

Stream	Elk River				Basin	Elk River			
Monitoring group	Webster County HS (9th grade Science classes)				Latitude	38	28	39	
Directions	Baker Island park just off Rt. 20 in Webster Springs				Longitude	80	24	49	
					County	Webster			
Station name		RR-miles		Date	12-Sep-08	Start-time	9:30		
Water chemistry			Streambed composition			Benthic macroinvertebrates			
pH	8.1		Silt/clay			Common names	Total	Taxa	
Dissolved oxygen	8.0	ppm	Sand		10	Mayflies	3	4	
Conductivity		µs/cm	Fine gravel		45	Stoneflies	3	3	
Nitrite/nitrate	0.5	ppm	Coarse gravel			Case-building caddisflies	1	1	
Alkalinity		ppm	Cobble		30	Net-spinning caddisflies	3	1	
Turbidity	< 10	JTU	Boulder		15	Free-living caddisfly			
Bacteria			Bedrock			Common netspinner	3	1	
Temperature	20.0	C	Woody debris			Dragonflies	3	1	
			Riffle only or entire reach			Damselflies			
			Index		Count	Estimate	Riffle beetle	1	1
Physical conditions						Water penny	3	1	
Width (ft)		Depth (ft)				Other Beetles/True bugs			
Riffle		Discharge	17.9	Habitat evaluation		Hellgrammite	3	1	
Run	15.0	Level	Low			Non-biting midge	3	1	
Water clarity	Clear		Sediment deposition	6		Crane fly			
Water color	None		Embeddedness	6		Black fly			
Water odor	Fishy			Left - L	Right - R	Watersnipe fly	3	1	
Sediment color	Brown		Bank stability	2	2	Other true flies			
Algae color	Brown		Riparian buffer width	1	1	Water mite			
Algae abundance	Moderate		Habitat score	18		Crayfish	6	1	
Algae growth habit	Hairy		Habitat integrity	Marginal		Sideswimmer/Scud			
Surface foam	Slight		Habitat (H) and Benthic macroinvertebrate (M) code and point scales			Aquatic sowbug			
Channel shade	Poor					Operculate snails			
Physical and habitat comments			Codes	Points		Non-operculate snails			
Also observed dark green algae evenly coated in parts of the reach			(H) - Optimal	8	4	Clams			
			(H) - Suboptimal	6	3	Mussel			
			(H) - Marginal	4	2	Aquatic worm	1	1	
			(H) - Poor	2	1	Leeches			
Metrics	Value	Points	(M) - Abundant	> 50	6	Flatworms			
Total Taxa	18	7	(M) - Common	5 - 50	3	Miscellaneous groups			
EPT Taxa	10	7	(M) - Rare	< 5	1				
Biotic Index	4.22	7							
Stream score	21		Integrity Rating	Suboptimal		Totals	36	18	
Land use assessment						Additional comments			
Land use	Impact	Location	Land use	Impact	Location	Observed and collected several kinds of darters and shiners; also collected the endemic crayfish. The high quality of this river upstream shows even in an area that is highly used.			
Bridges	2	Streamside							
Parking lots	2	Streamside							
Single-family homes	1	Within 1/4 mile							
Recreation	3	Streamside							
			Totals	8					