

Consider manipulating infestations

- **Natural infestations may not cooperate**
 - Too low, too high too quickly
 - Too early, too late...
 - In the fungicide trial across the road...
- **Increase target pest populations**
 - Decrease natural enemy levels
 - Low rate of pyrethroids or organophosphates to kill beneficials and flare worms or aphids
 - Ant bait to suppress fire ant populations to increase worm and stalk borer infestations

Manage infestations of non-target arthropods

- **Use selective insecticides/miticides if possible**
 - Lepidopteran worms can be controlled in stink bug or aphid trials
 - Aphids controlled can be controlled in lepidopteran worm trials
 - Some stink bugs may not be well controlled in lepidopteran worm trials

Class	MOA	Crop Pest Target(s)
Organophosphates	1	Broad spectrum
Carbamates		
Pyrethroids, Pyrethrins	3A	Broad spectrum
Nicotinoids, Sulfoximine, Butenolide	4A, C, D	Aphids, whiteflies, thrips, <i>stink bugs</i> , <i>beetles</i>
Spinosyns	5	Lepidopteran worms, thrips, dipteran leafminers
Avermectins	6	Dipteran leafminers, mites (abamectin), lepidopteran worms (emamectin benzoate)
Pyriproxifen	7C	Whiteflies
Pyridine azomethine derivatives	9B	Aphids, whiteflies, hoppers
Bt kurstaki and aizawai	11	Lepidopteran worms
Benzoylureas (IGR)	15	Whitefly and plant bug immatures, lepidopteran worms
Buprofezin (IGR)	16	Whitefly immatures
Cyromazine (IGR)	17	Dipteran leafminers
Diacylhydrazines (IGR)	18	Lepidopteran worms
METI acaricides & insecticides	21	Mites, broad spectrum
Tetronic & tetramic acid derivative	23	Hemipterans (aphids, psyllids, scales), mites
Diamides	28	Lepidopteran worms, aphids/whiteflies and more (cyantraniliprole)
Flonicamid	29	Aphids, whiteflies, hoppers