



WOOD WASTE DISPOSAL

Air Curtain Burning vs. Chipping vs. Landfill Dumping

Cost Comparison Example for the Disposal of 100 Tons of Wood Waste

	S220 Air Curtain Burning	Chipping & Landfill Disposal	Direct Landfill Hauling & Disposal
Cost of Machines	\$94,590	\$219,370	-
OPERATING COSTS			
Fuel Cost (S-220: 13 hrs; Chipper: 6 hrs)	\$98	\$540	-
Maintenance (S-220: \$0.60/hr; Chipper: \$16.00/hr)	\$8	\$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	\$3,000
Total Disposal Cost for 100 Tons or approx. 500 cubic yards (1 Day)	\$396	\$5,976	\$8,000

NOTES:

1. Individual results may vary.
2. Chipper, approx. 400HP, Diesel fuel consumption: approx. 30 gal/hr. Diesel fuel calculated at \$3.00/gal.
3. It is assumed that chips cannot be reasonable 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 the form of wood dust, are approximately 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.
7. 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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