

**Tools  
(cautions in  
red)**

	Effectiveness	Kills Roots	Easy of Use	Personal Precautions	Application Precautions	Minimum Application area (sq.inches)	Safe for the Environment	Safe for family and pets	Limitations	Cautions	Price
<b>Garden HotZot</b>	85%	Yes	Yes	Same as hot coffee or tea	None	1	Yes	Yes	Works best on small to medium size weeds	Contact herbicide - spray only what you want to kill.	\$120
<b>String Trimmer</b>	0%	No	Yes	Wear protective clothing	None	16	Yes	Yes	Does not damage roots	Normal power tool precautions	\$79 - \$289
<b>Weed Flamer, Residential</b>	50%	No	Yes	Wear protective clothing and store propane safely.	Can cause fires, keep extinguisher handy	144	No - considerable local CO2 emissions.	Yes	Does not damage roots. Will damage to all nearby plants. Cannot use in wet conditions.	Fire Danger - Do not use around flammable materials (dry compost, wood chips, barkdust, etc.)	\$61 - \$310 plus propane and tank
<b>Weed Flamer, Commercial</b>	50%	No	No	Professional application only	Can cause fires, keep extinguisher handy - Professional application only	300	No - considerable local CO2 emissions.	Yes	Does not damage roots. Will damage to all nearby plants. Cannot use in wet conditions.	Fire Danger - Do not use around flammable materials (dry compost, wood chips, barkdust, etc.)	\$400 - \$1000
<b>Weed Steamer, Residential</b>	50%	No	Yes	Wear protective clothing - 300F live steam under pressure	Must use hood or soil penetraing spikes	14	Yes	Yes	10 minute warmup, slow and tedious - pressure drops will cause delays, cannot use in wet conditions	Live steam under pressure - in hard soil must use cone	\$248
<b>Weed Steamers, Commercial</b>	50%	No	No	Professional application only	Professional application only	300	No - considerable local CO2 emissions.	Yes	Does not damage roots. Will cause damage to all nearby plants.	Unit is mounted on a large truck with high pressure hoses providing the spray applicator.	\$5000 - \$9000
<b>Vinegar</b>	50%	No	Yes	Sprays can cause irritation to open skin, eyes, lips, etc.	None	1	Yes	Yes	Does not damage roots. Contact herbicide / non-systemic - cannot use in wet conditions.	Contact herbicide - only spray what you want to damage.	\$5.00
<b>Roundup (Monsanto)</b>	90%	Yes	Yes	Keep children and pets out of treated area for 24 - 72 hours or longer if area remains moist. Do not walk on treated area for 24 - 72 hours or longer if area remains moist. Wash clothes worn while treating the area immediately. Do not use where runoff will enter waterways. Do not use when rain is expected within 24 hours.	Wear goggles to protect your eyes, use a face mask to prevent accidental inhalation, wear long sleeves, long pants and gloves to prevent skin irritation, Avoid touching plants that are wet with glyphosate, and wash your hands thoroughly after use, spray on a calm day. Wind can carry the spray to other plants and it increases the chances of human contact.	4	No - Glyphosate and POEA (an inactive ingredient in Roundup) is very toxic to aquatic life.	No - Ingredients have been shown to be toxic to human embryos. The World Health Organization (WHO) has determined that glyphosate (the active ingredient in Roundup) probably causes cancer.	Systemic herbicide - Use only on dry, windless days. Overspray or drift can cause damage or death to adjacent plants. Exposure can cause drowsiness, loss of appetite, vomiting and diarrhea. Keep pets and children out of treated area for 24 to 72 hours. Can have a half-life of up to 190 days.	The World Health Organisation (WHO) has classified glyphosate (Roundup) as "probably carcinogenic to humans". Studies have linked glyphosate to prostate and breast cancers as well as non-Hodgkins lymphoma in children in addition to being a hormone mimic.	\$35.00