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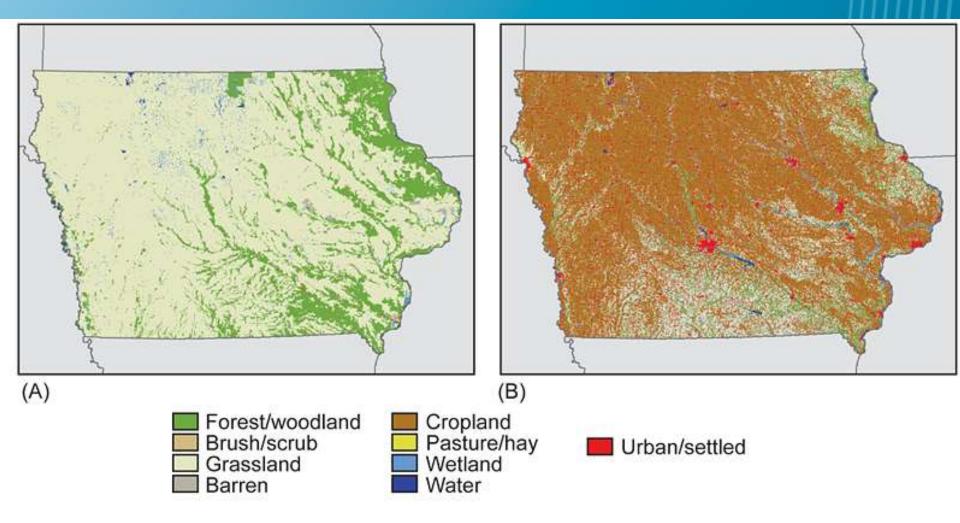
#### **Topics**

- lowa's nonpoint source pollution problems
- SRF program background
- Water Resource Restoration Sponsored Projects
- Prairie Pothole Joint Venture





#### **lowa's Landscape Transformed**



"Nowhere have landscape and habitat changes been more dramatic than in lowa."
--U.S. Geological Service









