

United States Department of Agriculture



Natural Resources Conservation Service
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March 28, 2007

TECHNICAL GUIDE NOTICE

SUBJECT: Ohio Agronomy Technical Note OH-1

Purpose. To release Ohio Agronomy Technical Note OH-1 “*Controlling Kochia and Palmer Amaranth in Warm Season Grass Stands and in Cropland*”.

Effective Date. Effective upon receipt.

Filing Instructions. The electronic version of the Ohio Agronomy Technical Note OH-1 “*Controlling Kochia and Palmer Amaranth in Warm Season Grass Stands and in Cropland*” is accessible at http://www.oh.nrcs.usda.gov/technical/ohio_eFOTG.html , under Section I, C. Reference Lists, 1. Agronomy, Agronomy Technical Notes.

Background. Recently, kochia (*Kochia scoparia*) and Palmer amaranth (*Amaranthus palmeri*) have been found in warm season grass / forb stands in Ohio. It is quite possible some of these weed seeds were brought into Ohio along with seed mixes used for conservation programs. Both species found in these warm season grass stands appear to be resistant to ALS-inhibiting herbicides (Pursuit, Plateau, etc), and kochia can be resistant to triazine herbicides (atrazine, Sencor). Glyphosate (Roundup) resistant Palmer amaranth biotypes have also been found in Georgia.

Where these weeds are widespread, they are considered serious pests. The resistant varieties present a challenge to effective control. The Ohio Department of Agriculture (ODA) has added these two weed seeds to the prohibited noxious weed and seed lists for Ohio. This means that any seed lot found to contain kochia or Palmer amaranth weed seeds cannot be sold or used in Ohio without first being cleaned in Ohio.

It is recommended that CRP and cropland fields which have recently been exposed to kochia and/or Palmer amaranth not be tilled for several years until the weed seeds deposited on the soil surface have had a chance to germinate. Tilling will incorporate the seed into the plow layer which could perpetuate the problem.

Ohio Agronomy Technical Note OH-1 gives recommendations for both cultural and chemical control of these weeds in warm season grass stands and in cropland. It was developed in partnership with The Ohio State University, Department of Horticulture and Crop Science.

Contact. If you have any questions regarding Ohio Agronomy Technical Note OH-1, please contact State Agronomist Mark Scarpitti at (740) 653-1500 ext. 40 or email mark.scarpitti@oh.usda.gov.

Distribution. The availability of this directive, with enclosure, is limited to electronic format. It is accessible through the Ohio NRCS Electronic Directives System at http://www.oh.nrcs.usda.gov/technical/ohio_eFOTG.html

A handwritten signature in blue ink, appearing to read "T. Cosby".

TERRY J. COSBY
State Conservationist

Enclosure