

## Turfgrass Weed Control for Professional Managers

Patrick E. McCullough, Extension Agronomist – Weed Science

Use Stage and Herbicide	Turfgrasses	WSSA Group	Broadcast Rate/Acre		REI	Remarks and Precautions
			Amount of Formulation	Pounds Active Ingredient		
<b>Postemergence Herbicides - continued</b>						
triclopyr + clopyralid (Confront) 2.25 + 0.75 lbs./gal.	bermudagrass, centipedegrass, Ky. bluegrass, tall fescue, zoysiagrass	4+4	1.0-2.0 pts.	0.3+0.1 - 0.6+0.2	48	Controls a wide range of broadleaf weeds. Repeat the application in approximately 4 weeks if necessary. Repeat treatments will also be necessary for the control of violets and woodsorrel. Newly seeded turf should be mowed 2-3 times before treatment. DO NOT water for 6 hours after application or apply at air temperatures > 85°F. DO NOT apply to exposed roots of shallow rooted trees and shrubs. DO NOT reseed for 3 weeks after application. Not labeled for use on residential turfgrasses.
trifloxysulfuron-sodium (Monument) 75DG	bermudagrass, zoysiagrass	2	0.33-0.56 oz.	0.015-0.026	12	Controls nutsedge(s), green kyllinga, annual bluegrass, tall fescue, torpedograss and certain broadleaf weeds in established bermudagrass and zoysiagrass. Monument is not recommended for use on other turfgrass species. Add a nonionic surfactant at 0.25-0.5% v/v to the spray mix. Monument at rates of 0.1-0.3 oz./acre may be used as a spring transition aid for the removal of perennial ryegrass and <i>Poa trivialis</i> . Avoid mowing for 1-2 days before and after application. For nutsedge repeat the application at 4-6 weeks if regrowth is observed. DO NOT overseed bermudagrass with cool-season turfgrasses for 3 weeks after application.
<b>Turf Renovation</b>						
glyphosate (Roundup Pro) 4 lbs./gal.	Existing vegetation	9	1.0-5.0 qts.	1.0-5.0	4	Apply to areas that are being renovated (establishment of desirable turfgrass) to kill existing vegetation. Refer to Roundup Pro label for recommended rates for specific species. Apply to actively growing bermudagrass when seedheads appear. Repeat treatment may be required for complete control. Tillage or renovation techniques (vertical mowing, coring, slicing) should be delayed for 7 days after treatment. Avoid contact of spray with ornamentals.
<b>Preemergence Herbicides – Golf Course Putting Greens</b>						
bensulide (Bensumec) 4LF  (Pre-San) 7G	bentgrass, bermudagrass	8	1.9-3.1 gals.  107.0-180.0 lbs.	7.5-12.5  7.5-12.5	See Label	Controls annual grasses and selected broadleaf weeds. Apply high rate in fall for annual bluegrass control. Apply a light irrigation immediately after treatment. DO NOT apply to newly sprigged grasses. Delay reseeding for 4 months after treatment.
pronamide (Kerb T/O) 50WSP	bermudagrass	3	1.0-2.0	0.5-1.0	24	Preemergence or postemergence applications of Kerb will control annual bluegrass. Apply to non-overseeded bermudagrass greens. Do not apply closer than 90 days before overseeding cool-season grasses unless deactivation with activated charcoal is planned. To deactivate Kerb with activated charcoal, such as Gro-Safe, use 10 lbs. charcoal per 1,000 sq. ft. Reseed no sooner than 7 days after charcoal application. A light overhead irrigation is necessary to move Kerb into the weed root zone if no rainfall occurs within 24 hours. DO NOT apply Kerb to any cool-season turfgrass. Kerb is a Restricted Use Herbicide.
siduron (Tupersan) 50 WP	creeping bentgrass	7	4.0-24 lbs.	2.0-12.0	4	May be applied at the time of seeding or to established creeping bentgrass for crabgrass spp. control. Siduron does not control goosegrass or annual bluegrass. Irrigate within 3 days of application with 2 inch of water/acre if rainfall does not occur. Tupersan at 1.0 lb. product per 1,000 sq. ft. may be used as band treatment along the perimeter of creeping bentgrass putting greens to suppress stolon growth of bermudagrass. Make the initial application in the March/April time frame. Repeat applications can be made at 4-5 week intervals.

