

**Biosurvey: Field Data Sheets for the Lancaster County WOVC Program**

ALL of the following data sheets MUST be filled out entirely for the web host. Make sure include all of the monitors' names and be sure to write clearly and use a pencil or water proof pen.

Date: year \_\_\_\_\_ month \_\_\_\_\_ day \_\_\_\_\_ Time \_\_\_\_\_ hour \_\_\_\_\_ minute \_\_\_\_\_  
(NOTE: Time hr./min. on 24-hour clock, as 10:10 for AM or 22:10 for PM)

County of PaSEC \_\_\_\_\_ Site ID # \_\_\_\_\_

**Recorder Monitors' Information:**

Name: \_\_\_\_\_ ID# \_\_\_\_\_  
Name: \_\_\_\_\_ ID# \_\_\_\_\_  
Name: \_\_\_\_\_ ID# \_\_\_\_\_  
Name: \_\_\_\_\_ ID# \_\_\_\_\_  
Name: \_\_\_\_\_ ID# \_\_\_\_\_

**Stream Information**

Watershed Name \_\_\_\_\_  
Waterbody Name \_\_\_\_\_  
Township \_\_\_\_\_ County \_\_\_\_\_ State \_\_\_\_\_  
Site Description \_\_\_\_\_  
Site ID# \_\_\_\_\_  
Length of Assessed Area (meters): \_\_\_\_\_

**Precipitation**

**In the Past 24 hours:**

- Storms (heavy rains >2.5 cm)
- Rain (steady rain 0.85 cm to 2.5 cm)
- Showers (intermittent rain up to 0.85 cm)
- Overcast
- Clear

**Current:**

- Storms (heavy rains >2.5 cm)
- Rain (steady rain 0.85 cm to 2.5 cm)
- Showers (intermittent rain up to 0.85 cm)
- Overcast
- Clear

**Sketch of Site**

On your sketch, note features that affect stream habitat, such as: riffles, runs, pools, ditches, wetlands, dams, riprap, outfalls, tributaries, landscape features, logging paths, vegetation, and roads

**Macroinvertebrate Survey**

Type of Stream

Rocky-bottom

Muddy-bottom

**Macroinvertebrate Count**

Identify the macroinvertebrates (to order) in your sample using the identification card. We are only concerned with organisms that appear on the identification card. Record the number of organisms below.

**Group I - Sensitive**

\_\_\_\_\_ Water Penny  
\_\_\_\_\_ Dobsonfly Hellgrammite  
\_\_\_\_\_ Gilled Snail

\_\_\_\_\_ Riffle Beetle Adult  
\_\_\_\_\_ Non net spinning caddisfly

\_\_\_\_\_ Mayfly  
\_\_\_\_\_ Stonefly

**Group II - Somewhat Sensitive**

\_\_\_\_\_ Beetle Larvae  
\_\_\_\_\_ Damselfly  
\_\_\_\_\_ Fishfly  
\_\_\_\_\_ Alderfly

\_\_\_\_\_ Scuds  
\_\_\_\_\_ Dragonfly  
\_\_\_\_\_ Cranefly  
\_\_\_\_\_ Net spinning caddisfly

\_\_\_\_\_ Sowbug  
\_\_\_\_\_ Clam  
\_\_\_\_\_ Crayfish

**Group III - Tolerant**

\_\_\_\_\_ Aquatic Worm  
\_\_\_\_\_ Blackfly

\_\_\_\_\_ Midge  
\_\_\_\_\_ Leech

\_\_\_\_\_ Snail

The following letter codes will be assigned automatically to each count when it is entered into the database.

R (rare) = 1-9 organisms; C (common) = 10-99 organisms; or D (dominant) = 100 plus organisms

The database will then calculate the water quality score for the stream site by adding together assigned index values (a factor by which each count is multiplied) for each group. The Water Quality Score for a stream site will fall into one of the following categories:

\_\_\_\_\_ Good >40    \_\_\_\_\_ Fair 20 - 40    \_\_\_\_\_ Poor <20

**Water Quality Rating**

To calculate the index value, add the number of letters found in the three groups above and multiply by the indicated weighing factor.

**Group I - Sensitive**

(# of R's) x 5.0 = \_\_\_\_\_

(# of C's) x 5.6 = \_\_\_\_\_

(# of D's) x 5.3 = \_\_\_\_\_

**Sum of the Index Value for Group I = \_\_\_\_\_**

**Group II - Somewhat Sensitive**

(# of R's) x 3.2 = \_\_\_\_\_

(# of C's) x 3.4 = \_\_\_\_\_

(# of D's) x 3.0 = \_\_\_\_\_

**Sum of the Index Value for Group II = \_\_\_\_\_**

**Group III - Tolerant**

(# of R's) x 1.2 = \_\_\_\_\_

(# of C's) x 1.1 = \_\_\_\_\_

(# of D's) x 1.0 = \_\_\_\_\_

**Sum of the Index Value for Group III = \_\_\_\_\_**

To calculate the water quality score for the stream site, add together the index values for each group. The sum of these values equals the water quality score

**WATER QUALITY SCORE = \_\_\_\_\_**