

Invertebrates of the Tenafly Nature Center

Invertebrates are animals which do not have an internal spinal/skeletal structure. Instead some invertebrates, such as ants (insects) or crabs (crustaceans) have an exoskeleton while others, such as worms (annelids) have a fluid filled hydrostatic skeleton. Invertebrates comprise more than 98% of Earth's animal species and are the world's most abundant animal class. Some of the most common invertebrates include the protozoa, annelids, echinoderms, mollusks and arthropods (this includes insects, crustaceans and arachnids). The following is a preliminary checklist of the invertebrates found at the Tenafly Nature Center.

<p>Crustacea (Class Crustacea, Subclass Ostracoda, Order Cladocera)</p> <ul style="list-style-type: none"> <input type="checkbox"/> Cyclops (a Copepod) <p>Mollusca</p> <ul style="list-style-type: none"> <input type="checkbox"/> a small aquatic snail <input type="checkbox"/> a slender yellow-orange slug <p>Diplopoda</p> <ul style="list-style-type: none"> <input type="checkbox"/> Millipede - <i>Underwoodia iuloides</i> <p>Chilopoda</p> <ul style="list-style-type: none"> <input type="checkbox"/> Red Centipede - <i>Strigamia</i> <p>Annelids</p> <ul style="list-style-type: none"> <input type="checkbox"/> Earthworm <input type="checkbox"/> Leech <input type="checkbox"/> Rotifers <input type="checkbox"/> Volvox <input type="checkbox"/> Aquatic earthworms <input type="checkbox"/> Protozoans <input type="checkbox"/> Diatoms <input type="checkbox"/> Phylum Coelenterata <ul style="list-style-type: none"> Hydra sp. <input type="checkbox"/> Phylum Platyhelminthes (flatworms) <ul style="list-style-type: none"> Planaria sp. 	<p>Insects continued.</p> <p>Dragonflies & Damselflies</p> <ul style="list-style-type: none"> <input type="checkbox"/> Eastern Ten-spot Dragonfly (a.k.a. Twelve-spotted Skimmer) <input type="checkbox"/> Common Green Darner <input type="checkbox"/> Swamp Darner (<i>Epiaeschna heros</i>) <input type="checkbox"/> Cherry-faced or Ruby Meadowhawk (distinguishable only at 20X) <input type="checkbox"/> Common Whitetail <input type="checkbox"/> Blue Dasher <input type="checkbox"/> Widow Skimmer <input type="checkbox"/> Slaty Skimmer <input type="checkbox"/> Eastern Amberwing (and others as yet unidentified) <input type="checkbox"/> Civil Bluet <p>Crickets & Grasshoppers</p> <ul style="list-style-type: none"> <input type="checkbox"/> Cicada <input type="checkbox"/> Periodical (17-year) Cicada (1996, due next in 2013!) <input type="checkbox"/> Northern Fall Field Cricket <input type="checkbox"/> Grasshopper sp. <input type="checkbox"/> True Northern Katydid <input type="checkbox"/> Mole Cricket <input type="checkbox"/> Snowy Tree Cricket <input type="checkbox"/> Chinese Mantis <input type="checkbox"/> Wood Roach <p>Bees, wasps & hornets</p> <ul style="list-style-type: none"> <input type="checkbox"/> Bald-faced Hornet <input type="checkbox"/> Yellow-jacket <input type="checkbox"/> Cicada Killer <input type="checkbox"/> Mud Dauber Wasp <input type="checkbox"/> Potter Wasp <input type="checkbox"/> Bumblebee <input type="checkbox"/> Carpenter Bee <p>Ants</p> <ul style="list-style-type: none"> <input type="checkbox"/> Large Carpenter Ant <input type="checkbox"/> Small Carpenter Ant <p>Other Insects</p> <ul style="list-style-type: none"> <input type="checkbox"/> Springtail sp. <input type="checkbox"/> European Earwig <input type="checkbox"/> Leafhopper sp. <input type="checkbox"/> Tree Hopper sp. <input type="checkbox"/> Spittlebug <input type="checkbox"/> Stink Bug sp. <input type="checkbox"/> Leaf-footed Bug (Hemiptera, Family Coreidae) <input type="checkbox"/> Woolly Adelgid <input type="checkbox"/> Water Strider
<p>Insects</p> <p>Beetles</p> <ul style="list-style-type: none"> <input type="checkbox"/> Eyed Click Beetle <input type="checkbox"/> Lightning Bug <input type="checkbox"/> Western Firefly - tree trunks in early spring <input type="checkbox"/> Ladybird Beetles <input type="checkbox"/> Stag Beetle <input type="checkbox"/> June Beetle <input type="checkbox"/> Carrion Beetle sp. <input type="checkbox"/> Burying Beetle sp. <input type="checkbox"/> Rove Beetle sp. <p>Moths</p> <ul style="list-style-type: none"> <input type="checkbox"/> Iliia Underwing <input type="checkbox"/> Copper Underwing <input type="checkbox"/> Gypsy Moth <input type="checkbox"/> Luna Moth <input type="checkbox"/> White Slant-line Moth (LBP) <input type="checkbox"/> Lesser Maple Spanworm Moth <input type="checkbox"/> Pale Beauty <input type="checkbox"/> Grape Leaf-folder Moth (LBP) <input type="checkbox"/> Two-banded Petrophila <i>Petrophila bifascialis</i> <input type="checkbox"/> Baltimore Bomoloka 	

