

2015 Cilantro Control Trial

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Methods: The trial was established in a commercial cilantro production field near King City with a cooperating grower and PCA. The field was seeded and the **preemergence treatments** were applied on June 24, 2015 and the first germination water was applied on June 25. All applications were made with four passes of a one-nozzle wand with an 8008E nozzle at 30 psi applying 72 GPA. The trial was arranged in a randomized complete block design with three replications. Each plot was one 80-inch bed wide by 10 feet long. The soil at the site was Mocho silt loam. Weed counts were made from 6 1 ft² quadrates. Weed count data was converted to weeds/m². Yield was evaluated by harvesting a 0.5 m² area from the middle of each plot on July 28.

Results: No phytotoxicity was evident in any of the plots on July 9 (Table 1). Weed control in all herbicide treatments was significantly better than the untreated control. The Caparol at 0.50 and 0.75 lbs a.i./A treatments were the only treatments with any weeds. All other treatments and combinations were weed free. There were no differences in yield between the herbicide treatments, however, all herbicide treatments had significantly lower yield than the untreated control.

Table 1. Phytotoxicity and weed counts (per m²) on July 9 and yield evaluation on July 28

Material	Lbs a.i./A	Preemergence Material/A	Phyto ¹	Malva	Pigweed	Purslane	Lambs-quarters	Total weeds	Yield T/A
Caparol 4L	0.50	1.0 pint	0.0	0.67	0.00	0.00	0.00	0.67	10.80
Caparol 4L	0.75	1.5 pint	0.0	0.33	0.00	0.00	0.00	0.33	9.82
Caparol 4L	0.50	1.0 pint	0.0	0.00	0.00	0.00	0.00	0.00	10.15
Lorox 50DF	0.75	1.50 lbs							
Caparol 4L	0.75	1.5 pint	0.0	0.00	0.00	0.00	0.00	0.00	10.19
Lorox 50DF	0.75	1.50 lbs							
Caparol 4L	0.75	1.50 pint	0.0	0.00	0.00	0.00	0.00	0.00	10.47
Lorox 50DF	1.00	2.00 lbs							
Lorox 50DF	0.75	1.50 lbs	0.0	0.00	0.00	0.00	0.00	0.00	10.77
Lorox 50DF	1.00	2.00 lbs	0.0	0.00	0.00	0.00	0.00	0.00	10.95
Untreated	---	---	0.0	4.67	0.33	2.33	0.33	7.67	12.91
P>treat			NA	0.0000	0.4706	0.0011	0.4706	0.0000	0.0245
LSD _{0.05}			NS	0.31	NS	0.31	NS	0.61	0.51

1 – scale: 0 = no crop damage to 10 crop dead