

NICOSULFURON USE ON SWEET CORN. Mick F. Holm and Larry H. Hageman, Field Research and Development and Field Station Manager, DuPont Crop Protection, Wilmington, DE 19805.

For a number of years, nicosulfuron has been utilized for weed control in certain processing sweet corn hybrids. DuPont conducts evaluations of the tolerance of sweet corn hybrids to nicosulfuron on an annual basis and maintains a list of recommended sweet corn hybrids for use with nicosulfuron. This list is updated each year as new hybrids enter the market and tolerance data is generated.

In 2005, field research was conducted at Rochelle Illinois to determine the tolerance of nicosulfuron on 22 sweet corn hybrids. Nicosulfuron was applied postemergence at 0.5 ozai, 1.0 ozai, and 2.0 ozai, in combination with crop oil concentrate and AMS. Phytotoxicity ratings were made at 7, 14 and 28 days after application. A treatment of nicosulfuron at 0.5 ozai, plus mesotrione at 1.5 ozai, was also included in the study. Sweet corn hybrids that exhibited adequate tolerance over two years will be added to the 2006 recommended list.