





















Cotton aphid

- Can be present throughout growing season
- Early season (pre-squaring)
 populations not causing yield
 loss and too early for sticky
 cotton



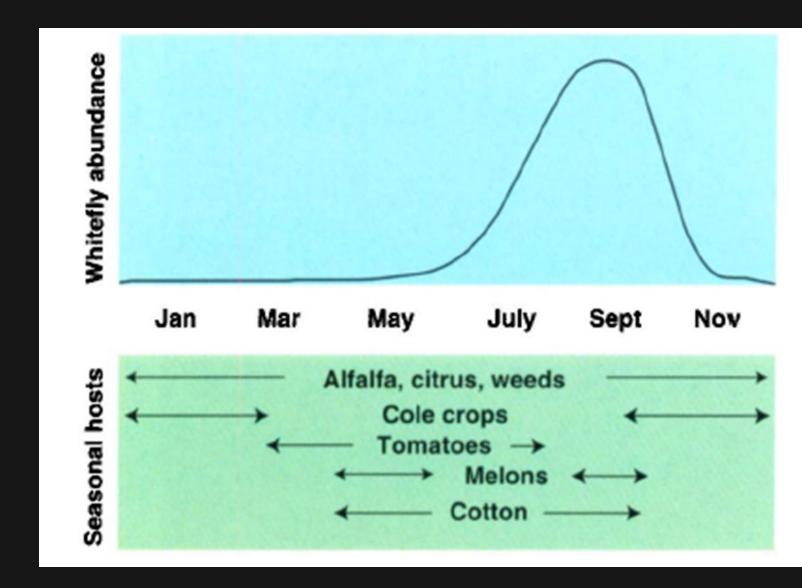


- Biocontrol often "at work" early
- Biocontrol is not instantaneous though



Silverleaf whitefly dynamics

