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Figure 1. Percent control of weevils and aphids (pea+blue alfalfa), 3-days post treatment. Sivanto (flupyradifurone, not labeled for weevils; 14 oz rate is for three cornered alfalfa hoppers, off label for aphids), Cobalt (chlorpyrifos+Warrior), Stallion (chlorpyrifos+Mustang). Also tested various microbial insecticides on weevils, but <20% efficacy.

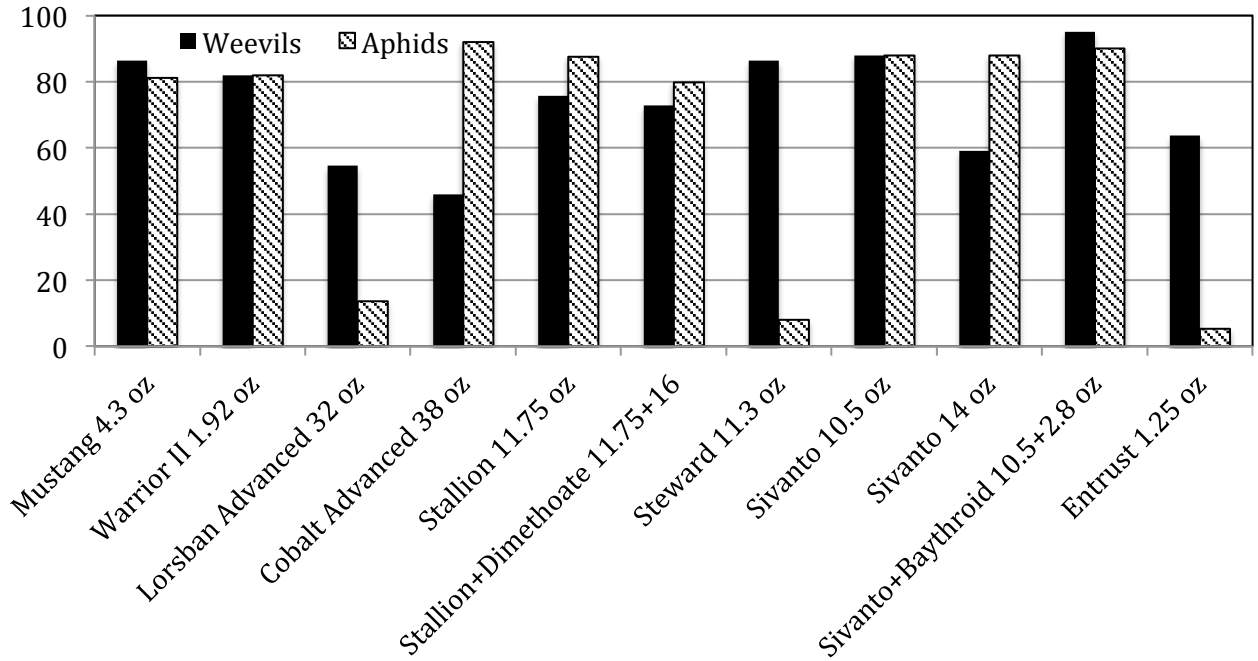


Figure 2. **Unregistered Insecticides** for experimental use in alfalfa and percent control of weevils and aphids, 3-days post treatment. Endigo (Warrior+thiamethoxam), Belay (neonicotinoid), Besiege (Warrior+chlorantraniliprole), Cyclaniliprole (related to Coragen). Also looking at Transform (sulfoxaflor) for aphid control.

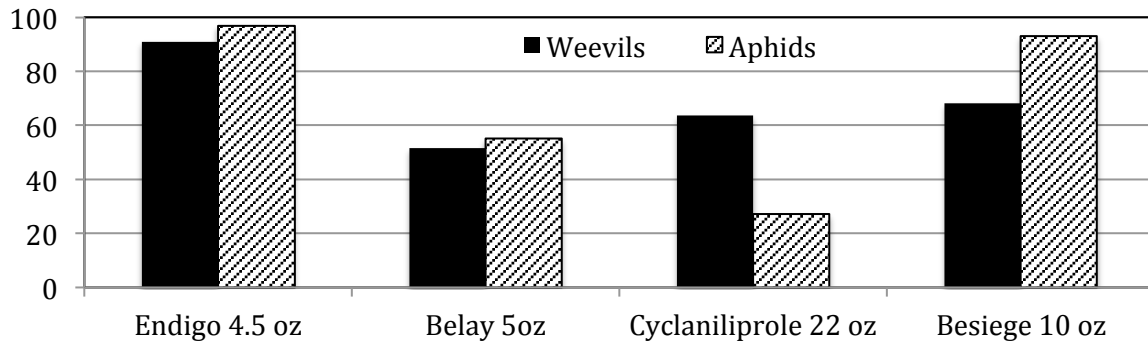


Table 1. Least toxic materials for integrated pest management in alfalfa production.

Pest	'Soft' Insecticides
Weevils	Steward ¹ , Entrust (suppression, for organic hay)
Aphids	Sivanto ² , Beleaf ³
Summer worms	Belt, Coragen, Intrepid, Steward, Bt's (XenTari, Agree)
Mites	Onager

¹Steward: Shorter residual, more expensive; ²Sivanto, leafhoppers; ³Beleaf, 62 day PHI