

Nature Safe® Research

University Research Data

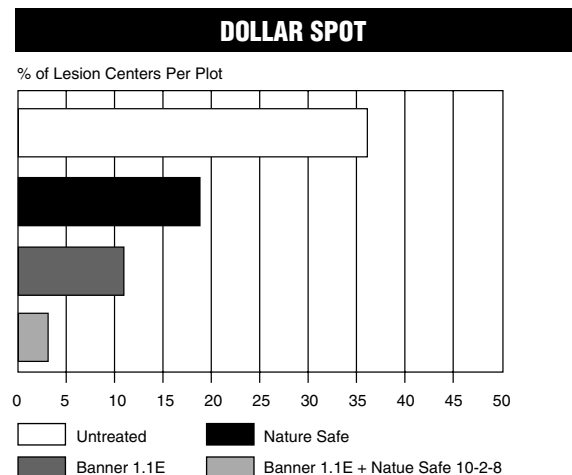
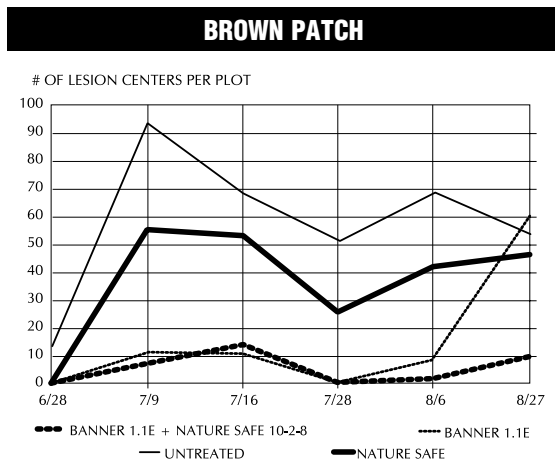
TITLE: Quality Turf Management

TEST CONDUCTED BY: Rutgers University, Dr. B.B. Clarke and P. Majumdar

I. Introduction and Procedures

Significant research has been completed on the antagonistic effect on turf diseases of biological fertilizers. Results in previous trial have demonstrated a 30-50% reduction in leaf lesions. This study was designed to look at the biological control of organic fertilizers in combination with a standard fungicide. Dr. Clarke conducted this experiment to measure the control of Dollar Spot and Brown Patch on Penncross Bentgrass. All values are means of four replications. Spray schedule applications were applied using Banner 1.1E® Fungicide on 28-day intervals beginning 6/17, at a rate of 1 fluid ounce per 1000 sq. ft. Nature Safe was applied at 0.5 lb. actual Nitrogen per 1000 sq. ft.

II. Test Results



Nature Safe applications showed excellent performance levels on the 30-day interval program at 0.5 lb. N rates. Banner 1.1E showed excellent results demonstrating nearly 90% control for 28 days. The combination of Nature Safe and Banner demonstrated excellent results as well as extending the suppressive characteristics of Banner far beyond the normal 28 day period. In fact, the combination product extended the effectiveness an additional 21 days. This would suggest by using Nature Safe in a regular summer program turf managers can increase the effectiveness and longevity of performance of Banner, thus, reducing fungicide use on turf.

Brown Patch was also examined at the 8/17 reading. Thirty-five percent of the control plot was infested with Brown Patch. Nature Safe showed a 19% level. Nature Safe and Banner used in combination, the percent effected was only 3%. Banner alone only controlled the disease to 12%.

III. Conclusion

Nature Safe in combination with Banner showed and excellent level of performance with extended fungicide response.