- Build through season
- Inter-crop movement
- Biocontrol can work



Action thresholds

Sampling and monitoring

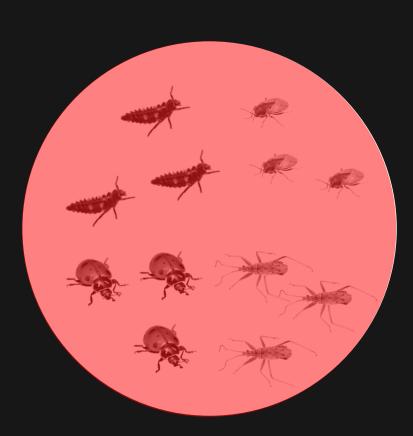
Effective and selective insecticides

Resistance management

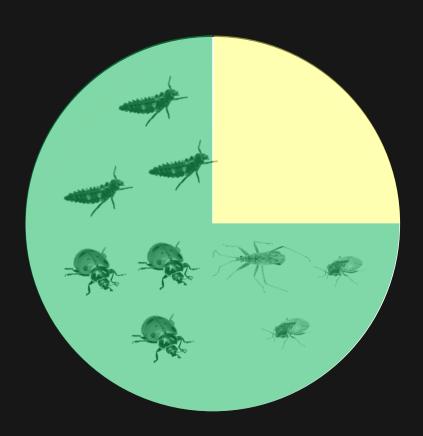
Efficacy

Selectivity

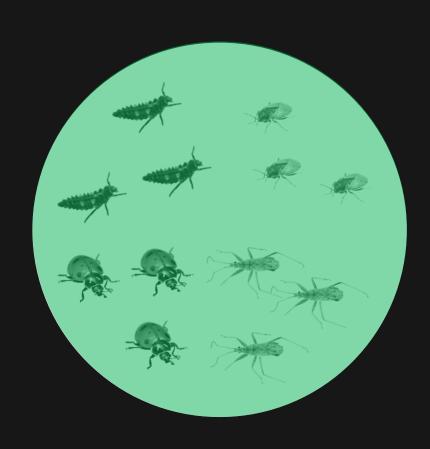
