

Weed Control Alternatives in Drilled Peas
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Results: See table 1

Narrative: Peas tolerated most herbicides evaluated in three field trials conducted with grower-cooperators in 1989. The exception was trifluralin (Treflan) which reduced early growth and vigor by 10 to 40%. By harvest, the remaining plants in trifluralin treatments compensated and yields were similar to other treatments. Clomazone (Command) caused white leaves on young seedlings, especially following rainfall or irrigation. Symptoms disappeared within several days. Growth and yields were not suppressed, although observations from previous trials at higher rates suggest that soil persistence can be a serious threat to subsequent crops including fall-planted wheat.

Lambsquarter infested only one trial where trifluralin provided optimum control. Other acceptable treatments included clomazone at 0.25 to 0.33 lbs. ai/acre. Bentazon (Basagran) applied postemergence failed to control lambsquarter, probably due to excessive size.

Year-round weed management strategies were demonstrated in at least two of the trial sites where weed interference failed to depress yields in the non-treated controls. Both growers had practiced some sort of postharvest weed control that prevents increases in the seed bank.

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Results: table 1

	Peas % injury			Weed Control lambsquarter			Peas ave. yield Tons/Acre		
	trial 1	trial 2	trial 3	trial 1	trial 2	trial 3	trial 1	trial 2	trial 3
Check	6	0	0	4.79	2.98	1.85			
Command PPI 0.25	10	5	73	4.76	2.87	2.49			
Command PPI 0.33	1	3	74	5.05	2.85	2.55			
Command PPI 0.50	9	3	83	4.65	2.71	2.98			
Command PPI 0.50	9	0	91	4.98	2.34	2.57			
Sencor PRE 0.18									
Command PPI 0.50	4	2	75	4.80	2.59	2.51			
Basagran POST 0.50									
Sencor PRE 0.18	6	1	40	4.00	2.62	2.47			
Basagran POST 0.50									
Treflan PPI 0.50	11	46	86	4.69	2.44	2.79			
Basagran POST 0.50									
Ramrod PRE 5.00	4	1	70	4.32	2.60	2.30			
Basagran POST 0.50									
Ramrod PRE 5.00	8	48	96	3.68	2.54	2.76			
Treflan PPI 0.50									
Dual PRE 2.00	26	48	98	3.85	2.58	2.93			
Treflan PPI 0.50									
Dual PRE 2.00	13	0	70	3.48	2.80	2.57			
Basagran POST 0.50									
LSD (0.05) =	19	1.0	17	1.54	.43	.74			
STD. DEV. =	13	6.8	12	1.07	.29	.51			
CV. =	152	43.1	17	24.17	11.08	19.90			

Signatures:

Project Leader

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