

PHWH STREAM BIOLOGICAL CHARACTERISTICS FIELD SHEET:

1. Fish: Voucher Specimens Retained? (select) Time Spent (minutes): _____
 Sample Method _____ Stream Length Assessed (meters) _____

Species	Number Caught	Notes

2. Salamanders: Voucher Specimens Retained? (circle) Y / N Time Spent (minutes): _____
 Sample Method _____ Stream Length Assessed (meters) _____

Species (<i>Genus</i>)	# Larvae	# Juveniles/Adults	Total Number
Mountain Dusky (<i>Desmognathus ochrophaeus</i>)			
Northern Dusky (<i>Desmognathus fuscus</i>)			
Two-lined (<i>Eurycea bislineata</i>)			
Long-tailed (<i>Eurycea longicauda</i>)			
Cave (<i>Eurycea lucifuga</i>)			
Red (<i>Pseudotriton ruber</i>)			
Mud (<i>Pseudotriton montanus</i>)			
Spring (<i>Gyrinophilus porphyriticus</i>)			
Mole spp. (<i>Ambystoma spp.</i>)			
Four-toed (<i>Hemidactylium scutatum</i>)			
Other (name)			
Total			

Notes on Vertebrates: _____

3. Macroinvertebrate Scoring Sheet:

THE HEADWATER MACROINVERTEBRATE FIELD EVALUATION INDEX (HMFEI) SCORING SHEET

Indicate Abundance of Each Taxa Above each White Box.

Record HMFEI Scoring Value Points Within each Box.

For EPT taxa, also indicate the different taxa present.

Key: **V** = Very Abundant (> 50); **A** = Abundant (10 -50); **C** = Common (3 -9); **R** = Rare (< 3)

Sessile Animals (Porifera , Cnidaria , Bryozoa) (HMFEI pts = 1)	<input type="text"/>	Crayfish (Decapoda) (HMFEI pts = 2)	<input type="text"/>	Fishfly Larvae (Corydalidae) (HMFEI pts = 3)	<input type="text"/>
Aquatic Worms (Turbellaria , Hirudinea , Oligochaeta) (HMFEI pts = 1)	<input type="text"/>	Dragonfly Nymphs (Anisoptera) (HMFEI pts = 2)	<input type="text"/>	Water Penny Beetles (Psephenidae) (HMFEI pts = 3)	<input type="text"/>
Sow Bugs (Isopoda) (HMFEI pts = 1)	<input type="text"/>	Riffle Beetles (Dryopidae , Elmidae , Ptilodactylidae) (HMFEI pts = 2)	<input type="text"/>	Crane-fly Larvae (Tipulidae) (HMFEI pts = 3)	<input type="text"/>
Scuds (Amphipoda) (HMFEI pts = 1)	<input type="text"/>	Larvae of other Flies (enter name in comments) (Diptera): (HMFEI pts = 1)	<input type="text"/>	EPT TAXA*	
Water Mites (Hydracarina) (HMFEI pts = 1)	<input type="text"/>	Midges (Chironomidae) (HMFEI pts = 1)	<input type="text"/>	Total No. EPT Taxa = _____	
Damselfly Nymphs (Zygoptera) (HMFEI pts = 1)	<input type="text"/>	Snails (Gastropoda) (HMFEI pts = 1)	<input type="text"/>	Mayfly Nymphs (Ephemeroptera) Taxa Present: HMFEI pts = _____	<input type="text"/>
Alderfly Larvae (Sialidae) (HMFEI pts = 1)	<input type="text"/>	Clams (Bivalvia) (HMFEI pts = 1)	<input type="text"/>	No. Taxa (x) 3] _____	
Other Beetles (Coleoptera) (HMFEI pts = 1)	<input type="text"/>	Other Taxa :		Stonefly Nymphs (Plecoptera) Taxa Present: HMFEI pts = _____	<input type="text"/>
Other Taxa:		Other Taxa:		No. Taxa (x) 3] _____	
Other Taxa:		Other Taxa:		Caddisfly Larvae (Trichoptera) Taxa Present: HMFEI pts = _____	<input type="text"/>
Other Taxa:		Other Taxa:		No. Taxa (x) 3] _____	

*Note: EPT identification based upon Family or Genus level of taxonomy

Voucher Sample ID _____

Time Spent (minutes): _____

Notes on Macroinvertebrates: (Predominant Organisms; Other Common Organisms; Diversity Estimate)

Final HMFEI Calculated Score (Sum of All White Box Scores) =

IF Final HMFEI Score is > 19, Then CLASS III PHWH STREAM
IF Final HMFEI Score is 7 to 19, Then CLASS II PHWH STREAM
IF Final HMFEI Score is < 7, Then CLASS I PHWH STREAM