## Clean Water SRF Background



1989 - 2002

LOW-INTEREST LOANS FOR

wastewater infrastructure only

WWW.iowasrf.com

#### 2003 - Present

## Wastewater and Sewer

Onsite Septic Systems

**Planning and Design** 

**Lake and Wetland Restoration** 

Soil, Sediment, and Nutrient Management

**Brownfield Cleanup** 

**Energy and Water Efficiency** 

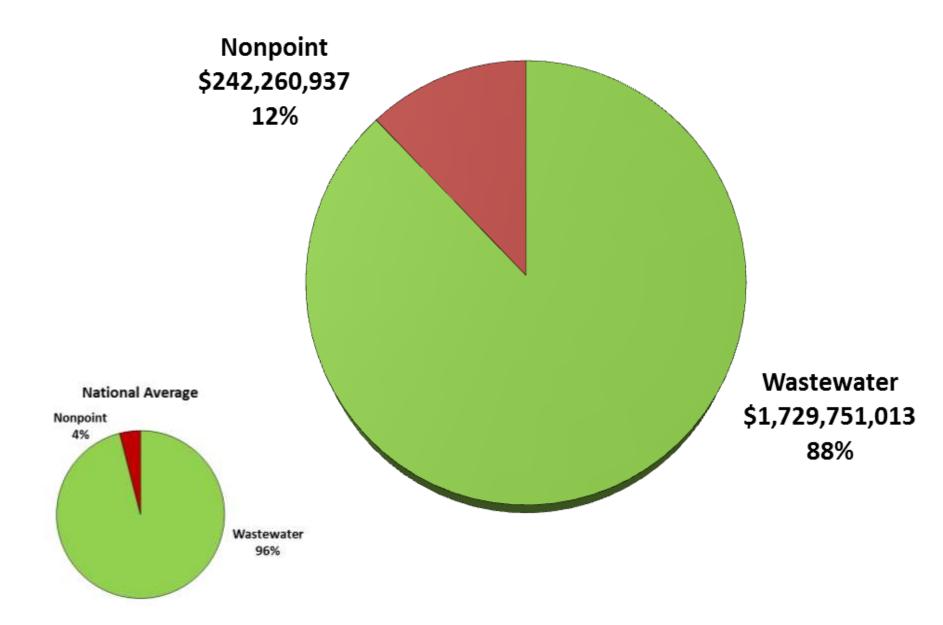
**Urban Stormwater** 

Source Water Protection

Sponsored Projects

**Landfill Closure** 

#### **Cumulative Funding of Wastewater vs. Nonpoint**

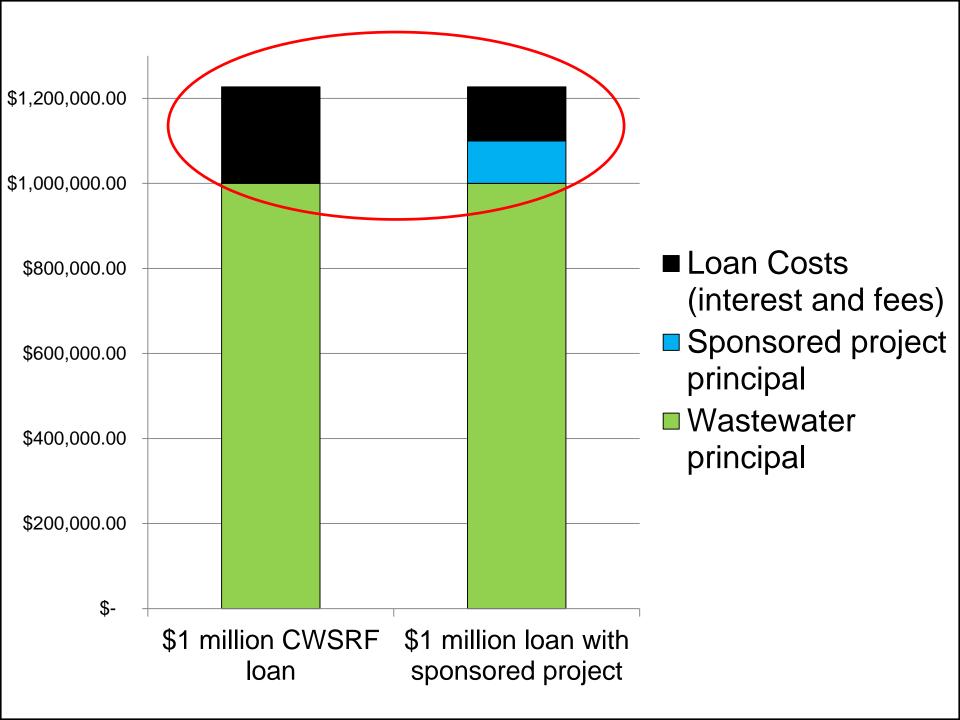


#### State Revolving Fund Federal Capitalization FREELINCH Grants Loan Proc Bond Proceeds Principal Repayments Repayments, Bond State Match Bonds Low-Interest Loans Leveraged Bonds

# Water Resource Restoration Sponsored Projects

- A financing tool to address nonpoint source problems
- lowa legislature allowed the use of sewer revenues to finance locally directed, watershed-based projects
- Implemented through the Clean Water SRF



