

USE OF TRIFLOXYSULFURON FOR A SUCCESSFUL OVERSEEDING PROGRAM

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Trifloxysulfuron-sodium is a sulfonylurea herbicide which can be used as a post emergence control of grasses, sedges and broadleaf weeds in turf. Field experiments were conducted at California State Polytechnic University, Pomona with Trifloxysulfuron. The treatments were laid out in a randomized block design with four replicates. Trifloxysulfuron was applied at 17.3 and 29.4 g a.i ha⁻¹ with 0.25% v/v of non-ionic surfactant, 21, 14, 10 days before overseeding with perennial ryegrass on a 'GN-1' and 'Tiffgreen' bermudagrass fairway. Visual rating for weed control, bermudagrass injury and ryegrass injury was recorded every two weeks after overseeding. Trifloxysulfuron at 17.3 and 29.4 g a.i ha⁻¹ applied 14 days before overseeding (DBO) resulted in 11 and 13 % injury to bermudagrass, respectively, compared to the control at 9 DBO. All herbicide applications resulted in 100% control of weeds 14 days after overseeding (DAO). Both rates of trifloxysulfuron applied 21 DBO had significantly lower ryegrass injury, compared to the 29.4 g a.i ha⁻¹ applied at 14 DBO. 14 DAO there was no significant difference in the level of injury of ryegrass between the Trifloxysulfuron treatment applied at 21 DBO and the control. Trifloxysulfuron at 29.4 g a.i ha⁻¹ applied at 14 and 10 DBO resulted in a 7 % injury on ryegrass compared to the control at 28 DAO. Trifloxysulfuron treatments at 21 DBO resulted in no ryegrass injury at 28 DAO. At 35 and 49 DAO there was no significant difference in the level of ryegrass injury between all the herbicide treatments.