



Emissions Inventory Help Sheet for the Woodworking Industry

What do I need to report?

The woodworking industry must report wood coating emissions, the emissions from cleanup materials, and dust emissions from the sawing and sanding of wood. Use the Emission Unit type ‘Woodworking Equipment’ to report dust (PM₁₀) emissions based on the tons of wood waste created. Use the Emission Unit type ‘Spray Booth or Coating Line’ to report the evaporation (drying) of coatings and cleaning materials. Refer to the AQD Online Portal Emissions Inventory Instructions for more information.

When a control device is connected to a ‘Woodworking Equipment’ process, provide the percentage of PM₁₀ (dust) captured and controlled by the baghouse or cyclone. Defaults: 100% capture and 99.9% control for baghouses; 100% capture and 85% control for cyclones*.

How do I calculate my emissions?

Download the Material Usage Calculation Tool excel file and instructions (<https://www.maricopa.gov/1820>) . This tool can be used to enter the amount used and emission factors for all of your volatile organic compound (VOC) or ammonia gas (NH_x) emitting compounds and will calculate your emissions. The results can be entered directly into the AQD Online Portal. The excel file will need to be uploaded into the AQD Online Portal to show your calculations.

What are my emission factors from my woodworking equipment?

1. Emissions from baghouses or cyclones vented outdoors.
2. Bin vent emissions come from wood waste being discharged into a bin located or vented outdoors.
3. Bin loadout emissions come from emptying the bin into another container or into a hauling truck. If your sawdust bin is covered and hauled away, there are no loadout emissions.

Process Type	SCC Code	Emissions Factor	Emissions Factor (EF) Units
Baghouse or Cyclone operations*	30788801	100 (uncontrolled)	lb/ton total wood waste hauled away
Wood waste storage bin vent	30703001	0.58 (uncontrolled)	lb/ton total wood waste hauled away
Wood waste storage bin loadout	30703002	1.2 (uncontrolled)	lb/ton total wood waste hauled away

* Example equation to calculate baghouse emissions:

$$PM_{10} = \text{Annual wood waste} \times \text{emission factor} \times 1 - (\% \text{ capture} \times \% \text{ control}) = \text{lbs of } PM_{10}$$

$$PM_{10} = 500 \text{ tons} \times 100 \text{ lb/ton} \times 1 - (100.00\% \times 99.9\%) = 50 \text{ lbs}$$