

**Table 1.** Effects of products applied at planting on plant development and incidence of disease in the cultivar Russet Norkotah Selection 8, San Luis Valley, Colorado, 2002

Treatment/Rate <sup>a</sup>	Stand <sup>b</sup>	Vigor <sup>c</sup>	Stems <sup>d</sup>	% Stems with Rhizoctonia <sup>e</sup>	Stolons <sup>f</sup>	% Stolons with Rhizoctonia <sup>g</sup>	Seed piece decay <sup>h</sup>	No. tubers per plant <sup>i</sup>	Black scurf severity index <sup>j</sup>
1. Control	99.5	3.3	3.8	94.8	21.7	13.4	12.3 bc	10.4	18.6
2. Maxim 4FS @ 0.04 fl.oz./cwt on seed	98.3	3.3	3.9	72.9	20.0	7.0	12.5 bc	9.2	16.2
3. Maxim 4FS @ 0.08 fl.oz./cwt on seed	97.0	3.6	3.7	71.7	20.7	10.2	35.8 a	9.5	12.8
4. Maxim MZ 10.1DP on seed	99.5	3.3	3.6	92.3	22.6	11.3	1.0 c	10.1	12.1
5. Moncoat MZ 7.5DP on seed	98.3	3.5	4.8	91.7	23.2	8.8	2.5 c	10.3	16.3
6. Tops MZ 8.5DS on seed	98.8	3.1	3.9	87.5	19.5	9.1	5.5 c	9.4	21.4
7. Maxim 4FS @ 0.04 fl.oz./cwt on seed + Mancozeb on seed	97.5	3.3	3.9	94.2	22.1	11.7	12.0 bc	11.3	24.7
8. Maxim MZ 10.1DP on seed + Quadris @ 25 oz./A IF	98.8	3.4	4.5	96.7	22.3	8.5	0.3 c	10.6	13.6
9. Moncoat MZ 7.5DP on seed + Quadris @ 25 oz./A IF	98.8	3.4	3.9	91.9	23.8	5.3	6.0 c	9.8	14.1
10. Tops MZ 8.5DS on seed + Quadris @ 25 oz./A IF	98.8	3.3	3.8	100.0	22.9	8.6	7.0 c	10.8	14.4
11. Moncut 70DF @ 0.75 lb./A IF	98.8	3.3	3.9	95.7	22.0	17.5	28.5 ab	10.1	16.2
12. Moncut 70DF @ 1.0 lb./A IF	98.3	2.9	3.6	97.5	18.8	9.1	30.0 ab	9.8	10.6
LSD(P=0.05)	NS	NS	NS	NS	NS	NS	18.75	NS	NS

<sup>a</sup> All treatments were applied according to the manufacturer's recommendations.

<sup>b</sup> Percentage of plants emerged 41 days after planting; four replications.

<sup>c</sup> Mean percent vigor, where 1 = poor, 5 = good; 5 plants/treatment/replication.

<sup>d</sup> Mean number of stems per seed piece 43 days after planting; 5 plants/treatment/replication.

<sup>e</sup> Mean percent stems with Rhizoctonia canker 43 days after planting; 5 plants/treatment/replication.

<sup>f</sup> Mean number of stolons per seed piece 43 days after planting; 5 plants/treatment/replication.

<sup>g</sup> Mean percent stolons with Rhizoctonia canker 43 days after planting; 5 plants/treatment/replication.

<sup>h</sup> Mean percent incidence of disease combined soft-rot and dry-rot 43 days after planting; rated 0-100, where 0 = no decay, 100 = complete decay; 5 seed pieces/treatment/replication.

<sup>i</sup> Mean number of tubers per plant 71 days after planting; 5 plants/treatment/replication.

<sup>j</sup> 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.