

Managing Early Season Weed Competition In Corn-Residual vs. Total Post Weed Control Programs. Adrian J. Moses, Terence M. Carmody and Michael D. Johnson, Research and Development Scientist, Research and Development Scientist and Technical Brand Manager, Syngenta Crop Protection, Greensboro, NC 27419

LUMAX™ is a mixture of mesotrione, *S*-metolachlor, and atrazine that was introduced in 2003 by Syngenta Crop Protection. Mesotrione applied pre-emergence provides excellent control of the most important broadleaf weeds in corn including velvetleaf, pigweed species, waterhemp species, common lambsquarters, jimsonweed, nightshade species, and Pennsylvania smartweed. The addition of *S*-metolachlor and a low rate of atrazine to mesotrione in this pre-packaged mix resulted in broad spectrum and consistent control of both annual grass and broadleaf weeds. LUMAX was compared to glyphosate applied post-emergence as a single application or as two applications and at various application timings. No crop injury was observed from LUMAX at any location. Weed control and yields will be reported across multiple US locations.