

**Ecological Characteristics of Some Agricultural Insecticides  
Commonly Used in Arkansas**

Insecticide (common name)	Relative Toxicity <sup>a</sup> to:		
	Fish	Birds	Bees
abamectin (Agri-Mek)	VH	VL	VH
Acephate (Orthene)	VL	H	M
aldicarb (Temik)	M	VH	VL
Azadirachtin	H	NT	VL
Azinphosmethyl (Guthion)	VH	H	VH
<i>Bacillus thuringiensis</i> (DiPel)	NT	NT	NT
Bifenthrin (Brigade)	VH	M	H
Buprofezine (Applaud)	NT	NT	VL
Carbaryl (Sevin)	M	VH	L
Carbofuran (furan)	H	H	VH
Chlorpyrifos (Lorsban-Dursban)	VH	H	H
chlothianidin (Belay)	H	L	H
cyfluthrin (Tombstone)	VH	L	VH
cypermethrin (Ammo)	VH	VL	VH
deltamethrin	VH	H	VH
Diazinon	VH	H	H
dicofol	VH	M	VL
dicrotophos	M	VH	VH
diflubenzuron	VL	VL	NT
Dimethoate (Cygon)	M	H	M
endosulfan (Thiodan)	VH	H	M
Esfenvalerate (Asana)	VH	H	L
fenpropathrin (Danitol)	VH	M	VH
Fonicamid (Carbine)	VL	L	
λ-cyhalothrin	VH	L	VH
Malathion	M	H	H
Methomyl (Lannate)	M	H	H
Methoxyfenozide (Intrepid)	M	L	L
Methyl parathion (encapsulated)	VL	H	H
oxamyl (Vydate)	M	VH	VH
Permethrin (Ambush, Pounce, etc.)	VH	H	L
Phorate (Thimet)	VH	VH	VL
Phosmet (Imidan)	VH	VH	VL
Propargite (Comite)	VH	L	
profenofos (Curacron)		VH	VH
Spinosad (Tracer, Spintor)	L	L	VH
Spiromesifen (Oberon)			L
Tebufozide (Confirm)	M	L	
Tefluthrin	VH	H	L
Terbufos (Counter)	VH	M	H
Thiodicarb (Larvin)	M	M	L
Trimethacarb	H	M	L

<sup>a</sup>VL=very low; L=low; M=moderate; H=high; VH=very high; NT=no evidence of acute or chronic toxicity.

**TRADE AND GENERIC INSECTICIDES**

Active Ingredient	Trade Names
abamectin	Abba, Abacus, AbamectinE, Agri-Mek, Avid, Clinch, Epi-Mek, Flora-Mek, Reaper, Temprano, Varsity, Zephyr, Zoro
acephate	Acephate, Bracket, Orthene, SpitFire, Avatar
acetamiprid	Assail, Intruder, Tristar
β-cyfluthrin	Baythroid XL
bifenthrin	Bifenthrin AG, Bifenture, Bisect, Brigade, Capture, Discipline, Empower, Fanfare, Menace, Onyx, Sniper, Talstar, Tundra, UpStar, Wisdom
buprofezin	Applaud, Centaur, Courier, Talus
chlorpyrifos	Chlorpyrifos, Govern, Hatchet, Lock-On, Lorsban, Nufos, Warhawk, Whirlwind, Yuma, Eraser, Pilot
chlothianidin	Belay, Clutch, Poncho, Nipsit Inside, Arena
cyfluthrin	Baythroid 2EC, Decathlon, Renounce, Tempo, Tombstone
cypermethrin	Ammo, Battery, Cypermethrin, Mustang, UP-Cyde
deltamethrin	Chipco Choice, Chipco FireStar, DeltaDust, DeltaGard, Delta Gold, Over 'n Out!, Shooter, Top Choice, Battalion
esfenvalerate	Adjourn, Asana XL, S-fenvaloStar
γ-cyhalothrin	Declare, Proaxis, Prolex
λ-cyhalothrin	Battle, Grizzly, Helena Lambda, Kaiso, Karate, Karate Z, Lambda T, Lambda-Cy, Lambda-Cyhalothrin, LambdaStar, Mystic Z, Silencer, Taiga Z, Warrior II, Warrior Z
imidacloprid	Admire, Advise, Advise Max, Alias, Couraze, Couraze Max, Imida E, Imidacloprid, ImiGold, Nuprid, Pasada, Prey, Provado, Sherpa, Trimax Pro, Widow, Wrangler, Zenith
malathion	Cythion, Fyfanon, Malathion
permethrin	Actroban, Ambush, Arctic, Astro, Ectiban, Permethrin, Perm-Up, Pounce
pyriproxyfen	Distance, Esteem, Knack, Seize
spinosad	Blackhawk, Conserve, Entrust, SpinTor, Success, Tracer
ζ-cypermethrin	Mustang Max, Respect