Improving Water Quality and Mitigating Flood Damage Through Cooperation in Delivery of Perpetual Easement Programs

Watershed boundary
ARRA Funded Sites
EWP Round 1 Tentative Selection
EWP Round 2 Tentative Selection
FPS-Recov Application
Existing NRCS Easement
Park or Conservation Area

NRCS EWP Floodplain Easement Applications and Selections - Iowa

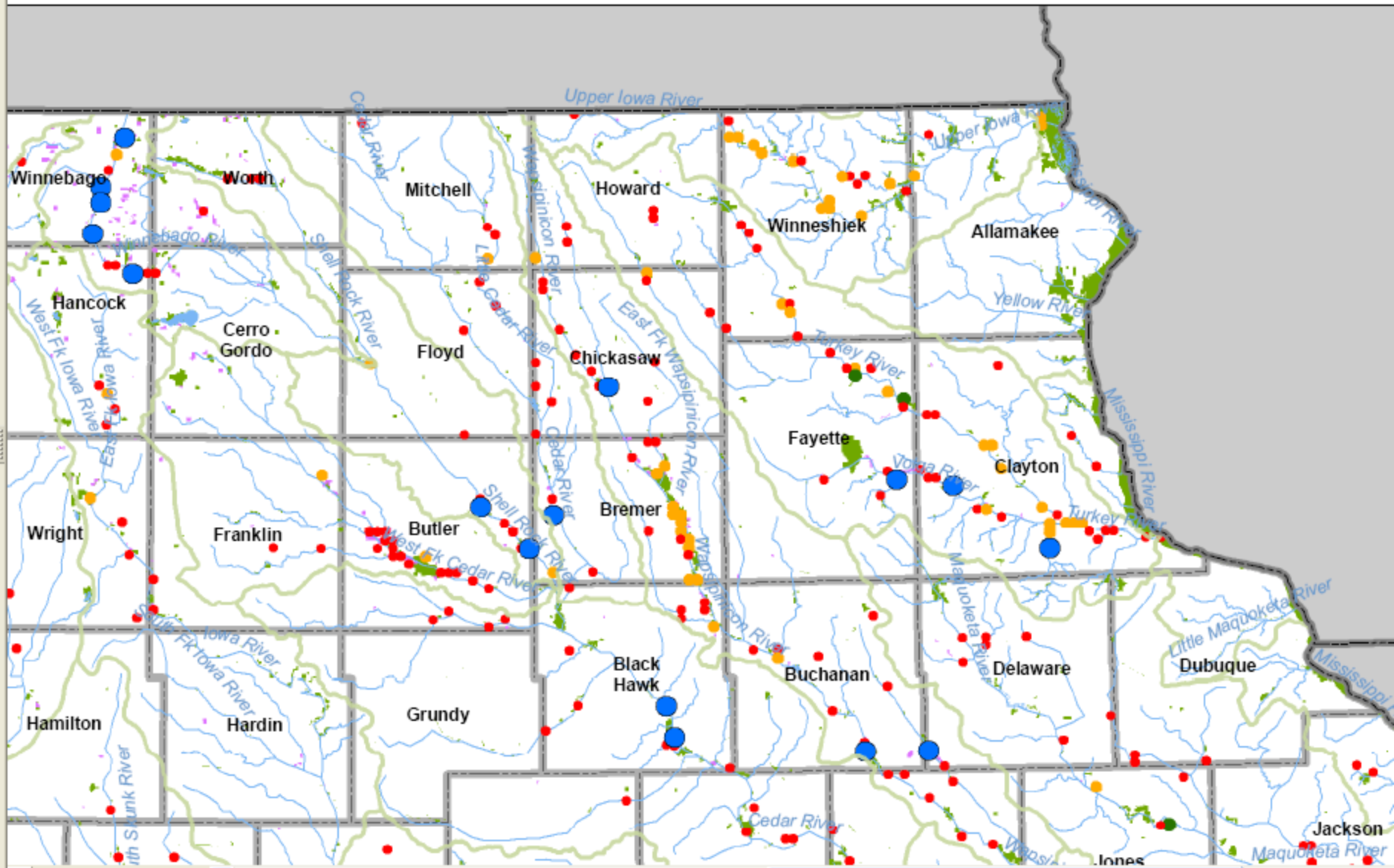
USDA Natural Resources Conservation Service
Emergency Watershed Protection Program
As of June 22, 2009

USDA Natural Resources Conservation Service
Geographic Information Systems Office
Des Moines, Iowa

NRCS EWP Floodplain Easement Applications and Selections - Iowa

USDA Natural Resources Conservation Service
Emergency Watershed Protection Program
As of June 22, 2009

USDA Natural Resources Conservation Service
Geographic Information Systems Office
Des Moines, Iowa



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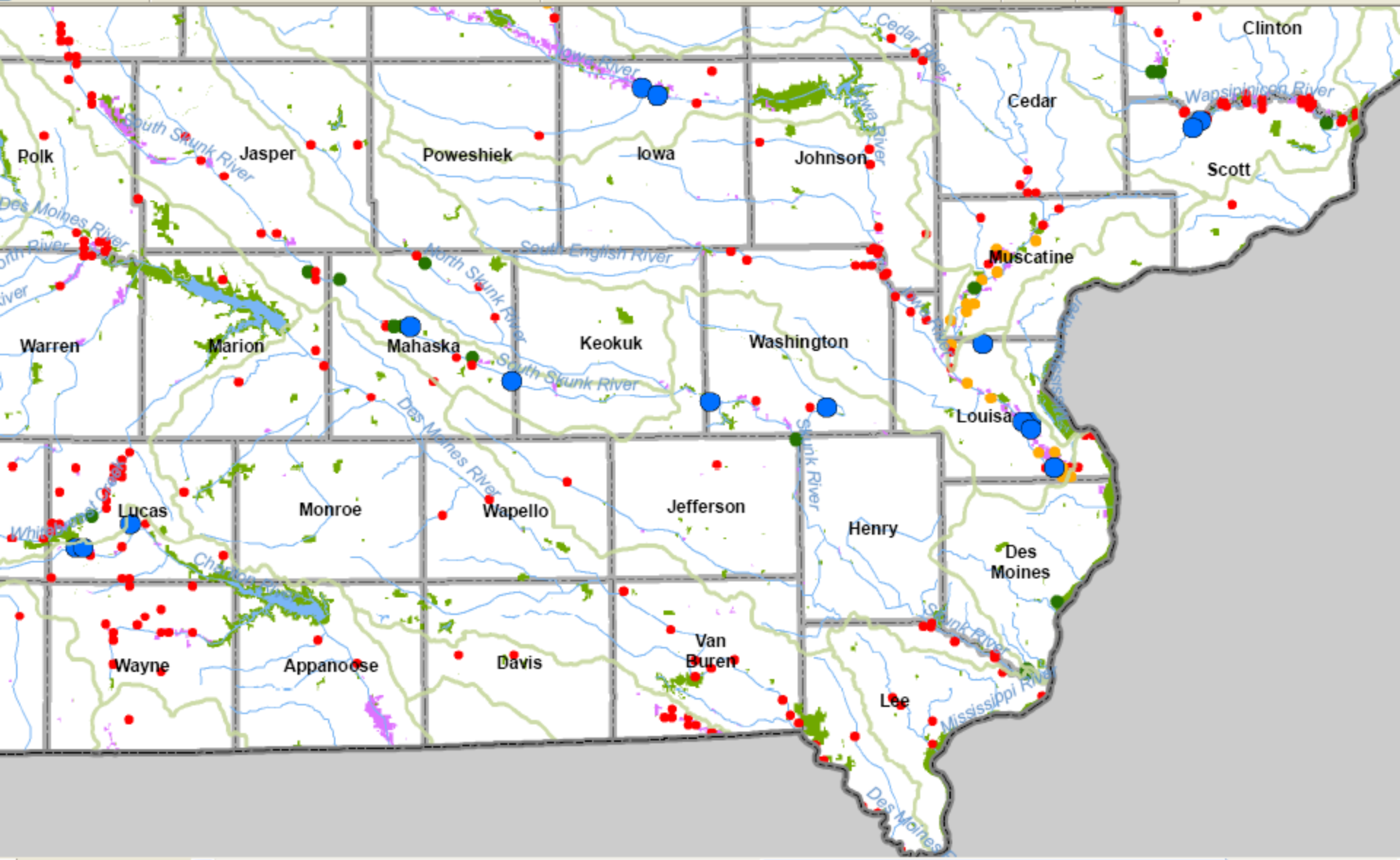

