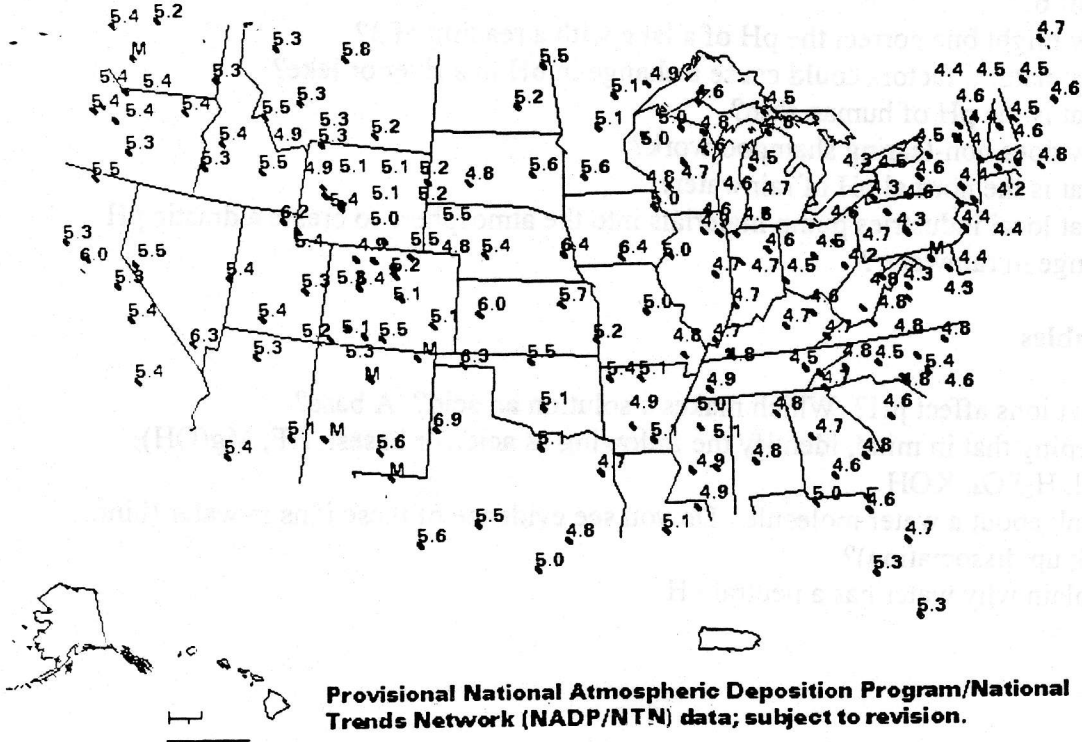


What does pH mean for you?

pH of Precipitation for November 26, - December 23, 2001

Select a State (point click)



Range of pH tolerated by aquatic animals.

	pH 6.5	pH 6.0	pH 5.5	pH 5.0	pH 4.5	pH 4.0
TROUT						
BASS						
PERCH						
FROGS						
SALAMANDERS						
CLAMS						
CRAYFISH						
SNAILS						
MAYFLY						

- Using the map & chart above, which animals would you expect to be negatively affected by rainfall accumulating in lakes, rivers & streams in the Northeast US? Midwest?

2. What might be the cause in the change in rainfall pH from the Western US to the Eastern US?

Use your textbook and the computers to answer the following questions.

1. If the pH of a sample is 3 how many times more acidic is it than a solution with a pH of 6?
2. How might one correct the pH of a lake with a reading of 3?
3. What natural factors could cause a change in pH in a river or lake?
4. What is the pH of human skin?
5. How does non-tearing shampoo work?
6. What is the normal pH of rainwater?
7. What local industries pump materials into the atmosphere to create a drastic pH change in rainwater?

PH Thinkables

1. What ions affect pH? Which makes a solution an acid? A base?
2. Keeping that in mind, identify the following as acids or bases: HF, Mg(OH)₂, HCl, H₂SO₄, KOH
3. Think about a water molecule. Do you see evidence of these ions in water (hint: look up dissociation)?
4. Explain why water has a neutral pH.

