

BEAN (SNAP): Phaseolus vulgaris 'Provider'
Two-spotted Spider Mite: Tetranychus urticae Koch
Western Flower Thrips: Frankliniella occidentalis Pergande

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CONTROL OF MITES AND THRIPS ON BEANS, 1982. Garden beans planted May 27 for seed were sprayed July 28 to control mites and thrips. Materials were broadcast applied over the rows with a CO₂ pressurized backpack sprayer, 8004 nozzles, 30 psi, and at 20 gal finished spray/A. Plot size was six rows (11 feet) by 25 feet (8m). All treatments were replicated three times in a randomized complete block design. Thrips and mites were sampled on August 2, 9, 16, or 5, 12, and 19 days after application, respectively. On each sampling date 10 trifoliolate leaves were picked from different plants in each plot and examined for mites and thrips.

Spider mite control was best with propargite. After the first sampling date, however, no treatment was significantly different from the check. Thrips reduction was best with dimethoate, the area commercial standard, and oxydemeton-methyl. Other materials provided significant control when compared to the untreated check through the August 9 sampling date. On August 16, dimethoate was the only product providing significant control.

Material and lb ai/A	mean number mites/10 leaves			mean number thrips/10 leaves		
	8/2 ^{1/}	8/9	8/16	8/2	8/9	8/16
Untreated check	71.3 ab ^{2/}	109.0 abc	212.0 abc	56.6 a	72.0 a	76.0 ab
Metasystox-R 2E 0.5	14.3 cd	57.0 bc	147.3 bc	12.5 bc	21.7 i-l	27.3 ab
Mavrik 2E 0.05	41.0 b-e	87.7 abc	227.3 abc	14.9 bc	38.7 b-j	46.3 ab
Mavrik 2E 0.10	93.7 a	170.0 a	384.3 a	21.9 bc	26.0 e-l	48.0 ab
Mavrik 2E 0.15	51.0 b-e	115.0 abc	273.7 ab	13.2 bc	26.3 e-l	64.3 ab
Comite 6.5 1.6	7.0 e	12.3 c	26.3 c	46.4 a	51.0 a-e	52.7 ab
Kelthane 8EC 0.6	30.3 b-e	38.7 bc	64.7 bc	36.7 abc	52.7 abc	50.7 ab
Systox 6EC 0.5	24.0 cde	84.3 abc	159.7 bc	24.2 abc	39.0 b-i	58.7 ab
Phosdrin 4 Misc. 0.5	15.3 de	57.3 bc	132.3 bc	6.7 c	49.0 a-g	58.3 ab
Trithion 8EC 0.5	31.0 b-e	84.7 abc	210.3 bc	28.0 bc	51.7 a-d	42.0 ab
Ethion 8EC 0.5	66.0 abc	134.0 ab	219.3 abc	18.7 bc	39.7 b-k	69.3 ab
Cygon 400 0.5	30.0 b-e	44.3 bc	126.3 bc	5.2 c	8.0 l	25.3 b
Dibrom 8 Misc. 1.0	27.3 cde	68.0 abc	140.3 bc	32.7 abc	63.3 ab	80.3 a
Plictran 50W 0.5	267 cde	104.3 abc	103.0 bc	37.9 abc	50.7 a-f	60.0 ab

^{1/} Treated 7/28

^{2/} Means followed by the same letter are not significantly different at the 5% level,
Duncan's Multiple Range Test