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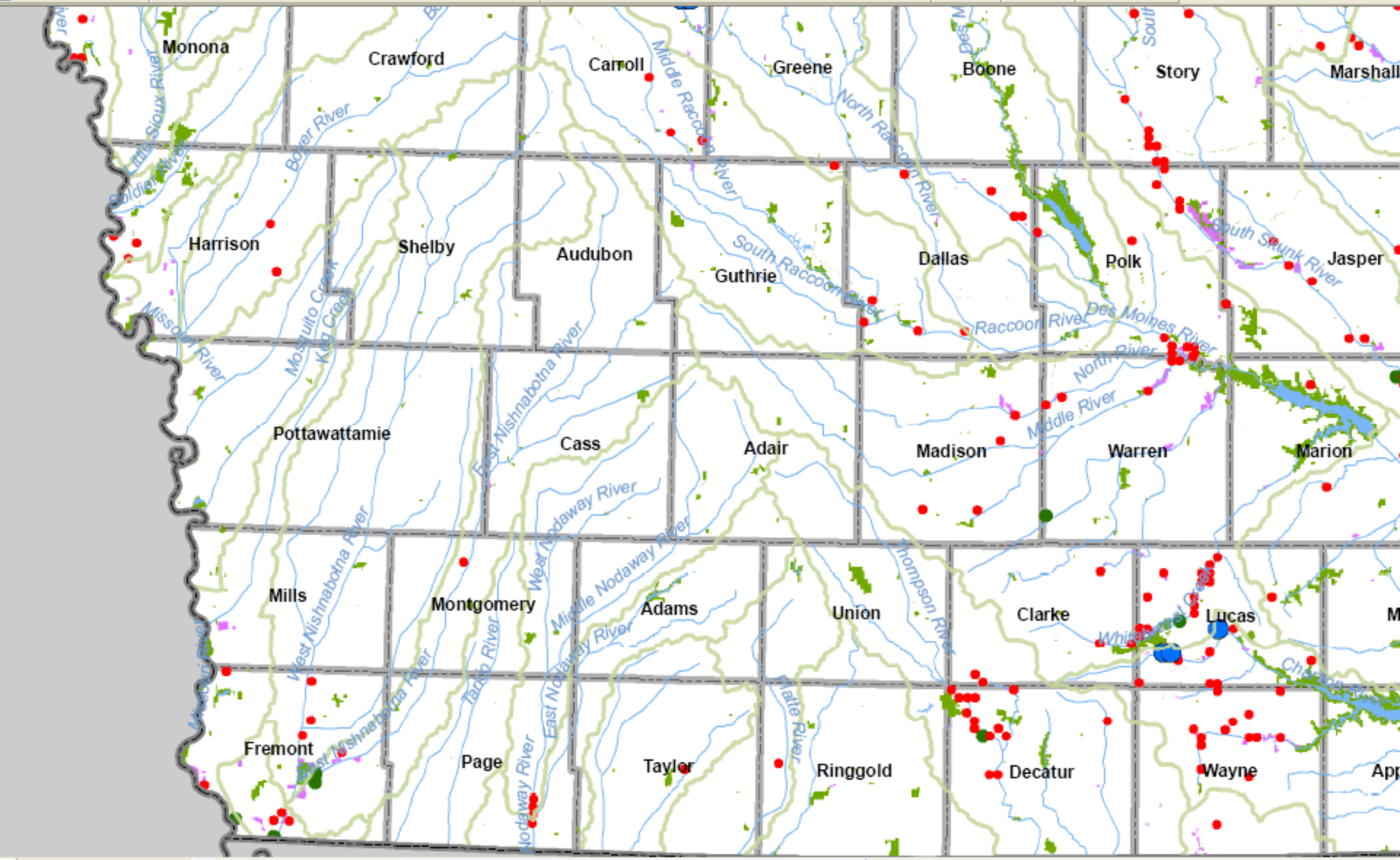

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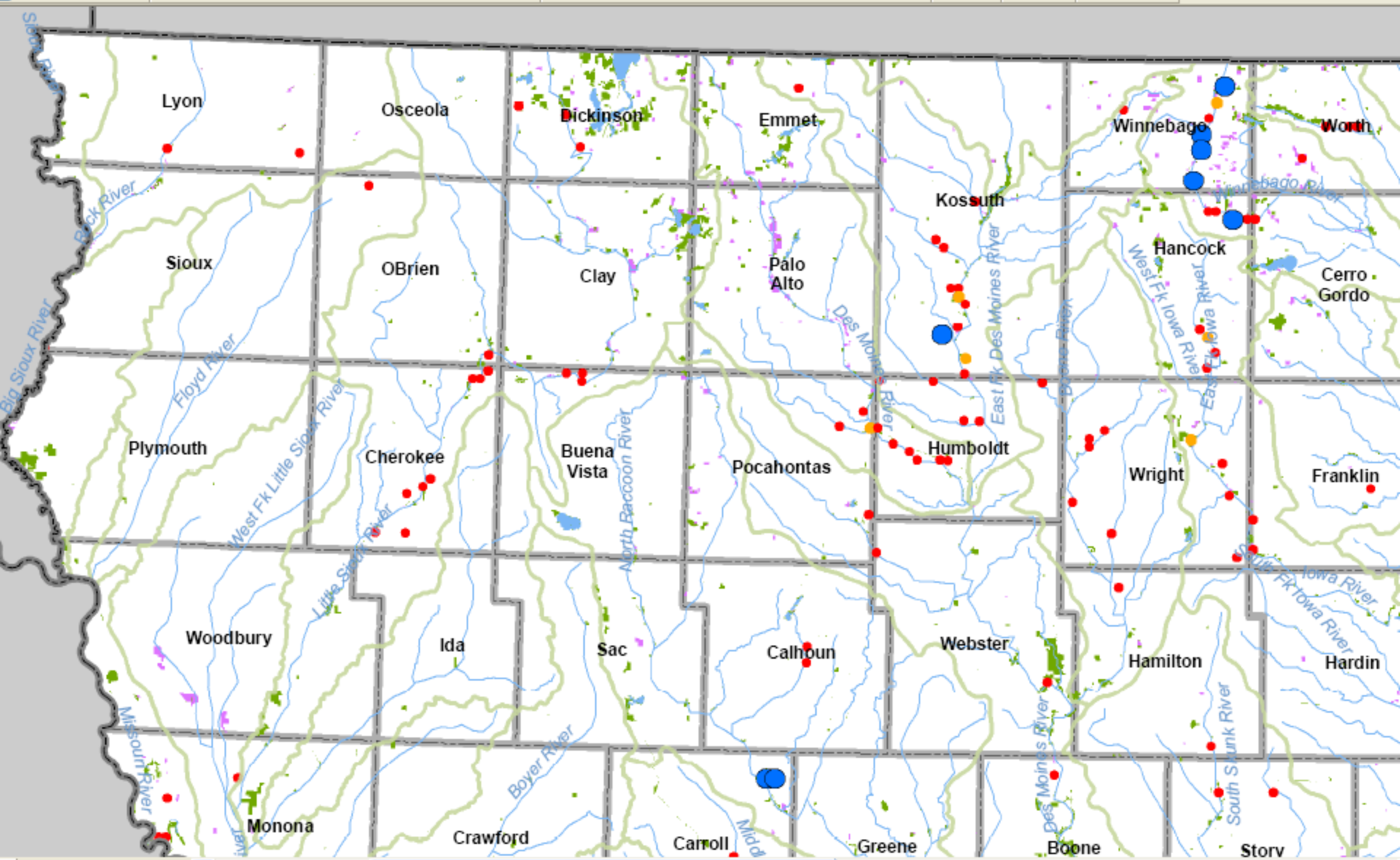

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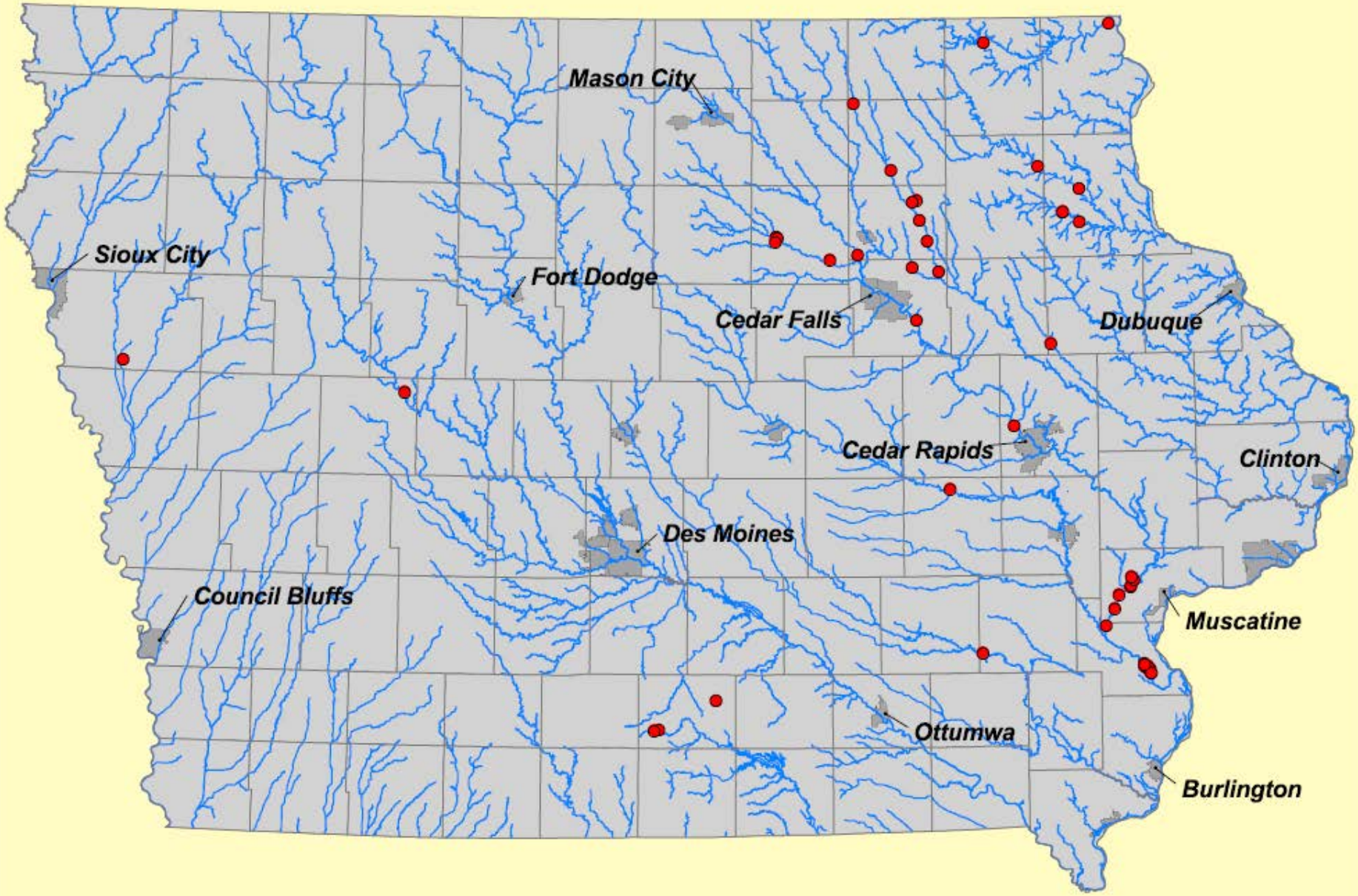
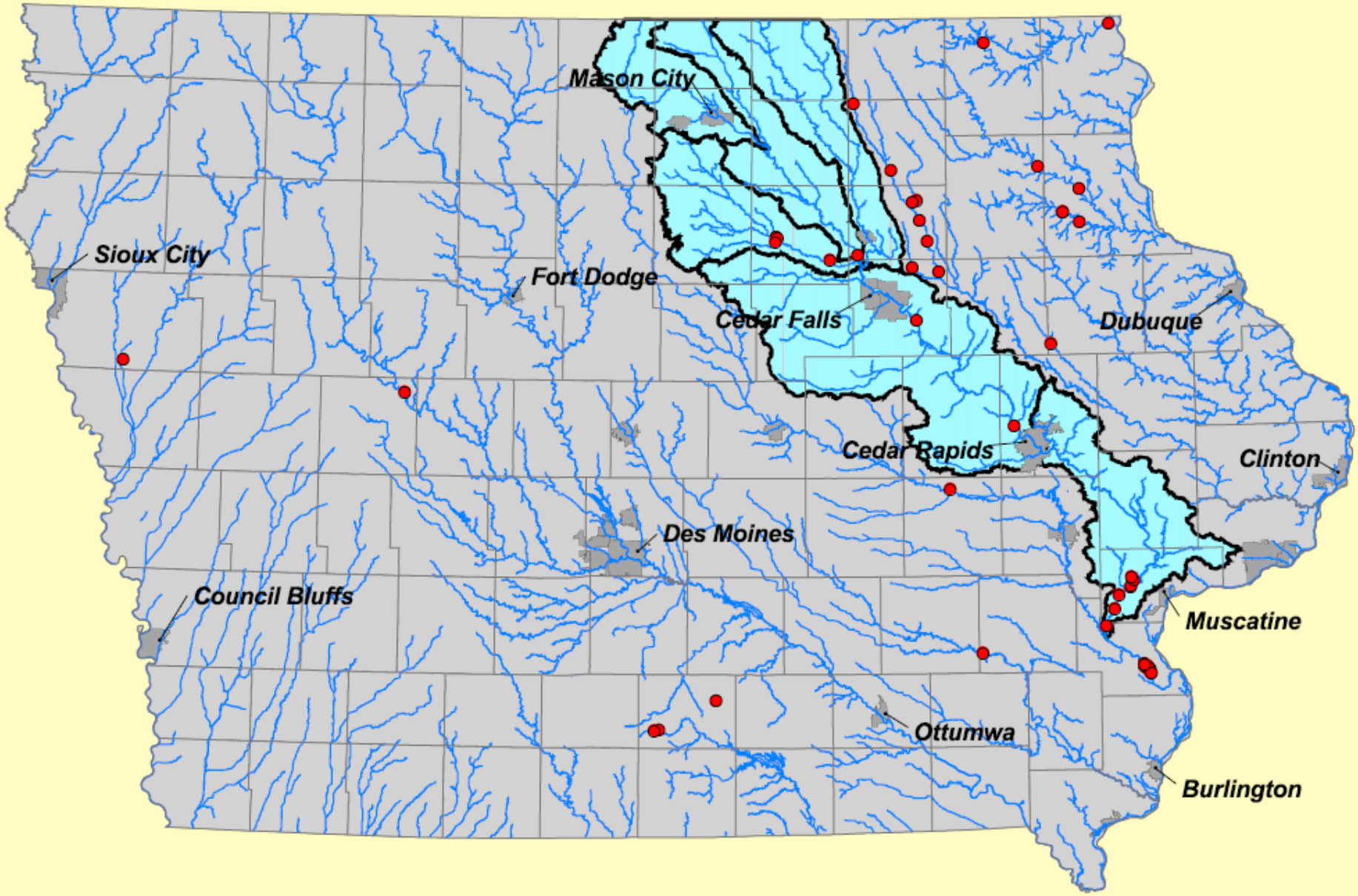
I-JOBS Flood Recovery and Water Quality Improvement Projects

