

Ore Decks Cruise Notes

September 26, 2024

Average Diameter -13.0"

Douglas fir 90%

Western hemlock 5%

Pacific Silver fir 5%

Conversion Factor CCF/MBF = .520

Defect 5%

Volumes were obtained using the formula (Length * Width * Height) measured from portions of decks to arrive at a gross cubic volume. Estimated area with empty space (voids) as a percentage of the cubic volume was estimated and then taken out to then obtain a solid gross volume of logs. Finally, an estimate of defect was removed from the gross volume to obtain a net volume. MBF volume was obtained using conversion factor of 0.52 to get from CCF to MBF.

Deck 1--- Douglas fir 45' x 35' x 11' ... 35% voids 173 CCF * 0.65 = 112 CCF Defect 5% 112 * 0.95 = 106 CCF Net	Deck 5--- Western hemlock & Pacific Silver fir 20' x 110' x 15' ... 35% voids 330 CCF x 0.65 = 215 CCF Defect 5% 215 CCF * 0.95 = 204 CCF Net
Deck 2--- Douglas fir 62' x 11' x 20' ... 35% voids 136 CCF * 0.65 = 88 CCF Defect 5% 88 * 0.95 = 84 CCF Net	Deck 6--- Douglas fir 110' x 14' x 33' ... 35% voids 508 CCF x 0.65 = 330 CCF Defect 5% 330 CCF * 0.95 = 314 CCF Net
Deck 3--- Douglas fir 27' x 194' x 16' ... 35% voids 838 CCF * 0.65 = 545 CCF Defect 5% 545 CCF * 0.95 = 518 CCF Net	Deck 7--- Douglas fir 108' x 16' x 20' ... 35% voids 346 CCF x 0.65 = 225 CCF Defect 5% 225 CCF * 0.95 = 214 CCF Net
Deck 4--- Douglas fir 36' x 160' x 12' ... 35% void 691 CCF x 0.65 = 449 CCF Defect 5% 449 CCF * 0.95 = 427 CCF Net	Deck 8--- Douglas fir 32' x 34' x 13' ... 35% voids 142 CCF x 0.65 = 92 CCF Defect 5% 92 CCF * 0.95 = 87 CCF Net

Net CCF Volume

106 CCF (Deck 1) + 84 CCF (Deck 2) + 518 CCF (Deck 3) + 427 CCF (Deck 4) + 204 CCF (Deck 5) + 314 CCF (Deck 6) + 214 CCF (Deck 7) + 87 CCF (Deck 8) = **1,954 CCF Total Net**

Net MBF Volume

55 MBF (Deck 1) + 44 MBF (Deck 2) + 270 MBF (Deck 3) + 222 MBF (Deck 4) + 106 MBF (Deck 5) + 163 MBF (Deck 6) + 111 MBF (Deck 7) + 45 MBF (Deck 8) = **1,016 MBF Total Net**

Douglas fir CCF = 1,954 CCF - 204 CCF (Deck 5) = 1,750 CCF DF Volume

1,750 CCF DF Volume * .52 = 910 MBF Douglas fir Volume

Western Hemlock CCF Volume 204 CCF (Deck 5) * 0.5 = 102 CCF Western Hemlock Volume

Western Hemlock MBF Volume 102 CCF * 0.52 = 53 MBF Western Hemlock Volume

Pacific Silver Fir CCF Volume 204 CCF (Deck 5) * 0.5 = 102 CCF Pacific Silver Fir Volume

Pacific Silver Fir MBF Volume 102 CCF * 0.52 = 53 MBF Pacific Silver fir Volume

Conversion to Tons
Douglas fir- 1750 CCF * 60 pounds = 105000/2000 = 52.5 * 100 = 5250 Tons
Western Hemlock- 102 CCF * 64 pounds = 6528/2000 = 3.26 * 100 = 326 Tons
Pacific Silver Fir- 102 CCF * 68 pounds = 6936/2000 = 3.468 * 100 = 347 Tons
Total Tons = 5,923