

HOPPER CREEK

Date 4/15/2002

ID HOP2002

Site Description Above valley floor

Elevation (ft) 292

Reach Length (ft) 267

Chemical Characteristics

Water Temp (C/F)	12.9	55
Specific Conductivity	304	
pH	6.7	
Dissolved Oxygen (mg/L)	8.78	

Physical Characteristics

(Average values for 3 riffles)

Riffle Length (ft)	46
Riffle Width (ft)	7.7
Riffle Depth (ft)	0.3
Riffle Velocity (ft/sec)	0.8
Gradient (%)	2.2
Riffle Substrate (%)	
<i>Fines</i>	23
<i>Gravel</i>	28
<i>Cobble</i>	37
<i>Boulder</i>	7
<i>Bedrock</i>	5

Consolidation Medium

Habitat Characteristics

Canopy Cover (%)	90	
<u>Scale 0-20</u>		
Substrate	12	Suboptimal
Embeddedness	11	Suboptimal
Substrate Complexity	12	Suboptimal
Velocity/Depth Regime	15	Suboptimal
Sediment Deposition	8	Marginal
Water Flow	18	Optimal
Channel Alteration	15	Suboptimal
Riffle Frequency	18	Optimal
<u>Scale 0-10</u>		
Bank Stability (Left)	7	Suboptimal
Bank Stability (Right)	7	Suboptimal
Vegetation (Right)	9	Optimal
Riparian (Right)	9	Optimal
Vegetation (Left)	9	Optimal
Riparian (Left)	9	Optimal

Total Habitat Score 147 Suboptimal

0-50 = Poor

51-100 = Marginal

101-150 = Suboptimal

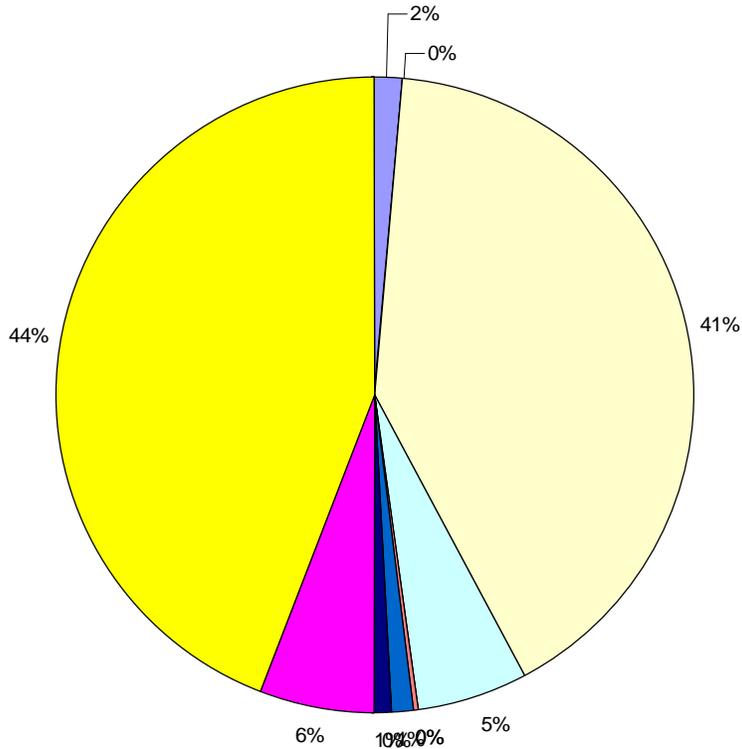
151-200 = Optimal



HOPPER CREEK

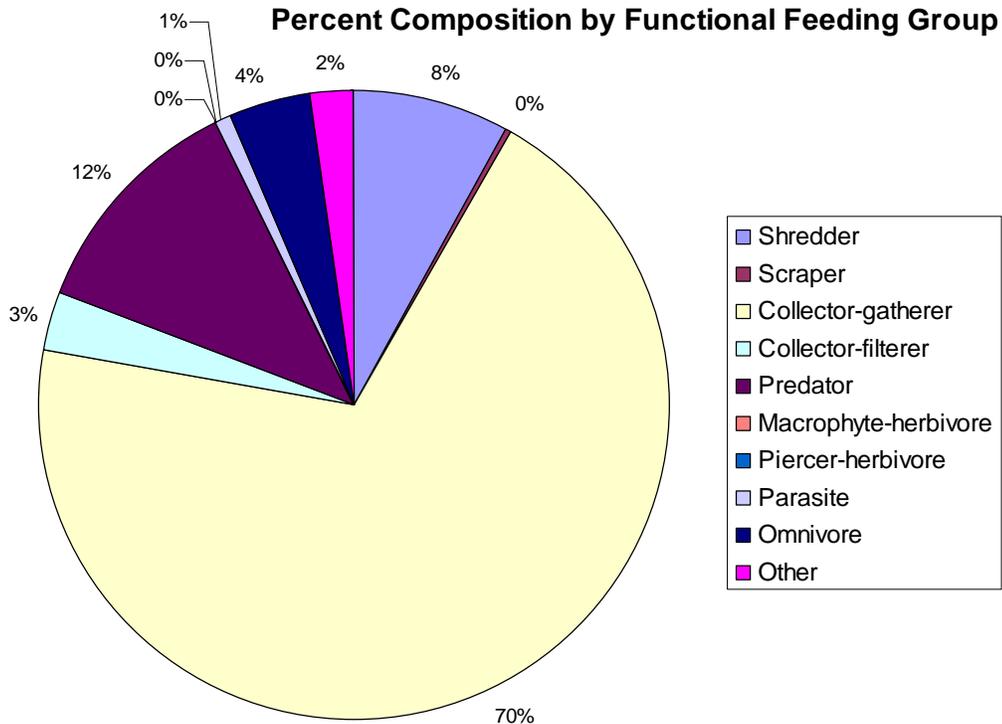
Benthic Macroinvertebrate Characteristics

Abundance	3,447	Percent Dominant Taxa	15.71	Index of Biological Integrity (IBI) 19 5-11 = Poor 12-18 = Fair 19-25 = Good
Number of Taxa	53	Number of Tolerant Taxa	3	
Number of Taxa (CA)	53	Percent Tolerant Taxa	2.79	
Number of EPT	19	Number of Intolerant Taxa	18	
Hilsenhoff	4.66	Percent Intolerant Taxa	17.64	



Percent Composition by Taxa

- Non-insect invertebrates
- Odonata (dragon & damselflies)
- Ephemeroptera (mayflies)
- Plecoptera (stoneflies)
- Hemiptera (true bugs)
- Megaloptera (alderflies & hellgramites)
- Trichoptera (caddisflies)
- Lepidoptera (aquatic moths)
- Coleoptera (aquatic beetles)
- Diptera- non midge (true flies)
- Diptera-Chironomidae (midges)



- Shredder
- Scrapper
- Collector-gatherer
- Collector-filterer
- Predator
- Macrophyte-herbivore
- Piercer-herbivore
- Parasite
- Omnivore
- Other