

## Research Update - 1988 Crabgrass Control

by Clark S. Throssell, Asst. Professor  
Turfgrass Science

A preemergence crabgrass control study was conducted on a fairway at New Albany Country Club, New Albany, IN. The fairway was a blend of perennial ryegrasses and annual bluegrass. The maintenance of the fairway included 4.0 lbs. actual nitrogen per 1,000 sq. ft. per year, preventative fungicide applications, irrigation to prevent drought stress, and mowed three times or more per week at 0.90 inches with clippings returned. Preemergence herbicides were applied on April 8, 1988 and split applications were applied six weeks later on May 20, 1988. All herbicides were watered in 30 minutes after application.

The crabgrass and goosegrass pressure was severe. Two experimental products, MON 15151 and proflampro provided excellent season long control from a single application. MON 15151 will be available in 1989 with an Experimental Use Permit (EUP). Proflampro will be on the market in the early summer of 1989. Split applications using commercially available products generally provided better control than a single application. Ronstar 75 WP at rates of 1.5 lbs. a.i./A and greater, Pendimethalin 60 WDG and Team 2G also provided excellent control. Ronstar 75WP caused a phytotoxic response in the turf that was unacceptable for 2 to 4 weeks after application.

Balan 2.5 G, Dacthal 75 WP, Presan 12.5 G, Ronstar 2G, and Scott's Goosegrass/Crabgrass did not provide satisfactory control this year. The performance of a given preemergence herbicide will vary from year to year for reasons that are not understood.

## Update on White Grub Research

by Timothy J. Gibb, Ext. Entomologist

The Department of Entomology at Purdue University, in cooperation with Midwest Regional Turf Foundation, has conducted white grub insecticide efficacy research in 1988. As of this printing the following preliminary results are available:

(1) All insecticide treated plots had substantially increased white grub mortality when compared to untreated plots. Nematodes also appeared to provide adequate control. Statistical tests now underway may indicate further significant differences between chemicals.

(2) Caging gravid beetles proved to be an ideal method of concentrating and obtaining young white grub larvae for study.

(3) Insecticide movement through blade, thatch and soil zones was very minimal. Testing procedures were not as accurate as had been hoped, however, it was evident that very little of the total chemical applied to the turf actually reached even the uppermost soil layer.

(4) Drought is thought to be responsible for a delay in peak emergence of Northern Masked Chafer adults observed in much of Indiana this season. Results from black light trapping indicated that emergence from pupation and subsequent oviposition began later, and extended over a longer period of time than normal. Practically, this meant that optimum timing for insecticide application also changed from late July to mid-August in 1988.

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