Supplemental 2(ee) label recommendations may be available for some listed pesticides. It is the end-user's responsibility to consult the manufacturer or websites like [www.CDMS.net](http://www.CDMS.net) for additional recommendations.

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<b>Preemergence Herbicides – Golf Course Putting Greens - continued</b>						
fenarimol (Rubigan) 1AS (Patchwork) 0.78G	overseeded bermudagrass	n/a	See Label See Label	See Label See Label	12	Fenarimol is a systemic fungicide that reduces the infestation level of annual bluegrass. May be applied as a sequential treatment to bermudagrass greens that are overseeded with perennial ryegrass, <i>Poa Trivialis</i> or bentgrass. Sequential treatments should be applied at intervals of 10 to 14 days. Use the triple application program if bentgrass or <i>Poa Trivialis</i> is used for overseeding. For double applications, apply 6.0 fl. oz. of Rubigan AS or 6.0 lbs. of Patchwork per 1,000 sq. ft. with the last application 2 weeks prior to overseeding ryegrass. For triple applications, apply 4.0 fl. oz. of Rubigan AS or 4.0 lbs. Patchwork per 1,000 sq. ft. with the last application 2 weeks prior to overseeding ryegrass or 4 weeks prior to overseeding bentgrass or <i>Poa Trivialis</i> . A single application of Rubigan AS at 2.0 fl. oz. Or Patchwork at 2.0 lbs. per 1,000 sq. ft. in January or February will help to maintain annual bluegrass control. Rubigan will not control perennial bluegrass.
bensulide + oxadiazon (Goosegrass/Crabgrass Control) 5.25% + 1.31% G	bentgrass, bermudagrass	8+14	115.0 lbs.	6.0 bensulide + 1.5 oxadiazon	See Label	Controls summer annual grasses. Apply a light irrigation after treatment. DO NOT use on newly sprigged grasses until well established. Delay reseeding for 5 months after treatment. On putting greens overseeded with perennial ryegrass or <i>Poa Trivialis</i> apply 1/2 the maximum labeled rate to dry turf. Apply an additional application at 1/2 the maximum labeled rate to dry turf 10 to 14 days later. See label before use on putting greens.
<b>Postemergence Herbicides – Golf Course Putting Greens</b>						
carfentrazone (QuickSilver) 1.9 lbs./gal.  (QuickSilver) 1.03 lbs./gal. (water-soluble 5 ml bag)	bentgrass	14	6.7 fl. oz.  use 3-4 5 ml bags/2,000 sq. ft	0.1	Until Dry	Apply to creeping bentgrass putting greens and tees for the control of silvery-thread moss ( <i>Byrum argenteum</i> ). Repeat the application in 2 weeks. Add a nonionic surfactant at 0.25% v/v. Apply at a spray volume of ≥ 100 GPA. Transitory injury (yellowing) may occur when applied to bentgrass stressed from high air temperatures (> 90°F.), disease and soil moisture stress.
diclofop-methyl (Illoxan) 3EC	bermudagrass	1	1.0-1.4 qts.	0.75-1.0	See Label	Illoxan may be used for goosegrass control on bermudagrass golf greens, tees and fairways. Use the high rate for goosegrass with one to two tillers. Lower rates may be used on smaller goosegrass. DO NOT mow for 24-36 hours after application. Control requires 2-3 weeks. May cause temporary phytotoxicity (7-10 days). DO NOT tank mix with other pesticides or fertilizers as control will be reduced. DO NOT overseed treated areas for at least 2 months after the last application.
foramsulfuron (Revolver) 0.19 lb./gal.	bermudagrass	2	8.8-26.2 fl. oz.	0.013-0.04	12	Apply Revolver for: a) control of emerged annual bluegrass 2 weeks before overseeding bermudagrass with perennial ryegrass, b) postemergence control of goosegrass in late spring and early summer, c) postemergence control of annual bluegrass in non-overseeded putting greens, and d) spring transition of bermudagrass overseeded the previous fall with cool-season turfgrasses. For tillered goosegrass, make 2 applications at the high rate 7-14 days apart. DO NOT apply Revolver within 2 weeks of sprigging. Revolver is rainfast within 2 hours of application. Revolver must be allowed to dry on bermudagrass foliage before traffic is allowed through treated areas. Revolver is NOT recommended for use on creeping bentgrass greens.

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