

# Rapid Bioassessment by Volunteers (RBV) Program

## Supplementary Photo Identification Guide

### For Volunteers - 2013





## Most Wanted:

### 1. Body Builder Mayfly – *Drunella* sp.



“Muscular” grasping front legs.





## Most Wanted:

### 2. Minnow Mayfly – *Isonychia* sp.



"Hairy" front legs.

## Most Wanted:

### 3. Two-tailed Flat Head Mayfly – *Epeorus* sp.



Flat head and body,  
two tails, plate-like  
abdominal gills.



## Most Wanted:

### 4. Roach-like Stonefly – Family Peltoperlidae



Photo © Robert G Henricks  
<http://bugguide.net/user/view/56378>

Teardrop-shaped body, two tails, no gills on abdomen.

## Most Wanted:

### 5A. Common Stonefly – Family Perlidae



Two tails, gill tufts at base of legs, active crawler.





## Most Wanted:

### 5B. Giant Stonefly – *Pteronarcys* sp.

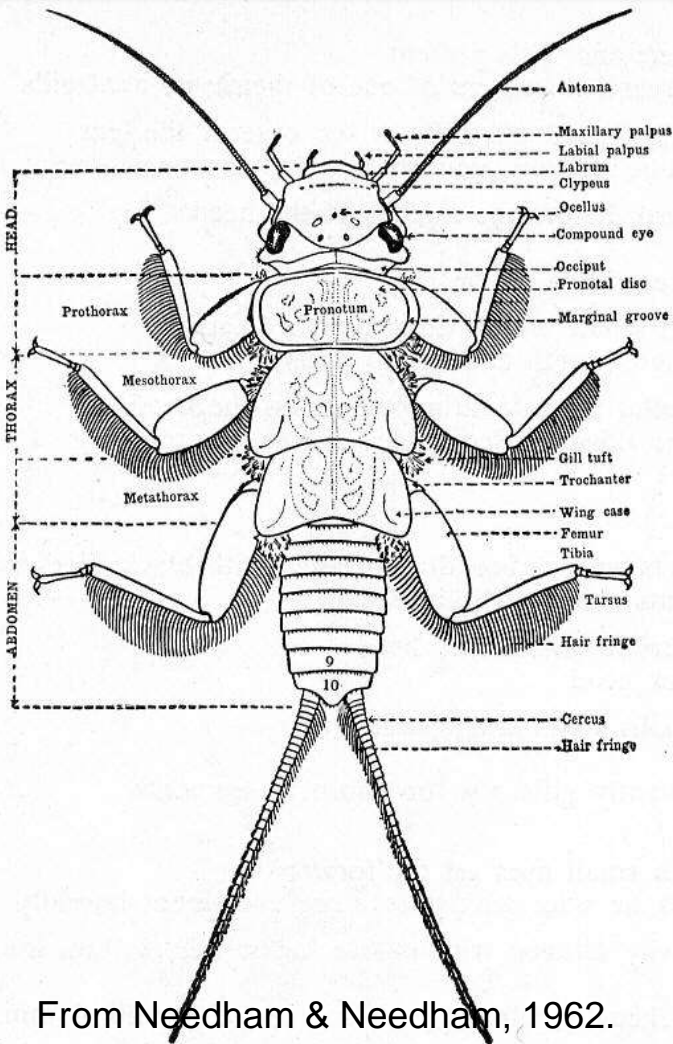


Pointed edges of body and wing pads.



# Most Wanted:

## 5C. Miscellaneous Stonefly – Order Plecoptera



From Needham & Needham, 1962.

As at left, but not...

4. Peltoperlidae



5A. Perlidae



5B. *Pteronarcys* sp.



## Most Wanted:

### 6A. Saddle Case Caddis – *Glossosoma* sp.



Case of small pebbles; no larger than ¼ inch, typically attached to rocks.

Photo © Robert G Henricks

<http://bugguide.net/user/view/56378>

## Most Wanted:

### 6B. Cornucopia Case Caddis – *Apatania* sp.



Case of tiny sand grains, funnel-shaped.





