Influence of Time of Manure Application on Potato Yield, Quality and Scab. (S08-dawson120932-Poster)

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Abstract:

This study evaluates whether the timing of applying manure can reduce the negative impacts preceding potatoes. Four potato varieties; Russet Norkotah, W-1151R (a very scab-susceptible variety), Snowden and Superior, were planted in May 2001 to evaluate the influence of time of manure application prior to potato planting on tuber yield, quality, and the incidence of common scab. Liquid dairy manure was applied at a rate of 280,500L/ha in Nov. 1999, Nov. 2000 or April 2001. Fertilizer was applied to the no manure plots at N and P rates equivalent to the available N and P in the Nov. 2000 manure application. Harvest data showed a significant interaction between time of manure application and variety. With two of the varieties (R. Norkotah and W-1151R) as the manure application was made closer to planting, tuber yield and dry matter decreased, however, for Snowden and Superior the length of time between manure application and planting had no effect on these parameters. The former varieties also tended to show more scab with the more recent manure applications (p=0.14). Therefore, a high application rate of manure one month before planting has a negative effect on yield and quality.

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Presentation Information:

Presentation Date: Wednesday, November 13, 2002
Presentation Time: 4:00-6:00 pm
Poster Board Number: 2330

Keywords:
manure, potato, scab, availability