

POTATO (*Solanum tuberosum* ‘Yukon Gold’, ‘Reba’) R.P. Mulrooney
 Black scurf; *Rhizoctonia solani* Plant and Soil Science Dept.
 University of Delaware
 Newark, DE 19717-1303

Field evaluation of T-22 Planter Box for the control of black scurf on potato, 2001.

This experiment was conducted in two commercial potato fields one near Townsend, DE (Fairview Farms) and Felton, DE (Byfield Farms). Both fields had been rotated and not grown potatoes in the previous two seasons. Commercially cut seed of ‘Yukon Gold’ and ‘Reba’ were treated with Maxim and 5% Mancozeb+firbark respectively before being treated with 2 oz/ cwt of T-22 Planter Box before planting. Both fields were commercially planted April 19. Seed pieces were planted 10 in. apart. Plots were randomized paired rows of untreated seed and T-22 treated seed 100 ft long, replicated five times.

At harvest, 12 row feet from each row were hand dug, weighed and bagged. Potatoes were refrigerated until rated. Tubers with 10% or more of their surface blemished by *Rhizoctonia* were rated as infected. The most common symptom seen was surface checking caused by *Rhizoctonia*. Tubers with any “black scurf” symptoms were also counted as infected.

Growing conditions were dry late in the season, which was not favorable for infection. Fairview Farms plots of ‘YukonGold’ were harvested Aug 1, three days after vine kill. Yield data is not available for this site. Byfield Farms plots were harvested Aug 22, two weeks after vine kill.

No differences were seen in yield at the Byfield Farms site. No differences at either site were seen between the T-22 Planter Box 2 oz/cwt treated and untreated potatoes. Disease severity was very low at both sites.

Fairview Farms (Maghan)

	% blemished potatoes ‘Yukon Gold’	
Treated	34.3	
Untreated	33.4	NS

Byfield Farms (Bergold)

	% blemished potatoes ‘Reba’	Yield (lb/plot)
Treated	43.6	47.2
Untreated	27.0	48.7 NS