

## Changes, Additions and Expansions to Know!

2013 Expanded Goal: To build on existing Aquatic WILD materials with emphasis on expanding field investigations, STEM and wildlife career opportunities.

### **Front Guide Material Updates**

- (vii) \*NEW\* “What’s New for Aquatic WILD?”
- (xi) Moved “Evaluation of PW Materials” previous back material
- (xii) \*NEW\* “Teach Outside!” replaced “Outdoor Classrooms”
- (xiv) \*NEW\* “Aquatic WILD Field Investigations”
- (xxvi) Renamed “Organization of This Guide” previous “How to Use...”
- (xxviii) \*NEW\* “Activity Format” Section

Not included in 2013 edition: Project WILD: Connecting to No Child Left Behind

### **Activity Format Changes**

NEW Grade Level Designations & Alignments

Content Area now named Subject Area

Method & Materials are now located in Sidebar

Activity Time now named Duration

People Power now named Group Size

Key Terms now named Terms to Know—please note many new terms added

Student Pages now named Copy Me Pages

Every activity now contains an Opening Statement

NEW WILD Work Section

NEW In Step with STEM Section (replaced Technology Connections)

NEW Questions to Investigate Section (found only in Expanded Field Investigations)



Allows educators to delve deeper into science, technology, engineering and mathematics content. STEM extensions makes use of a variety of tools from litmus tests to Smartphones and involve students in the application of technology, science and math as part of their problem-solving efforts.

A career component added to all activities to tie in real occupations in the field of wildlife management and conservation with every lesson. Supplementary online resources to use with WILD Work are linked through an expanded WILD website.



### **Back Appendices Updates**

- (318) \*NEW\* "Let's Go Fishing!"
- (320) \*NEW\* "Grade Level Index"
- (326) \*NEW\* "Unit Planning"
- (327) \*NEW\* Additions to "Expanded Topic Index" relating to new Field Invest
- (335) \*NEW\* "Inventory Methods"
- (347) \*NEW\* "Service Learning"
- (356) Updated "Benefits of Classroom Aquarium" on enhancement of learning
- (358) \*NEW\* "Sustainable Seafood"
- (364) \*NEW\* "Climate Change Education"
- (388) \*NEW\* "What's My Question"/ "Conclusions & Next Steps"/ "Data Collection Form"

Not included in 2013 edition: Making Inferences, Interviewing People and Simulated Field Trips

**Field Investigations, Expanded Field Investigations & \*NEW\* Activities**

**Aquatic WILD Field Investigations**

Activity Title	Grade Levels	Activity Description
Edge of Home	Upper Elementary & Middle School	Students explore the concept of ecotones by investigating places where habitats overlap.
Gone Fishing! *	Middle School & High School	As a method of data collection, students go fishing to investigate local fish species and fish habitat.
Got Water? *	Upper Elementary	Students evaluate habitat in the schoolyard or local study site to determine if sources of food, water, and shelter are in an appropriate arrangement for a specific animal species to survive.
Puddle Wonders! *	Middle School	Students observe water that accumulates in puddles; measure and record the depth, area, and volume of the puddles; and look for evidence of wildlife using the puddles.
Water Canaries	Middle School & High School	Students investigate a stream or pond using sampling techniques.
Water Safari *	Lower Elementary	Students investigate wildlife and signs of wildlife in the schoolyard or other outdoor study site, as well as the locations of water that wildlife might use.
Watershed	Middle School & High School	Students measure the area of a local watershed, calculate the amount of water it receives each year, and discuss the varied roles the watershed plays in human and wildlife habitats.
Where Does Water Run? *	Middle School & High School	Students design and implement a field investigation involving relationships between levels of precipitation, runoff, and percentage of impervious ground cover.

\* Five expanded field investigations in this edition of *Aquatic WILD K-12 Curriculum and Activity Guide* include more in-depth guidelines for involving students in developing investigative questions, procedures, data collection, and analysis.

- 8 New Field Investigations/ 3 of these are \*NEW\* to Aquatic WILD  
 (1) Water Safari      (2) Gone Fishing!      (3) Got Water?
  
- 8 New Field Investigations/ 2 of these were in previous Aquatic WILD but have been modified to an Expanded Field Investigation  
 (1) Where Does Water Run?      (2) Puddle Wonders
  
- 8 New Field Investigations/ 3 of these remain unchanged from previous Aquatic WILD  
 (1) Water Canaries      (2) Edge of Home      (3) Watershed

**Seven \*NEW\* Activities**

- (1) Gone Fishing!      (2) Got Water?      (3) Water Safari      (4) Conservation Messaging  
 (5) Water Works      (6) Working for Wildlife      (7) Urban Waterway Checkup

## **Activity Content Updates**

Updates within the guide occur at all levels and all activities including background, data updates, terminology, photos, etc. However, these activities have been identified as especially noteworthy due to their procedural or heavy data updates.

Plastic Voyages	Where Have All the Salmon Gone?	A Whale of an Issue	Water's Going On?
<ul style="list-style-type: none"><li>• Title change from "Plastic Jellyfish"</li><li>• Expanded content to include larger issues with marine plastic pollution</li><li>• Procedures use sand in place of soil</li></ul>	<ul style="list-style-type: none"><li>• Updated data change from variety of fish in Columbia River of Oregon to Chinook Salmon in rivers and streams in California's Central Valley</li></ul>	<ul style="list-style-type: none"><li>• Title change from "When a Whale is Right"</li><li>• Minor background content and group division changes</li></ul>	<ul style="list-style-type: none"><li>• Removed due to similar objectives covered in new activity "Water Works"</li></ul>