

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:	John Carpenter Fork (least disturbed stream condition)
Assessment Objectives:	Estimate quality/integrity of stream ecosystem using Genus Level Taxonomy and Sampling Riffles Only

0.98	Ecological Integrity Index (MBI + Habitat Integrity + Conductivity)
1.00	Ecological Integrity Index (Habitat Integrity + Conductivity)

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

RBP Habitat Parameters		
1. Epifaunal Substrate	19	no units (0-20)
2. Embeddedness	17	no units (0-20)
3. Velocity/Depth Regime	18	no units (0-20)
4. Sediment Deposition	15	no units (0-20)
5. Channel Flow Status	15	no units (0-20)
6. Channel Alteration	18	no units (0-20)
7. Freq. Of Riffles (bends)	19	no units (0-20)
8. Bank stability (both combined)	16	no units (0-20)
9. Veg. Protection (both combined)	17	no units (0-20)
10. Riparian Width (both combined)	20	no units (0-20)

Total Habitat Score	174	no units	Subindex
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Habitat Integrity	1.00
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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	42.98	% Mayflies (0-100)
14. % Chironomidae & Oligochaeta	0.88	% Midges & Worms (0-100)
15. % Clingers	61.99	% Clingers (0-100)
16. mHBI	2.92	no units

Macroinvertebrate Bioassessment	73.71	no units	0.95
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Conductivity	38.8	microMHOs	1.00
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