## Most Wanted:

### 7. Michelin Man Caddis – *Rhyacophila* sp.



Green lumpy body, no gills.

## Most Wanted:

### 8A. Mid-size Plant Case Caddis – *Brachycentrus* sp.



Case of tiny  
strips of wood.



**Most Wanted:**

8B. Mid-size Plant Case Caddis – *Lepidostoma* sp.



Case of blocks of wood.

Photos © Robert G Henricks

<http://bugguide.net/user/view/56378>

## Moderately Wanted:

### 9. Common Net-spinner– Family Hydropsychidae



Dark head and thorax. Gill tufts under abdomen. Brush-like tails at abdominal tip.



## Moderately Wanted:

### 10. Fingernet Caddis – *Chimarra* sp.



Black border at back of pronotum.  
No gills.

## Moderately Wanted:

### 11. Flat Head Mayfly – *Stenonema* sp.



Flat head and body,  
three tails.



## Moderately Wanted:

### 12. Water Penny – *Psephenus* sp.

Clings to rocks; hard to see.



Photo © Mike Quinn, TexasEnto.net  
<http://bugguide.net/user/view/4620>

## Moderately Wanted:

### 13A. Dobsonfly – *Corydalus* sp.



Up to 4" long; gills at base of abdominal projections.





**Moderately Wanted:**  
13B. Fishfly – *Nigronia* sp.

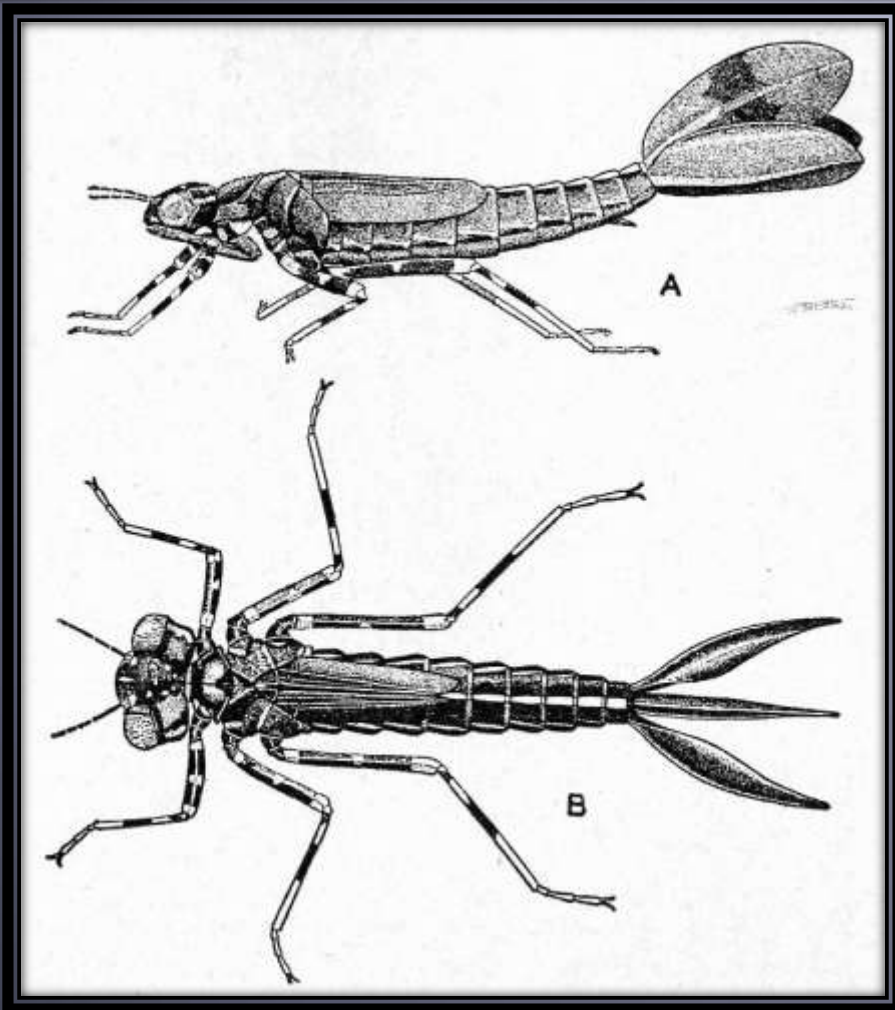
Up to 2" long; no  
gills at base of  
abdominal  
projections.



