

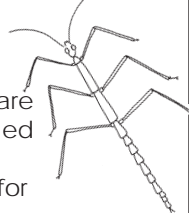






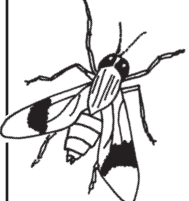



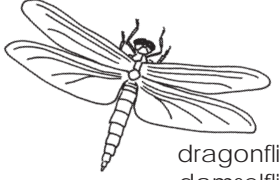


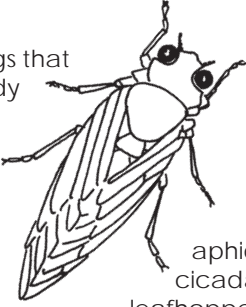
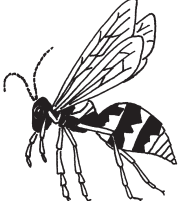



insect diversity!

There are 18,000 kinds of insects in Wisconsin. While there are over two dozen orders (groups) of insects, most of the insects you will encounter fall in one of these eight orders.

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| <p>Lepidoptera "scale winged"</p> <ul style="list-style-type: none"> Two pairs of wings covered with small scales Antennae that are knob-like or feathery Sucking mouth parts as adults (mouthparts sometimes absent) Chewing mouthparts as larvae  <p>moths, butterflies</p> | <p>Orthoptera "straight-winged"</p> <ul style="list-style-type: none"> Thin, leathery outer wings (when wings are present) protect larger inner wings (folded like a fan at rest) Back legs that are large and designed for jumping (usually) Chewing mouthparts The ability to make rhythmic sounds (usually)   <p>crickets, grasshoppers, locusts, roaches, walkingsticks</p> |
| <p>Coleoptera "sheath-winged"</p> <ul style="list-style-type: none"> Two pairs of wings (outer wings are hard, meeting in a straight line down the back and protecting the see-through inner wings) Chewing mouthparts   <p>beetles</p> | <p>Hemiptera "half-winged"</p> <ul style="list-style-type: none"> Forewings are leathery on the top half and clear on the bottom half; hind wings are see-through (when closed, an "X" forms on their backs) Piercing and sucking mouthparts     <p>true bugs backswimmers water striders</p> |
| <p>Diptera "two winged"</p> <ul style="list-style-type: none"> One pair of wings Piercing or lapping mouthparts    <p>flies gnats mosquitoes</p> | <p>Odonata "special tooth"</p> <ul style="list-style-type: none"> Two pairs of wings that allow them to fly fast in many directions Large compound eyes, making them efficient predators Chewing mouthparts   <p>dragonflies damselflies</p> |
| <p>Homoptera "similar-winged"</p> <ul style="list-style-type: none"> Two pairs of see-through wings that are held rooflike over the body when the insect is resting Sucking mouthparts    <p>aphids cicadas leafhoppers scale insects</p> | <p>Hymenoptera "membrane winged"</p> <ul style="list-style-type: none"> Two pairs of clear wings (usually) A narrow "waist" between the thorax and the abdomen (usually) Large, social groups (usually) Stingers Chewing mouthparts   <p>ants, bees, wasps</p> |