



Emanuel Lutheran School New London, WI
Third and Fourth Grades
October 9-11, 2013

We have a class of 21 Students (12 in 4th grade and 9 in 3rd grade). Parents brought in buckets of pond water. We worked in groups of 3. Each student made his or her own hypothesis and prediction.

1. Hypothesis: Will macroinvertebrates be the same in pond water all over the United States?

Yes: 6

No: 15

2. Prediction: Examples of our predictions.

Yes, because...

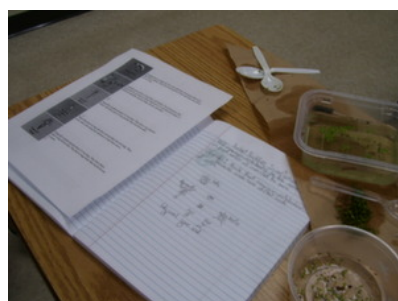
- Pond water will be the same temperature all over.
- Water is the same all over.
- Water and the creatures in the water are the same no matter where they are.

No, because...

- Water is different all over the US; some can be dirty and some can be clean.
- Different water flows from different places.
- Water flows at different speeds coming in.
- Some places are colder and some are warmer than others (different climates).
- Some pond water is treated
- Drier/wetter climates
- There are many different types of species of animals in the world
- Different water temperatures
- Different places around the world have different foods for the animals

3. Investigation/Process

- **First, we got pond water.**
- **Next, we looked for macroinvertebrates.**
- **Then, we took the macroinvertebrate out with spoon or eye dropper.**
- **We examined it with a magnifying glass.**
- **We identified the macroinvertebrate and tallied each on our identification sheets.**
- **We drew pictures of the macroinvertebrates we found.**



4. Results

Macroinvertebrate	Total
Mayfly nymph	5
Midge larva	23
Mosquito larva	5
Snail	18
Bristle worm	4
Amphipod or Scud	3
Caddisfly larva	6
Damselfly nymph	13
Daphnia or water flea	33
Dragonfly nymph	8
Leech	1
Water beetle	9
Backswimmer	4
Mini waterbugs	12
Unidentified	27