

EII Calculation for High Gradient Streams in Eastern Kentucky Coalfield (VERSION 2002.6)
 (Genus/species Level Taxonomy - Riffle Only Sample)

Project ID:	Division Meeting - Robinson Forest Field Visit
Stream/Reach:	Bear Branch
Assessment Objectives:	Estimate quality/integrity of stream ecosystem using Genus Level Taxonomy and Sampling Riffles Only

0.42	Ecological Integrity Index (MBI + Habitat Integrity + Conductivity)
0.26	Ecological Integrity Index (Habitat Integrity + Conductivity)

Variables Measure Units

>>>>>

Enter quantitative or categorical measure from Field Data Sheet in shaded cells

RBP Habitat Parameters

1. Epifaunal Substrate	17	no units (0-20)
2. Embeddedness	9	no units (0-20)
3. Velocity/Depth Regime	11	no units (0-20)
4. Sediment Deposition	8	no units (0-20)
5. Channel Flow Status	15	no units (0-20)
6. Channel Alteration	12	no units (0-20)
7. Freq. Of Riffles (bends)	18	no units (0-20)
8. Bank stability (both combined)	13	no units (0-20)
9. Veg. Protection (both combined)	12	no units (0-20)
10. Riparian Width (both combined)	2	no units (0-20)

Total Habitat Score **117** no units **Subindex**

Habitat Integrity **0.27**

Macroinvertebrate Data - Genus/species Level

11. Genus/species Taxa Richness	29	# of taxa sampled
12. Genus/species EPT Richness	15	# of EPT species sampled
13. % Ephemeroptera	18.09	% Mayflies (0-100)
14. % Chironomidae & Oligochaeta	9.53	% Midges & Worms (0-100)
15. % Clingers	28.4	% Clingers (0-100)
16. mHBI	4.14	no units

Macroinvertebrate Bioassessment **56.25** no units **0.72**

Conductivity **431.2** microMHOs **0.26**