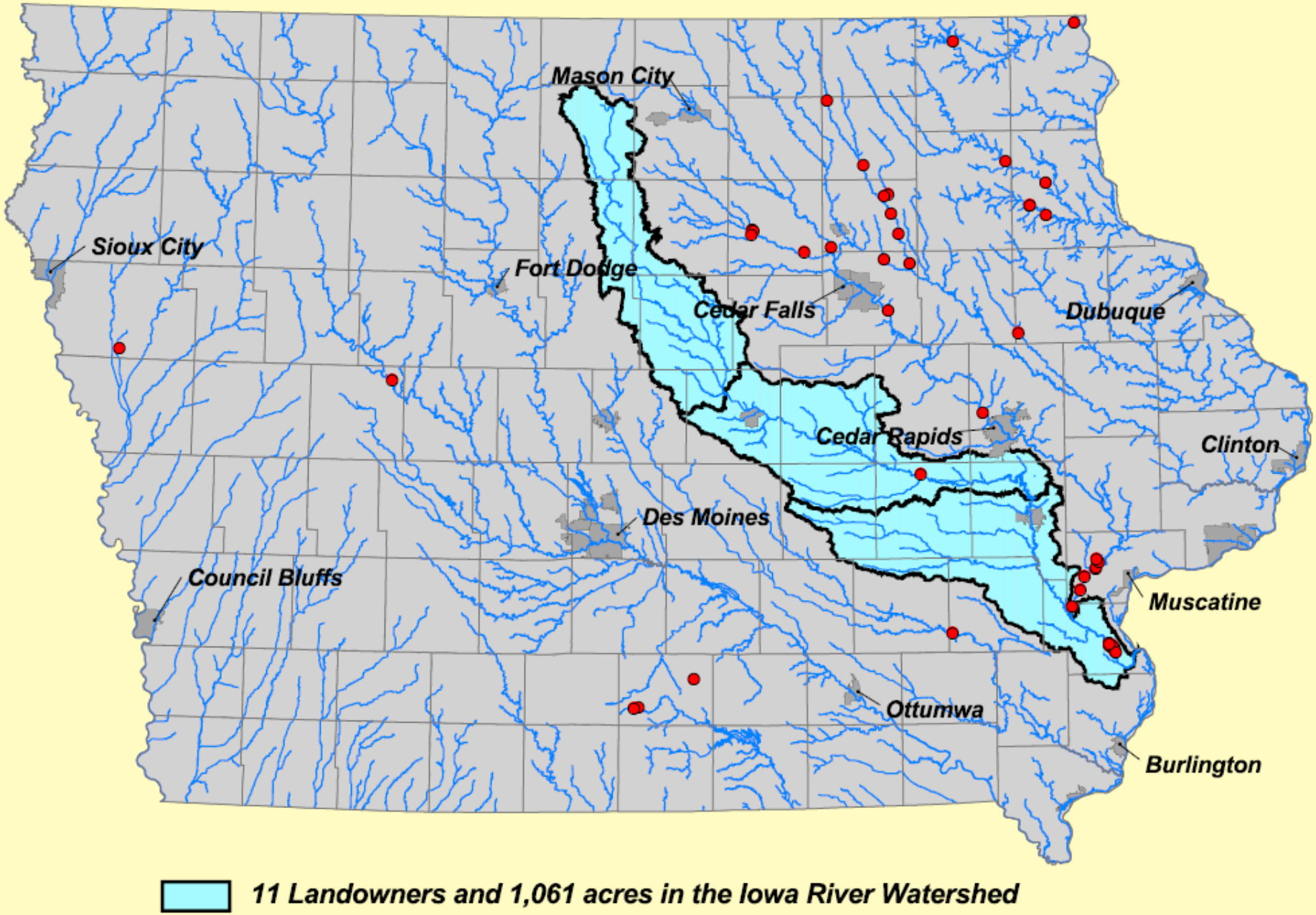


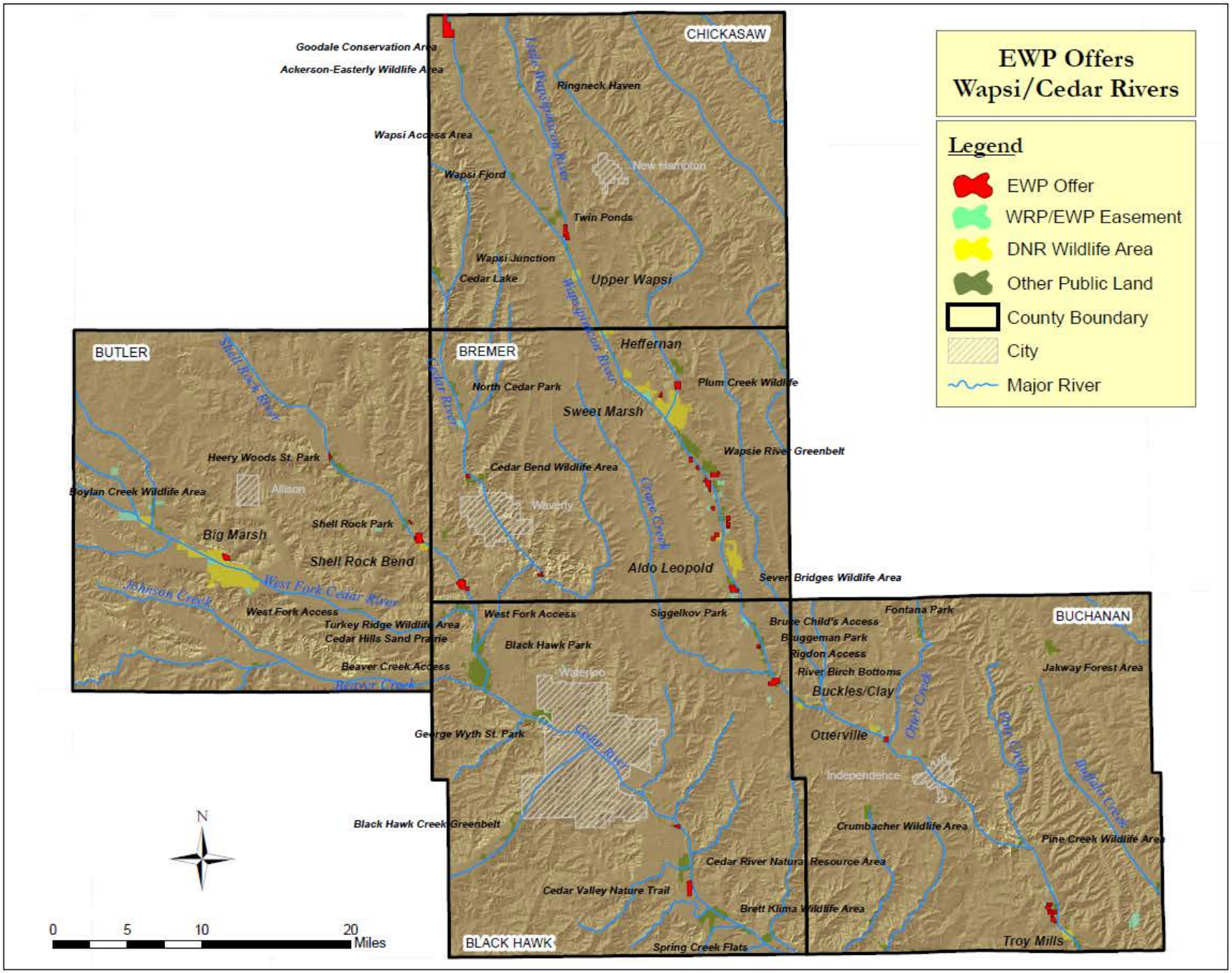
I-JOBS Flood Recovery and Water Quality Improvement Projects

