

upward and freed the setæ. For six minutes more it stayed in the sunlight on the leaf, apparently getting accustomed to the new world into which it had emerged. Then it took flight, flying upward about thirty feet and coming to rest on a leaf of a tree near the pond. In the meantime three other nymphs emerged within two feet of the first one. One emerged on the side of an almost vertical leaf so that the subimago slid out partly on to the surface of the water and it had considerable difficulty freeing itself, but finally it succeeded and remained clinging to the leaf with its abdomen resting on the water for about six minutes. Its upward flight was accomplished without any difficulty. Another nymph crawled up a blade of grass at the edge of the pond. It took a little longer for this subimago to get out of the old nymph skin. There was a great abundance of life in the pond. Just a few sweeps of a small dipnet brought out salamanders, beetles, beetle larvæ, chironomid, mosquito, crane-fly, and other dipterous larvæ, dragon-fly, and damsel-fly nymphs, and mayfly nymphs of the following genera: *Heptagenia*, *Ephemerella*, *Leptophlebia* and *Cloeon*.

No imagos were observed in flight and repeated trips to the vicinity of the pond for a week and at various times of the day from ten o'clock in the morning to nightfall, failed to find any imagos flying.

***Siphonurus mirus* Eaton.**

Male imago.—Length 12-14 mm.; setæ 18 mm.; fore leg 12-14 mm. Wing 12-13 mm. Head and thorax dark brown; a few lighter areas on sides of thorax. Legs uniform brown, a little darker at joints. Hind wing of male usually entirely brown as compared with the hind wing of the female, which is only about two-thirds brown. Each segment of the abdomen 2-9, dorsally light in colour with dark areas toward the lateral margin, along posterior margin and two streaks extending forward from posterior margin. Ventral surface with two lateral longitudinal bands on each segment and a darker area in middle. Genitalia, see Pl. IX, fig. 2.

Female imago.—See description, Eaton, p. 221.

Nymph.—Length 15 mm.; setæ 6-7 mm.; legs 5-6 mm. General colour brown. Head has a light area in front of the middle ocellus