Field Trip:

- Thurs. 1/15/09 All day (leave 8:15, back 2:30)
- Check with 2nd, 4th, 6th teachers
- Can't go? Sub/alternate assignment
- FT will points + extra credit
- Permission slips! — tomorrow (W. 1/14)
- Food/water for the day
- Clothing:
  - Mud/water safe shoes
  - warm jackets/pants
  - rain gear

Aquatic macroinvertebrates are indicators of water quality.

Indicator: Something you can measure/count that gives you information about something else

We can count aquatic M.I. species and abundance and use that to find out information about Jackson Creek's water quality.

Collect, categorize and count aquatic MI's

Mayfly Richness = 3

3 Small, fast, green
2 Big, feathery gills
1 Googly-eyed

Stonefly Richness = 2

1 Huge
4 Sharp claws

Caddis Richness = 3

2 Stone house
1 leaves
3 sticks

True Flies

4 red larvae
2 other

$\% = \frac{4}{34} = 12\%$

Beetles

4

Snails

7

% dominance:

$\frac{7+4+4}{34} = \frac{15}{34} =$

44%

12 groups

Metric	Raw Value	5	3	1	Score (Circle)
Taxa Richness	12	>18	10-18	<10	5 (3) 1
Mayfly Richness	3	>4	2-4	<2	5 (3) 1
Stonefly Richness	2	>3	1-3	0	5 (3) 1
Caddisfly Richness	3	>4	2-4	<2	5 (3) 1
% Chironomidae	12%	<15	15-30	>30	(5) 3 1
% Dominance (Top 3 Taxa)	44%	<30	30-50	>50	5 (3) 1
					20

Score Range	Stream Condition
>23	No impairment: passes Level 2 assessment. Indicates good diversity of invertebrates and stream conditions with little disturbance. Further sampling will help confirm the site's condition as unimpaired.
17-23	Moderate Impairment: evidence of some impairment exists. Requires further study and more detailed analysis.
<17	Severe Impairment: fails Level 2 assessment. Evidence of stream disturbance exists. Further study may be warranted to confirm level of impairment and potential causes.

This analysis tells us only about Jackson Creek's ability to support trout, salmon, and similar organisms