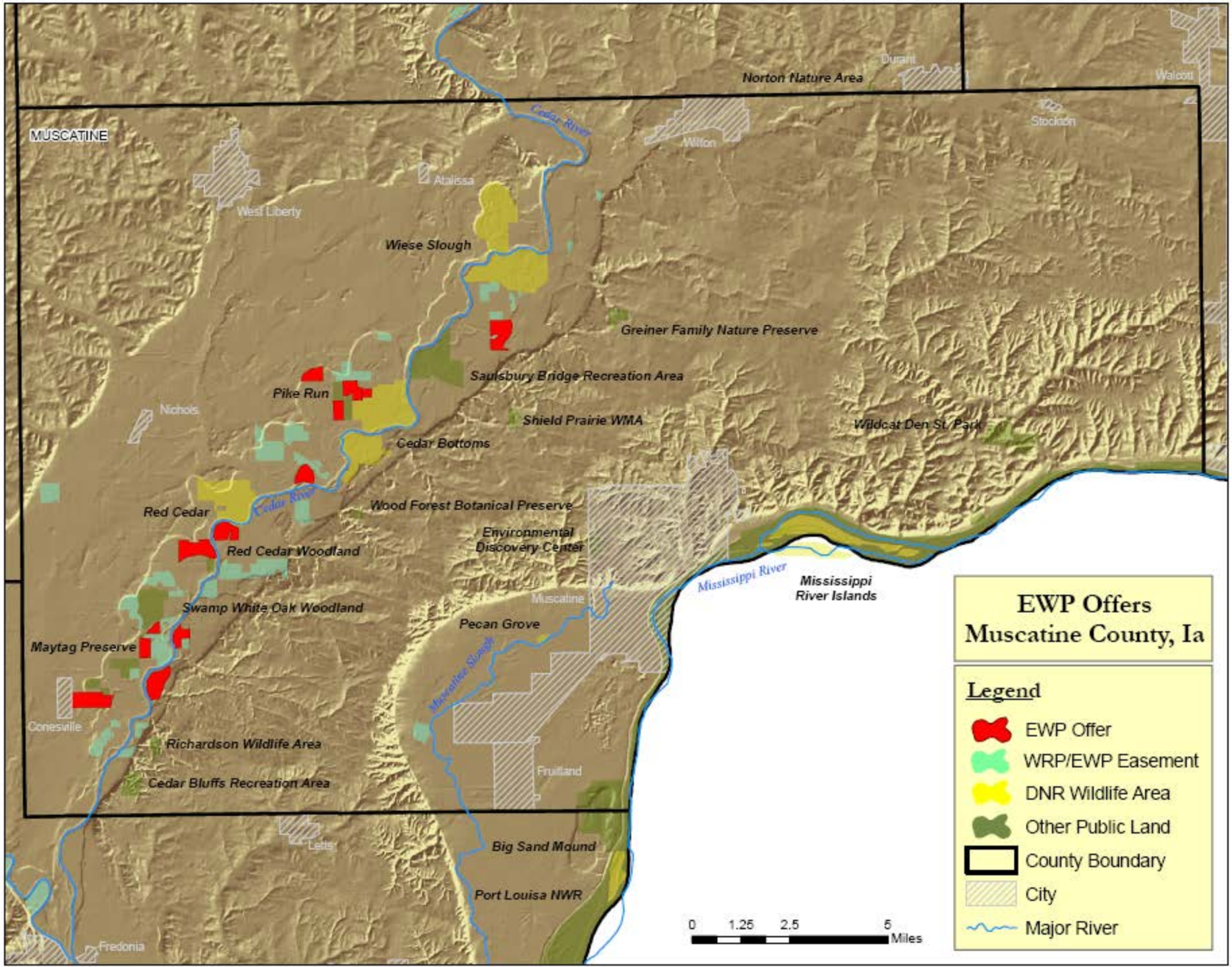


12 Landowners and 2,313 acres in the Cedar River Watershed

I-JOBS Flood Recovery and Water Quality Improvement Projects




EWP Offers
Wapsi/Cedar Rivers
Legend
EWP Offer
WRP/EWP Easement
DNR Wildlife Area
Other Public Land
County Boundary
City
Major River
CHICKASAW
Goodale Conservation Area
Ackerson-Easterly Wildlife Area
Ringneck Haven
Wapsi Access Area
Wapsi Fjord
New Hampton
Twin Ponds
Wapsi Junction
Cedar Lake
Upper Wapsi
Little Wapsipinicon River
Wapsipinicon River
BUTLER
Shell Rock River
Heery Woods St. Park
Allison
Boylan Creek Wildlife Area
Shell Rock Park
Big Marsh
Shell Rock Bend
West Fork Cedar River
Johnson Creek
West Fork Access
Turkey Ridge Wildlife Area
Cedar Hills Sand Prairie
Beaver Creek Access
Beaver Creek
BREMER
Cedar River
Heffernan
North Cedar Park
Plum Creek Wildlife
Sweet Marsh
Wapsie River Greenbelt
Cedar Bend Wildlife Area
Waverly
Crane Creek
Aldo Leopold
Seven Bridges Wildlife Area
West Fork Access
Siggelkov Park
Black Hawk Park
Waterloo
George Wyth St. Park
Cedar River
Black Hawk Creek Greenbelt
Cedar Valley Nature Trail
Spring Creek Flats
BLACK HAWK
Fontana Park
Bruce Child's Access
Bruggeman Park
Rigdon Access
River Birch Bottoms
Buckles/Clay
Otter Creek
Otterville
Independence
Crumbacher Wildlife Area
Cedar River Natural Resource Area
Brett Klima Wildlife Area
BUCHANAN
Jakway Forest Area
Rock Creek
Buffalo Creek
Pine Creek Wildlife Area
Troy Mills
N
0
5
10
20
Miles


EWP Offers
Muscatine County, Ia
Legend
EWP Offer
WRP/EWP Easement
DNR Wildlife Area
Other Public Land
County Boundary
City
Major River
0 1.25 2.5 5 Miles
MUSCATINE
Norton Nature Area
Durant
Walcott
Stockton
Wilton
Atalissa
West Liberty
Wiese Slough
Greiner Family Nature Preserve
Saulsbury Bridge Recreation Area
Pike Run
Nichols
Shield Prairie WMA
Wildcat Den St. Park
Cedar Bottoms
Cedar River
Red Cedar
Wood Forest Botanical Preserve
Environmental Discovery Center
Red Cedar Woodland
Mississippi River
Mississippi River Islands
Muscatine
Swamp White Oak Woodland
Pecan Grove
Maytag Preserve
Muscatine Slough
Conesville
Richardson Wildlife Area
Fruitland
Cedar Bluffs Recreation Area
Letts
Big Sand Mound
Port Louisa NWR
Fredonia

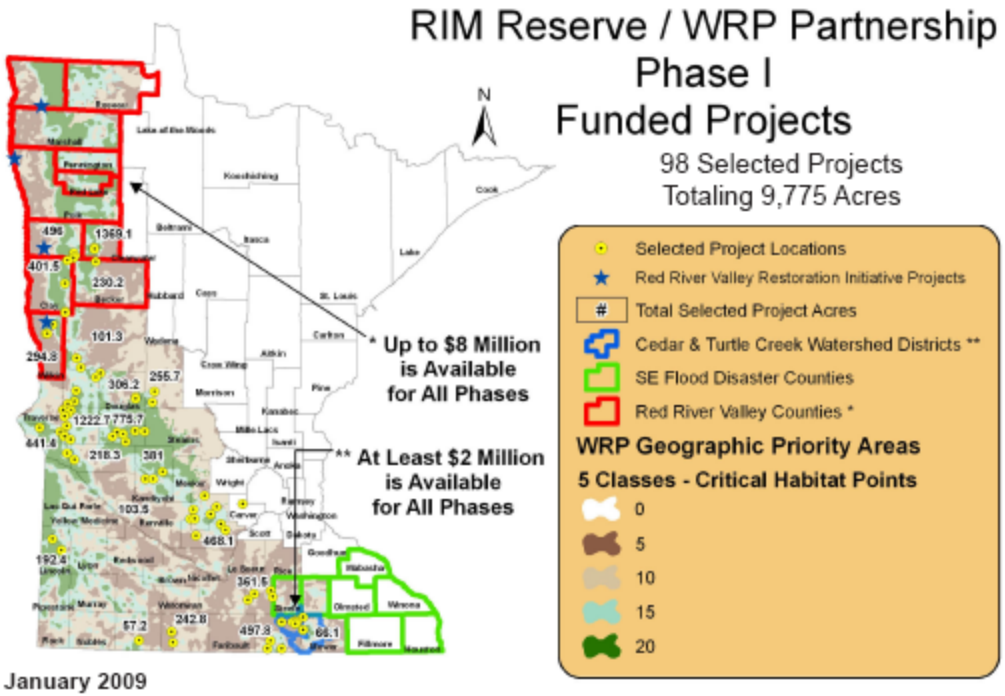
2008 RIM Reserve Outcomes: Wetland and Grassland Restoration

The premier private lands wetland restoration easement program in the nation is a partnership of Minnesota's Reinvest in Minnesota (RIM) Reserve and USDA (NRCS) Wetlands Reserve Program (WRP).

Combining RIM Reserve and WRP allows state funds to leverage Federal Farm Bill conservation dollars. Utilizing both programs results in competitive payment rates to landowners and sharing of restoration costs.

2008 RIM/WRP Outcomes:

- $14.2 million of RIM with $19.1 million of WRP will restore wetlands and adjacent grasslands on 9,775 acres in 2008.
- Minnesota received almost 20% of the nation's WRP funds in 2008 - the first phase of the RIM-WRP partnership.
- Established Red River Valley Initiative focused on stream / river riparian projects.



