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Control of Yellow Nutsedge in Newly Laid Sod-2007

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Objective: The objectives of this study were to observe the control of yellow nutsedge (*Cyperus esculentus*) in newly laid sod with Dismiss (sulfentrizone) and Sandea (halosulfuron which is also sold as Sedgehammer) and to determine if either material inhibited the establishment of the sod.

Methods: Plots measured 5 x 5 ft. They were split in half between a high-quality 'Vantage' Kentucky bluegrass sod that did not contain yellow nutsedge and a mixed species sod taken from an area with a high infestation of yellow nutsedge. Sod quality was observed on the Kentucky bluegrass side and nutsedge control was measured on the one half with the nutsedge infestation. The sod from both areas was laid on 6/4 and treatments were applied on 6/6. Treatments are listed in table 1. The soil on the area is a Nicollet clay loam with a pH of 6.95, 10 ppm P, 96 ppm K and 3.2% organic matter.

Results: No damage from the treatments was observed at anytime during the 16 weeks of the study on the sod from either side of the plots. Sedge counts on the one half of the plot containing yellow nutsedge were made on 7/3, 7/16, and 7/25. Following the 7/25 date, crabgrass had taken over the plots to the extent that it was no longer possible to see the sedge plants. A final count was taken on 10/4, after the crabgrass was gone. All treatments significantly reduced sedge on 7/16, 7/25, and 10/4 (Table 1), although at no time was there complete control of sedge in any of the plots.

Table 1. Nutsedge counts from one half of the plot and sod quality ratings following treatment.

Treatment	ai/acre	Sod phyto** 6/12	Sedge Count 7/3	Sod Quality 7/16***	Sedge Count 7/16	Sedge Count 7/25	Sedge Count 10/4
1. Sandea WG @ 0.67 oz/A POST	0.031 lb ai/A	9	16	6	13	7	5
2. Sandea WG @ 1 oz/A POST	0.047 lb ai/A	9	11	6	3	3	1
3. Sandea WG @ 1.33 oz/A POST	0.062 lb ai/A	9	14	6	7	7	3
4. Sulfentrazone (Dismiss) 4L at 8 oz/A	0.25 lb ai/A	9	6	6	8	5	2
5. Untreated Check	0	9	14	6	23	23	8
LSD 0.05		NS	NS	NS	11	11	5 ^x

* The LSD for sedge counts on 10/4 was significantly different at the 0.56 level.

** Sod phytotoxicity ratings are on a scale of 1 to 9, where 9 is no damage and 1 is dead turf.

*** Sod quality is on a scale of 1 to 9, where 9 is best possible quality, 6 is acceptable, and 1 is dead sod.