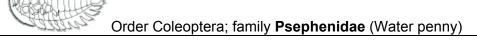
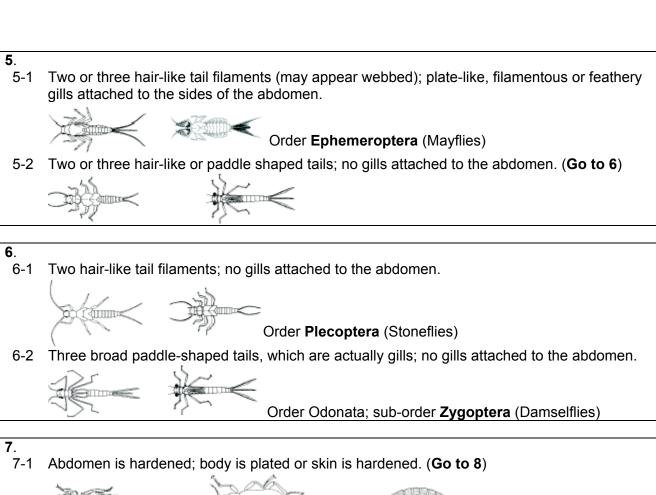


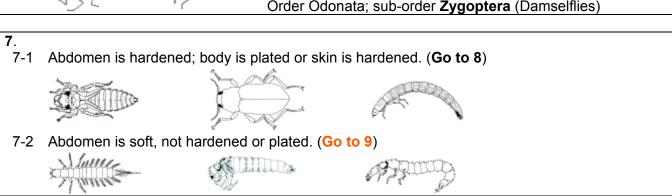
3.
3-1 Body elongated (loner than it is wide); legs not concealed beneath the body. (Go to 4)
3-2 Body disk or oval shaped and very flat.



- 4.
  4-1 Two or three distinct tail filaments that may appear hair-like webbed or paddle shaped.
  (Go to 5)
- 4-2 No tail filaments; tail consisting of a single long filament; tail having hooks that may or may not have filaments. (Go to 7)

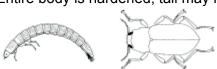




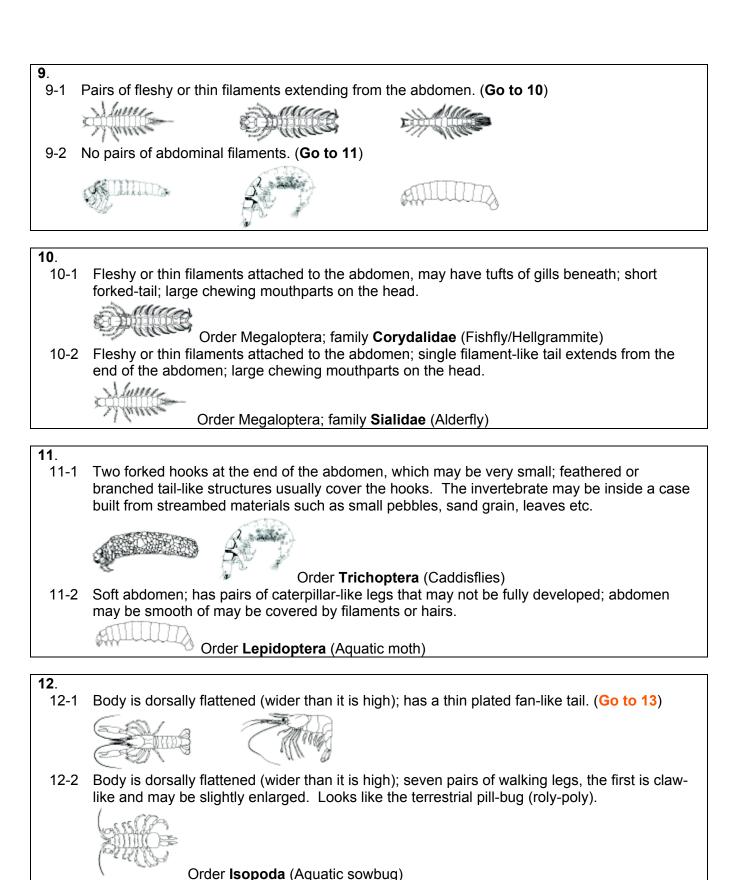


8.
8-1 Wide abdomen; large eyes; scoop-like lower lip (labium) that covers most of the mouthparts; may have pointed structures on the end of the abdomen.