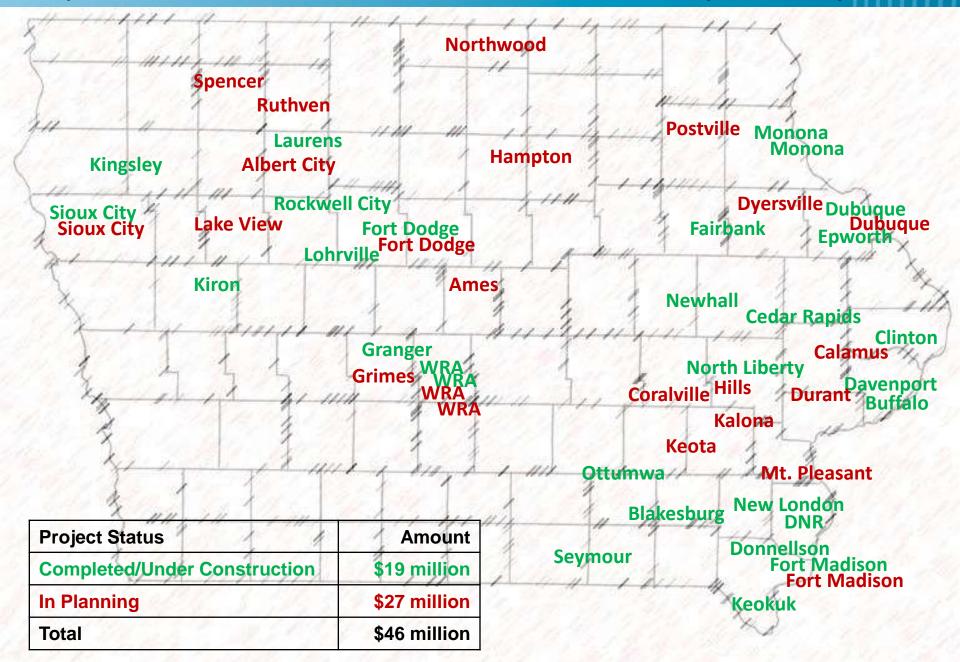


## **Sponsored Projects**

- Started with pilot project in 2013 with City of Dubuque on Mississippi River
- Opened up to other communities in 2014
- Set aside \$10 million to \$15 million per year
- Interest rate hit to the Clean Water SRF how much interest can we afford to lose?
- Take applications twice per year



#### **Project Status as of November 2016 – Water Resource Restoration Sponsored Projects**



#### City of Monona (NE IA, pop. 1500





- Runoff from gravel parking lot at municipal pool polluting creek in Turkey River Watershed
- Permeable paving infiltrates storm water and reduces runoff
- Wastewater loan \$2.75 million
- Sponsored project amount \$245,000

## City of Sioux City (NW IA pop. 82,000)



- Restored native prairie and oak savanna in city park
- Stabilized eroding streambanks on creek leading to Missouri River
- Multiple wastewater loans
- Sponsored project amount \$1,440,000

## City of Fort Dodge (Central IA, pop. 24,000)





- Multiple loans, multiple sponsored projects
- Stream corridor restoration in city park with storm water management
- Support for Badger Lake watershed project
- Dam removal on Des Moines River is next project
- Loan amounts \$49 million
- Sponsored project budget approx. \$3.9 million

#### City of Northwood

(practically in Minnesota, pop. 2,000)

- Supporting installation of nutrient removal wetlands on agricultural landscape
- Hoping to generate water quality credits for future use
- Wastewater treatment upgrade \$8.9 million
- Sponsored amount \$890,000
- Other funding from Iowa Department of Agriculture and Land Stewardship and Iocal drainage district





