, B = 31, $R_B = 16$, L = 11.0
- 2) Log B: western hemlock, T = 42, B = 50, $R_B = 43$, L = 9.2
- 3) Log C: grand fir, T = 17, B = 24, $L_A = 4.8$, $L_B = 5.0$
- 4) Log D: western red cedar, T = 46, B = 52, $R_B = 40$, C = 32, L = 12.0
- 5) Log E: Sitka spruce, T = 27, B = 33, $R_B = 22$, $L_A = 5.0$, $L_B = 1.0$, $L_C = 5.0$
- 6) Log F: Yellow cedar, T = 23, B = 28, D = 11, E = 4, L = 14.0
- 7) Log G: White pine, T = 32, B = 36, L = 8.7, offset = 5cm
- 8) Log H: Mtn Hemlock, T = 25, B = 32, $L_A = 6.8$, $L_B = 2.2$
- 9) Log I: Amabilis fir, T = 33, B = 38, C = 6, S = 9 L = 5.6 (shake/check at both ends)
- 10) Log D: western red cedar, T = 46, B = 52, C = 32 at both ends, L = 7.0