

CAMIX: NEW MESOTRIONE BASED PREEMERGENCE HERBICIDE FOR CORN. Dain E. Bruns, Michael D. Johnson, and Brett R. Miller, Research and Development Scientist, Technical Brand Manager, and Research and Development Scientist, Syngenta Crop Protection, Greensboro, NC 27419.

Camix 3.7 SC, a combination of mesotrione [2-(4-mesyl-2-nitrobenzoyl)-3-hydroxycyclohex-2-enone] and *S*-metolachlor [2-chloro-N-(2-ethyl-6-methylphenyl)-N-(2-methoxy-1-methylethyl)acetamide], has been developed by Syngenta Crop Protection for preplant, preemergence, and burndown applications in field, seed, and silage corn at rates up to 2.2 lb/A. Mesotrione, an inhibitor of p-hydroxyphenol pyruvate dioxygenase and carotenoid synthesis in susceptible species, provides excellent control of the most important broadleaf weeds in corn including velvetleaf, pigweed species, waterhemp species, common lambsquarters, common ragweed, jimsonweed, nightshade species, and Pennsylvania smartweed. The addition of *S*-metolachlor to mesotrione in pre-packaged mixture results in the control of a broad spectrum of annual grass and broadleaf weeds. Corn shows excellent tolerance to the pre-packaged mixture of mesotrione and *S*-metolachlor.