

3.11 Acid Rain

Worksheet

Using <http://www.epa.gov/airmarkets/acidrain> fill in the following section.

Give a short definition for acid precipitation.

What are the causes/sources of acid rain?

Explain how SO₂ forms into acid rain (review of chemistry).

Explain how NO_x forms into acid rain (more review of chemistry).

What is the pH of acid rain?

How does the pH of soils minimize the effect of acid rain?

List 2 things you can do to reduce acid rain.

Using <http://www.scar.utoronto.ca/~weather/maryp/Effects/fish.html> complete the next section.

What decade had the most dramatic reports of damage?

How many lakes are fishless due to acid rain?

Why are Ontario lakes vulnerable?

How are soils and aluminum involved?

What effect does the pH of 3-3.5 have on the aquatic system?

Using <http://www.scar.utoronto.ca/~weather/maryp/Effects/terrest.html> complete the next section.

List 3 ions involved in the soil.

What happens to the ions?

Which organisms need the ions and why don't they get them?

What are the symptoms found on the trees?

How is soil and aluminum involved?