

**South Carolina - Clemson University Botanical Gardens Biodiversity Inventory.**  
**Aquatic Insects.**

The insects inhabiting Honeycut Creek and its ponds in the South Carolina Botanical Garden are typical of those now found in the Piedmont Region of South Carolina. Honeycut Creek probably had a rock and gravel bottom before humans began to live in the area and the insect fauna likely was somewhat different. With the felling of local forests and the introduction of intensive agriculture in the area surrounding the Gardens, sediments were introduced that are still present, despite the return of forests in the headwaters. Now these waterways have sandy bottoms, with occasional gravel exposure in riffles, providing habitat for most of the insect species. The man-made ponds contribute to the diversity of habitats and insect fauna in the Gardens and help retain some of the finer sediments. The insect taxa captured in the survey are listed below.

**Stream, below three-stream confluence at meditation garden.**

Ultraviolet light trap sampled 10 September 1999 by J. Morse and B. Goettle.

Ephemeroptera

Heptageniidae

Trichoptera

*Oecetis inconspicua* (Walker) group sp. 1? (Leptoceridae)

*Oecetis inconspicua* (Walker) group sp. 2? (Leptoceridae)

*Oecetis testacea* (Curtis) group (Leptoceridae)

*Oecetis nocturna* Ross (Leptoceridae)

*Triaenodes* sp. (Leptoceridae)

*Nyctiophylax* sp. (Polycentropodidae)

*Orthotrichia* sp. (Hydroptilidae)

*Chimarra* sp. (Philopotamidae)

*Diplectrona* sp. (Hydropsychidae)

*Hydropsyche* sp. (Hydropsychidae)

*Ceratopsyche* sp. (Hydropsychidae)

Diptera

*Gonomyia* sp. (Tipulidae)

*Erioptera* sp. (Tipulidae)

*Chaoborus* sp. (Chaoboridae)

Chironomidae

Benthic Samples taken 3 May 2000 by B. Goettle, D. Carnegie, and B. Robinson.

Ephemeroptera

*Baetis* sp. (Baetidae)

*Caenis* sp. (Caenidae)

*Ephemerella* sp. (Ephemerellidae)

Plecoptera

*Amphineura delosa* (Ricker) (Nemouridae)  
*Acroneuria* sp. (Perlidae)

Trichoptera

*Pycnopsyche* sp. (Limnephilidae)  
*Cheumatopsyche* sp. (Hydropsychidae)  
*Hydropsyche* sp. (Hydropsychidae)

Odonata

*Pachydiplax longipennis* (Burmeister) (Libellulidae)  
*Stylogomphus* sp. (Gomphidae)  
*Dromogomphus* sp. (Gomphidae)

Megaloptera

*Nigronia fasciata* (Walker) (Corydalidae)

Coleoptera

*Helichus lithophilus* (Germar) (Dryopidae)  
*Stenelmis hungerfordi* Sanderson (Elmidae)  
*Tropisternus* sp. (Hydrophilidae)  
*Hydrocanthus oblongus* Sharp (Noteridae)

Diptera

*Tipula* sp. (Tipulidae)  
*Simulim* sp. (Simuliidae)  
*Dixella* sp. (Dixidae)  
Chironomidae

**Duck pond, at shore near road and xeriscape garden.**

Ultraviolet light trap sampled 10 September 1999, by J. Morse and B. Goettle, and 3 May 2000, by B. Goettle and B. Robinson.

Ephemeroptera

*Caenis* sp. (Caenidae)

Trichoptera

*Oecetis inconspicua* (Walker) group sp. 1? (Leptoceridae)  
*Oecetis inconspicua* (Walker) group sp. 2? (Leptoceridae)  
*Oecetis testacea* (Curtis) group (Leptoceridae)  
*Oecetis ditissa* Ross (Leptoceridae)  
*Triaenodes* sp. (Leptoceridae)  
*Ceraclea* sp. (Leptoceridae)  
*Nyctiophylax* sp. (Polycentropodidae)  
*Hydroptila* sp. (Hydroptilidae)

*Ochrotrichia* sp. (Hydroptilidae)  
*Orthotrichia* sp. (Hydroptilidae)  
*Chimarra* sp. (Philopotamidae)  
*Cheumatopsyche* sp. (Hydropsychidae)  
*Hydropsyche* sp. (Hydropsychidae)

#### Coleoptera

*Hydrochus rufipes* Melsheimer (Hydrophilidae)  
*Enochrus pygmaeus nebulosus* (Say) (Hydrophilidae)  
*Enochrus consortus* Green (Hydrophilidae)  
*Berosus pantherinus* LeConte (Hydrophilidae)  
*Tropisternus collaris striolatus* LeConte (Hydrophilidae)  
*Notomicrus nanulus* (LeConte) (Noteridae)

#### Diptera

*Chaoborus* sp. (Chaoboridae)  
Chironomidae  
*Culiseta melanura* (Coquillett)(Culicidae)  
*Psychoda* sp. (Psychodidae)  
*Erioptera* sp. (Tipulidae)  
*Dactylolabis* sp. (Tipulidae)  
*Tipula* sp. 1 (Tipulidae)  
*Tipula* sp. 2 (Tipulidae)

Benthic Samples taken 3 May 2000 by B. Goettle, D. Carnegie, and B. Robinson.

