

Established Warm-Season Turfgrass Tolerance to Herbicides

James Brosnan, Ph.D.
University of Tennessee

This table is designed to assist in selecting herbicides for use on established warm-season turfgrass. Always refer to the product label for specific information on proper herbicide use, tank-mix compatibility and turfgrass tolerance. The omission of a particular trade name is not intended to reflect adversely or to show bias against any product or trade name not mentioned. Often pre-mixed combination products (two or more active ingredients) containing the same active ingredients can have different trade names. Tank-mixing more than one chemical may improve efficacy as will making sequential applications of a single chemical. These strategies may result in undesirable turfgrass injury.

Many herbicides are not labeled for use on seashore paspalum, as its widespread use a desirable turfgrass species is a relatively new development in the industry. However, wording on some herbicide labels allows users to determine the suitability of the product on species not listed as tolerant on the label. Note that in many cases applying herbicides to species not listed on the label may result in significant injury to the desired turfgrass stand. Herbicides labels allowing users to determine suitability on species not listed on the label place all liability in the event of injury on the user. It is recommended that applications of these materials be made to a small area in order to evaluate phytotoxic injury before broadcasting across desirable turfgrass stands.

For more information on turfgrass weed control, visit the University of Tennessee's turfgrass weed science Web site, <http://tennesseeturfgrassweeds.org>

KEY TO TOLERANCE CODES: L = Labeled for use on the selected turf species/location; D= Labeled for use on the selected turf species/location when dormant; S= Special label directions; N = Not labeled

Herbicide	Bermudagrass	Hybrid Bermudagrass	Bermudagrass (Golf Greens)	Centipedegrass	St. Augustinegrass	Seashore Paspalum	Zoysiagrass
2,4-D amine	L	L	L	S	N	S	L
Aatrex (atrazine)	D	D	N	L	L	N	L
Acclaim Extra (fenoxaprop)	N	N	N	N	N	N	L
Balan (benefin)	L	L	N	L	L	N	L
Banvel (dicamba)	L	L	S	L	S	L	L
Barricade (prodiamine)	L	L	N	L	S	L	L
Basagran L/O (bentazon)	L	L	N	L	L	N	L
Bensumec (bensulide)	L	L	L	L	L	N	L
Blindside (sulfentrazone + metsulfuron)	L	L	N	L	L	N	L
Buctril (bromoxynil)	L	L	N	N	L	N	L
Celsius (thiencarbazone + iodosulfuron + dicamba)	L	L	N	L	L	N	L

Herbicide	Bermudagrass	Hybrid Bermudagrass	Bermudagrass (Golf Greens)	Centipede grass	St. Augustine grass	Seashore Paspalum	Zoysiagrass
Certainty (sulfosulfuron)	L	L	N	L	L	L	L
Confront (triclopyr + clopyralid)	L	L	N	L	N	N	L
Dimension (dithiopyr)	L	L	N	L	L	L	L
Dismiss (sulfentrazone)	L	L	N	L	S	L	L
Dismiss South (sulfentrazone + imazethapyr)	L	L	N	L	N	N	L
Drive XLR8 (quinclorac)	L	L	N	N	N	S	L
Echelon (prodiamine + sulfentrazone)	L	L	N	L	N	L	L
Escalade II (fluroxypyr + 2,4-D + dicamba)	L	L	N	N	N	N	L
Finale (glufosinate)	D	D	N	N	N	N	N
Fusilade II (fluazifop)	N	N	N	N	N	N	L
Gallery (isoxaben)	L	L	N	L	L	N	L
Illoxan (diclofop-methyl)	L	L	L	N	N	N	N
Image (imazaquin)	L	L	N	L	L	L	L
Imprelis (aminocyclopyrachlor)	N	N	N	S	N	N	S
Katana (flazasulfuron)	L	L	N	S	N	N	L
Kerb (pronamide)	L	L	L	L	L	N	L
Manor (metsulfuron)	L	L	L	N	L	N	N
Momentum Fx2 (2,4-D + fluroxypyr + triclopyr)	S	S	N	S	N	N	S
Monument (trifloxysulfuron)	L	L	N	L	N	N	L
MSMA	L	L	S	N	N	N	L

Herbicide	Bermudagrass	Hybrid Bermudagrass	Bermudagrass (Golf Greens)	Centipedegrass	St. Augustinegrass	Seashore Paspalum	Zoysiagrass
Onetime (quinclorac + MCPP + dicamba)	L	L	N	N	N	S	L
Pendulum (pendimethalin)	L	L	L	L	L	L	L
Pennant Magnum (metolachlor)	L	L	N	L	L	N	L
Princep (simazine)	L	L	N	L	L	N	L
Power Zone (carfentrazone + MCPA + MCPP + dicamba)	L	L	N	N	N	N	L
Prograss (ethofumesate)	D	D	N	N	L	N	N
Q4 Plus (quinclorac + sulfentrazone + 2,4-D + dicamba)	D	D	N	N	N	N	D
Quicksilver (carfentrazone)	L	L	L	L	L	L	L
Revolver (foramsulfuron)	L	L	S	N	N	N	L
Reward (diquat)	D	D	D	N	N	N	N
Ronstar G (oxadiazon)	S	S	N	N	S	N	L
Ronstar WSP or F (oxadiazon)	D	D	D	N	N	N	D
Roundup Pro (glyphosate)	D	D	D	N	N	N	N
SedgeHammer (halosulfuron)	L	L	N	L	L	L	L
Segment (sethoxydim)	N	N	N	L	N	N	N
Sencor (metribuzin)	S	S	N	N	N	N	N
Solitare (quinclorac + sulfentrazone)	L	L	N	L	N	L	L
Specticle (indaziflam)	L	L	N	S	S	L	L
Speed Zone (carfentrazone + 2,4-D + MCPP + dicamba)	L	L	N	L	N	L	L
SquareOne (carfentrazone + quinclorac)	L	L	M	L	N	L	L

Herbicide	Bermudagrass	Hybrid Bermudagrass	Bermudagrass (Golf Greens)	Centipedegrass	St. Augustinegrass	Seashore Paspalum	Zoysiagrass
Surflan (oryzalin)	L	L	N	L	L	N	L
Surge (sulfentrazone + 2,4-D + MCPP + dicamba)	L	L	L	N	N	N	L
Team (bifenox + trifluralin)	L	L	N	L	L	N	L
Tenacity (mesotrione)	D	D	N	L	S	N	N
Tower (dimethanamid-P)	L	L	N	L	L	L	L
TranXit (rimsulfuron)	L	L	S	L	N	N	L
Trimec Classic (2,4-D + MCPP + dicamba)	L	L	S	S	S	N	L
Tupersan (siduron)	N	N	N	N	N	N	L
Turflon Ester (triclopyr)	S	S	N	S	S	N	S
Velocity (bispyribac-sodium)	S	S	N	N	N	N	N
XL 2G (bifenox + oryzalin)	L	L	N	L	L	N	L