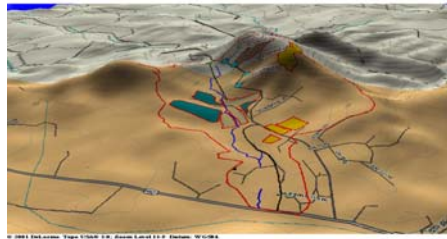


# Introduction to Watershed Processes-grades 4-8

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Using activities from Project WET's *Discover a Watershed, Watershed Manager* and *Discover a Watershed, The Colorado*, these kits provide the materials needed for students to develop a comprehensive understanding of watersheds. Key understandings include the features of a watershed, watersheds as systems, and natural and anthropogenic change in watersheds.

## Activities and Equipment

### **Project WET Curriculum & Activity Guide Branching Out**

Students create a simple watershed model to understand how watersheds function and how water flows over land.

### **Discover a Watershed, Watershed Manager River Talk**

Students learn about the parts of watershed through analogy and vocabulary building.

### **Discover a Watershed, Watershed Manager Choices & Preferences, Water Index**

Students learn about the many different users of water and develop an index of their thoughts about values towards water usage. Students rank water usage and create averages and graphs.

### **Discover a Watershed, Watershed Manager Pass the Jug**

Students divvy up jugs and glasses of water to simulate and analyze different water rights policies to learn how water availability and people's proximity to the resource influence how water is allocated.

### **Discover a Watershed, Watershed Manager Sum of the Parts**

Students piece together riparian resource development and protection schemes to learn about point and non-point pollution sources. Conservation and pollution reduction is discussed.

### **Discover a Watershed, Watershed Manager Watershed Manager**

Students learn about watershed management by constructing a mobile that demonstrates dynamic balance among water users in a watershed.

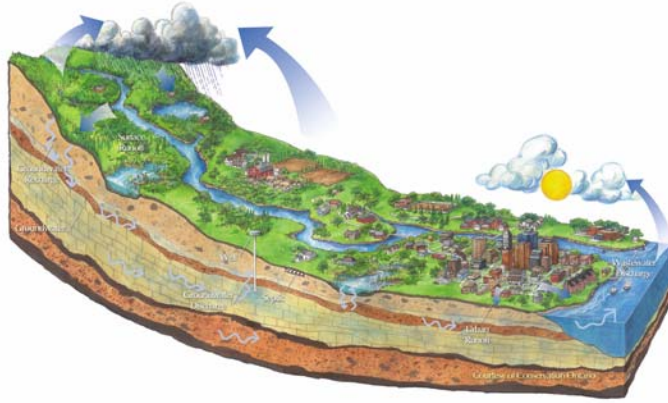
### **Discover a Watershed, The Colorado Seeing Watersheds and Blue Beads**

Students learn about various watershed features through the use of maps, graphing, calculations, and group exercises with beads.

### **Discover a Watershed, The Colorado Incredible Journey of the Colorado River**

Students play a game to learn about the movement of water molecules through the Colorado Watershed water cycle. Students learn about the various states of water, water users in the west,

## Advanced Watershed Processes-grades 7-12



Using activities from Project WET's *Discover a Watershed, Watershed Manager* and *Discover a Watershed, The Colorado*, these kits provide the materials needed for students to develop a comprehensive understanding of watersheds. Key understandings include the features of a watershed, watersheds as systems, and natural and anthropogenic change in watersheds.

### Activities and Equipment

#### **Project WET Curriculum & Activity Guide Branching Out**

Students create a simple watershed model to understand how watersheds function and how water flows over land.

#### **Discover a Watershed, Watershed Manager River Talk**

Students learn about the parts of watershed through analogy and vocabulary building.

#### **Discover a Watershed, Watershed Manager Back to the Future**

Students analyze streamflow monitoring data to determine the safest location for a future community. Analyze the risks and benefits of development in a floodplain.

#### **Discover a Watershed, Watershed Manager Your Hydrologic Bank Account**

Students calculate and analyze simplified hydrologic budgets for a fictional watershed from the western United States. Includes understanding how hydrologists estimate a watershed's hydrologic budget.

#### **Discover a Watershed, Watershed Manager River Reflections**

Students learn about water quality parameters in relation to land use issues. Arsenic, dissolved oxygen, and turbidity are explored through analysis of water quality data in a watershed.

#### **Discover a Watershed, Watershed Manager Color Me a Watershed**

Students learn about the effects of population growth, settlement, and calculate runoff by interpreting maps.

#### **Discover a Watershed, Watershed Manager On the Edge**

Students role-play in a game to simulate the process of negotiation, compromise, and cooperation involved in managing an international river.

#### **Discover a Watershed, The Colorado Seeing Watersheds and Blue Beads**

Students learn about various watershed features through the use of maps, graphing, calculations, and group exercises with beads.

#### **Discover a Watershed, The Colorado Incredible Journey of the Colorado River**

Students play a game to learn about the movement of water molecules through the Colorado Watershed water cycle. Students learn about the various states of water, water users in the west,

**Discover a Watershed, The Colorado First Come, First Served**

Students role-play various scenarios of competing water use as they learn about water rights, the “Law of the River,” the principle of prior appropriation and beneficial use, and the Mexican water distribution system of *prelacion*.

**Discover a Watershed, The Colorado One River, Many Voices of the Colorado River Basin**

Students analyze and interpret excerpts written about the Colorado River by diverse water users, writers, and activists. Students write their own River Voices.