

**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
Garden HotZot	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.	\$200
String Trimmer	0%	No	Yes	Wear protective clothing	None	16	Yes	Yes	Does not damage roots	Normal power tool precautions	\$79 - \$289
Weed Flamer, Residential	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 cause damage to all nearby plants.	Fire Danger - Do not use around flammable materials (dry compost, wood chips, barkdust, etc.)	\$61 - \$310 plus propane and tank
Weed Flamer, Commercial	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 cause damage to all nearby plants.	Fire Danger - Do not use around flammable materials (dry compost, wood chips, barkdust, etc.)	\$400 - \$1000
Weed Steamer, Residential	50%	No	Yes	Wear protective clothing - 300F live steam under pressure	Must use hood or soil penetraing spikes	4	Yes	Yes	10 minute warmup, slow and tedious - pressure drops will cause delays	Live steam under pressure - in hard soil must use cone	\$250 - \$3000
Weed Steamers, Commercial	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
Vinegar	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 - works best in hot, dry weather on small weeds.	Contact herbicide - only spray what you want to kill.	\$5.00
Roundup (Monsanto)	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 Orgainisation (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