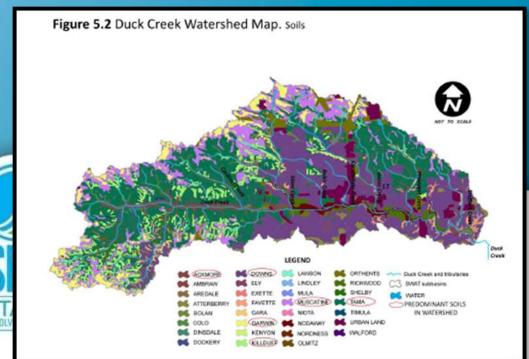
#### **Program Outcomes**

 Demonstrate nonpoint source water quality practices such as green infrastructure

Encourage watershed-based planning and partnerships

Build technical expertise in lowa's design and

construction community





#### Wetland Restoration in the

#### Prairie Pothole Region

 Originally 100,000 acres of prairie potholes across the Great Plains

Natural shallow lakes and large marshes

Provided ecosystem services – wildlife habitat, water

quality

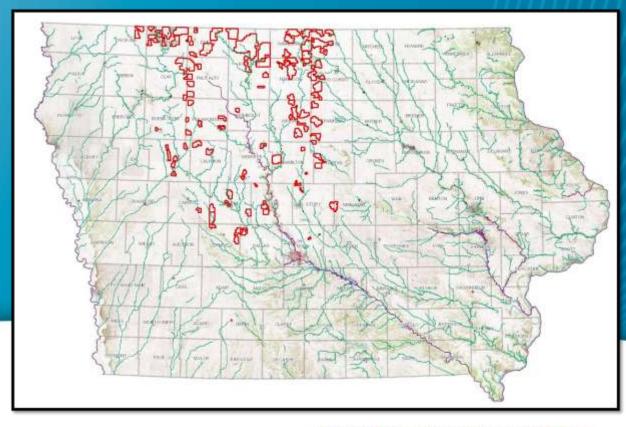
 In Iowa, 90% of potholes have been drained for agricultural production





#### **Prairie Pothole Joint Venture**

- In Iowa, DNR and Fish and Wildlife Service have identified 100 priority areas for wetland restoration
- Must be located in historic high density wetland landscape with high potential for restoration of ecological functions



## SRF Provides a Financing Tool

- Land acquisition of priority parcels is unpredictable
- Local, state, and federal partners may not have funding when land comes on the market
- Iowa Natural Heritage Foundation purchases land using SRF loan through participating lender, often at 0%
- INHF holds land for 3-5 years while public agency assembles funding

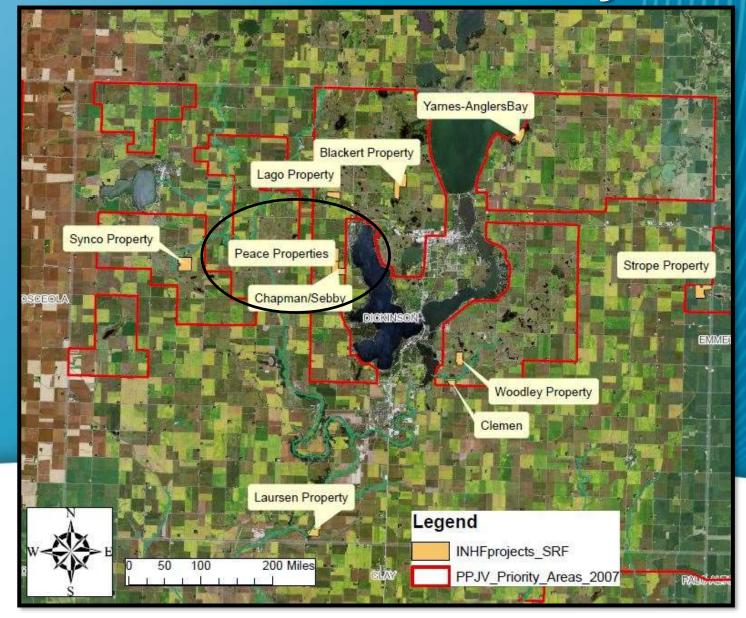


#### Rolling Line of Credit for PPJV

- CWSRF sets aside funds annually for upcoming loans at 0% interest
- In 2008, a \$10 million rolling line of credit good for 10 years was approved for PPJV loans
- As loans are repaid, more dollars available for additional loans
- Provides certainty and flexibility



#### **PPJV – Dickinson County**





- One of Iowa's Great Lakes natural glacial lakes
  - High Quality Resource Water
  - Drinking water source
- "The primary threats to the region's water quality are from agricultural nutrients, soil erosion, human and livestock waste, storm water contaminants, urban development and loss of natural wetlands."













- Funding Sources for loan repayment and restoration:
  - U.S. Fish and Wildlife Service federal
    - Waterfowl Production Areas (WPA)
    - North American Wetlands Conservation Act (NAWCA)
  - EPA 319 Program federal
  - Iowa Lake Restoration Program state
  - Dickinson County SWCD state
  - Iowa State Duck Stamp state
  - Dickinson County Water Quality Commission local
  - Iowa Natural Heritage Foundation private nonprofit (donations)
  - LaVonne Foot Estate private



