

Table 6 Effect of seed treatment and pesticide application on carrot emergence and number and weight of roots at harvest in field trials (values per meter length of row)

		Wellesbourne			Grower site		
Treatment	Pesticide	Mean emergence (number)	Number at harvest	Weight at harvest (g)	Mean emergence (number)	Number at harvest	Weight at harvest (g)
Year 1		T. Hammond & Sons, South Notts					
Primed control	+	39.8	39.8	3882	19.6	29.9	6008
Primed CHA0	+	35.6	40.2	4309	24.4	29.4	5431
Primed MA342	+	42.6	43.0	4504	21.5	29.2	5230
Primed IK726	+	39.2	39.6	3607	24.0	26.5	4732
Primed T22	+	39.3	40.5	4188	22.9	27.8	5550
Unprimed control	+	41.0	40.0	4379	24.9	30.8	6044
Primed control	-	32.3	33.7	3804	22.1	25.5	5862
Primed CHA0	-	23.8	26.5	3839	22.6	30.4	5618
Primed MA342	-	30.7	32.9	4529	22.5	32.2	5648
Primed IK726	-	21.0	22.6	3492	17.1	25.5	5590
Primed T22	-	30.7	32.3	3941	25.0	28.8	5766
Unprimed control	-	29.4	30.1	3734	19.2	28.4	6320
LSD(5%, df =33)		6.27	6.25	950.5	8.02	11.07	1301.7
Year 2		Marshall Farms, Papplewick					
Primed control	+	40.6	43.9	4204	34.2	41.4	4683
Primed CHA0	+	42.7	46.9	4277	34.9	41.0	4676
Primed MA342	+	40.1	42.8	4408	34.1	37.7	4243
Primed IK726	+	40.1	43.5	4624	36.2	41.3	5079
Primed T22	+	35.9	35.6	4532	35.9	39.9	4995
Unprimed control	+	44.9	48.1	4081	35.6	41.7	5148
Primed control	-	32.6	34.8	3964	34.2	39.6	4850
Primed CHA0	-	25.9	27.5	3733	32.5	39.7	5046
Primed MA342	-	26.2	28.3	3855	35.8	43.4	4985
Primed IK726	-	21.7	23.2	3939	34.5	40.4	5268
Primed T22	-	22.7	24.1	3702	35.5	37.3	4578
Unprimed control	-	22.3	23.8	3584	34.8	42.2	4602
LSD(5%, df =33)^a		6.32	7.28	345.3	3.81	10.63^a	793.8^a
Year 3		Clumber Farms, Worksop					
Primed control	+	37.3	37.1	5143	44.6	54.7	3639
Primed CHA0	+	33.5	33.2	4987	46.1	58.2	3717
Primed MA342	+	36.9	38.7	5200	46.7	56.5	3618
Primed IK726	+	34.7	35.3	5134	45.6	56.1	3898
Primed T22	+	34.7	35.1	5177	48.8	55.7	3653
Unprimed control	+	31.7	32.4	5189	44.0	52.8	3631
Primed control	-	28.3	27.0	4555	44.5	56.8	4024
Primed CHA0	-	30.0	31.2	5025	46.1	54.5	3830
Primed MA342	-	29.5	29.9	4904	40.4	47.1	3805
Primed IK726	-	31.2	31.6	4974	44.7	51.8	3702
Primed T22	-	32.3	32.2	5161	46.0	54.7	3912
Unprimed control	-	28.4	29.0	4544	46.9	54.2	3540
LSD(5%, df =33)^a		5.49	6.11^a	533.0^a	12.00	13.45	449.0

^a df = 33, except for Year 2 Grower site number and weight at harvest (df = 24(9)) and Year 3 Wellesbourne number and weight at harvest (df = 29 (4))