

Replacement Pesticide for OPs

Insecticide	~Cost \$ per ac	Relative efficacy with chemigation For BHFV (1 to 10)	Relative efficacy with chemigation For Tipworm (1 to 10)
Lorsban	8	10	3-6
Orthene	6	10	3-6
Diazinon	18	10	3-6
Altaclor	40	8-10	2-5
Intrepid	20	8-9	1
Delegate	35	6-8	2-3
Avaunt	30	7-8	1
Success	29	7	2-3
Confirm	24	6-7	1
Entrust	48	6	2

Insecticide	Rate used (lbs/ac)	Bee Toxicity LD50 ($\mu\text{g}/\text{bee}$)	Relative risk quotient to bees (use rate/ toxicity)
Admire	0.5	0.004	125
Belay	0.4	0.014	28
Lorsban	1.5	0.06	25
Diazinon	2	0.09	22
Actara	0.04	0.005	8
Delegate	0.13	0.02	6.5
Success	0.08	0.025	3.2
Entrust	0.08	0.025	3.2
Orthene	1	1.2	0.8
Avaunt	0.03	0.18	0.2
Intrepid	0.25	100	0.0025
Confirm	0.25	100	0.0025
Altaclor	0.05	104	0.0004

Toxicity changes after it dries and gets on the pollen

Pesticide	Contact LD₅₀ug/bee	Oral from pollen LD₅₀ug/bee
Lorsban	0.01	0.25
Belay	0.0439	0.00368
Diazinon	0.22	0.2
Vemon	0.047	0.023
Admire	0.0439	0.0039
Avaunt	0.118	18.52
Imidan	1.06	0.37
Assail	37.83	17.32
Actara	0.024	0.005