

so each family has a characteristic chirrup, or shrilling, or harsh, grating, rasping noise.

3. Bugs have the mouth part formed into a sucking tube. The first pair of wings are often thickened at the base, net-veined at the apex, and laid flat or inclined upon the body. Transformations incomplete. The species are largely aquatic. Some of the lower groups are true wingless parasites.

Aquatic species should be taken out by the water-net, by thrusting under swimming species, or pushing it among submerged grass or weeds, where small species are lurking. Several species of small size are found lurking under logs, &c. in the water. By sweeping grass or herbage, as for Coleoptera, in the last part of the summer, large numbers occur, which can only be obtained in this way. Hybernating species are found under leaves, in hardwood forests. The large carnivorous kinds are found on bushes frequently, with Lepidopterous larva transfixed in their jaws. All *Hemiptera* should be pinned through the distinct triangular scutellum, in the middle, at the base of the wings.

4. Dragon-flies have the mouth parts free; the wings large and net-veined, the hind pair being often larger than the primaries. Their bodies are more elongate than those of other insects. The metamorphosis is incomplete; the larva and pupæ closely resemble the perfect insect, and both are active, and, with few exceptions, they are all aquatic. The different species present strong analogies to all the other sub-orders. They occur in swampy, low grounds, the banks of pools and rivers, and sometimes in thick, dense forests. The large dragon-flies, when taken with the net, must be killed, by brushing the body with alcohol or benzine, carried in a vial, and then the wings can be folded together, and the insects be placed in bags, or pieces of paper. The smaller, more slender and delicate species should be pinned directly in the collecting box.

Distribution of the Northern Species.

	Species.
Greenland.....	6
Arctic America.....	29
Russian Colonies.....	7