

NAPA RIVER - CALISTOGA

Date 4/16/2002

ID NAR2002

Site Description Calistoga, upstream of Maxfield foot bridge

Elevation (ft) 401

Reach Length (ft) 304

Chemical Characteristics

Water Temp (C/F)	13.3	56
Specific Conductivity	328	
pH	7.5	
Dissolved Oxygen (mg/L)	10.74	

Physical Characteristics

(Average values for 3 riffles)

Riffle Length (ft)	23
Riffle Width (ft)	7.6
Riffle Depth (ft)	0.3
Riffle Velocity (ft/sec)	1.2
Gradient (%)	2
Riffle Substrate (%)	
<i>Fines</i>	13
<i>Gravel</i>	38
<i>Cobble</i>	27
<i>Boulder</i>	0
<i>Bedrock</i>	10

Consolidation Loose

Habitat Characteristics

Canopy Cover (%)	82	
<u>Scale 0-20</u>		
Substrate	10	Marginal
Embeddedness	15	Suboptimal
Substrate Complexity	10	Marginal
Velocity/Depth Regime	14	Suboptimal
Sediment Deposition	15	Suboptimal
Water Flow	20	Optimal
Channel Alteration	15	Suboptimal
Riffle Frequency	13	Suboptimal

Scale 0-10

Bank Stability (Left)	4	Marginal
Bank Stability (Right)	4	Marginal
Vegetation (Right)	5	Marginal
Riparian (Right)	9	Optimal
Vegetation (Left)	5	Marginal
Riparian (Left)	8	Suboptimal

Total Habitat Score 137 Suboptimal

0-50 = Poor

51-100 = Marginal

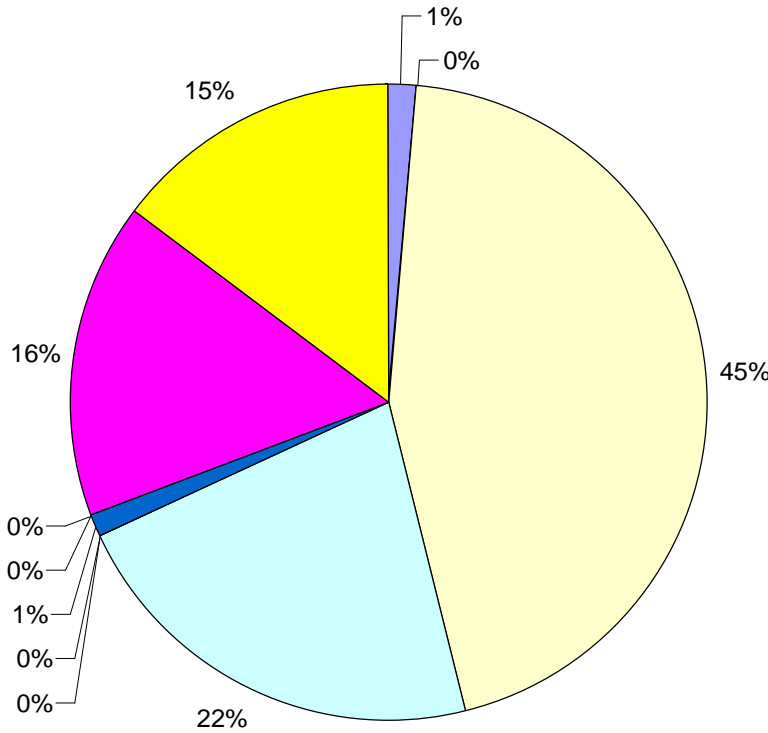
101-150 = Suboptimal

151-200 = Optimal

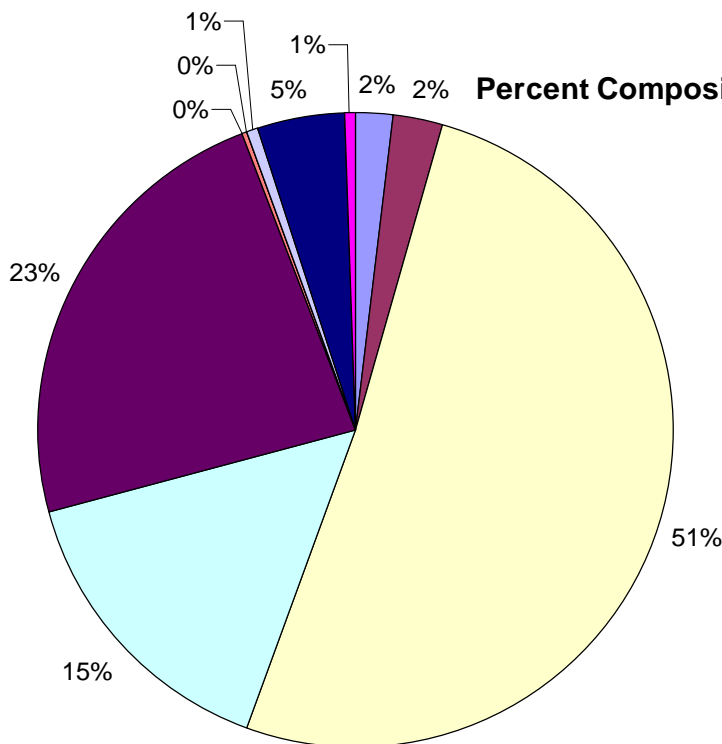
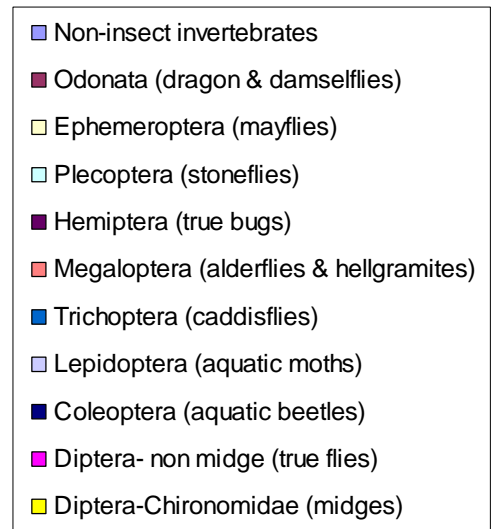
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Benthic Macroinvertebrate Characteristics

Abundance	6,869	Percent Dominant Taxa	30.04	Index of Biological Integrity (IBI) 17 5-11 = Poor 12-18 = Fair 19-25 = Good
Number of Taxa	47	Number of Tolerant Taxa	5	
Number of Taxa (CA)	46	Percent Tolerant Taxa	2.55	
Number of EPT	18	Number of Intolerant Taxa	11	
Hilsenhoff	4.33	Percent Intolerant Taxa	32.91	



Percent Composition by Taxa



Percent Composition by Functional Feeding Group

