

Preemergence Herbicide Efficacy Rankings

Controlling nursery weeds requires an integrated management approach including scouting to identify infestations early, frequent hand weeding and sanitation around the nursery to prevent spread, selection of the most appropriate herbicide(s), and a continuing commitment. The chart below lists the relative effectiveness of some of the most commonly used preemergence herbicides on container nursery weeds. This is not a comprehensive listing of all herbicides labeled in nursery crops, but includes those most commonly used by growers. Before using a preemergence herbicide, always check the label for application directions, lists of tolerant crops, and other guidelines and precautions.

Species	Barricade / Regalkade	Broadstar	Gallery	OH2	Pennant Magnum	Pendulum	Regal OO	Ronstar	Rout	Showcase	Snapshot TG	Surflan	Treflan
Grasses													
Annual bluegrass	G	P-F	P	G	F	G	F	G	G	G	G	G	F-G
Crabgrass	G	F-G	P	G	F	F-G	F-G	F-G	G	G	G	G	F
Goosegrass	G	F-G	P	G	F	G	G	G	G	G	G	G	F
Other Monocots													
Doveweed	P	G	P	F-G	F	P	F	F	F-G	?	P	P	P
Sedges, annual	P	P	P	P-F	G	F	P	P-F	P-F	?	P	P	P
Broadleaves													
Bittercress	F	G	G	G	P	P-F	G	G	G	G	F-G	F	P
Burnweed, Am.	P-F	G	F	G	F	P-F	G	?	G	?	F	P-F	P
Chamberbitter	P-F	G	P	G	P	F	G	F	G	F	P-F	F	P
Chickweeds	G	F	G	F-G	P	G	F	P	F-G	G	G	G	F-G
Cudweed	?	G	G	G	?	?	G	?	G	?	G	?	?
Dogfennel**	F-G	G	?	G	P	?	?	P	G	?	?	P-F	?
Eclipta	P	F	P-F	F	P	P	P-F	P	F	P	P-F	P-F	P
Galinsoga	P	G	G	G	F	P	G	P-F	G	G	G	F	P
Groundsel	P-F	G	F	G	P-F	P	G	P-F	G	F-G	F-G	F	P
Hawksbeard**	?	G	?	G	?	?	G	G	G	?	?	?	?
Horseweed	?	G**	G	G	?	G	G	G**	G	?	G	G	P-F
Marsh Parsley	?	?	?	?	?	?	?	?	?	?	?	?	?
Mulberry weed**	F-G	G	G	G	F	F-G	F	F-G	G	?	F-G	G	P
Pearlwort	G	P	?	F	?	G	F	P	F	?	G	G	F
Phyllanthus, longstalked**	P-F	G	P	G	P	P-F	G	F-G	G	F	P-F	P-F	P
Spurge, garden	G	G	G	G	F	G	G	F	G	G	G	G	F
Spurge, hyssop	G	G	G	G	?	G	?	?	G	?	G	F	G
Spurge, nodding	G	G	F	G	?	G	F	F	G	?	F	F	P
Spurge, petty	?	?	?	?	?	?	?	?	?	?	?	?	?
Spurge, spotted	G	G	F	G	F	G	F	F	G	G	G	F	G
Sowthistle & lettuce	F	G	G	G	?	F	?	G**	G	G	G	?	?
Tassel-flower	?	?	?	?	?	?	?	?	?	?	?	?	?
Thickhead**	?	G	?	G	?	?	F	F	G	?	P	?	?
Water Purslane	?	?	?	?	?	?	?	?	?	?	?	?	?
Willowherb**	P	?	P	P	?	?	P	G	?	?	P	?	?
Woodsorrel (from seed)	G	G	G	G	F	G	G	G	G	G	G	G	P-F
Yellowcress (annual)**	?	G	G	G	?	?	?	?	G	?	G	?	?

Key: G= good control; F = fair control or inconsistent control; P = poor control. ? = insufficient data are available at the time of publication to provide a ranking. Rankings are based upon the authors' research data, experience, and label interpretation. These rankings are intended as a guide to relative effectiveness of these preemergence herbicides in container nurseries only. Actual results may vary based on herbicide rate, weather conditions, substrate, irrigation practices, and other factors. No warranty is expressed or implied. ** Rankings on these species are based on limited experimental data.

Algae, yellow field cress, British elecampane, yellow nutsedge, and woody weeds are generally not well controlled by most of the preemergence herbicides listed above, and will require specialized management strategies. See the species descriptions in this publication for suggested management guidelines and contact your local Cooperative Extension Service for additional and updated information.

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