

## Alternatives to RoundUp and Other Glyphosate Products

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<b>PRODUCTS TO BUY</b>	<b>USED FOR</b>	<b>INGREDIENTS</b>	<b>NOTES FOR BEST RESULTS</b>
Bonide Burn Out	All types of actively growing weeds and grasses	citric acid and clove oil	
Cover crops: annual clovers, peas, oats and buckwheat, etc.	Used for veggie gardens		Plant in the fall, then harvest, dig or put a tarp over before they go to seed in the spring.
Down to Earth Corn Weed Blocker, or Preen® Organic Vegetable Garden Weed Preventer	Pre-emergent. It prevents annual and perennial weed seeds from sprouting	Corn gluten meal	Put out before annual weed seeds begin to sprout.
Drip irrigation and timer	Accurate watering so weeds are not watered		Helpful to have filters on the water lines.
Flame weeder	Gravel paths and driveways, stone walls, paving cracks	Propane flame	
Mulch	Covering bare soil to help keep weeds from sprouting. Several inches thick.	Wood chips, compost, straw, cardboard, burlap bags, etc.	Put cardboard under the mulch for longer lasting protection. Fresh grass clippings need to be spread no more than 2 inches deep.
Vinegar, 20 per cent pure vinegar, acetic acid	All types of actively growing weeds and grasses	Acetic acid	Wear protective eyewear and rubber gloves. Most effective if plants are stressed from lack of water
Weeding Tools	All types of weeds and grasses		A sawtooth shovel, for example, is great for digging out blackberry roots

<b>GARDENING METHOD</b>	<b>USED FOR</b>	<b>NOTES FOR BEST RESULTS</b>
Allow a few weeds to live in the lawn or garden		Relax. Weeds are good for pollinators, beneficial insect predators, and butterflies
Boiling water	Small weeds in sidewalks, patio cracks, other paved areas	Do it when the plants are already stressed by heat and drought. Make sure the water is at full rolling boil.
Goats and Sheep	Blackberries, ivy, even holly, but not the berries of ivy or holly	Need good temporary fencing or supervision, and knowledge of toxic plants they should not eat.
Hire teenagers to weed	All weeds	Need good supervision. Suggest \$15/hr
Water deeply but infrequently. Discourages annual weeds from sprouting	Annual weeds	Best if your soil is at least 4 inches deep
Worldwide Workers on Organic Farms (WWOOFers) or HelpX workers: 4 hours of work a day in exchange for room and board	All weeds, and lots of other garden help.	Need a place for them to sleep, need to feed them, and often transport them. <a href="http://www.woofusa.org">www.woofusa.org</a> and <a href="http://www.helpx.net">www.helpx.net</a>

Source: Diane Emerson of Garden Green, August 2018 [www.gardengreen.webs.com](http://www.gardengreen.webs.com)

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