

Drying Kilns – VOC Information

Factors to be used when calculating VOC emissions from wood drying kilns:

In the past the only emission factors available were for southern species of wood and were believed to be too conservative for northern varieties. The University of Maine has conducted some testing on spruce/fir drying. NCASI has some older data for hemlock, which, for now, is believed to be fairly accurate. Since these are the major types of wood present in Maine these numbers can be used. Here they are:

spruce/fir = 1.283 lb VOC/MBF (1000 board feet)

hemlock = 0.24 lb VOC/MBF (1000 board feet)

Therefore, if you know their production rate (usually given in MMBF) you will have the lb/yr emissions (and tons/yr).