

Table 1. Effects of products applied at planting on plant development and incidence of disease in the cultivar Russet Norkotah, San Luis Valley, Colorado, 2001

Treatment/Rate	Stand ^a	Vigor ^b	Stems ^c	%Stems with Rhizoctonia ^d	Stolons ^e	%Stolons with Rhizoctonia ^f	Seed piece decay ^g	# Tubers per plant ^h	Black scurf severity index ⁱ
1. Control	100	4.0	4.7	42.7	19.4	9.0	4.7	7.0	3.6 bc
2. A12534 on seed+Quadris, 1.5 oz.a.i./A IF	100	3.8	5.2	9.6	21.5	0.0	0.0	7.8	0.4 c
3. A12777 on seed+Quadris, 1.5 oz.a.i./A IF	100	4.0	4.4	28.2	20.6	0.9	0.0	7.8	0.8 bc
4. Moncut 50W,1.0 lb./A IF	100	4.1	5.4	23.3	21.3	2.4	1.9	7.8	4.5 ab
5. Moncut 50W, 1.5 lb./A IF	100	4.1	4.9	19.2	21.8	1.1	1.9	7.4	0.8 bc
6. Moncut 50W, 1.0 lb./A + 5pt. Blocker IF	100	4.3	5.6	20.2	23.6	3.2	0.9	6.8	0.5 bc
7. Blocker 10G, 25 lb./A IF + Firbark Mancozeb	100	4.1	4.9	32.9	20.3	2.2	0.6	9.1	3.1 bc
8. Blocker 4F, 7.5 pt./A IF + Firbark Mancozeb	100	3.9	5.4	20.9	21.9	4.3	0.0	7.6	0.4 c
9. Blocker 4F, 10.0 pt./A IF + Firbark Mancozeb	100	4.1	4.9	17.7	22.6	2.8	0.0	9.2	1.4 bc
10. Maxim MZ on seed	100	4.3	5.6	21.3	22.3	2.8	0.3	7.5	0.8 bc
11. Tops MZ on seed	100	4.3	5.3	41.7	21.8	8.9	0.0	8.3	8.4 a
LSD(P=0.05)	NS	NS	NS	NS	NS	NS	NS	NS	4.06

^a Percentage of plants emerged 40 days after planting; four replications.

^b Mean percent vigor, where 1 = poor, 5 = good; 4 plants/treatment/replication.

^c Mean number of stems per seed piece 41 days after planting; 4 plants/treatment/replication.

^d Mean percent stems with Rhizoctonia canker 41 days after planting; 4 plants/treatment/replication.

^e Mean number of stolons per seed piece 41 days after planting; 4 plants/treatment/replication.

^f Mean percent stolons with Rhizoctonia canker 41 days after planting; 4 plants/treatment/replication.

^g Mean percent incidence of disease combined soft-rot and dry-rot 41 days after planting; rated 0-100, where 0 = no decay, 100 = complete decay; 4 seed pieces/treatment/replication.

^h Mean number of tubers per plant 71 days after planting; 3 plants/treatment/replication.

ⁱ Mean percent of affected tuber surface area, 10 8-10 oz tubers per treatment per replication multiplied by the severity of the sclerotia, where 1 = small sclerotia and 3 = large sclerotia.

Means followed by the same letters are not significantly different at P=0.05 for Black scurf severity index.