January 2009

Minnesota Board of Water & Soil Resources

Conservation benefits

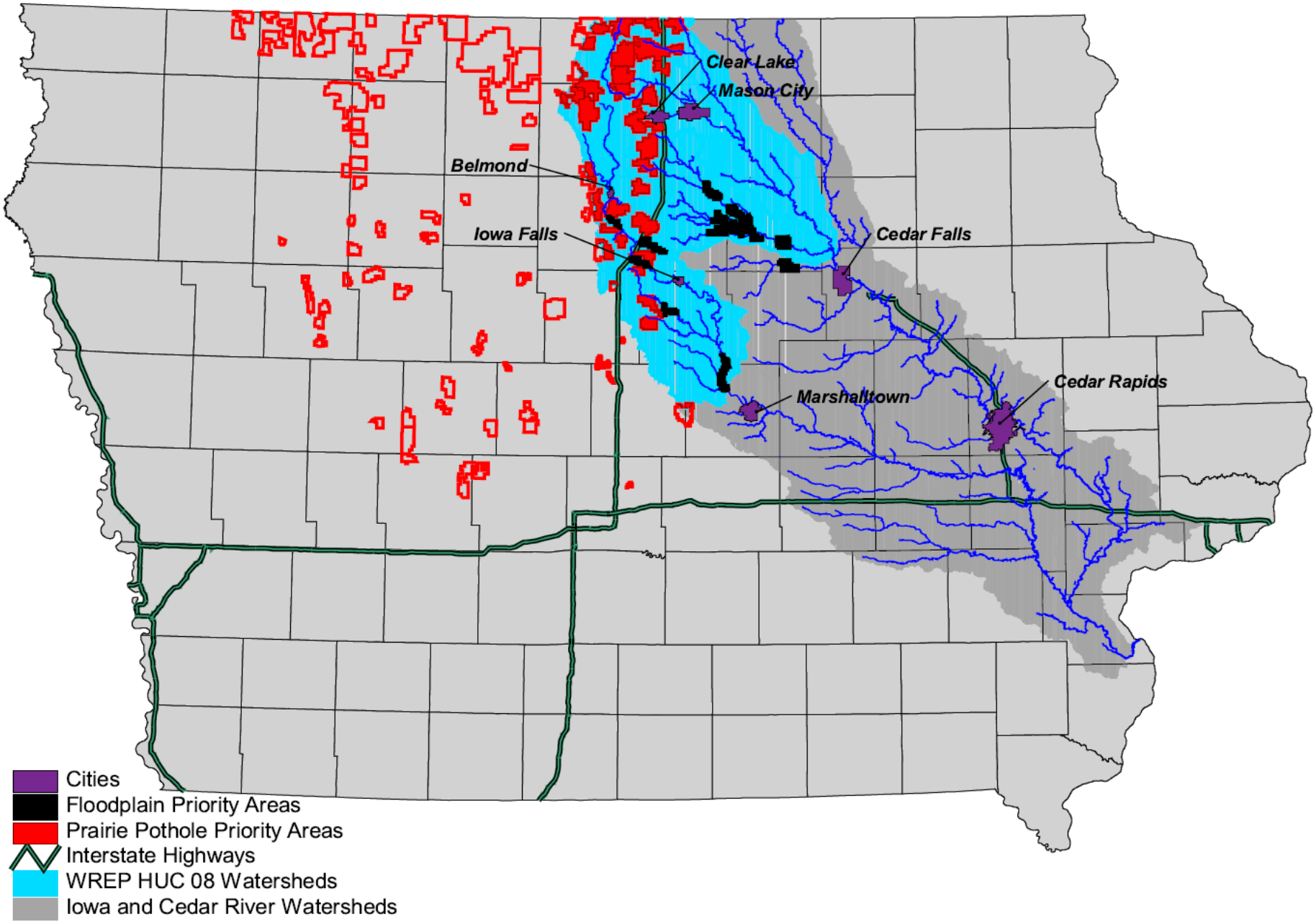
- Retires environmentally sensitive land
- Protects and improves water quality
- Reduces soil erosion
- Enhances fish and wildlife habitat
- Sequesters carbon
- Biofuel production potential

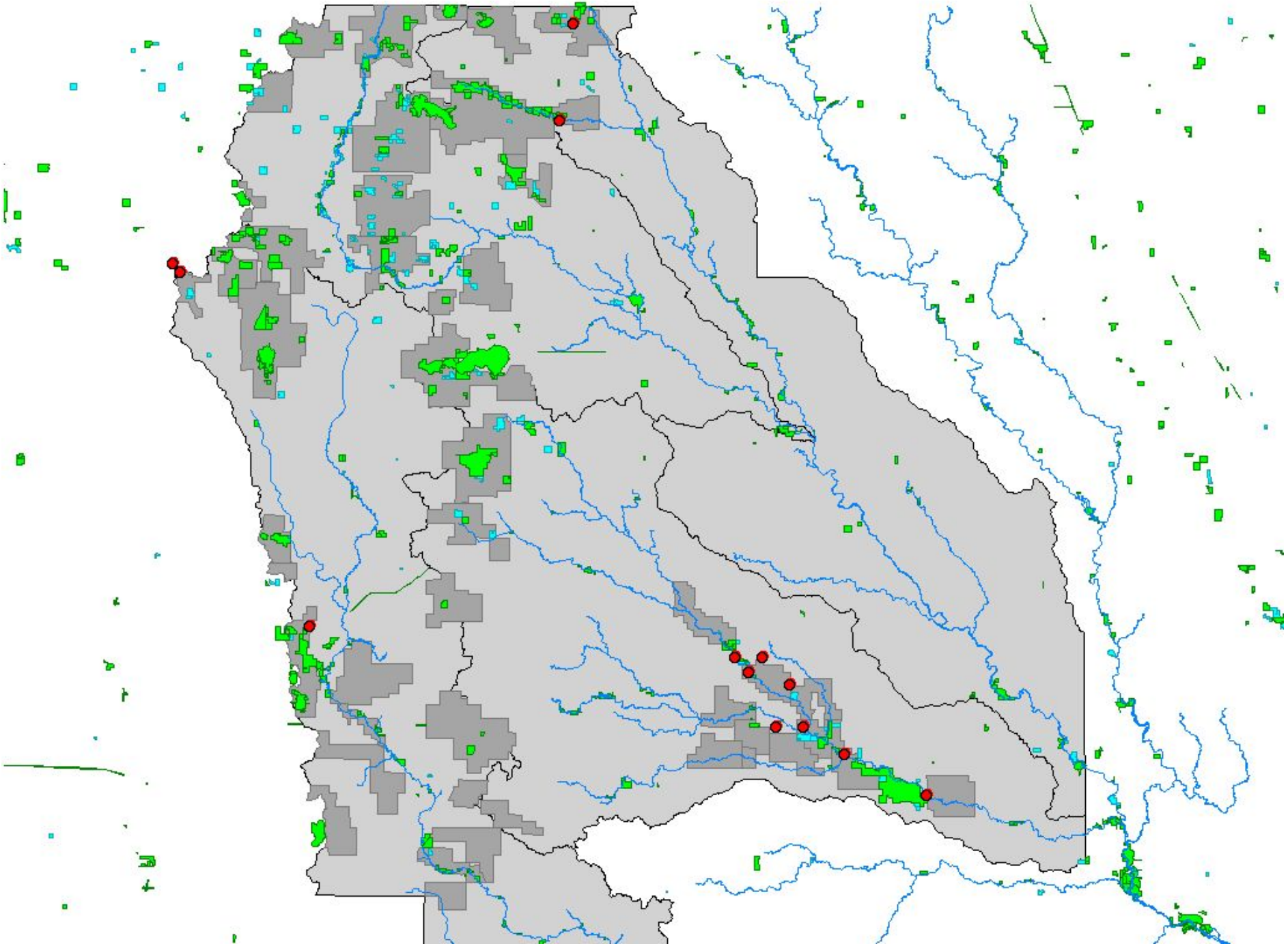
Economic benefits

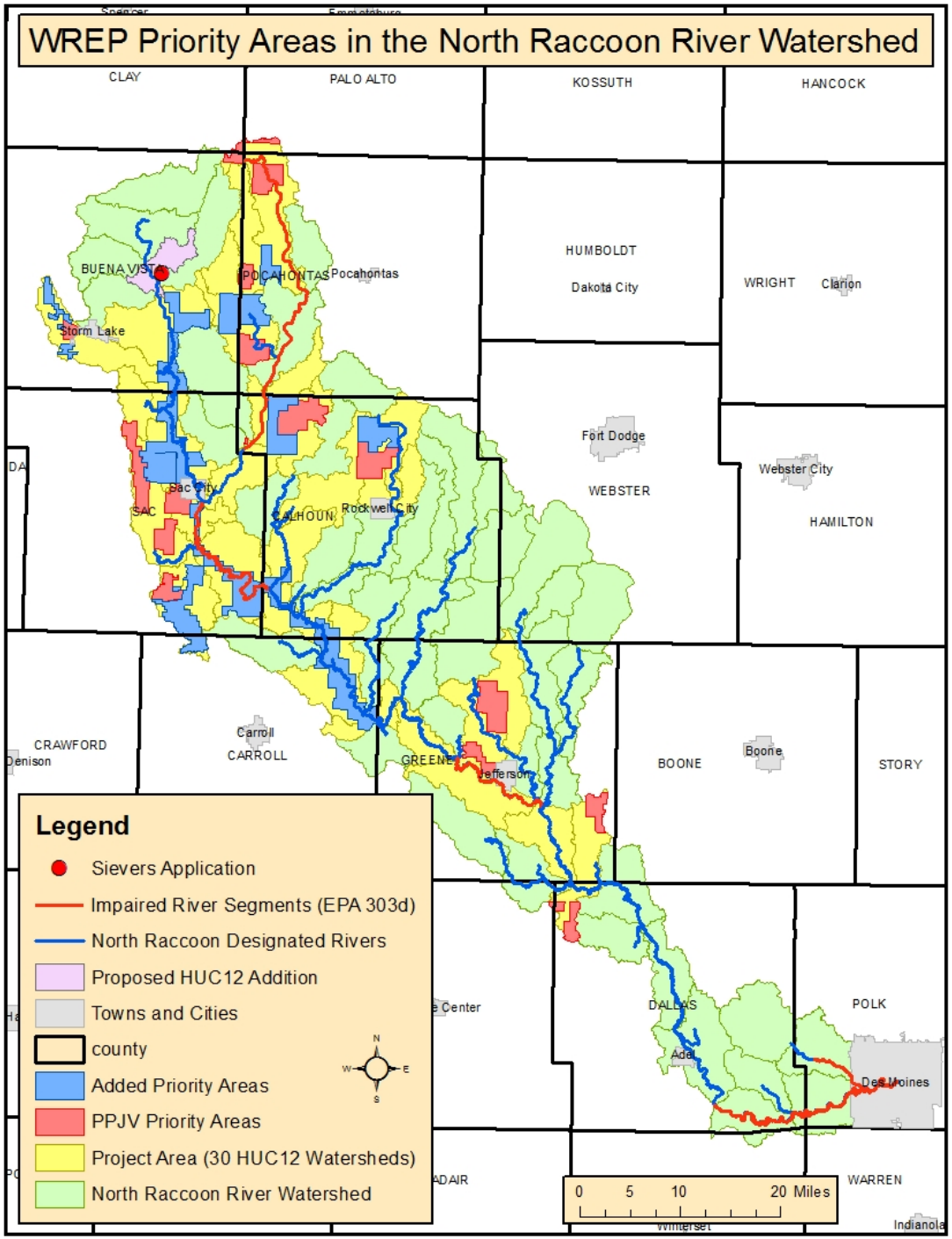
$33.3 million in state dollars for wetland restoration projects in 2008 created and/or supported **527 full-time jobs in Minnesota** when coupled with federal funding at a 1.4:1 ratio.