<p>Butterflies</p> <ul style="list-style-type: none"> <input type="checkbox"/> Monarch Butterfly <input type="checkbox"/> Tiger Swallowtail <input type="checkbox"/> Black Swallowtail <input type="checkbox"/> Pipevine Swallowtail <input type="checkbox"/> Spicebush Swallowtail <input type="checkbox"/> Mourning Cloak Butterfly <input type="checkbox"/> Red Admiral <input type="checkbox"/> Spring Azure <input type="checkbox"/> Eastern Tailed Blue <input type="checkbox"/> Common Sulphur <input type="checkbox"/> Painted Lady <input type="checkbox"/> Cabbage Butterfly <input type="checkbox"/> Northern Hairstreak <input type="checkbox"/> Great Spangled Fritillary <input type="checkbox"/> Hobomok Skipper <input type="checkbox"/> Compton Tortoiseshell (4/13/2003) <input type="checkbox"/> Question Mark (6/15/03) 	<ul style="list-style-type: none"> <input type="checkbox"/> Backswimmer <input type="checkbox"/> Water Boatman <input type="checkbox"/> Common House Fly <input type="checkbox"/> Deer Fly <input type="checkbox"/> Hover Fly sp. <input type="checkbox"/> Order Diptera (two-winged flies) Genus Chaoborus – Phantom Midges – amphibian pond <input type="checkbox"/> Mosquito sp. <p>Arachnids</p> <ul style="list-style-type: none"> <input type="checkbox"/> Eastern Wood (Dog) Tick <input type="checkbox"/> Deer Tick <input type="checkbox"/> Velvet Mite <input type="checkbox"/> Northern Black Widow <input type="checkbox"/> Common House Spider <input type="checkbox"/> Wolf Spider sp. <input type="checkbox"/> Fishing Spider Sp. <input type="checkbox"/> Orb Weaver sp. <p style="padding-left: 40px;">several species of crab spiders</p>
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Other links to invertebrate information:

1. Harvard's Museum of Comparative Zoology: www.mcz.harvard.edu/
2. Introduction to the Annelida: www.ucmp.berkeley.edu/annelida/annelida.html
3. Animal Diversity Web: animaldiversity.ummz.umich.edu/site/accounts/information/Annelida.html
4. In Search of the Giant Squid (The Smithsonian Institute): seawifs.gsfc.nasa.gov/squid.html
5. Movie of an Octopus (Monterey Bay Aquarium): www.montereybayaquarium.org/efc/octopus.aspx
6. Crustaceans Page (North Carolina Division of Marine Fisheries): www.ncdmf.net/kids/crustaceans.htm
7. Spiders (Australian Museum Online): australianmuseum.net.au/
8. Insects (Smithsonian Institute): nationalzoo.si.edu/Animals/Invertebrates/Facts/insects/
9. Bug Bios: www.insects.org/
10. What's That Bug: www.whatsthatbug.com/.
11. BugGuide.Net: <http://bugguide.net/node/view/15740>