WWWWWEED CONTROL GUIDE

A complete weed control program includes both preemergence and postemergence herbicides, as well as cultural practices.

The primary preemergence herbicides for grassy and broadleaf weeds in cool-season turf are benefin, bensulide, DCPA, pendamethalin, oxadiazon, and siduron.

Siduron is the only preemergence herbicide that can be applied near time of seeding. Bensulide and DCPA can be applied in the spring

Cool-Season Turf

by Robert Shearman, University of Nebraska, NE

following a fall seeding.

Benefin and oxadiazon should be applied to established turf. Bensulide can affect rooting of existing bermudagrass and caution is advised for use of most preemergence herbicides on bermudagrass greens. Thinning of fine fescue stands from preemergence herbicides has also been reported.

Preemergence herbicides should be watered in to get the chemical to the seed prior to germination. The resulting chemical barrier in the soil should not be disturbed during key weed germination periods.

The herbicides should be applied two weeks prior to the expected germination period. Second applications may be necessary to provide control for the full germination period. Contact your local turf extension specialist for germination times for primary weeds. Also, see the germination map for crabgrass and annual bluegrass in this guide.

The primary postemergence herbicides for grassy weeds in turf are the arsonates; MSMA, DSMA, CMA, and MAMA. Treated areas should not be reseeded for a month or more after application. See labels for delay periods.

Bentgrass and fescue are more sensitive to arsonates than other coolseason grasses. CMA is the safest for bentgrass.

Weed foliage should be sprayed while still young (two or three leaf stage) if possible. The effectiveness of arsonates improves with temperature and rates need to be increased for temperatures below 80 degrees F.

The primary postemergence herbicides for broadleaf weeds are 2,4-D, 2,4-DP, dicamba (Banvel), and MCPP. Formulations of these products, such as Trimec and Weedone DPC, provide increased effectiveness on hard-tocontrol species. Turflon-D (triclopyr plus 2,4-D) is effective on some of the more difficult to control broadleaf weeds, such as knotweed and yellow wood sorrel.

These herbicides should not be applied until a new lawn has been mowed at least three times. The target weeds should be actively growing for best results. The temperature at applications should be at least 60 degrees F. Applications during extreme heat or drought can cause severe damage to desirable turf.

Two treatments of postemergence herbicides are generally necessary to control broadleaf weeds. See labels for the proper interval between applications.

Winter annuals can be sprayed early in the year, followed by summer annuals and perennials. Fall treatment for perennials is possible.

Postemergence herbicides are often combined to achieve improved control and reduce application time.

Occasionally, a landscape manager or sod producer chooses to fumigate a seedbed prior to planting to reduce

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weed seed, control insects and disease, and eliminate offtype grasses. Methyl bromide (Dowfume), metham (Vapam), dazomet (Mylone), and Vorlex are used for preplant fumigation. See labels for delay period following treatment and before seeding.

Renovation of turf stands is gaining acceptance, especially since the development of glyphosate (Roundup). During renovation all existing vegetation is killed and the area is reseeded in a matter of weeks without major cultivation. Glyphosate is deactivated within a few days following application, but a delay of two weeks is recommended. Amitrole, cacodylic acid, and dalapon can also be used, but the delay period is longer.

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