(Source: "Assessing the Economic Impact of WRP on the Minnesota Economy," USDA NRCS, January 2008).

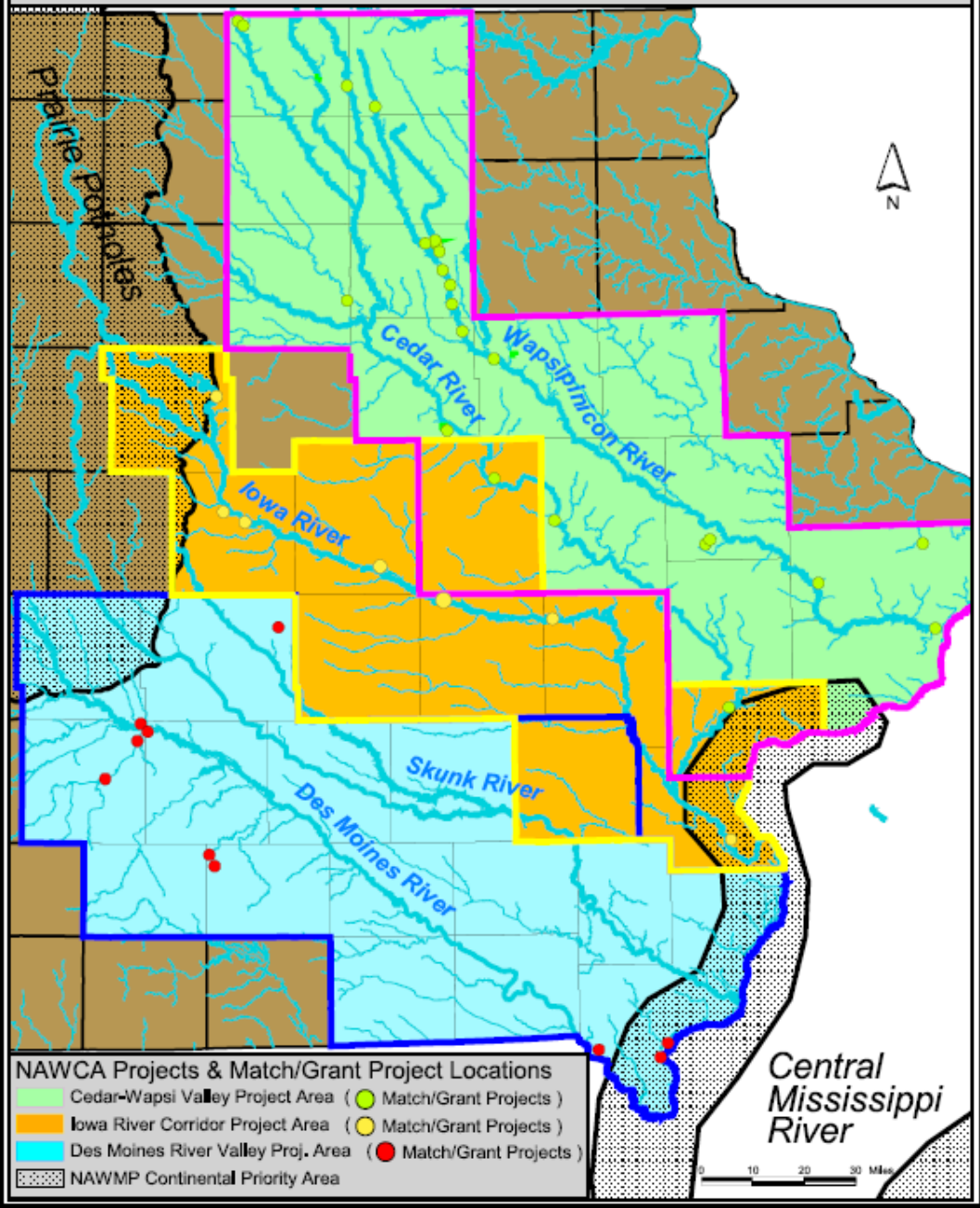
WRP Priority Areas Identified within the Headwaters of the Iowa and Cedar Rivers






WREP Priority Areas in the North Raccoon River Watershed
CLAY
PALO ALTO
KOSSUTH
HANCOCK
HUMBOLDT
Dakota City
WRIGHT
Clarion
BUENA VISTA
POCAHONTAS
Pocahontas
Storm Lake
Fort Dodge
WEBSTER
Webster City
HAMILTON
Sac City
SAC
CALHOUN
Rockwell City
CRAWFORD
Denison
Carroll
CARROLL
GREENE
Jefferson
BOONE
Boone
STORY
DALLAS
Adel
POLK
Des Moines
ADAIR
WARREN
Indianola
Legend
Sievers Application
Impaired River Segments (EPA 303d)
North Raccoon Designated Rivers
Proposed HUC12 Addition
Towns and Cities
county
Added Priority Areas
PPJV Priority Areas
Project Area (30 HUC12 Watersheds)
North Raccoon River Watershed
N
W
E
S
0 5 10 20 Miles

Map 2. Active NAWCA Projects on Mainstem Tributaries of the Mississippi River Serving as Major Migration Corridors Between the Central Mississippi River and Prairie Pothole Region (2 NAWMP Priority Areas)

