



Result Demonstration Report

Herbicide trial on Purple Nutsedge in mixed Bahia and common Bermuda
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Summary Herbicide comparisons were done on Purple Nutsedge in a mixed Bahia and Common Bermuda stand. Halosulfuron Pro, Outrider, and Razor Pro were used in this comparison. Of the three herbicides only Outrider had an effect on the Purple Nutsedge.

Objective The objective of this trial was to use Halosulfuron Pro, Outrider, and Razor Pro on Purple Nutsedge in a Bahia and Common Bermuda mixed stand of grass to evaluate the effectiveness of these herbicides labeled for control of Purple Nutsedge.

Materials and Methods Halosulfuron Pro, Outrider, and Razor Pro were used on Purple Nutsedge in a mixed stand of Bahia and Common Bermuda. A split plot design with all three herbicides as well as a control plot were replicated twice. Each plot was 10' X10' for a total treated area of 100 sq. ft. per plot. A backpack sprayer was used for the application in which each herbicide was applied. After calibration the sprayer was applying at a rate of 10 GPA (Gallons Per Acre). The Halosulfuron was applied at a rate of 1 package /gal of water plus $\frac{1}{4}$ of a 1% surfactant which equaled a .32% solution. The Outrider was applied at a rate of 1.33 oz./ acre or .13 oz./ gal of water also with $\frac{1}{4}$ of a 1% surfactant which equaled a .32% solution. The Razor Pro was applied at a rate of 2.5 oz./gal of water with no additional surfactant because the Razor Pro already contains a 15% surfactant.

Visual evaluations were done on the plots for the Purple Nutsedge which accounted for approximately 80% of the coverage inside the plots before herbicide application. The results were evaluated at 2 week intervals for 6 weeks beginning the last two weeks of August and ending in September. During the evaluation period the area received little to no rainfall.



Control Plot

Results and Discussion Out of the 3 herbicides, when compared to the control plot, only Outrider had an effect on the Purple Nutsedge with a visual evaluation result of approximately 90% effectiveness. The Halosulfuron and Razor Pro when compared to the control plot had little to no effect on the Purple Nutsedge. The lack of rainfall could be a contributing factor to the lack of effectiveness of the Halosulfuron by reducing the translocation of herbicide. The timing of application could also be a contributing factor in the lack of effectiveness of the Halosulfuron and the Razor Pro. The Razor Pro did however turn the Bahia and Common Bermuda yellow but did not eliminate it.



Outrider plot (left) next to control plot (right)

Conclusions The objective of the project was met. One herbicide, Outrider, clearly had an effect on the Purple Nutsedge while leaving the Bahia and Common Bermuda intact. To improve future trials it would be beneficial to replicate the plots three times and have multiple applications at different intervals over a longer period of time.

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