Southern Iowa Development and Conservation Authority

Annual Report

Reporting Period: July 1, 2012—June 30, 2013

TO: Office of the Governor
The Department of Management
The Legislative Fiscal Bureau
The Division of Soil Conservation, Iowa Department of Ag and Land Stewardship

Mission of the Southern Iowa Development and Conservation Authority:
To develop and coordinate plans for projects related to the unique natural resource, rural development, and infrastructure problems of counties in the most fragile areas of the southern Iowa drift plain.

Member counties: Appanoose, Clarke, Davis, Decatur, Jefferson, Lucas, Monroe, Van Buren, Wayne, Wapello

The Southern Iowa Development and Conservation Authority (SIDCA) was established in 1999 in response to soil erosion, water resource degradation, and stream channel destabilization linked to the fragile glacial till soils of southern Iowa. These concerns largely resulted from the conversion of grassland to cropland. Land conversion was spurred by economic pressures of past federal agricultural policies that had disregard for the fragility of southern Iowa soils and incompatibility with subsidized commodity production.

Soil erosion majorly impacted this region by damaging rural infrastructure including public roads and bridges, degrading stream water quality and riparian habitat, affecting other public and private improvements, and severely threatening the region's potable water supply. Reducing soil erosion, preventing sedimentation, and stopping the entrance of nutrients and pesticides into water resources are necessary to protect the rural infrastructure in southern Iowa. Important protection measures include structural improvements and the re-establishment of grasslands for sustainable economic uses.

A. OPERATION AND ACCOMPLISHMENTS

SIDCA completed the following activities during Fiscal Year 2013:

- **Election of Officers** – Accomplished in accordance with the organization's Constitution and Bylaws, the officers were elected to staggered two-year terms. In June 2013, the SIDCA Board of Directors President and Secretary were elected.
- **Project Reviews** - See section D.
- **Pursuit of State Legislative Funding** – A legislative appropriation was not received during this reporting period.

FY 2013 Board of Directors:

County	Representative	Position
Appanoose	John Glenn	Vice– President
Clarke	Don Reasoner (through December 2012) Marvin McCann (starting January 2013)	Director
Davis	Ron Bride	Director
Decatur	J.R. Cornett	Director
Jefferson	Richard Reed	Treasurer
Lucas	Larry Davis	President
Monroe	John Hughes	Director
Van Buren	Ted Nixon	Director
Wayne	John Sellers	Secretary
Wapello	Steve Siegel	Director

Appanoose County: "Appler" Project located in Moulton Watershed. The project replaced a deteriorating 1964 structure so the road could continue to be usable. The structure also traps silt and improves water quality to the Chariton River. Project completed February 2013.

Total cost: $34,772. SIDCA funding: $17,386.

B. BUDGET, RECEIPTS, AND ACTUAL EXPENDITURES DURING THE 2013 FISCAL YEAR.
The SIDCA financial records are tracked on a cash basis.

Non-state funds (also called Membership Funds) are tracked in a separate savings account (see following page).

	Checking Account *State Appropriated Funds + Membership Funds*	**Savings Account** *State Appropriated Funds*
Opening Balance — July 1, 2012	$4,192.28	$857,187.04
Income		
Interest Earned	$6.85	$3,003.71
Transfers From Savings	$320,733.73	
Transfers From Membership	$4,955.91	
Expense		
Bank Fees and taxes	$7.77	
Appanoose County Projects (4)	$79,122.42	
Clarke County Project (1)	$171.00	
Davis County Project (1)	$62,100.00	
Jefferson County Projects (3)	$118,770.00	
Lucas County Projects (2)	$25,161.59	
Van Buren Project (1)	$23,077.50	
Wapello County Project (1)	$11,803.22	
Wayne County Project (1)	$528.00	
Transfers to Checking		$320,733.73
Administration Fees (Paid by Membership Account Transfers)	$6,053.41	
Ending Balance — June 30, 2012	$3,093.86	$539,457.02
Additional Funds Obligated for Approved Projects*		$505,360.00
Balance of Unobligated Funds as of June 30, 2013**		**$34,097.02**

*Completion of several projects with obligated funds have been delayed due to permitting.

** Unobligated funds equal just $3,400 per county (times 10 counties). Most of these funds would have been obligated if county engineers had not been busy with flood and high rain fall issues in their counties in 2010-2012, resulting in excessive time focused on clean up efforts.

C. ASSETS AND LIABILITIES AT THE END OF THE 2013 FISCAL YEAR AND STATUS OF RESERVE, SPECIAL AND OTHER FUNDS

Non-State Appropriated Funds include: Membership Funds – as outlined below.

Membership Funds *Non-State Appropriated Funds*	
Opening Balance—July 1, 2012	$9,717.96
Interest Earned	$33.72
Transfers to Checking for Administration Expenses	$4,955.91
Service Charges	$10.70
Ending Balance—June 30, 2013	$4,785.07

Appanoose County: "Glick" Repair Project that replaced a culvert with a sediment basin. The structure traps silt that enters the Chariton River and protects a road that allows access to farms. Project completed February 2013.

