



Real World Problem Scenario

Scenario:	Rainfall and Flooding
Business:	Buckeye Hills-Hocking Valley Regional Development District
Business Participant:	Bret Allphin
Career Cluster(s):	Agriculture, Food, and Natural Resources, STEM
Grade Level:	4-12
Standards & Skills:	Geography: Human modifications of the physical environment in one place often lead to changes in other places Physical processes influence the formation and distribution of renewable, nonrenewable, and flow resources

Problem Description:

You have recently moved to a new area in Southeastern Ohio. As a new community member, you attended a meeting at the Local Environmental Governing Board. At the meeting, you become aware of increasing issues due to rainfall and flooding. Many of these issues include erosion of the land near the rivers, deterioration of local landmarks, and house and property damage. Using what you have learned about GIS systems and how water positively and negatively interacts with the humans around it, develop an action plan with steps to address this issue in your community.

Things to be considered or defined for the solution:

- Capabilities of GIS (Geographic Information System)
- Calculations of an area's various elevations and distances from water sources



- Weather history and predictions of flooding

