

Variable-Rate Herbicide Application for Precision Weed Management. (A08-price140849-Oral)

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Abstract:

Field experiments were conducted at two North Carolina locations in 1999, 2000, and 2001 and on-farm in Port Royal, VA in 2000, 2001, and 2002 to evaluate scouting software as well as theoretical gains from site-specific herbicide application at these locations. Three on-farm experiments were also conducted in Lenoir, Wayne, and Wilson Counties in North Carolina in 2002 to evaluate a systems approach to site-specific herbicide application and compare the system to whole field herbicide applications. Analysis of data from the studies in North Carolina from 1999 to 2001 and Virginia showed that site specific herbicide applications could have reduced the volume of herbicides sprayed from 25 to 68%. In 2002, for the Lenoir Co. site, HADSS recentral for increasing grower profit and improving efficiency of herbicide use through variable-rate herbicide application.

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