

**Table 1.** Effects of seed treatments 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	98.8	3.0	4.2	91.3	18.8	5.3	17.5	9.8	19.1 a
2. A 12534 @ 4 oz./cwt	95.0	3.3	3.4	78.8	17.8	7.7	2.5	11.6	19.1 a
3. A 12534 @ 8 oz./cwt	100.0	3.1	3.7	96.3	17.6	3.8	3.5	11.0	7.6 a-c
4. A 12534 @ 4 oz./cwt + Quadris @ 25 oz./A IF	97.0	3.4	4.3	84.9	24.5	3.1	7.5	11.1	1.3 c
5. Quadris @ 25 oz./A IF	98.8	3.2	3.8	75.2	22.0	1.7	14.5	9.8	1.2 c
6. Tops MZ 8.5DS	96.3	3.1	4.2	95.8	22.1	2.2	1.0	9.8	14.8 ab
7. Moncoat MZ 7.5DP	97.5	3.1	3.6	93.4	22.0	4.8	1.5	9.0	7.3 a-c
8. PCC553-1	97.0	3.1	4.1	90.9	21.7	5.2	1.5	10.6	4.3 bc
9. PCC553-1 Mixed Blend	97.0	2.7	4.6	96.7	16.5	2.7	5.0	10.0	11.2 a-c
10. PCC553-1 Mixed Blend Plus	100.0	3.2	3.8	89.1	21.1	2.6	2.5	9.6	4.5 bc
11. Blocker @ 7.5 pt./A IF	97.5	2.8	4.4	98.0	18.7	4.1	1.5	9.4	3.0 bc
LSD(P=0.05)	NS	NS	NS	NS	NS	NS	NS	NS	12.65

<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 the 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.