Photo © Robert G Henricks  
<http://bugguide.net/user/view/56378>

# Moderately Wanted:

## 14. Damselfly – Suborder Zygoptera



In Pennak, 1953; from Kennedy, 1915



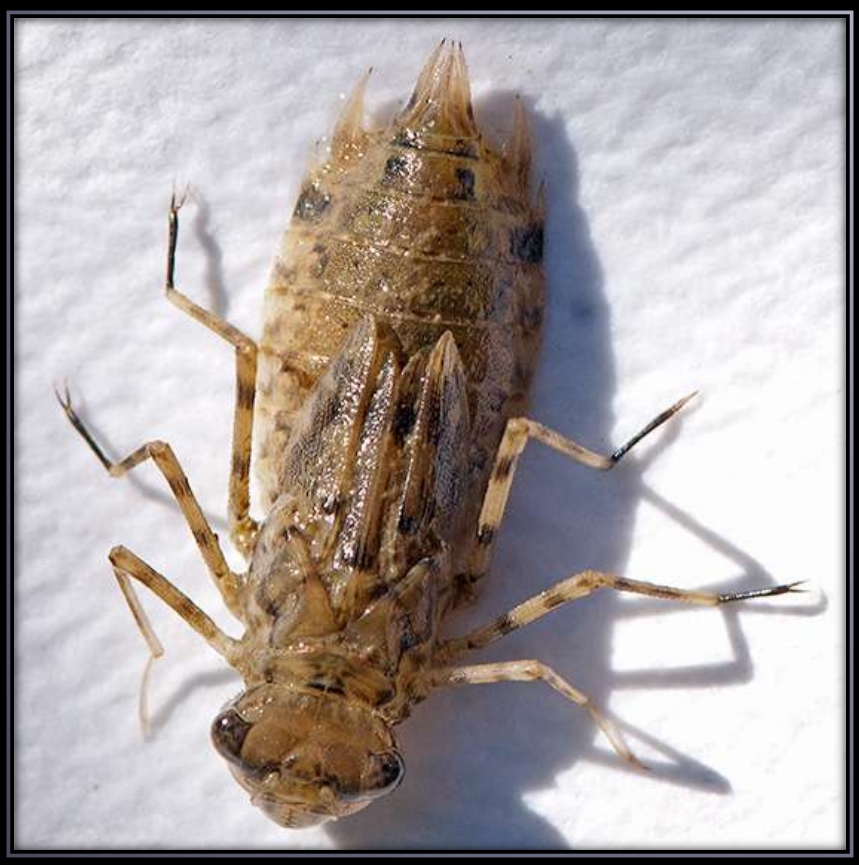
Three feather-like gills at end of abdomen.

Photo © Tim Loh  
<http://bugguide.net/user/view/17850>



## Moderately Wanted:

### 14. Dragonfly – Suborder Anisoptera



Three short spike-like tails.

LEFT: Photo © Nancy Hamlett

<http://bugguide.net/user/view/32845>



RIGHT: Photo © Terry Allison

<http://bugguide.net/user/view/4684>

# Contact Info and Resources:

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Rapid Bioassessment in Wadeable Streams & Rivers by Volunteer Monitors (RBV) – About the program, forms, etc.:

[http://www.ct.gov/deep/cwp/view.asp?a=2719&q=325606&deepNav\\_GID=1654](http://www.ct.gov/deep/cwp/view.asp?a=2719&q=325606&deepNav_GID=1654)

Pennak, Robert W., Fresh-Water Invertebrates of the United States, 1953. The Ronald Press Co., 769pp.

Needham, Paul R. and James G. Needham, A Guide to the Study of Fresh-Water Biology, 1962. Holden-Day, Inc., 108pp.