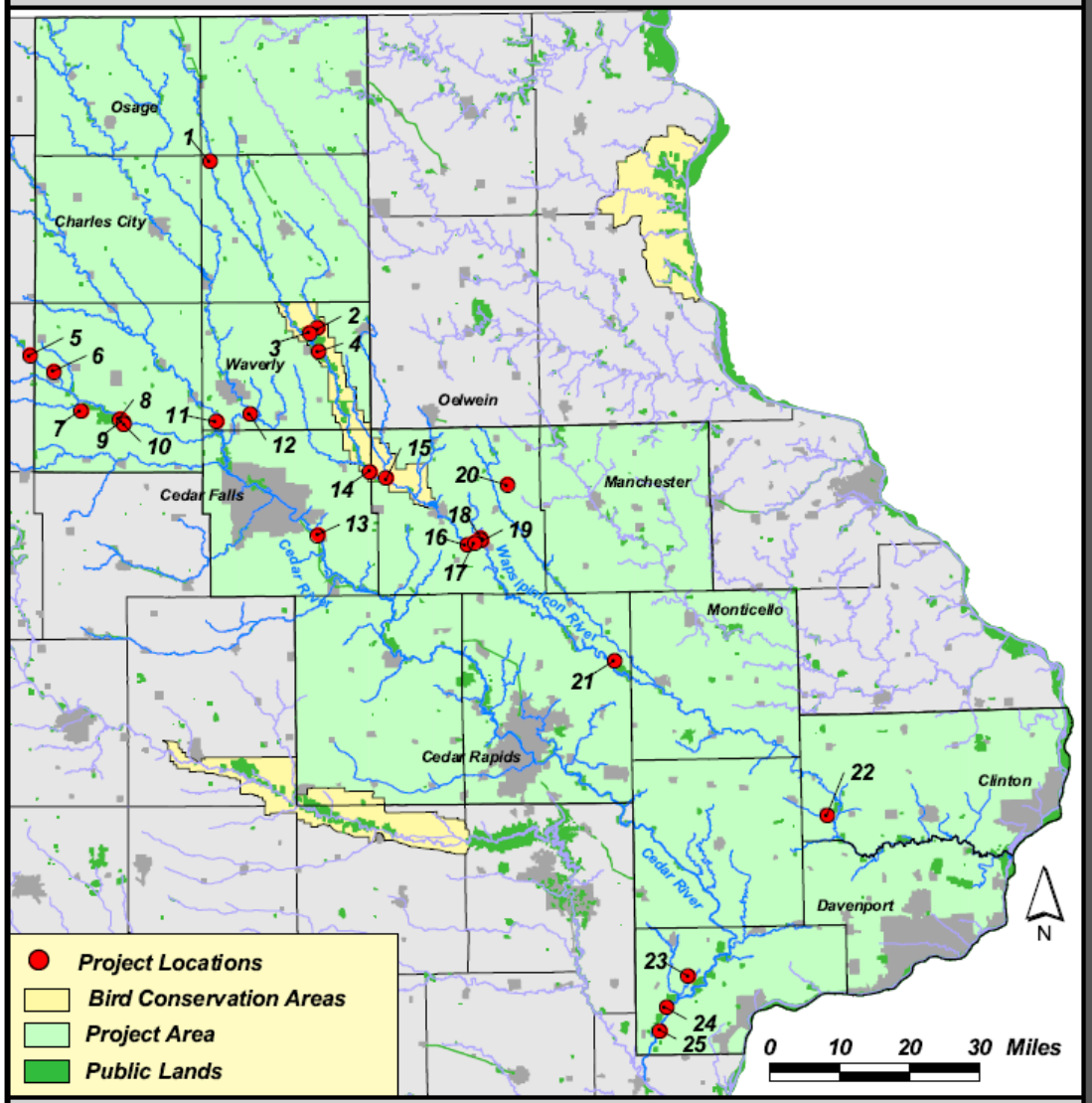


Cathy and Fred Eastman
Hanson Foundation
Pheasants Forever – Hamilton County Chapter
E.A. Easter Family Foundation
Pheasants Forever – Dickinson County Chapter
Ducks Unlimited
Robert and JoAnne Duffy
Dickinson County Water Quality Commission
Curt Kemmerer
Timberfin Farms
Pheasants Forever – Iowa State University Chapter
Pheasants Forever – Clay County Chapter
Delta Waterfowl Foundation, Inc.
Central Lake Improvement & Protection Association
Rick Berglund
Pocahontas County Conservation Board
Pheasants Forever – South Butler Chapter
Greg Sander
Arvil and Sandra Stille
Clear Lake Veterinary Hospital
Ed Mulder
Marietta Kint
Pheasants Forever – Carroll County Chapter
Donald Morgan
Bill Rorebeck
James McCoy and Charlotte McCoy
Guy Zenner
Gordon Rorebeck
Benchmark Agribusiness, Inc.
Iowa Natural Heritage Foundation
Big Wall Lake Cabin Owners
Staley Real Estate Trust
Dan Bergeron
Franklin County Conservation Board
Pheasants Forever - Iowa State Council
Charles and Elaine Lenze
Okoboji Protective Association
Neil and Pat Heiser
Whitetails Unlimited – Little Wall Area Chapter
Michael Hawkins
Van Diest Supply
Wayne and Margaret Northey
Alan L. Blum
Kinney Lindstrom Foundation, Inc.
Worth County Conservation Board
Iowa Prairie Network
William Fitzgerald
City of Spencer
Prairie Lakes
Ted R. Fariss Estate
David Wetsch
Dennis Hennignsen
Jim Nedtwig
Curtis Bradley
Ed Thelen
Douglas Watson
Chris and Sandy LaRue
Charles J. Walker
NAWCA Partners
Berkley and Elinor Bedell
Mark and Peg Gulick
Eric Anderson
Iowa Ornithologists' Union
Pheasants Forever – Lyon County Chapter
Ike Petersen
Chad Loreth
Jerermy Thilges
Greene County Conservation Board
Hilker Farms
Tom Maser
Butler County Conservation Board
Dickinson County Soil & Water Conservation District
Sam Vanourney
Dean Nelson
Iowa Native Plant Society
Palo Alto County Conservation Board
Charles and JoAnne Stills
Erwin Wackerbarth, Jr.
Tim and Joan Gronstal
Kyle and Shelly Bobinet
Pheasants Forever – Buena Vista County Chapter
Ducks Unlimited – Carroll County Chapter
Richard and Nancy Heyer
Pure Fishing
Gary Fischer
Clay County Conservation Board
Pheasants Forever – Cherokee County Chapter
John S. Lowenberg Fund
John and Carol Lea Cotton
Pheasants Forever – Palo Alto County Chapter
Sac County Sportsman's Club
Steve Anderson
William A. Van Orsdel Family Foundation
Hamilton County Conservation Board
Scott J. Taylor
Gretchen Gronstal Graff
Al Masen
Pheasants Forever – Kossuth County Chapter
Pheasants Forever – Sac County Chapter
John B. Synhorst II
Robert Hellyer
David and Colleen Kessenich
Harry and Joann Perkins
Pheasants Forever – Calhoun County Chapter
East Okoboji Lakes Improvement Corporation

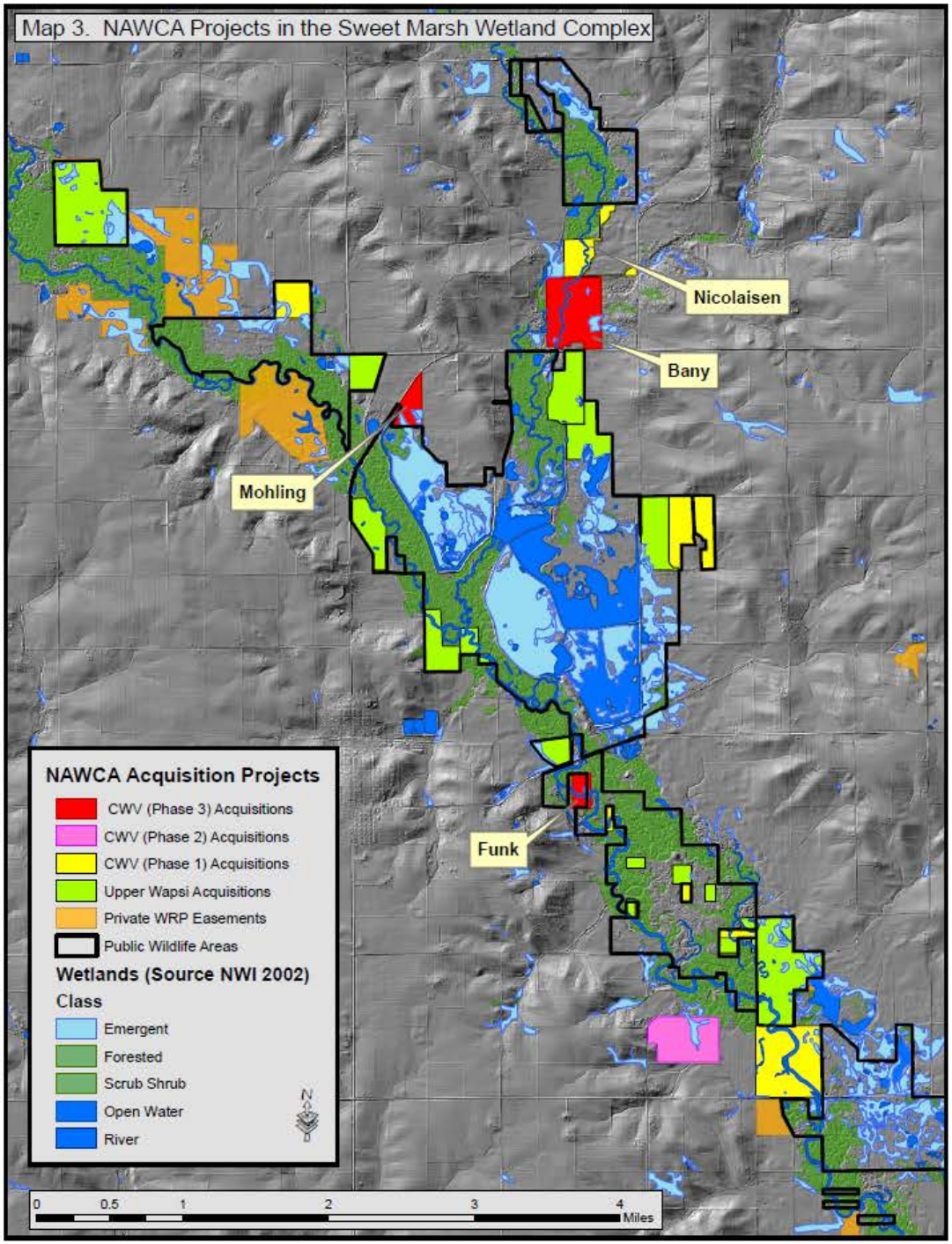
Raymond and Edythe Jennett Family
Whitetails Unlimited – Carroll County Chapter
Spirit Lake Protective Association
Dean Strom
Palo Alto County Soil & Water Conservation District
Robert Stille
Dickinson County Conservation Board
Roger Neuberger
Terry Hora
Bruce Mountain
LaVonne Foote Estate
Tom Maser
Audubon Society – Central Iowa Big Bluestem Chapter
Okoboji Foundation
Pheasants Forever – Webster County Chapter
David C. White
Iowa Lakes Community College Conservation Club
Hancock County Conservation Board
Story County Conservation Board
Kossuth County Conservation Board
Pheasants Forever – Winnebago/Hancock Chapter
Winnebago County Conservation Board
Sheila Swift
Pheasants Forever – Grundy County Chapter
Pheasants Forever – Northern Prairie (Worth) Chapter
Hertz Farm Management
Matt Anderson
Michael Pederson
Joseph and Claudia Halbur
Pheasants Forever – Franklin County Chapter
Dr. and Mrs. Stephen B. Rose
Michael Mahn
Wright County Conservation Board
Izaak Walton League – Emmet County Chapter
The Messengers of Healing Winds Foundation
Pocahontas County Soil & Water Conservation District
Al Maser
Pheasants Forever – North Butler Chapter
Doug Chafa
Don Herrig
Mike Levy
Ron Howing
Michael and Carolyn Morse
Brad and Elizabeth Harman
Calhoun County Economic Development Corporation
Todd and Karey Bishop
Robert P. Olinger
Polaris Industries
Audubon Society – Northern Iowa Prairie Lakes Chapter
Calhoun County Soil & Water Conservation District
Prairie Lakes
Ron and Linda Peterson
Thomas R. Hoff
Pheasants Forever – Mitchell County Chapter
NAWCA Partners
Paul and Kathy Owens
Michael C. Clark
Richard and Judy Bishop
Murray J. McMurray
Marcus and Janet Neppl
Carol Gronstal
Lon E. Helgen
DeWayne Kammin Estate
Story County Conservation Partners
Gerald and Jane Kuehn
David Hoffman
Joshua Gansen
Rob and Ria Hubbard
Lee and Nancy Schoenewe
Brian Hellyer
Dale L. Garner
Pheasants Forever – Iowa Pioneer II (Cerro Gordo) Chapter
Lannie R. Miller
Lawrence and Jody Watts
Scott and Susan Lichty
James and Paula Meyer
National Wild Turkey Federation – Iowa Chapter
Waterfowl Association of Iowa, Inc.
Thomas and Kathryn Whitson
W.C. and Diane Byerly
Iowa Department of Natural Resources
Pheasants Forever – Story County Chapter
Pheasants Forever – Pocahontas County Chapter
Carylann Mucha
Randall and Bonnie Forburger
Bartels, Bartels, and Fox, Ltd.
Izaak Walton League – Rice Lake Chapter
Pheasants Forever – Four Seasons Chapter
Carroll County Conservation Board
Ed and Paulette Reveiz
Dr. William L. Brenny
Buena Vista County Conservation Board
Winnebago Industries Foundation
John and Joan Shanafelt
Larry and Kathy Sather
Sue and Emil Richter
Calhoun County Conservation Board
Camille and J. Edward Power Fund

