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ABSTRACT

Acid rain is a term for rain, snow, or other precipitation produced from water vapor in the air reacting with emissions from automobiles, factories, power plants, and other oil and coal burning sources. When these chemical compounds, composed of sulfur oxide and nitrogen oxide, react with water vapor, the result is sulfuric acid and nitric acid. The eastern portion of North America and the northwest section of Europe are especially susceptible to acid rain. Acid rain has damaged buildings, forests, crops, and soil; polluted thousands of lakes, rivers, and streams; and injured millions of fish and other forms of aquatic life. The purpose of the second edition of this bibliography is to provide a list of recent articles, books, and documents available in the Robert E. Kennedy Library of the California Polytechnic State University (San Luis Obispo) on the problems of acid rain published since 1984. This bibliography is organized under the following headings: (1) "The Causes of Acid Rain"; (2) "The Effect of Acid Rain on Soils, Plants, and Forests"; (3) "The Effect of Acid Rain on Lakes, Ponds, and Aquatic Life"; (4) "The Effect of Acid Rain on Health"; (5) "Effects of Acid Rain on Materials"; and (6) "Acid Rain: Laws and Regulations." A total of 362 citations is provided. (CW)

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INTRODUCTION

The purpose of the second edition of this bibliography is to provide recent articles, books, and documents available in the Robert E. Kennedy Library on the problem of acid rain published since 1984. An earlier edition (Bibliography Series Fifteen) covered the literature to 1984.

Acid rain is a term for rain, snow, or other precipitation produced from water vapor in the air reacting with chemical compounds from automobiles, factories, power plants, and other oil and coal burning sources. When these chemical compounds, composed of sulfur oxide and nitrogen oxide, react with water vapor, the result is sulfuric acid and nitric acid.

The eastern portion of North America and the northwest section of Europe are especially susceptible to acid rain. This problem has (1) damaged building, forests, crops, and soil; (2) polluted thousands of lakes, rivers, and streams; and (3) injured millions of fish and other forms of aquatic life. The cost alone to the United States during the last ten years has been in the billions of dollars.

Several sources were consulted in the compilation of this bibliography. Those found to be particularly useful include the subject card catalog of the Robert E. Kennedy Library; the Applied Science and Technology Index (1984-1988), the Art Index (1984-1985); the Biological and Agricultural Index (1985-1988) the Environment Index (1984-1987); the General Science Index (1985-1988); and the Reader's Guide to Periodical Literature (1985-1988).

SUBJECT HEADINGS

Several sources were used to identify information compiled in this bibliography. Users are encouraged to consult these sources to locate additional citations.

(1) Subject Catalog of the Robert E. Kennedy Library:

Acid deposition
Acid rain

(2) Applied Science and Technology Index

Acid pollution of rivers, lakes, etc.
Acid rain
Acid rain -- testing
Rain water, acidity

(3) Art Index

Acid rain

(4) Biological and Agricultural Index

Acid rain
Rain and rainfall

(5) Environment Index

Acid rain

(6) General Science Index

Acid pollution of rivers, lakes, etc.
Acid rain
Rain and rainfall
Soil acidity

(7) Reader's Guide to Periodical Literature

Acid rain
Acid streams; see brooks, creeks, etc.
Soil acidity

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III. THE EFFECT OF ACID RAIN ON LAKES, PONDS, AND AQUATIC LIFE

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