

A Layby Weed Control Trial in Banana Squash. Mullen, R. J., C. L. Elmore. A layby weed control trial in banana squash, comparing six individual herbicides and two herbicide combination treatments, was established at Azevedo Farms (John Azevedo) near French Camp, California, on June 17, 1983. The soil type was a Delhi fine sand, and all treatments were applied as a directed spray, away from the crop, using a handheld CO₂ backpack sprayer and immediately soil incorporated three to four inches deep two times--once in each direction (north-south)--using the grower's spike-harrow/ring roller incorporator. The crop was at the 18 to 24 inch rosette stage of growth on the day of treatment. Furrow irrigation followed four days after treatment. Weed control and crop phytotoxicity ratings were made on 6/30/83. Best overall weed control occurred with the combination treatment of Dual (metolachlor) plus Alanap (naptalam). Dual alone and Lasso (alachlor) alone gave good yellow nutsedge control but were only intermediate in controlling hairy nightshade and weak on cocklebur. Sonalan (ethafluralin) was quite effective on cocklebur and hairy nightshade but weak on yellow nutsedge; the same comments apply to the combination of Prefar (bensulide) plus Alanap except the combination was not as effective on hairy nightshade. Prowl (pendimethalin) showed fair to good activity on cocklebur. Some slight crop growth suppression temporarily occurred with Sonalan, Lasso, and Dual but otherwise all treatments were quite safe to the banana squash.

Treatment	Rate Lb/Ac	Weed Control <u>1/</u>			Crop <u>1/</u> Phyto
		Yellow Nutsedge	Hairy Nightshade	Cocklebur (Spotty stand)	
pendimethalin	1	5.0	5.3	7.6	0.9
ethafluralin	1	5.3	8.1	8.3	1.4
metolachlor	3	8.4	7.0	4.5	1.1
alachlor	3	8.6	7.3	5.3	1.2
napropamide	2	5.9	3.5	4.0	0.9
bensulide + naptalam	6 + 3	4.5	7.1	8.0	0.7
metolachlor + naptalam	2 + 3	8.8	8.5	9.0	1.0
trifluralin	1	5.0	4.3	6.0	0.7
Control	---	1.8	1.8	2.5	0.7

1/ Average of four replications:

0 = no weed control; no crop damage
10 = complete weed control; crop dead