

Checklist & Budget - Hemlock Sapling Planting

This document lists the equipment, supplies, and budget for general sapling planting projects **not** related to hemlock field insectaries or hemlock restoration on trout streams. All materials – general, consumable, and non-consumable – are to be provided by the project leaders/sponsors, except that volunteers may bring their own tools and work gloves if they wish.

Volunteers are responsible for their own personal protective equipment, including long pants, long sleeved shirt, sturdy footwear with socks, and jacket or rain gear as needed. Project sponsors/leaders are responsible for verifying PPE.

General: Permission from property owner/manager Map, directions, gate code (if any) Cell phone, volunteer list & phone #s Volunteer sign-in/ liability waiver forms on clipboard with pen, special form for minors Permanent markers & name tags for volunteers Bathroom tissue & folding trowel Snacks & bottled water for volunteers Insect repellent, sun screen	Folding table for sign-in & supplies SGH directional signs & SGH at Work signs Mallet & spike for signs First aid kit & manual Emergency phone #s & locations Planting instructions for volunteers Sapling care instructions for property owner/ manager Rack cards for passers-by Hand sanitizer, towels, trash bags Camera (optional)
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Consumable Supplies	Unit	Unit Cost	Amt Needed	Ext Cost	Ext Cost per Tree	Comments for 24 Saplings
Saplings - rescued	24 trees	\$0.00	24 trees	\$0.00	\$0.00	Between 1 and 3 feet tall, 12-15 feet apart
Soil amendments:						A 36-gallon tub of soil amendments mixed as indicated in the project management instructions (1/2 bag each ingredient) is usually enough to plant 12 saplings.
- top soil	bag 2 cu ft	\$2.00	1 bag	\$2.00	\$0.08	
- compost / humus	bag 2 cu ft	\$4.00	1 bag	\$4.00	\$0.17	
- Mr. Natural Woodland Soil Mix	bag 2 cu ft	\$11.00	1 bag	\$11.00	\$0.46	
- Mr. Natural Worm Castings	bag 2 cu ft	\$9.00	1 bag	\$9.00	\$0.38	
Soil additives mix:						1 pound = 32 tblsp. 1 tblsp of each additive per sapling.
- Ironite granules	bag 15 lb	\$19.00	1 bag	\$19.00	\$0.04	
- Espoma Holly Tone	bag 8 lb	\$12.00	1 bag	\$12.00	\$0.05	
- Soil Moist water retention	packet 8 oz	\$12.00	2 packets	\$24.00	\$0.75	
Initial watering mix:						Each gallon of initial watering mix prepared as indicated in the project management instructions (2 oz QS + 4 oz Bayer). Give 1 gallon per sapling.
- MiracleGro Quick Start	bottle 32 oz	\$10.00	2 bottles	\$20.00	\$0.63	
- Bayer Advanced Tree & Shrub	bottle 32 oz	\$20.00	3 bottles	\$60.00	\$2.50	
Staking:						2 packs are needed for 24 saplings 1 roll is usually enough for 75 saplings
- Bamboo stakes 6' long	6-pack	\$4.00	2 6-packs	\$8.00	\$0.33	
- Velcro tape	Roll 50 ft	\$4.00	1 roll	\$4.00	\$0.05	
Mulch:						½ bag per sapling
- shredded hardwood or cypress	bag 2 cu ft	\$4.00	12 bags	\$48.00	\$2.00	
		\$111.00		\$247.00	\$7.44	
Miscellaneous						Measuring spoons & baggies for additives, duct tape & permanent markers to label tools, extra face masks

Non-consumable Equipment & Supplies: 1 pair of garden gloves per volunteer 1 flag per tree to mark planting site 1 gallon of fresh water per tree 1 shovel & 1 mattock per planting team	1 small shovel & large container for every 12 trees to mix soil amendments 1 bucket for every 12 trees to transport soil mix to trees 1 jug for every 12 trees to make initial watering mix 1 pair hand pruners & 1 pair scissors per planting team
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Since you can only buy the above items in their minimum quantity, the **initial purchase cost** for materials needed to plant 24 saplings is about \$247.00. The **actual cost of materials used** to plant 24 saplings is about \$7.44 per tree. SGH typically takes responsibility for all expenses except refreshments for charitable projects.

