

## Lesson One:

# Agriculture and Water: A Case Study of Villwock Farms

### *Instructions:*

*Your facilitator has initiated this lesson through a discussion topic (post) on the group page. In this lesson you will respond in writing to several prompts (questions.) Write your responses in a Word document and submit this document by attaching it with a reply to the facilitator's post.*

## INTRODUCTION

- Begin by clicking on [KWL](#). A KWL chart helps the user identify prior knowledge and experience as a bridge to a new concept, lesson, or unit. List what you already know about agriculture and water in the K (Knowledge) column. Then list what you would like to learn about agriculture and water in the W (Want to know) column.
- You are about to see a video about agriculture and water that focuses on a farm operation in Knox County, Indiana.
- Click on [Agriculture and Water: A Case Study of Villwock Farms](#) to start the video.
- When you have seen the video, submit your responses to the prompts below to your facilitator.
  - What are some of the changes that have taken place in agriculture over the past 100 years?
  - What are some of the ways in which water is used in agriculture?
  - What are some problems associated with dependence on rainfall and irrigation?
  - Why is the management of water coming off agricultural land so important?
  - What are some strategies that can be used in agriculture to control runoff and erosion?
- Record what you learned about agriculture and water from the video in the L (learned) column of the chart.
- Share the information contained in your completed KWL chart with the group by replying to your facilitator about this lesson. Also, provide each group member with some feedback on his or her KWL charts.

## AGRICULTURE AND WATER: PUTTING THE PIECES TOGETHER

- Click on the [Concept Web](#). You can use the web to summarize what you learned about agriculture and water. The words “agriculture and water” are written in the center of the web. Think of all the terms and phrases from the KWL activity, the video, and your own experience that can be used to describe agriculture and water. Record these words and phrases on the “legs” of the web.

- Share the information contained in your completed concept web with the group. Also, provide each of your group members with some feedback on their concept webs.

#### **Additional Resources on Agriculture and Water**

You can learn more about resources on agriculture and water by visiting the project web site at [www.geoteach.org](http://www.geoteach.org). Go through the various links related to the subject of agriculture and water that appear on the web site. These links can be found under Teacher Resources, Content Enhancements.