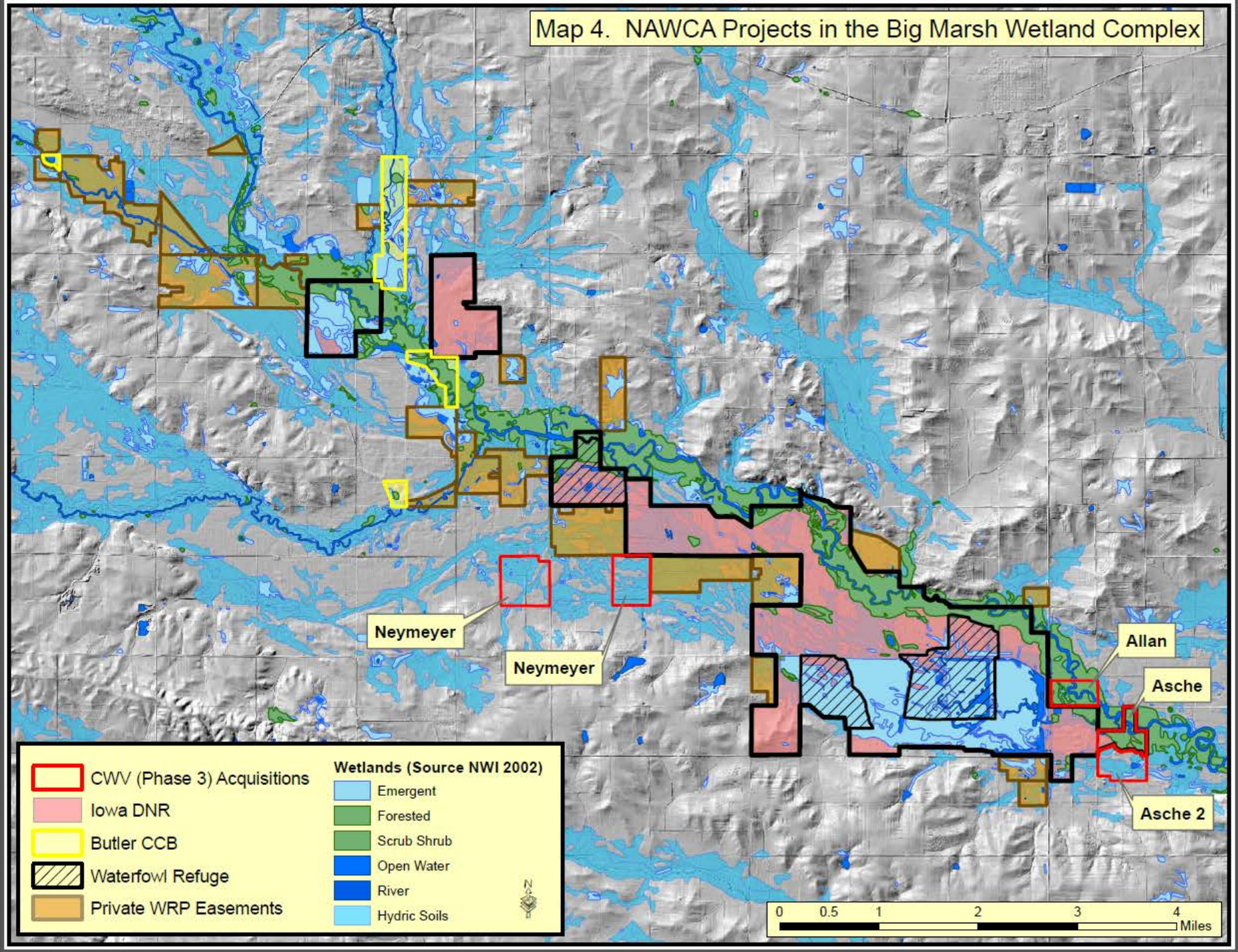
Map 1. Match and Grant tracts in the Cedar-Wapsi Valley 3 Project Area

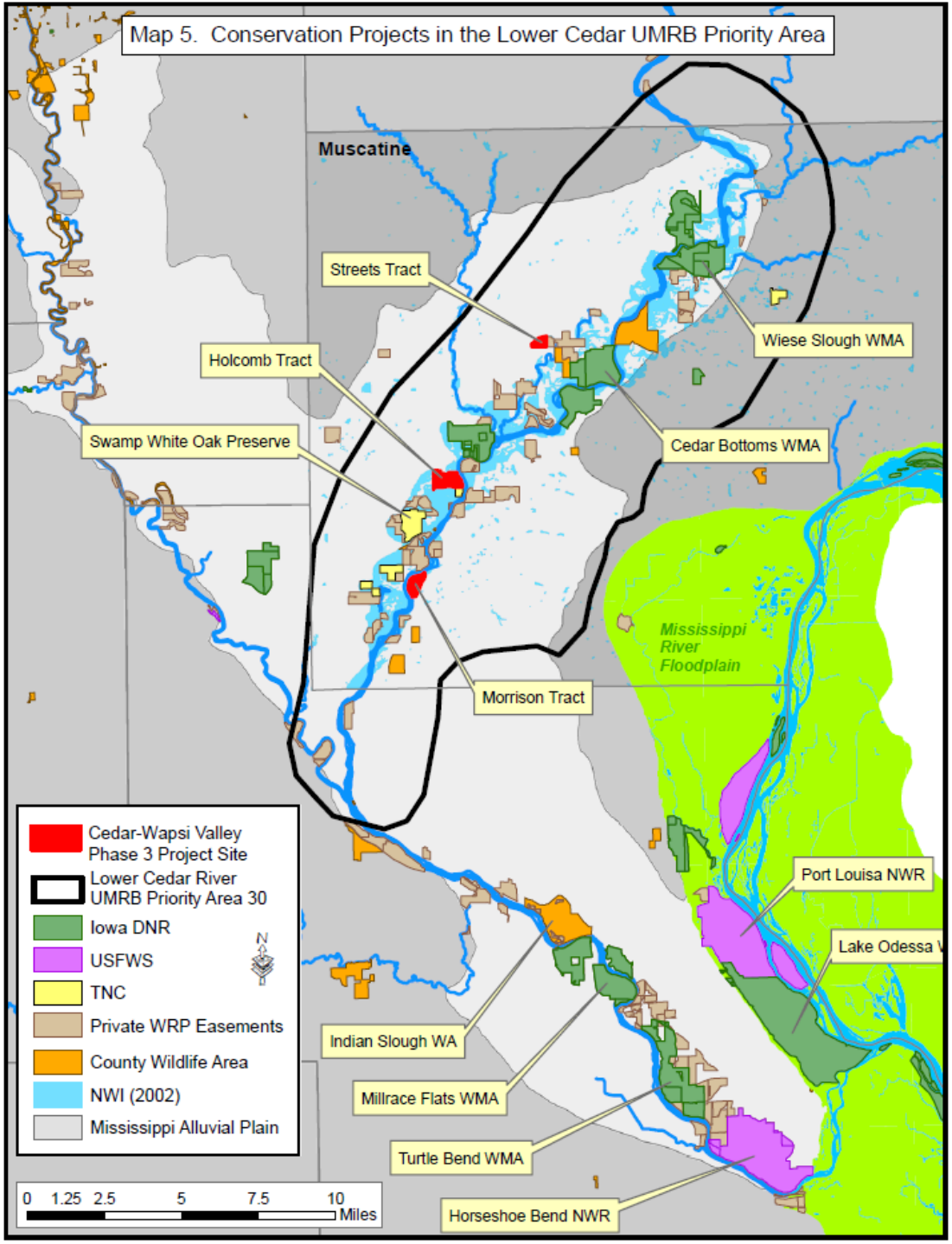
This map depicts the locations of the 25 acquisition tracts included in the proposal. Grant funds are requested to assist in 11 of the 25 acquisitions.



1. Upper Wapsi WMA
2. Sweet Marsh WMA
3. Sweet Marsh WMA
4. Wapsi River Greenbelt (Bremer CCB)
5. West Fork WMA
6. North Butler Wilderness WA (Butler CCB)
7. Big Marsh (WMA)
8. Big Marsh WMA
9. Big Marsh WMA
10. Big Marsh WMA
11. Shell Rock WMA
12. Ingawanis Woodland (Bremer CCB)
13. Cedar River WMA
14. Wilson's Woods (Black Hawk CCB)
15. Mickey Fox WA (Buchanan CCB)
16. Liberty Township WA (Buchanan CCB)
17. Liberty Township WA (Buchanan CCB)
18. Cedar Rock Recreation Area
19. Cedar Rock WMA
20. Quigley Prairie (Buchanan CCB)
21. Matsell Bridge WA (Linn CCB)
22. Wheatland WA (Clinton CCB)
23. Pike Run WMA
24. Swamp White Oak Preserve (TNC)
25. Swamp White Oak Preserve (TNC)


Map 3. NAWCA Projects in the Sweet Marsh Wetland Complex
Nicolaisen
Bany
Mohling
Funk
NAWCA Acquisition Projects
CWV (Phase 3) Acquisitions
CWV (Phase 2) Acquisitions
CWV (Phase 1) Acquisitions
Upper Wapsi Acquisitions
Private WRP Easements
Public Wildlife Areas
Wetlands (Source NWI 2002)
Class
Emergent
Forested
Scrub Shrub
Open Water
River
N
0
0.5
1
2
3
4
Miles


Map 4. NAWCA Projects in the Big Marsh Wetland Complex
Neymeyer
Neymeyer
Allan
Asche
Asche 2
CWV (Phase 3) Acquisitions
Iowa DNR
Butler CCB
Waterfowl Refuge
Private WRP Easements
Wetlands (Source NWI 2002)
Emergent
Forested
Scrub Shrub
Open Water
River
Hydric Soils
N
0 0.5 1 2 3 4
Miles


Map 5. Conservation Projects in the Lower Cedar UMRB Priority Area
Muscatine
Streets Tract
Holcomb Tract
Swamp White Oak Preserve
Morrison Tract
Wiese Slough WMA
Cedar Bottoms WMA
Mississippi River Floodplain
Port Louisa NWR
Lake Odessa
Indian Slough WA
Millrace Flats WMA
Turtle Bend WMA
Horseshoe Bend NWR
Cedar-Wapsi Valley Phase 3 Project Site
Lower Cedar River UMRB Priority Area 30
Iowa DNR
USFWS
TNC
Private WRP Easements
County Wildlife Area
NWI (2002)
Mississippi Alluvial Plain
N
0 1.25 2.5 5 7.5 10 Miles