Insecticide selectivity >



Broadspectrum

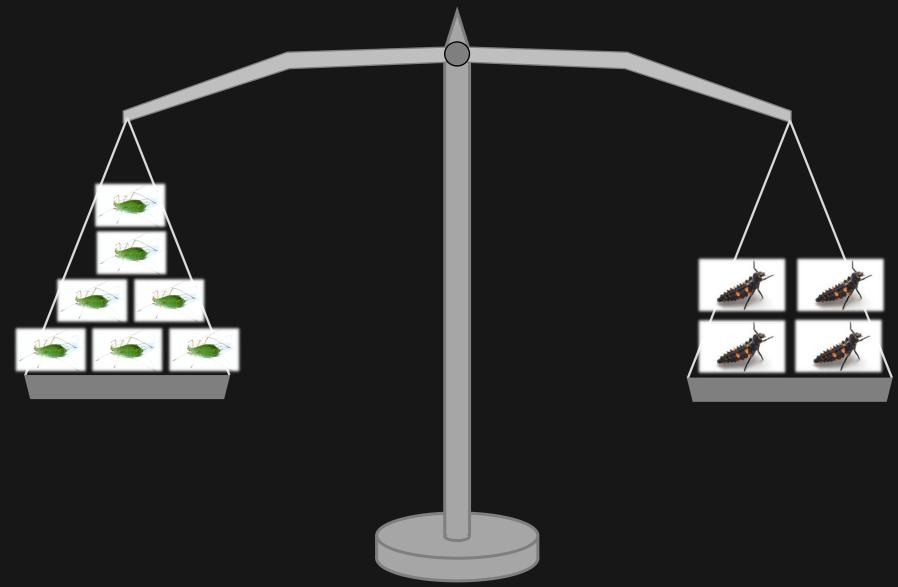


Partially safe for NEs



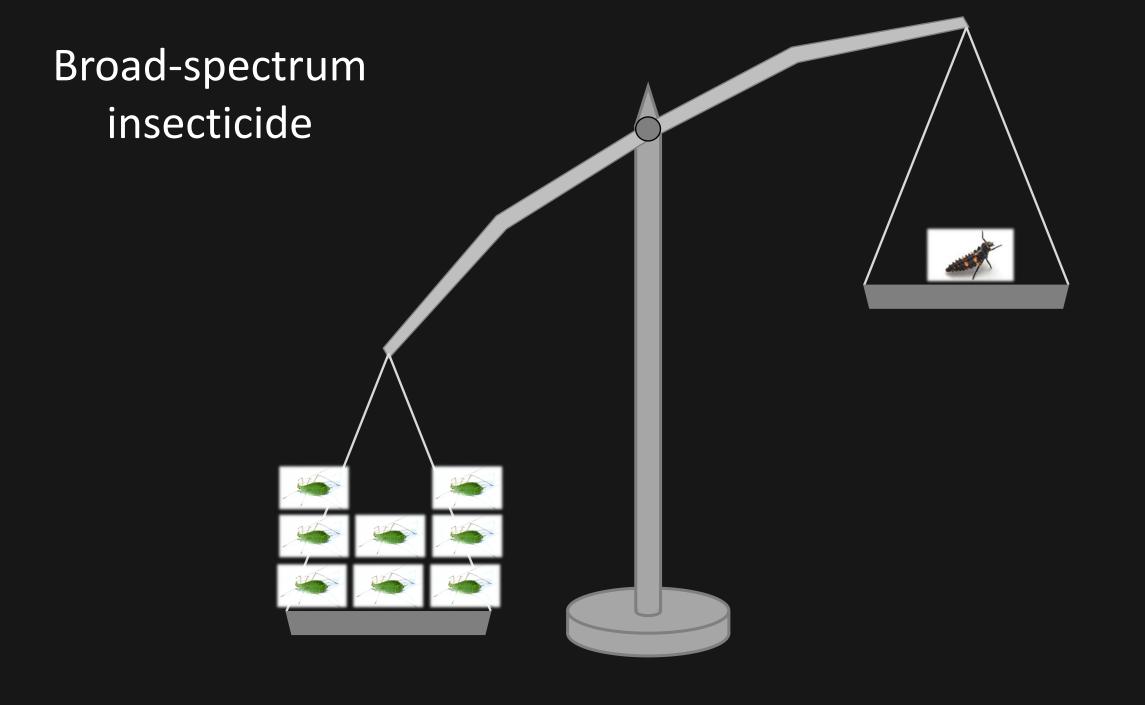
Safe for NEs

Broad-spectrum insecticide

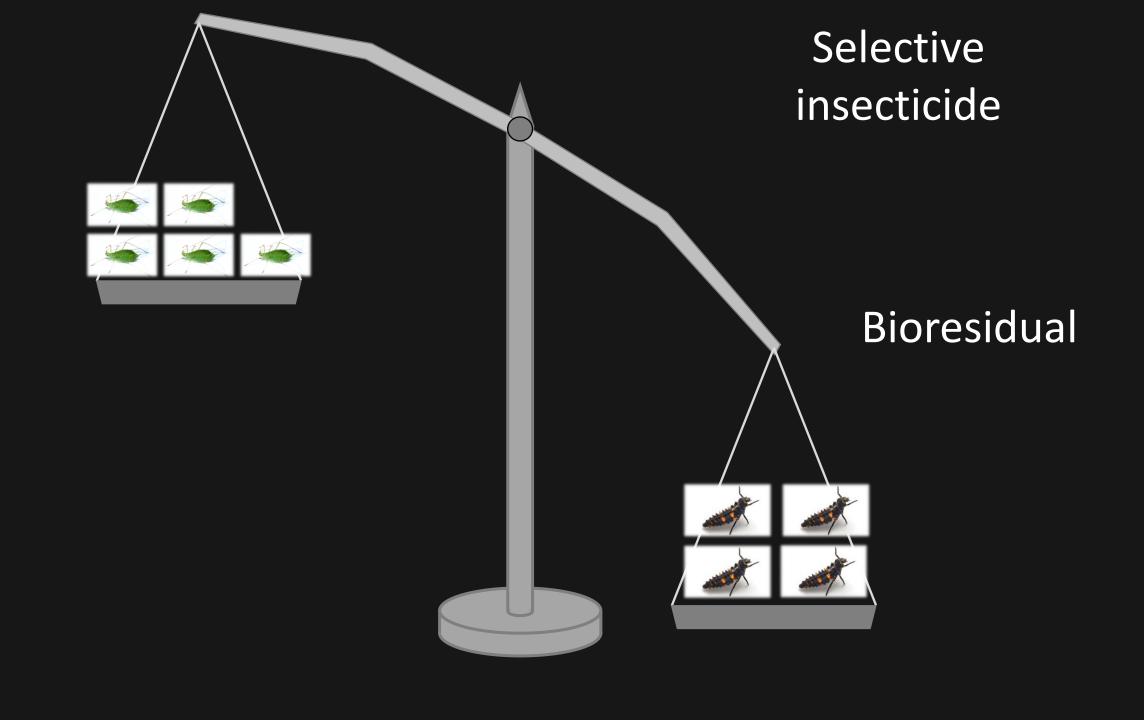


Broad-spectrum insecticide











Bioresidual
"Other pest effects"