Order Odonata; sub-order Anisoptera (Dragonflies)
8-2 Entire body is hardened; tail may have tiny hooks or filaments.



Order Coleoptera; family **Elmidae** (Riffle beetle)



**13**.

13-1 Body is long; has five pairs of walking legs, the first pair are usually enlarged forming claws; has a large fan-like tail. (**Go to 14**)





13-2 Body is flattened from side-to-side (higher than it is wide); seven-pairs of walking legs, first two are claw-like the remaining legs are simple. Has a habit of swimming sideways.



## Order Amphipoda (Scud/sideswimmer)

14.

14-1 Body mostly dorsally flattened; five-pairs of legs, first three-pairs with hinged claws and the first pair of claws are greatly enlarged; abdomen terminates in a flipper-like structure.



Order **Decapoda** (Crayfish)

14-2 Body is flattened from side-to-side (higher than it is wide); five pairs of walking legs, the first are not enlarged forming a claw.



Order Decapoda; family **Palaemonidae** (Freshwater shrimp)

**15**.

15-1 Having a distinct head. (Go to 16)







15-2 Does not have a distinct head. (Go to 20)







16.

16-1 Having a distinct head and one or more tiny pro-legs, which are leg-like appendages but are not segmented. (Go to 17)

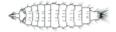




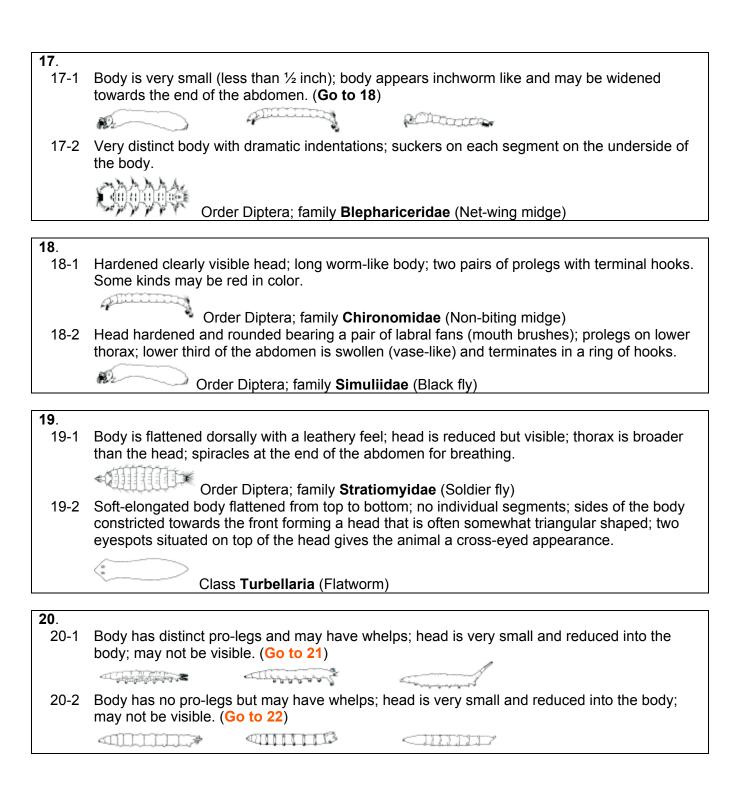


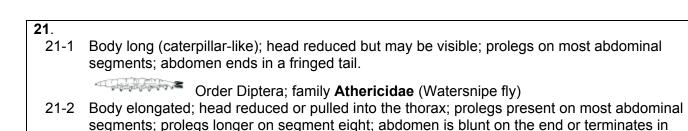
16-2 Having a distinct head or the head region is obvious; no legs or pro-legs attached to the thorax. (Go to 19)



