

Upper Wapsipinicon Watershed Management Authority



Buchanan County Courthouse
November 19, 2014

Watershed Attributes

- ❑ 147,901 ac watershed
- ❑ Fayette, Buchanan, Delaware, Linn, Jones Counties
- ❑ Confluences with Wapsi in Anamosa



Watershed Attributes

- ❑ Upper: 40,443 acres
- ❑ Middle: 19,616 acres
- ❑ 303(d) list of Impaired Waters (<50% decrease in mussels)
- ❑ Improve ecological, recreational, and overall water quality



Watershed Attributes

- DNR Fisheries have identified five “sensitive” species of fish
 - American Brook Lamprey, Blackside Darter, Horneyhead Chub, Northern Hogsucker, Smallmouth Bass

 - ISU/Private assessments have identified two “threatened” species of mussels
 - Creek Heelsplitter and Ellipse
-

Goals

Reduce Sediment Delivery

- Sediment reduction (3,735 t/y) = 17%
- (equivalent to 233 dump truck loads)

Reduce Nutrients

- Phosphorus reduction 4,855 lb/y

Perform Information and Education Outreach

- Watershed-wide newsletters, news releases, one-on-one field visits, public meetings, county fairs, and others

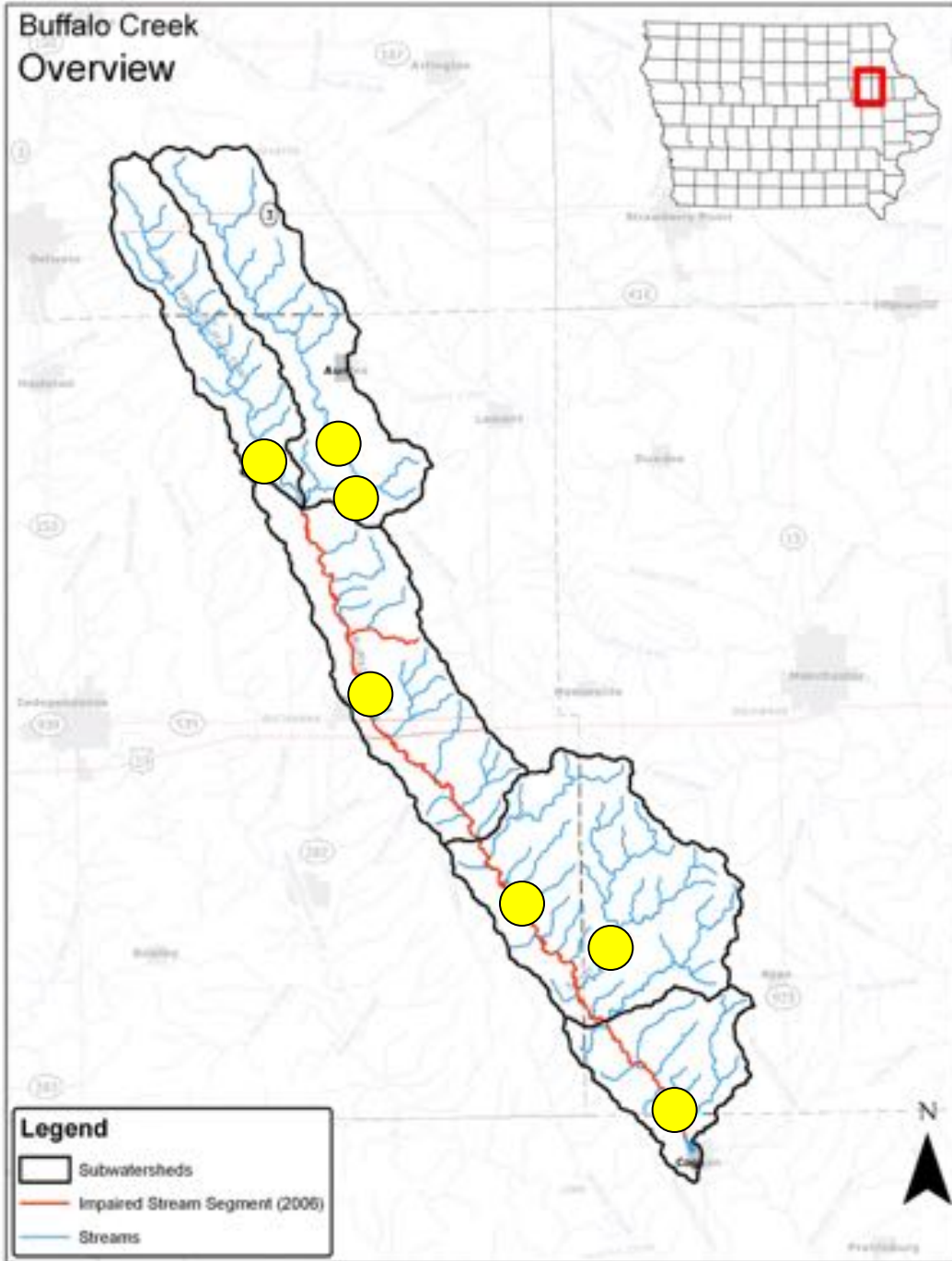
Perform Water Quality Monitoring

- Follow IDNR monitoring plan (every 14 days)
-

Water Monitoring

- Seven Sites above the Coggon Dam
 - Parameters: water temp, DO, turbidity, flow levels, and pH
-

Buffalo Creek Overview



Accomplishments

- Grassed Waterways:
 - 68 Projects
 - 80.2 acres

- Grassed Waterway Outlet Structures
 - 3 Projects
 - 3 Units



Accomplishments

□ Contour Farming:

- 2 Projects
- 61.4 acres

□ Ag Waste - Containment:

- 1 Project
- 1 unit



Accomplishments

❑ Critical Area Planting:

- 3 Projects
- 4.8 acres

❑ Wetlands:

- 1 Project
- 4.9 acres

❑ Filter Strips:

- 2 Projects
- 8.8 acres



Accomplishments



- ❑ Misc. Practices (not originally proposed)
 - ❑ SAFE – Native Seeding (CRP)
 - 10.4 acres (1 Project)
 - ❑ Quail Buffer – Native Seeding (CRP)
 - 10.2 acres (2 Projects)
-

Accomplishments

- Misc. Practices (cont.)

- Contour Buffer Strips (CRP)
 - 5.8 acres (3 Projects)

- Cover Crops (WIRB and Landowner/Operator)
 - 602 acres (7 Projects)

Total of 93 projects completed

END

