



Data Sheets

Project Name: _____

Site Data

SCHOOL INFORMATION

School Name:

Grade Level:

Teacher:

School Address:

School email:

STREAM SITE INFORMATION

Stream Name:

Major Watershed:
(Hudson, Delaware, Chesapeake, etc.)

sub-basin:
(Schuylkill, Lehigh, etc)

Project Location:
(Closest town or major landmark to project site)

Latitude: degrees minutes North South

Longitude: degrees minutes East West

Elevation: meters

Source of lat/long. and elevation? GPS Maps

Project Name: _____

Field Data Sheet I

Control Leaf Pack:
(3 dominant leaf species)

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<u>Placed</u>	<u>Removed</u>
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Date:

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Number of packs:

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Air temperature (C) :

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Water temperature (C):

--	--

Time:

--	--

Did any storms occur during this period?

Storm date:

Amount of precipitation:

Did flooding occur?

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Did any other significant events occur during this time period?
(droughts, etc)?

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Project Name: _____

Field Data Sheet II

Experimental Leaf Pack Description:

	<u>Placed</u>	<u>Removed</u>
Date:	<input type="text"/>	<input type="text"/>
Number of packs:	<input type="text"/>	<input type="text"/>
Air temperature (C) :	<input type="text"/>	<input type="text"/>
Water temperature (C):	<input type="text"/>	<input type="text"/>
Time:	<input type="text"/>	<input type="text"/>

Did any storms occur during this period?

Storm date:	Amount of precipitation:	Did flooding occur?
<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>

**Did any other significant events occur during this time period?
(droughts, etc)?**

HABITAT DATA SHEET

Explore 30 meters of the stream, starting with your leaf pack site and looking upstream. Right and left bank designation is determined by looking upstream. Check the category that best describes your stream. Check glossary for vocabulary words.

IN- STREAM CHARACTERISTICS

1. Stream habitats present

(More than one box may be checked)

- | | | |
|-----------------------------------|---------------------------------------|---|
| <input type="checkbox"/> pools | <input type="checkbox"/> riffles | <input type="checkbox"/> runs |
| <input type="checkbox"/> logs | <input type="checkbox"/> woody debris | <input type="checkbox"/> fine sediment/sand |
| <input type="checkbox"/> wetlands | <input type="checkbox"/> leaves | <input type="checkbox"/> aquatic vegetation |

2. Water appearance

- | | | |
|-------------------------------------|---|--------------------------------|
| <input type="checkbox"/> clear | <input type="checkbox"/> turbid | <input type="checkbox"/> foamy |
| <input type="checkbox"/> oily sheen | <input type="text"/> colored (describe) | |

3. Human modification of stream channel

- | | | |
|---|---------------------------------------|--|
| <input type="checkbox"/> none | <input type="checkbox"/> bridge | <input type="checkbox"/> dam |
| <input type="checkbox"/> cement | <input type="checkbox"/> boulders | <input type="checkbox"/> pipe or ditch entering stream |
| <input type="checkbox"/> actively discharging pipe(s) | <input type="text"/> Other (describe) | |

STREAM BANK CHARACTERISTICS

4. Evidence of active erosion (bare soil)

- | Left bank | Right bank |
|-------------------------------------|-------------------------------------|
| <input type="checkbox"/> < 20% | <input type="checkbox"/> < 20% |
| <input type="checkbox"/> 20% to 50% | <input type="checkbox"/> 20% to 50% |
| <input type="checkbox"/> >50% | <input type="checkbox"/> >50% |

Project Name: _____

5. Percent streambank vegetation

Left bank

- < 20%
- 20-50%
- > 50%

Right bank

- < 20%
- 20-50%
- > 50%

6. Stream bottom composition

- | | | |
|---|--|-------------------------------------|
| <input type="checkbox"/> cobbles
(2.5-10" or
6.4-25.6 cm diameter) | <input type="checkbox"/> boulders
(>10" or >25.6 cm diameter) | <input type="checkbox"/> sediment |
| <input type="checkbox"/> gravel
(0.08-2.5" or
0.02-6.4 cm diameter) | <input type="checkbox"/> bedrock | <input type="text" value="other:"/> |

VEGETATION ALONG BANK

Explore 30 meters of the stream upstream and 30 meters adjacent to your leaf pack site.

7. Left bank

- none
- grass
- trees
- shrubs
- Forest

(Forest is: > 5m tall; >40% interlocking canopy; >20m deep)

- mostly evergreen
- mostly deciduous

Right bank

- none
- grass
- trees
- shrubs
- Forest

- mostly evergreen
- mostly deciduous

Project Name: _____

LAND-USE CHARACTERISTICS

Describe the main land-use within 1/4 mile upstream and adjacent to your site.

8. Land-use

- | | |
|---|--|
| <input type="checkbox"/> agriculture | <input type="checkbox"/> forest |
| <input type="checkbox"/> fields/pasture | <input type="checkbox"/> active construction |
| <input type="checkbox"/> golf course | <input type="checkbox"/> residential /commercial |
| <input type="checkbox"/> parks and recreation | <input type="checkbox"/> industrial |
| <input type="checkbox"/> sewage treatment plant | <input type="checkbox"/> mowed lawn |

9. Impervious surfaces (Includes roads, parking lots, malls, houses)

- | | | |
|--------------------------------|-------------------------------------|--------------------------------|
| <input type="checkbox"/> < 20% | <input type="checkbox"/> 20% to 50% | <input type="checkbox"/> > 50% |
|--------------------------------|-------------------------------------|--------------------------------|

