

**Table 3.** Effects of different rates of compost on potato tuber number, size, and quality, San Luis Valley, Colorado, 2001

Field	Treatment <sup>a</sup>	Percent <sup>b</sup>								Total lbs.	Total No.	cwt/A <sup>d</sup>
		< 4 oz.	No.	4-10 oz.	No.	> 10 oz.	No.	MS <sup>c</sup>	No.			
3A	0	19.5	45.0	57.9	46.2	19.4	7.5	3.3	1.3	38.6	121.5	395.7
	4	18.5	43.2	62.1	49.2	16.3	6.0	3.1	1.6	39.9	121.5	409.1
	8	16.2	38.8	63.3	52.3	19.0	8.1	1.5	0.9	41.3	117.3	423.5
	12	18.5	41.2	59.3	49.8	20.6	8.4	1.6	0.7	37.4	110.0	384.0
3B	0	21.9	42.0	68.2	54.3	8.8	3.2	1.1	0.5	35.1	113.3	359.7
	4	21.2	41.8	66.6	53.6	9.5	3.5	2.6	1.1	36.0	120.8	369.4
	8	18.6	38.3	67.4	55.9	12.6	5.2	1.4	0.7	34.9	110.0	358.5
	12	19.0	41.4	65.8	52.7	14.0	5.2	1.2	0.7	36.7	121.5	376.4
6A	0	13.4	36.9	62.3	52.8	21.0	8.0	3.4	2.3	44.3	134.8	454.6
	4	18.3	42.2	67.8	51.6	11.9	4.7	2.0	1.5	42.7	145.5	438.5
	8	15.0	38.2	74.1	57.7	9.8	3.6	1.1	0.5	45.0	146.3	461.4
	12	17.3	42.1	68.1	52.1	12.9	4.9	1.7	0.9	45.4	149.5	466.1
Overall mean	0	18.2	41.3	62.8	51.1	16.4	6.2	2.6	1.4	39.3	123.2	403.4
	4	19.4	42.4	65.5	51.5	12.6	4.7	2.6	1.4	39.5	129.3	405.7
	8	16.6	38.4	68.3	55.3	13.8	5.6	1.3	0.7	40.4	124.5	414.5
	12	18.3	41.6	64.4	51.5	15.8	6.2	1.5	0.7	39.9	127.0	408.8
LSD(P=0.05)		NS	NS	NS	2.9	NS	NS	NS	NS	NS	NS	NS

<sup>a</sup> Rate of compost applied in tons/acre

<sup>b</sup> Based on tuber weight in pounds and tuber number, mean of four replications.

<sup>c</sup> Misshaped tubers.

<sup>d</sup> Total yield expressed as hundred weight per acre, 1-15 foot row per treatment per replication, mean of four replications. Field 6B was harvested before tuber samples could be taken to determine yield.