

WEED CONTROL IN GLUFOSINATE RESISTANT SOYBEANS. Michael Weber\* and Jayla Allen, Bayer CropScience, Research Triangle Park, NC. (184)

Glufosinate resistant soybeans are expected to gain full commercialization by early 2009. Glufosinate resistant soybeans will be a limited launch in the US and gradually increase in concurrent years. The total acres of soybeans have been estimated to be about one million for soybean growing areas. Soybean maturity ranges are expected to be from 0.5 through 4.8 groups; ranging from the Dakotas through Arkansas. Glufosinate has a unique mode of action that can provide an alternative control measure for weeds resistant to glyphosate. A new formulation of glufosinate has been labeled for use in glufosinate-resistant crops.

Weed control trials for glufosinate resistant soybeans were conducted by Bayer CropScience and universities. Trials evaluated the use of glufosinate in glufosinate resistant soybeans for general weed efficacy across a broad spectrum of grass and broadleaf weeds. Weed control was influenced by a preemergence herbicide when used following a glufosinate application versus without the use of a preemergence herbicide.