Total cost: $21,600. SIDCA funding: $16,200.

FY 2013 SIDCA PROJECTS COMPLETED					
County	**Project**	**Description**	**Total Cost**	**SIDCA Funds**	**% SIDCA**
Appanoose	Crosby Structure	Replaced culvert to protect farm access road. Culvert instead of bridge allows clear access for farm equip. Also traps sediment entering Chariton River.	$36,163.52	$24,110.00	67%
Appanoose	Glick Structure	Replaced culvert and trap silt that enters Chariton River & protects road that allows access to farms	$21,576.00	$16,182.00	75%
Appanoose	Moulton Watershed Cosby	Replaced deteriorating 1964 structure so the road continues to be usable as well as trap silt & improves water quality to Chariton River	$42,888.08	$21,444.04	50%
Appanoose	Moulton Watershed Appler	Replaced deteriorating 1964 structure so road continues to be usable as well as trap silt & improves water quality to Chariton River	$34,772.64	$17,386.38	50%
Davis	Grimm Project	Replaced failing bridge with off road structures to slow water & rail road tank car. Benefitted Little Fox River.	$105,733.94	$62,100.00	59%
Jefferson	127th Street Gevock	Removed metal culvert & replaced using road used as dam to create a water retention structure. Water is slowed & erosion reduced, long-term maintenance costs reduced. Road made wider creating safer shoulders.	$29,037.43	$19,020.00	66%
Jefferson	Heidt's Pond Road Structure	Removed metal culvert & replaced using road used as dam to create a water retention structure. Water is slowed & erosion reduced, long-term maintenance costs reduced. Possible dry hydrant.	$82,618.64	$48,750.00	59%

Continued....FY 2013 SIDCA PROJECTS COMPLETED					
County	**Project**	**Description**	**Total Cost**	**SIDCA Funds**	**% SIDCA**
Jefferson	Quince Ave Kurtz	Removed box culvert and replaced with road used as dam to create a water retention structure. Water will be slowed and erosion reduced, long-term maintenance costs reduced.	$74,214.14	$51,000.00	69%
Lucas	Nash Project	Repaired deteriorating 1967 on-road structure using 12”x 280’ CMP to keep road from washing out	$41,750.88	$19,301.00	46%
Lucas	Bontrager Project	Repaired deteriorating 1978 on-road structure using 12”x 280’ CMP to keep road from washing out	$11,721.18	$5,860.59	50%
Van Buren	Loeffler	Constructed small detention pond & replaced deteriorated culvert. Is reducing soil erosion.	$38,741.61	$23,077.50	60%
Wapello	County Road 25th Ave	Installed erosion control structure above Co Rd 25th Ave to allow 8-ft culvert to be replaced with 36-in culvert, in Competine Watershed	$30,200.44	$11,803.22	39%
Wayne	Upper Locust Creek	Repaired emergency spillway benefitting the farm-to-market road J-54.	$705.00	$528.00	75%
Totals			**$550,123.50**	**$320,562.73**	**58%**

D. STATEMENT OF PROPOSED AND PROJECTED ACTIVITIES.

On-Road/Off-Road Structures – SIDCA utilizes earthen embankments with existing roads or on-road structures to effectively reduce culvert size and/or replace bridges. This practice creates cost savings to the counties and often stops 95% of sediment, nutrients and pesticides from entering downstream water bodies.

Additionally, projects listed below and on the following page have been approved by the SIDCA Board of Directors and are in progress.

ADDITIONAL SIDCA PROJECTS APPROVED AND IN PROGRESS					
County	**Project Name**	**Description**	**Total Cost**	**SIDCA Funds**	**% Paid By SIDCA**
Appanoose	Moulton Watershed PL 566 Repair	Replace the pipe and repair a structure built in 1969. The structure protects a farm-to-market road & protects cropland & farmland from flooding	$24,000	$12,000	50%
Appanoose	Soap Creek Structures Repair	Repair three structures previously built for storm water control & reduce sediment delivery to Soap Creek.	$10,000	$5,000	50%
Davis	Cope Project	Build an off-road structure to replace a bridge with a culvert. Will hold and slow down storm water and reduce erosion.	$52,000	$39,000	75%
Davis	Soap Creek Structures Repair	Repair six structures previously built for storm water control & reduce sediment delivery to Soap Creek. Structures were damaged during 2008-2010 excessive rainfall events.	$14,000	$7,000	50%
Davis	Structure Above Peach Ave Bridge	Installation of a structure above Peach Avenue bridge allowing the failing bridge to be replaced with a tank car. The structure will reduce sediment delivery to Fox River by 595 tons per year.	$50,040	$25,000	50%
Davis	Wyacondah Pipe Replacement II	Replace principal spillway pipes to 9 structures previously built as part of watershed project. The structures provide road, bridge and ag land protection while reducing sediment delivery and providing livestock water.	$78,500	$39,250	50%

