



WOOD WASTE DISPOSAL

Air Curtain Burning vs. Chipping vs. Landfill Dumping
Cost Comparison Example for the Disposal of 100 Tons of Wood Waste

	S-220 Air Curtain Burning	Chipping & Landfill Disposal	Direct Landfill Hauling & Disposal
Cost of Machine	\$98,700	\$220,000	-
Operating Costs			
Fuel Cost (S-220: 10 hrs; Chipper: 6 hrs)	\$88	\$630	-
Maintenance (S-220: \$0.60/hr; Chipper: \$16.00/hr)	\$6	\$96	-
Hauling of Residual to Landfill (50 Miles @ \$4.00/mile with 20-ton Dump Truck)	\$200 (1 load)	\$2,400 (12 loads)	\$5,000 (25 loads)
Tipping Fees at Landfill (\$30 per Ton)	\$90	\$2,940 (Note 4)	\$3,000
Total Disposal Cost for 100 Tons or approx. 500 cubic yards (1 Day)	\$384	\$6,066	\$8,000

NOTES:

1. Individual results may vary.
2. Chipper: approx. 400HP, Diesel fuel consumption: approx. 30 gal/hr. Diesel Fuel at \$3.50/gal
3. It is assumed that chips cannot be reasonably sold for beneficial re-use.
4. Chipping process and chip handling produces large amounts of particulate matter (PM) in the form of wood dust that can cause serious illness in exposed workers. Wood dust is a proven carcinogenic (cancer-causing). Chipping losses, mostly in form of wood dust, are approx. 2% or 2 tons in this example. Only 98 tons of wood chips are deposited into the landfill.
5. Air Curtain Burner residual is 3 tons of ash, hauled by 1 truck, but is usually land-applied on site; Chipper residual yields no weight reduction, but does provide significant volume reduction. In this example, waste is hauled by at least 12 trucks, each carrying approximately 22 cubic yards or 5 – 6 tons.
6. Direct hauling of land clearing wood waste to landfill will require approximately 25 trucks.

The S-220 is a medium size above ground refractory walled firebox. Larger and smaller models and trench burners are also available. See www.airburners.com.

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