



# Coffin Pond Macroinvertebrates

Data Collected by the  
Lafayette Regional School  
Fifth Grade  
Franconia, NH  
September 26, 2013

# Introduction

Hello, we are the 5<sup>th</sup> grade class from Lafayette Regional School in Franconia, NH. For the Bucket Buddies project, we went to Coffin Pond. We have 9 kids in our class so the field trip was not that chaotic! It was at the end of the day, though, so we only had about one hour to complete our mission of finding as many macroinvertebrates as possible! Here is our data collection.

Cloud Type(s): Cumulus, Stratocumulus

Air temp: 70 degrees Fahrenheit and 20 degrees Celsius

Wind direction: 300 degrees west

Wind speed: 8 MPH

Precipitation: none

Water temperature: 70 degrees

A beautiful day!



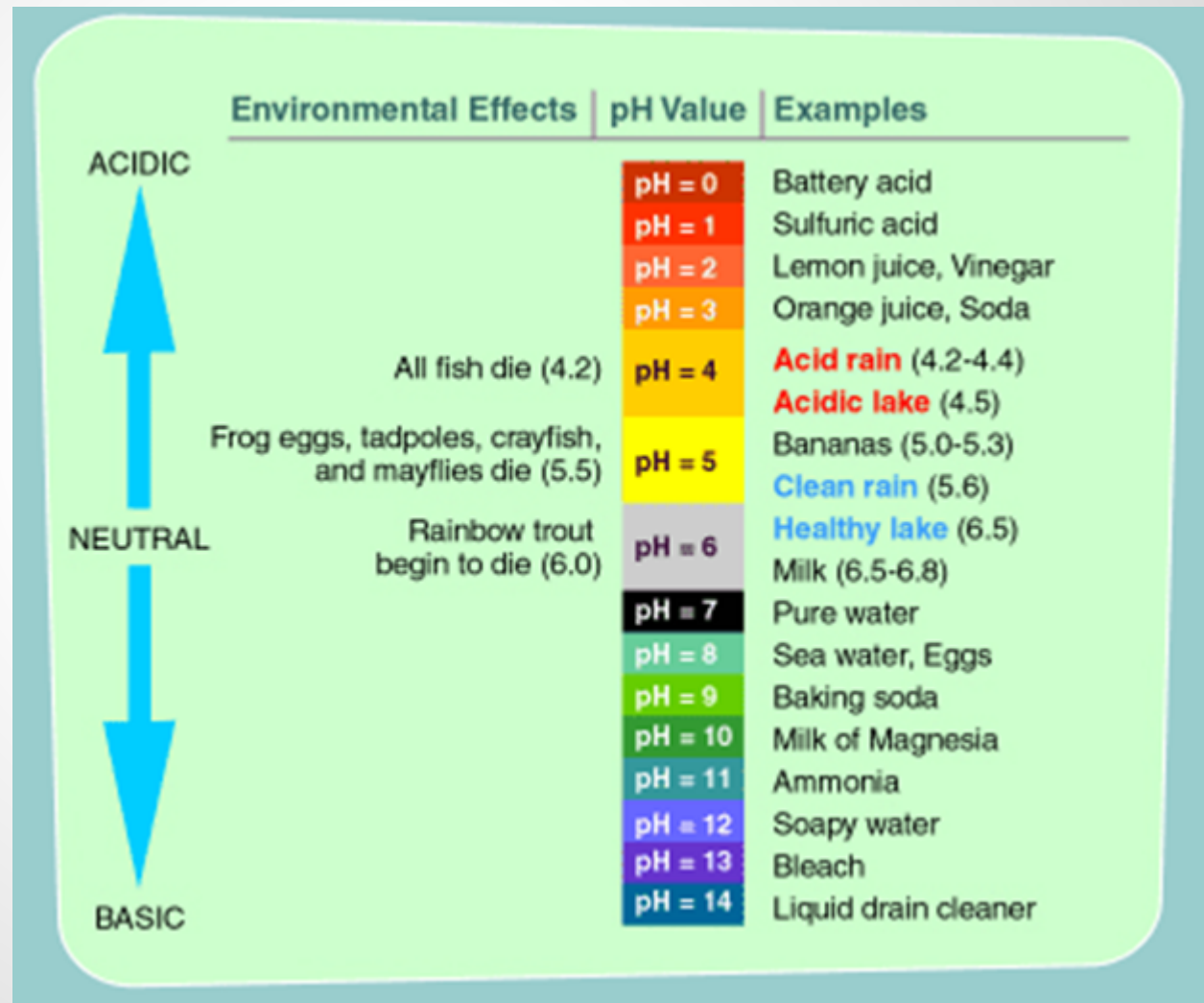
Sadly, we found evidence of humans impact!



# pH level

The pH. level of Coffin Pond was 6.3.

That means Coffin Pond is a healthy pond.



# Hypothesis

## Our Hypothesis

Our hypothesis was that the macro invertebrates could differ or be similar depending upon the climate, numbers of predators and the population of prey, size of the freshwater body, weather, human impact, location, and pollution. These are variables that would affect the types of macroinvertebrates that we would find.

An example is that Florida is different from New Hampshire due to temperature and climate so the animal species in that location would be different. Also the place where the pond is could be near a polluted place which would also affect the pond. On the other hand, Connecticut ponds are similar to New Hampshire ponds so perhaps the macroinvertebrates are the same because the climate is basically the same. However, the macroinvertebrates could be a bit different because of the numbers of predators and prey, the size of the pond, the food supply as well as the weather.

## Data Report

Dragon flies	6
Butterfly	1
Bees	3
Stonefly nymphs	2
Tadpoles	14 (at least)
Whirligigs	9
Dragon fly nymphs	4
Cray fish	3
Dragon fly larva	6
Fresh water mussel	1
Water striders	10
Spiders	5
Damsel fly nymph	10

# Images





# Conclusions

We will need to see the data collected by the other schools before we can formulate our conclusions.