Direct efficacy

Tank mixtures

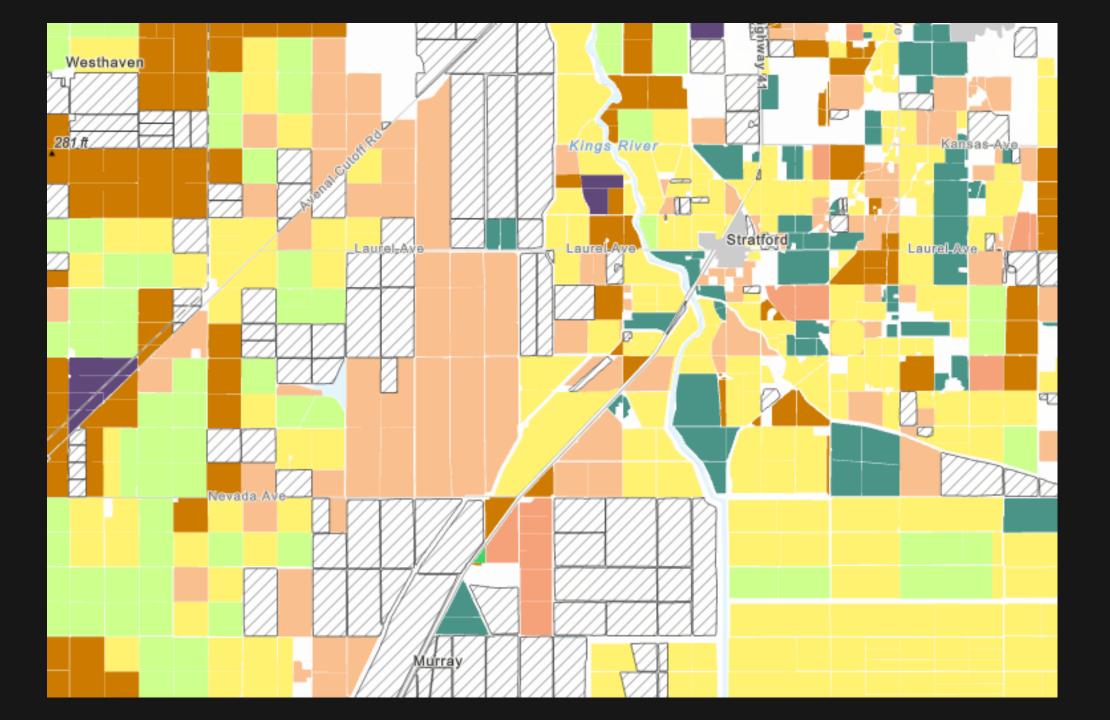
Selectivity

Efficacy









Risk of possible lygus release

Habitat	June (Preflowering)	July (Flowering)	August (Boll filling)
Cotton	Low	Low	Medium
Alfalfa (unmanaged)	High	High	High
Alfalfa (managed)	Low	Low	Low
Uncultivated	Low to High	Low	Low
Safflower (unmanaged)	High	High	Low
Safflower (managed)	Medium	Low	Low
Seed Alfalfa	Medium	High	High
Tomato	Low	Medium	Medium



2000 20¢ / lb Revenue - Control Costs (\$/A) 1800 50¢ / lb 1600 **→** 80¢ / lb 1400 \$1.2 / lb 1200 1000 800 В В В 600 400 200 15/4 15/8 15/16 UTC 15/1 **Thresholds**

Conservative

Yield ≠ \$ for lygus

 Direct effects on revenue based on control costs and yield losses from lygus













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FIFRA Section 18 Crisis Emergency Exemption: for use of afidopyropen on cotton to control lygus outbreaks and potential whitefly outbreaks

FIFRA Section 18 Crisis Emergency Exemption: for use of afidopyropen on cotton to control lygus outbreaks and potential whitefly outbreaks

Summary

SCH Number

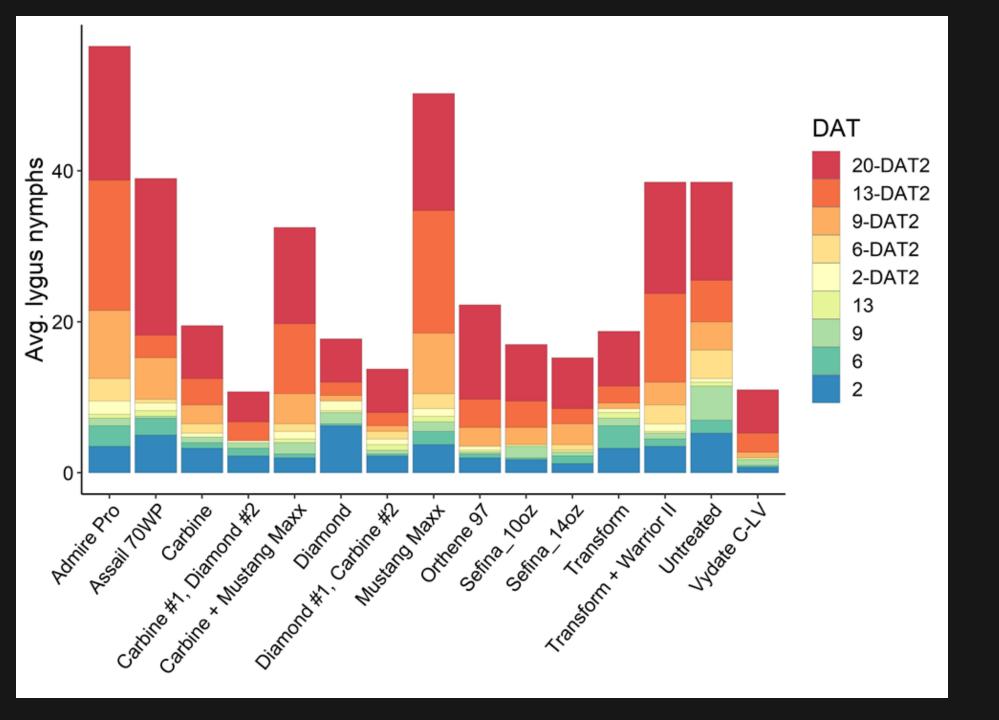
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Public Agency

