





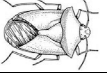










## Common Insect Orders

Orders		Common Names	Metamorphosis	Wings	Mouth Parts	Distinctive Features	Household Pest	Ag Pest	Med/Vet Pest	Predator
Zygentoma		Silverfish	None	none	chewing	3 "tails"	X			
Odonata		Dragonflies, Damselflies	Incomplete	2 pair	chewing	large eyes, long abdomen, membranous wings that do NOT fold				X
Orthoptera		Grasshoppers, Crickets, Katydids	Incomplete	2 pair	chewing	large jumping hind legs, forewings leathery, hindwings, membranous	X	X		
Dermaptera		Earwigs	Incomplete	2 pair	chewing	forceps at end of abdomen	X	X		X
Mantodea		Mantids	Incomplete	2 pair	chewing	raptorial front legs, forewings leathery, hindwings, membranous				X
Blattodea		Cockroaches, Termites	Incomplete	2 pair or none	chewing	(C) - forewings leathery, hindwings, membranous (T) -equal sized membranous wings	X			
Hemiptera		True Bugs, Scales, Aphids, Hoppers	Incomplete	2 pair	piercing / sucking	forewing half thickened, hindwings membranous	X	X	X	X
Thysanoptera		Thrips	Incomplete	2 pair	rasping / sucking	fringed wings		X		X
Phthiraptera		Lice	Incomplete	none	piercing / sucking	flattened dorsal ventrally			X	
Coleoptera		Beetles	Complete	2 pair	chewing	forewings hard and veinless	X	X		X
Neuroptera		Lacewings	Complete	2 pair	chewing	membranous wings with lots of veins				X
Hymenoptera		Sawflies, Bees, Ants, Wasps	Complete	2 pair	chewing	membranous wings with lots of veins	X	X	X	X
Lepidoptera		Moths, Butterflies	Complete	2 pair	chewing (larvae) / sucking (adults)	scaly wings	X	X		
Siphonaptera		Fleas	Complete	none	piercing / sucking	flattened laterally			X	
Diptera		Flies	Complete	1 pair	various	only two swings (1 pair) plus halteres	X	X	X	X