



2014 AQUATICS RESOURCES

2014 Regional Stewardship Challenge

Key Point 1

Understand Aquatic Environments

1. Living with Wetlands
2. What is a Watershed?
3. Watersheds of Illinois - Major Watersheds of Illinois
4. Major Components of a Riparian Area
5. Wetlands Functions – Wetlands Functions and Values
6. Habitat Assessment
7. Benefits of Riparian Zones
8. Basic Watershed Concepts – 2.1 Basic Concepts
9. How to Read a Topo Map – How to Read a Topo Map and Delineate a Watershed
10. What are Wetlands?

Key Point 2

Aquatic Species and Organisms

1. Fish in Illinois
2. Fish Identification
3. Macro Reference Guide – Quick Reference Guide to Aquatic Invertebrates
4. Conservation of Fishes – Conservation of Fishes, p. 1-5 and 28-78. Note tolerances of different species
5. External Fish Anatomy
6. Fish as Indicators
7. Macro-invertebrate Key – Macro-invertebrate Identification Key
8. Invertebrates as Indicators
9. Asian Carp – Catch Phases
10. Purple Loosestrife
11. Managing Aquatic Plants
12. Name of the Condition: Viral Hemorrhagic Septicemia
13. Viral Hemorrhagic Septicemia
14. Selected Freshwater Fish Families

Key Point 3

Water Protection and Conservation

1. Living with Wetlands
2. Conservation of Fishes – Conservation of Fishes, p. 1-5 and 28-78. Note tolerances of different species
3. Macro-invertebrate Key – Macro-invertebrate Identification Key
4. Invertebrates as Indicators
5. Aquatic Nuisance Species – What are ANS?
6. Common Water Measurements
7. Phosphorus – The effects of urbanization on water quality: Phosphorus
8. Impervious surfaces – Why is this house wearing stilts?



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9. Erosion and sedimentation – The effects of urbanization on water quality: Erosion and Sedimentation
10. Local Government Topics – Stormwater Best Management Practices Start at Home
11. Construction BMPs – Reduce Pollution by Monitoring Construction Sites
12. Citizen's Guide to BMPs – Citizen's Guide to BMPs pg. 4-9
13. Stormwater BMP Pictures
14. Biological and Chemical Criteria Differences – How do Bio-criteria and Chemical Criteria Differ?
15. ANS Task Force
16. Safe Drinking Water Act
17. Clean Water Act
18. NPDES Phase II – EPA's Stormwater Phase II Rule
19. Water Quality Indicators
20. Water Quality Indicators Summary
21. IBI as Water Quality Measure
22. How Water Quality Indicators Work

Key Point 4

Watersheds and Watershed Protection

1. What is a Watershed?
2. Watersheds in Illinois – Major Watersheds of Illinois
3. Basic Watershed Concepts – 2.1 Basic Concepts
4. Phosphorus – The effects of urbanization on water quality: Phosphorus
5. Impervious surfaces – Why is this house wearing stilts?