

(WARM-SEASON)

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Directory of Turfgrass Pre-Emergence Herbicides

Common Name	Trade Name	Formulations	Company
Atrazine	Aatrex	80W,90DG,4L	Ciba-Geigy
	Purge	4L	Security
Benfen	Balan	2.5G	Elanco
	2.5 Benfen Granular	2.5G	Lesco
Benfen + oryzalin	XL	2G	Elanco
Benfen + trifluralin	Team	2G	Elanco
Benfen + oxadiazon	Regaistar		
Bensulide	Betasan	2.9E,4E,7G,12.5G	ICI
	lescovan	4E,7G,12.5G	Lesco
	Pre-san	4E,7G,12.5G	Sierra
	Bensumec 4LF	4E	
Bensulide + Oxadiazon	Goosegrass/Crabgrass Control	5.25G + 1.31G	Scotts
DCPA	Dacthal	75W	Fermenta
	Dacthal	5G	Lesco
Ethofumsate	Prograss	1.5E	Nor-Am
Fenarimol	Rubigan	50W	Elanco
Napropamide	Devrinol	50W,5G	ICI
Oryzalin	Surflan	4AS	Elanco
Pendimethalin	Southern Weedgrass Control	2.5G	Scotts
	Turf Weedgrass Control	1.71G	Scotts
	Weedgrass Control	60DG	Scotts
	Pre-M	60DG	Lesco
	Pendimethalin	60DG	Clean Crop
Pronamide	Kerb	50W	Rohm-Haas
Siduron	Tupersan	50W	Du Pont
Simazine	Princep	80W,90DG,4L,4G	Ciba-Geigy

Tolerance of Warm-Season Turf to Pre-Emergence Herbicides

Herbicide	Bahia	Bermuda	Centpede	St. Augustine	Zoysia
Atrazine	NR	I	T	T	I
Benfen	T	T	T	T	T
Benfen*oryzalin	T	T	T	T	T
Benfen*trifluralin	T	T	T	T	T
Bensulide	T	T	T	T	T
Bensulide*oxadiazon	NR	T	NR	NR	T
DCPA	T	T	T	T	T
Ethofumsate	NR	I	NR	NR	NR
Napropamide	T	T	T	T	TR
Oryzalin	T	T	T	T	T
Oxadiazon	NR	T	NR	T	T
Oxadiazon*benfen	NR	T	NR	NR	T
Pendimethalin	T	T	T	T	T
Pronamide	NR	T	NR	NR	NR
Siduron	NR	NR	NR	NR	NR
Simazine	NR	T	T	T	T

T = tolerant; I = Intermediate tolerance, apply only to dormant grass
NR = Not registered

Tim R. Murphy, University of Georgia

Tolerance of Warm-Season Turfgrasses and Tall Fescue to Pre-Emergence Herbicides

Herbicide	Turfgrasses					
	Bahia	Bermuda	Centipede	St. Augustine	Tall Fescue	Zoysia
Atrazine	NR	I	T	T	NR	I
Benefin	T	T	T	T	T	T
Benefin + Oryzalin	T	T	T	T	T	T
Benefin + Trifluralin	T	T	T	T	T	T
Bensulide	T	T	T	T	T	T
Bensulide + Oxadiazon	NR	T	NR	NR	T	T
DCPA	T	T	T	T	T	T
Ethofumesate	NR	I	NR	NR	NR	NR
Napropamide	T	T	T	T	T	NR
Oryzalin	T	T	T	T	T	T
Oxadiazon	NR	T	NR	T	T	T
Pendimethalin	T	T	T	T	T	T
Pronamide	NR	T	NR	NR	NR	NR
Siduron	NR	NR	NR	NR	T	NR
Simazine	NR	T	T	T	NR	T

T = Tolerant; I = Intermediate tolerance, apply to dormant grass;
NR = Not Registered for use.

Summer Annual Weed Control Ratings for Pre-Emergence Herbicides

Herbicide	Crabgrass spp.	Goosegrass	Sandbur	Prostrate Spurge	Prostrate Knotweed
Atrazine	P	P	P	E	E
Benfen	E	F	F	P	P
Benfen + Oryzalin	E	F-G	G	L	L
Benfen + Trifluralin	L	L	—	—	—
Bensulide	E	P	G	P	G
Bensulide + Oxadiazon	E	G	—	—	—
DCPA	E	F	F	P	G
Napropamide	E	G	G	—	L
Oryzalin	E	F-G	G	L	L
Oxadiazon	G	E	F	P	G
Pendimethalin	E	F-G	G	L	—
Siduron	G	P	—	P	P
Simazine	G	P	—	G	G

E = Excellent, \geq 90% control. G = Good, 80 to 89% control. F = Fair, 70 to 79% control. P = Poor, $<$ 70% control. L = Weed species is listed on the herbicide label, but has not been evaluated by the University of Georgia. — = Weed response is not known.

Winter Annual Weed Control Ratings for Pre-Emergence Herbicides

Herbicide	Annual Bluegrass	Common Chickweed	Henbit	Parsley-Piert	Spurweed	Corn Speedwell
Atrazine	E	E	E	E	E	E
Benfen	E	G	G	P	P	E
Benfen + Oryzalin	E	L	L	—	—	—
Benfen + Trifluralin	L	—	—	—	—	—
Bensulide	F	P	P	E	P	P
DCPA	G	E	F	P	P	E
Ethofumesate	G	L	—	—	—	—
Fenarimol	G	—	—	—	—	—
Napropamide	G	E	P	P	E	E
Oryzalin	G	L	L	—	—	—
Oxadiazon	G	P	P	E	P	G
Pronamide	E	E	P	P	P	E
Pendimethalin	G	L	L	—	—	—
Simazine	E	E	E	G	E	E

E = Excellent, \geq 90% control. G = Good, 80 to 89% control. F = Fair, 70 to 79% control. P = Poor, $<$ 70% control. L = Weed species is listed on the herbicide label, but has not been evaluated by the University of Georgia. — = Weed response is not known.