California Department of Pesticide Regulation (DPR)

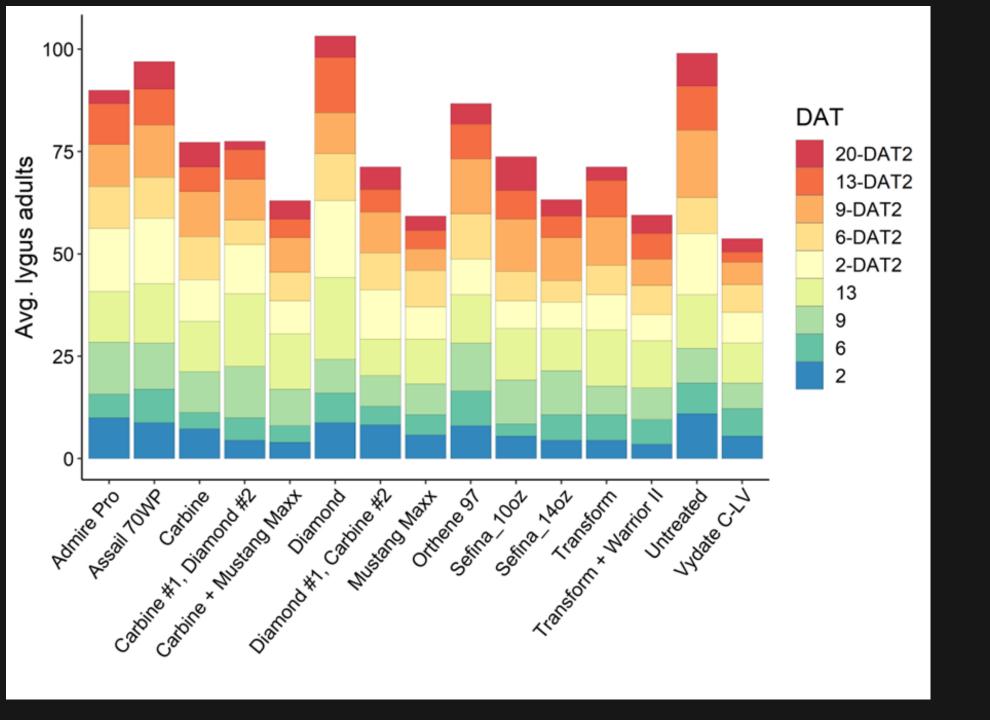


Treatment	Active ingredient	Rate (per acre)
Admire Pro	Imidacloprid	1.7 fl oz
Assail 70WP	Acetamiprid	2.3 fl oz
Carbine	Flonicamid	2.8 oz
Carbine #1, Diamond #2	Flonicamid, novaluron	2.8 oz, 12 fl oz
Carbine + Mustang Maxx	Flonicamid+zeta-cypermethrin	2.8 + 4 fl oz
Diamond	Novaluron	12 fl oz
Diamond #1, Carbine #2	Novaluron, flonicamid	12 fl oz, 2.8 oz
Mustang Maxx	Zeta-cypermethrin	4 fl oz
Orthene 97	Acephate	16 oz
Sefina	Afidopyropen	10 fl oz
Sefina	Afidopyropen	14 fl oz
Transform	Sulfoxaflor	2.25 oz
Transform + Warrior II	Sulfoxaflor+lambda-cyhalothrin	2.25 oz + 2.56 fl oz
Untreated		
Vydate C-LV	Oxamyl	34 fl oz



Nymphs





Adults