10. Presence of litter in stream

- | | |
|---|---|
| <input type="checkbox"/> none | <input type="checkbox"/> cans/bottles |
| <input type="checkbox"/> paper, small trash | <input type="checkbox"/> tires, carts, etc. |
| <input type="text"/> | other |

ADDITIONAL INFORMATION ABOUT YOUR STREAM

Average width (meters):

Stream discharge:
(cubic meters per second)

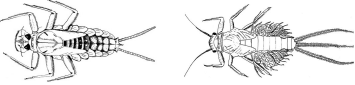





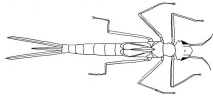
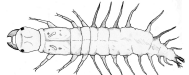


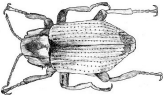
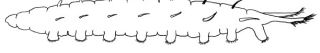


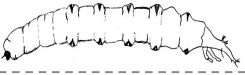

Team Data Sheet: Macroinvertebrate Data

Project Name: _____



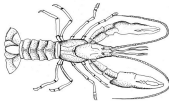





Date: _____

Class: _____

Leaf Pack #: _____

TAXON	TALLY	TOTAL
EPHEMEROPTERA (Mayflies) <div style="display: flex; justify-content: space-around; margin-top: 5px;">  </div>		
PLECOPTERA (Stoneflies) <div style="display: flex; justify-content: center; margin-top: 5px;">  </div>		
TRICHOPTERA (Caddisflies)		
<div style="display: flex; align-items: center;">  <div style="margin-left: 20px;">Hydropsychidae (Common Netspinners)</div> </div>		
<div style="display: flex; align-items: center;">   <div style="margin-left: 20px;">Other caddisflies</div> </div>		
ANISOPTERA (Dragonflies) <div style="display: flex; justify-content: center; margin-top: 5px;">  </div>		
ZYGOPTERA (Damselflies) <div style="display: flex; justify-content: center; margin-top: 5px;">  </div>		
MEGALOPTERA		
<div style="display: flex; align-items: center;">  <div style="margin-left: 20px;">Corydalidae (Hellgrammites)</div> </div>		
<div style="display: flex; align-items: center;">  <div style="margin-left: 20px;">Sialidae (Alderflies)</div> </div>		
COLEOPTERA (Beetles) <div style="display: flex; justify-content: space-around; margin-top: 5px;">   </div>		
DIPTERA (True Flies)		
<div style="display: flex; align-items: center;">  <div style="margin-left: 20px;">Athericidae (Watersnipe flies)</div> </div>		
<div style="display: flex; align-items: center;">  <div style="margin-left: 20px;">Chironomidae (Midges)</div> </div>		
<div style="display: flex; align-items: center;">  <div style="margin-left: 20px;">Simuliidae (Black flies)</div> </div>		
<div style="display: flex; align-items: center;">  <div style="margin-left: 20px;">Tipulidae (Crane flies)</div> </div>		
<div style="display: flex; align-items: center;">  <div style="margin-left: 20px;">Other Diptera</div> </div>		

(turn over)

TAXON		TALLY	TOTAL
AMPHIPODA (Scud)			
ISOPODA (Aquatic sowbugs)			
DECAPODA (Crayfish)			
OLIGOCHAETA (Aquatic Worms)			
HIRUDINEA (Leeches)			
TURBELLARIA (Planarians)			
GASTROPODA (Snails)			
SPHAERIIDAE (Fingernail clams)			

TOTAL:

Leaf Pack Summary Sheet: Macroinvertebrate Data

Project Name: _____

Date: _____

Class: _____

Leaf Pack #: _____

TAXON	TALLY	TOTAL
EPHEMEROPTERA (Mayflies)		
PLECOPTERA (Stoneflies)		
TRICHOPTERA (Caddisflies)		
Hydropsychidae (Common Netspinners)		
Other caddisflies		
ANISOPTERA (Dragonflies)		
ZYGOPTERA (Damsel flies)		
MEGALOPTERA		
Corydalidae (Hellgrammites)		
Sialidae (Alderflies)		
COLEOPTERA (Beetles)		
DIPTERA (True Flies)		
Athericidae (Watersnipe flies)		
Chironomidae (Midges)		
Simuliidae (Black flies)		
Tipulidae (Crane flies)		
Other Diptera		
AMPHIPODA (Scud)		
ISOPODA (Aquatic sowbugs)		
DECAPODA (Crayfish)		
OLIGOCHAETA (Aquatic worms)		
HIRUDINEA (Leeches)		
TURBELLARIA (Planarians)		
GASTROPODA (Snails)		

Project Summary Data Sheet: Macroinvertebrate Data

Project Name: _____

Date: _____

of leaf packs: _____

TAXON	LP #1	LP#2	LP#3	TOTAL	AVERAGE
EPHEMEROPTERA (Mayflies)					
PLECOPTERA (Stoneflies)					
TRICHOPTERA (Caddisflies)					
Hydropsychidae (Common Netspinners)					
Other caddisflies					
ANISOPTERA (Dragonflies)					
ZYGOPTERA (Damselflies)					
MEGALOPTERA					
Corydalidae (Hellgrammites)					
Sialidae (Alderflies)					
COLEOPTERA (Beetles)					
DIPTERA (True Flies)					
Athericidae (Watersnipe flies)					
Chironomidae (Midges)					
Simuliidae (Black flies)					
Tipulidae (Crane flies)					
Other Diptera					
AMPHIPODA (Scud)					
ISOPODA (Aquatic sowbugs)					
DECAPODA (Crayfish)					
OLIGOCHAETA (Aquatic worms)					
HIRUDINEA (Leeches)					
TURBELLARIA (Planarians)					
GASTROPODA (Snails)					

Macroinvertebrate Total:					
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