

Product	Component #1/type/IRAC code	Target pests/other impacts	Component #2/type/IRAC code	Target pests/ other impacts	Crops in Commercial Veg. Recommendations
Besiege, Voliam Xpress	lambda-cyhalothrin (Warrior II, etc.) pyrethroid – IRAC 3	Non-specific (broad spectrum)/toxic to insect predators, parasites and pollinators	chlorantraniliprole (Coragen) ryanodine receptor modulator – IRAC 28	Caterpillars, some leaf miners. Whitefly suppression/ slight potential toxicity to pollinators and parasitoid wasps under some field conditions	Snap/lima beans, cole crop, cucumber, eggplant, lettuce, muskmelon, peas, pepper, potato, pumpkin/winter squash, summer squash, sweet corn, sweet potato, tomato, watermelon
Brigadier, Swagger	bifenthrin (Brigade, etc.) pyrethroid – IRAC 3	Non-specific (broad spectrum)/toxic to insect predators, parasites and pollinators	imidacloprid (Admire Pro, Provado, Marathon, etc.) neonicotinoid - IRAC 4A	Beetles, some true bugs /toxic to insect predators, parasites and pollinators under some field conditions	Snap/lima beans, cole crop, eggplant, greens, potato, sweet potato, tomato
Cobalt Advanced	chlorpyrifos (Lorsban) organophosphate - IRAC 1B	Non-specific (broad spectrum)/toxic to insect predators, parasites and pollinators	lambda-cyhalothrin (Warrior II, etc.) pyrethroid – IRAC 3	Non-specific (broad spectrum)/toxic to insect predators, parasites and pollinators	Sweet corn
Consero	spinosad (Entrust, Conserve, etc.) chloride channel activator – IRAC 5	Caterpillars, leafminer, thrips suppression, Colorado potato beetle larvae/ toxic to pollinators and parasitoid wasps	gamma-cyhalothrin (Proaxis) pyrethroid – IRAC 3	Non-specific (broad spectrum)/toxic to insect predators, parasites and pollinators	NOT IN VEG. RECS. Is labeled on snap/lima bean, sweet corn
Durivo, Voliam Flexi	thiamethoxam (Actara, Platinum, etc.) neonicotinoid – IRAC 4A	Beetles, some true bugs	chlorantraniliprole (Coragen) ryanodine receptor modulator – IRAC 28	Caterpillars, some leaf miners. Whitefly suppression	Cole crop, cucumber, eggplant, greens, muskmelon, pepper, potato, pumpkin/winter squash, spinach, summer squash, tomato, watermelon
Endigo	lambda-cyhalothrin (Warrior II, etc.) pyrethroid – IRAC 3	Non-specific (broad spectrum)/toxic to insect predators, parasites and pollinators	thiamethoxam (Actara, Platinum, etc.) neonicotinoid IRAC 4A	Beetles, some true bugs /toxic to insect predators, parasites and pollinators under some field conditions	Cole crop, cucumber, lettuce, muskmelon, pepper, potato, pumpkin/winter squash, summer squash, sweet potato, tomato, watermelon

Hero	zeta-cypermethrin (Mustang Maxx) pyrethroid – IRAC 3	Non-specific (broad spectrum)/toxic to insect predators, parasites and pollinators	bifenthrin (Brigade, Capture, etc.) pyrethroid – IRAC 3	Non-specific (broad spectrum)/toxic to insect predators, parasites and pollinators	Snap/lima beans, beets, cole crop, cucumber, eggplant, lettuce, muskmelon, okra, peas, pepper, potato, pumpkin/winter squash, sweet corn, sweet potato, tomato, watermelon
Leverage 360	imidacloprid (Admire, Marathon, etc.) Neonicotinoid - IRAC 4A	Beetles, some true bugs /toxic to insect predators, parasites and pollinators under some field conditions	beta-cyfluthrin (Baythroid) pyrethroid – IRAC 3	Non-specific (broad spectrum)/toxic to insect predators, parasites and pollinators	Cole crop, carrot, eggplant, greens, lettuce, parsley, pepper, potato, spinach, radish/turnip, sweet potato, tomato
Vetica	flubendiamide (Syapse/Belt) ryanodine receptor modulator – IRAC 28	Caterpillars/slight potential for toxicity to pollinators and parasitoid wasps under some field conditions	buprofezin (Courier) insect growth regulator – IRAC 16	Nymphal leafhopper, whitefly, scale, mealybug/ unlikely to have significant negative impact on insect predators, parasitoid wasps or pollinators	Snap/lima beans, cole crop, celery, cucumber, lettuce, muskmelon, okra, parsley, pepper, spinach, summer squash, tomato, watermelon