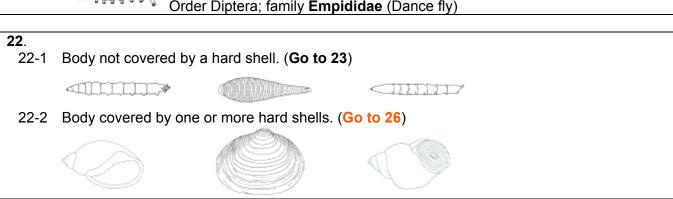








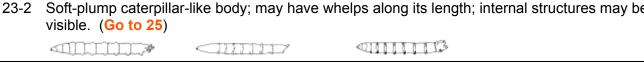
CIII BOO BOO BOOK Order Diptera; family **Empididae** (Dance fly)



23. 23-1 Body worm-like and separated by numerous segments; may or may not have suckers at the ends. (Go to 24)



23-2 Soft-plump caterpillar-like body; may have whelps along its length; internal structures may be visible. (Go to 25)



24. Body dorsally flattened with 34 segments, which are divided so there appears to be more; suction disks present on one or both ends; eyespots may be present.

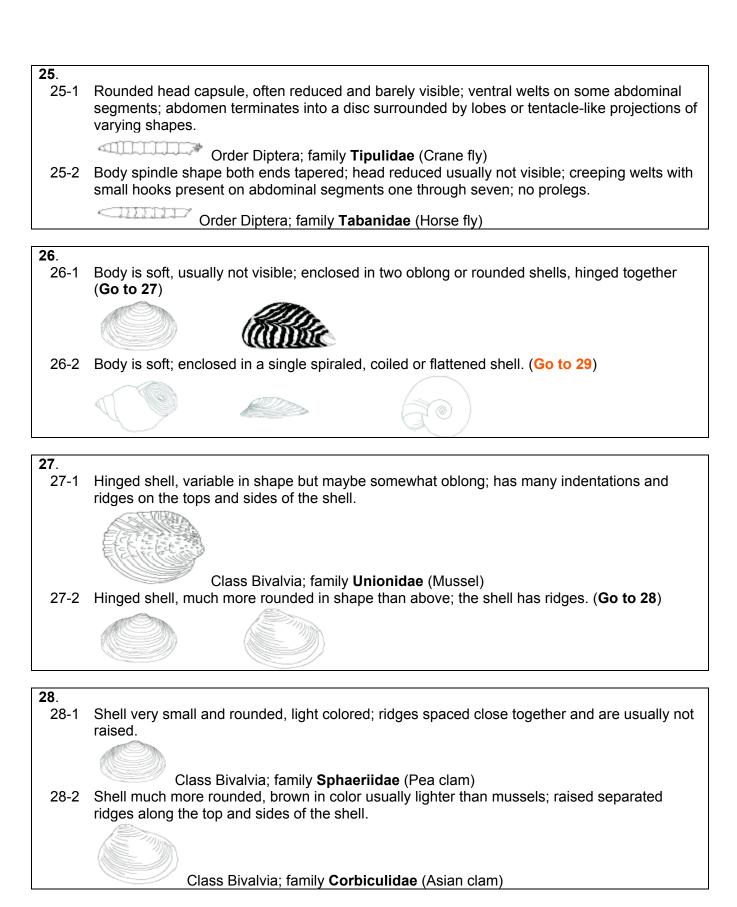


Body elongated (worm-like); divided into many segments most having bundles of small hairs; no eyespots or suckers present



welts.

Class **Oligochaeta** (Aquatic worm)





29-1 Has a flat lid-like structure called an operculum that can seal the body of the snail inside the shell; the whorls of the shell bulge out distinctively to the sides (inflated); shells often extended into a spiral shape.

Class Gastropoda; sub-class Prosobranchia (Operculate snails)

29-2 No operculum; the whorls of the shell do not distinctly bulge out to the sides; offen the shells of most kinds are shaped like a low flat cone or coiled flat instead of being extended in a spiral shape. (**Go to 30**)

## **30**.

30-1 Shell is spiraled or coiled in one plane; no operculum.

Class Gastropoda; sub-class Pulmonata (Non-operculate snails)

30-2 Shell is a low fiat cone or domed shape; no operculum.



Class Gastropoda; sub-class Pulmonata; family **Ancylidae** (Limpet snail)