

CHAPTER 11 AGRICULTURE AND WATER QUALITY

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How does agriculture affect the quality of water? Irrigation can move salt and other dissolved minerals to surface water. Livestock operations produce large amounts of waste, which if not properly disposed, can threaten human health as well as contribute to excess nutrient problems in streams, rivers, lakes, and estuaries.

How do agricultural runoff and industrial pollutants affect coastal waters? Bacteria and nutrients from livestock and poultry manure can cause beach and shellfish bed closures and affect drinking water supplies. Pesticide runoff to streams can pose risks to aquatic life, fish-eating wildlife, and drinking water supplies.

Where does agricultural pollution come from? Agricultural activities that cause NPS pollution include poorly located or managed animal feeding operations; overgrazing; plowing too often or at the wrong time; and improper, excessive, or poorly timed application of pesticides, irrigation water, and fertilizer.

What is agricultural runoff? Agricultural Runoff is water from farm fields due to irrigation, rain, or melted snow that flows over the earth that can absorb into the ground, enter bodies of waters or evaporate.

How does agricultural land use affect water quality? These discharges can affect water quality by transporting pollutants, including pesticides, sediment, nutrients, salts (including selenium and boron), pathogens, and heavy metals, from cultivated fields into surface waters.

Why is water so important to agriculture? Water applied as irrigation allows for crop production in arid regions and supplements soil moisture in humid regions when

growing season precipitation is insufficient.

What are the three types of water pollution caused by industrial agriculture?

Algal Blooms, Dead Zones and Acidification High quantities of nutrients in water from industrial crop fertilizers and animal waste cause excessive aquatic plant growth — a process known as “eutrophication,” which, in turn, causes “hypoxia,” or water that is low in oxygen.

How to reduce water pollution from agriculture?

How does agricultural pollution affect the ocean? Causes of marine pollution When it flows over farms it picks up manure and fertilizer and transports them into lakes and oceans. These nutrients can then feed seaweed and phytoplankton, preventing other important native species from growing, causing eutrophication.

How to prevent runoff in agriculture?

What type of agriculture causes the most pollution? Animal agriculture has an outsized impact on pollutants that enter the environment. Bacteria and pathogens in manure can make their way into streams and groundwater if grazing, storing manure in lagoons and applying manure to fields is not properly managed.

How to prevent runoff?

What are the negative effects of agricultural runoff? Algae blooms, lower oxygen levels and larger plants hurt the life that lives in our water. It also harms water habitats, ruins the natural beauty and can prevent us from using our lakes, streams and rivers for recreation.

What is the biggest runoff concern for farmers? Unlike urban stormwater, animal waste is a major source of nutrient contamination in agricultural runoff. Agricultural runoff, particularly from concentrated animal feeding operations (CAFOs), is recognized as one of the largest sources of contamination of surface water in the United States (Puckett, 1994).

What is the leading cause of water pollution? The main point source of pollution to water is from sewage and waste water treatment, while for diffuse pollution, main sources are from farming and fossil fuel power plants (via the air).

How does agriculture impact the water cycle? Improperly managed agricultural activities may impact surface water by contributing nutrients, pesticides, sediment, and bacteria, or by altering stream flow. Fertilizer and pesticide use, tillage, irrigation, and tile drainage can affect water quality and hydrology.

How does animal agriculture affect the use of water? The use of water for livestock production can contribute to water scarcity and pollution, soil degradation, and deforestation, which can lead to long-term environmental damage.

What is the problem with water usage in agriculture? Climate change is squeezing water supplies, increasing temperatures and making the state's swings from dry to wet even more extreme and less predictable. Some farmers are experimenting with new crops that are more resistant to droughts or heat. At the same time, growers are also reeling from struggling markets.

How does fertilizer affect water quality? Too much fertilizer can actually kill the plant and excess fertilizer can runoff into streams and lakes causing toxic algal blooms that are harmful to aquatic life and even people and their pets. Excess fertilizer runoff from lawns and agricultural applications also contribute to aquatic “dead zones” in coastal areas.

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1. What is the importance of understanding the major macroeconomic factors?

- **Understanding Business, 9th Edition by Nickels and Kottan** explains that major macroeconomic factors, such as inflation, unemployment, and interest rates, have a significant impact on businesses. By understanding these factors, businesses can make informed decisions about production, marketing, and investment strategies.

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- The book emphasizes that businesses create value for customers by providing products or services that meet their needs and desires. Value can be created through differentiation, innovation, or cost reduction. By understanding customer needs, businesses can develop effective marketing

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3. What are the ethical responsibilities of businesses?

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Where can I purchase the Portable Dorothy Parker?

The Portable Dorothy Parker is widely available at bookstores and online retailers. It is published by Penguin Classics and is priced at approximately \$15.

Student Exploration: Tides Gizmo Answers Key

Introduction

Tides are the daily rise and fall of sea levels that result from the gravitational pull of the moon and sun on the Earth's oceans. This Gizmo simulates the movement of the Earth, moon, and sun to allow students to visualize the processes that cause tides.

Questions and Answers

1. What are the effects of changing the moon's position on the tides?

- When the moon is directly overhead (high tide), the water level at that location is highest.

- When the moon is opposite the high tide location (low tide), the water level is lowest.

2. What is the relationship between the moon's phase and the height of the tides?

- When the moon is full or new, the tides are highest (spring tides). This is because the gravitational pull of the moon and sun combine to create the largest difference in water levels.
- When the moon is at a quarter phase, the tides are lowest (neap tides). This is because the gravitational pull of the moon and sun counteract each other, resulting in a smaller difference in water levels.

3. How does the tilt of the Earth's axis affect the tides?

- The tilt of the Earth's axis causes the moon's apparent position to change over the course of a month. This change in position results in variations in the height of the tides.

4. What is the role of the sun in creating tides?

- The gravitational pull of the sun also contributes to the tides, although its effect is less than that of the moon.
- When the sun and moon are aligned, their gravitational forces combine to create higher spring tides.

5. How can tides be used to generate electricity?

- Tides can be harnessed to generate electricity through tidal power plants. These plants use the rising and falling water to drive turbines that generate electricity.

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