#### Ephemeroptera

*Callibaetis* sp. (Baetidae)  
*Caenis* sp. (Caenidae)

#### Plecoptera

*Amphineura delosa* (Ricker) (Nemouridae)

#### Trichoptera

*Oecetis cinerascens* (Hagen) (Leptoceridae)

#### Odonata

*Enallagma* sp. (Coenagrionidae)  
*Libellula* sp. (Libellulidae)

#### Hemiptera

*Corisella* sp. (Corixidae)  
*Gerris* sp. (Gerridae)

#### Coleoptera

*Helichus lithophilus* (Germar) (Dryopidae)

*Stenelmis hungerfordi* Sanderson (Elmidae)  
*Haliphus pseudofasciatus* Wallis (Haliplidae)  
*Cyphon* sp. (Helodidae)

Diptera

*Bezzia/Palpomyia* spp. (Ceratopogonidae)  
*Anopheles* sp. (Culicidae)  
Chironomidae

**Heritage pond, in picnic area.**

Ultraviolet light trap sampled 3 May 2000 by B. Goettle and B. Robinson.

Ephemeroptera

*Caenis* sp. (Caenidae)

Trichoptera

*Oecetis inconspicua* (Walker) group sp. 1? (Leptoceridae)  
*Oecetis inconspicua* (Walker) group sp. 2? (Leptoceridae)  
*Oecetis testacea* (Curtis) group (Leptoceridae)  
*Triaenodes* sp. (Leptoceridae)  
*Nyctiophylax* sp. (Polycentropodidae)  
*Ochrotrichia* sp. (Hydroptilidae)  
*Cheumatopsyche* sp. (Hydropsychidae)  
*Diplectronea* sp. (Hydropsychidae)  
*Hydropsyche* sp. (Hydropsychidae)  
*Ceratopsyche* sp. (Hydropsychidae)

Coleoptera

*Hydrophilis triangularis* Say (Hydrophilidae)  
*Hydrochus rufipes* Melsheimer (Hydrophilidae)  
*Enochrus pygmaeus nebulosus* (Say) (Hydrophilidae)  
*Enochrus consortus* Green (Hydrophilidae)  
*Berosus striatus* (Say) (Hydrophilidae)  
*Tropisternus collaris striolatus* LeConte (Hydrophilidae)  
*Haliphus triopsis* Say (Haliplidae)  
*Notomicrus nanulus* (LeConte) (Noteridae)

Diptera

*Chaoborus* sp. (Chaoboridae)  
Chironomidae  
*Erioptera* sp. (Tipulidae)  
*Dactylolabis* sp. (Tipulidae)  
*Tipula* sp. 1 (Tipulidae)  
*Tipula* sp. 2 (Tipulidae)  
*Tipula* sp. 3 (Tipulidae)

Benthic Samples taken 3 May 2000 by B. Goettle, D. Carnegy, and B. Robinson.

Ephemeroptera

*Callibaetis* sp. (Baetidae)

*Caenis* sp. (Caenidae)

Odonata

*Enallagma* sp. (Coenagrionidae)

*Ischnura* sp. (Coenagrionidae)

*Boyeria vinosa* (Say) (Aeshnidae)

*Pachydiplax longipennis* (Burmeister) (Libellulidae)

*Libellula* sp. (Libellulidae)

Hemiptera

*Belostoma testaceum* (Leidy) (Belostomatidae)

*Ranatra* sp. (Nepidae)

*Corisella* sp. (Corixidae)

*Gerris* sp. (Gerridae)

Coleoptera

*Haliphus pseudofasciatus* Wallis (Haliplidae)

*Cyphon* sp. (Helodidae)

*Tropisternus* sp. (Hydrophilidae)

*Enochrus* sp. (Hydrophilidae)

*Laccophilus* sp. (Dytiscidae)

*Oreodytes* sp. (Dytiscidae)

Diptera

*Sepedon* sp. (Sciomyzidae)

*Bezzia/Palpomyia* spp. (Ceratopogonidae)

Chironomidae