Continued….ADDITIONAL SIDCA PROJECTS APPROVED AND IN PROGRESS					
County	**Project Name**	**Description**	**Total Cost**	**SIDCA Funds**	**% Paid By SIDCA**
Lucas	Williamson Pond	Install a structure to stabilize section of 530th Road and capture runoff to protect Williamson Pond.	$44,460	$22,230	50%
Monroe	Soap Creek Structures Repair	Repair two structures previously built for storm water control & reduce sediment delivery to Soap Creek. Protects two bridges downstream.	$6,000	$3,000	50%
Van Buren	Rip-Rap Jettie Project	Road reconstruction, bank stabilization and channel mitigation on Des Moines River.	$106,100	$50,000	47%
Van Buren	Des Moines River Bank Stabilization	Stabilize eroding bank and reconstruct road to keep Eagle Road usable to the public	$150,000	$50,000	30%
Van Buren	Kisling Detention Pond & Culvert Replacement	Construct small detention pond & remove and replace existing reinforced concrete box culvert. The project will ensure the road remains open & reduces sediment delivery in Little Lick Creek watershed.	$75.000	$37,500	50%
Wapello	Clymer Structure	Install an erosion control structure about county road 201st Ave and allow the 84 inch culvert to be replaced with an 18 inch culvert. The structure will reduce sediment delivery by 650 tons per year and will also be used as source for livestock water.	$45,000	$22,500	50%
Wayne	Hazy Brook Structure (L606)	Replace bridge with on-road structure. Keeps road usable and will stop bank erosion related to the bridge.	$60,000	$25,000	42%
Wayne	Couchman Project	Replace failed culvert with impoundment. Will reduce soil erosion keeping sediment and associated nutrients out of stream.	$68,000	$51,000	75%
Wayne	Sheehan-Andrews Project	Replace failed culvert with impoundment. Will reduce soil erosion keeping sediment and associated nutrients out of stream.	$64,000	$48,000	75%
Total funds obligated for upcoming projects			**$978,860**	**$505,360**	**52%**

Appanoose County: "Moulton Watershed Structure Repair" project. This project is nearing completion. It replaced the pipe and repaired the structure first built in 1969. The structure protects a farm-to-market road and also protects cropland and farmland from flooding.

Total cost: $24,000. SIDCA funds obligated: $12,000.

E. RECOMMENDATIONS TO THE GOVERNOR AND THE GENERAL ASSEMBLY, AS DEEMED NECESSARY.

SIDCA appreciates the appropriation of funds in FY2002, FY2004, FY2005, FY2006, FY2007, FY2008, FY2009, FY2010, and FY2011. While funds were not appropriated in FY 2012, FY 2013 and FY 2014, the SIDCA understands the economic challenges previously facing the legislature.

SIDCA's main priority is the installation of on and off-road structures and related projects that provide both transportation infrastructure and water resource benefits in the 10-county region. **In light of the improved State's budget situation, the SIDCA is requesting funding for FY2015 in the amount of $250,000 ($25,000 / county x 10 counties).**

The Iowa Code states SIDCA may use 5% of it's appropriated funds for administrative costs, however, the SIDCA Board of Directors continues to *use all appropriated funds for projects*. **In FY 2014, 100% of past state funds appropriated will be used to cost-share the construction of on and off-road structures and related projects that provide both transportation infrastructure and water resource benefits in the 10-county SIDCA area.** Member counties and existing public programs provide the balance of funds required for the projects.

The Authority thanks you for consideration of their request.

F. ADDITIONAL INFORMATION AS DEEMED NECESSARY.

Because of the support of the Iowa Legislature to assist these 10 southern Iowa counties in the unique approach of improving transportation infrastructure and protecting water quality, the SIDCA will highlight a few of these efforts.

To date, SIDCA's priority is the installation of on-road/off-road structures.

Benefits of SIDCA structures:

- **Reducing infrastructure costs** for the counties
- **Improving rural development potential** of the area
- **Removing rural bridge weight limits and width restrictions** for wide loads.
- Providing **flood control** to county roads and bridges down stream
- Effectively **capturing 95% of eroded soil** carried in runoff
- **Reducing agricultural chemicals** flowing into water resources such as lakes used for drinking water
- **Stabilizing eroding stream banks** and halting gully formation
- Providing opportunities to **improve rural fire suppression** with the installation of dry fire hydrants
- Providing **livestock watering**
- Providing additional **fisheries and wildlife benefits**
- Enhancing **recreational and scenic qualities** of southern Iowa.

Engineers in the 10-county area estimate 55–60 structures or projects could be constructed in the next 5-year time period, with available funding.

Davis County: "Cope Project" This project is in progress and is constructing an off-road structure to replace this deteriorated bridge with a culvert. The new structure will hold and slow down storm water and reduce erosion.

Total cost: $52,000. SIDCA funds obligated: $39,000.

SUMMARY OF SIDCA APPROPRIATED FUNDS

FY 2013 appropriation ($0)

No legislative funds were allocated to SIDCA for FY 2013 appropriations, and no FY 2013 funds received.

FY 2012 appropriation ($0)

No legislative funds were allocated to SIDCA for FY 2012 appropriations, and no FY 2012 funds received.

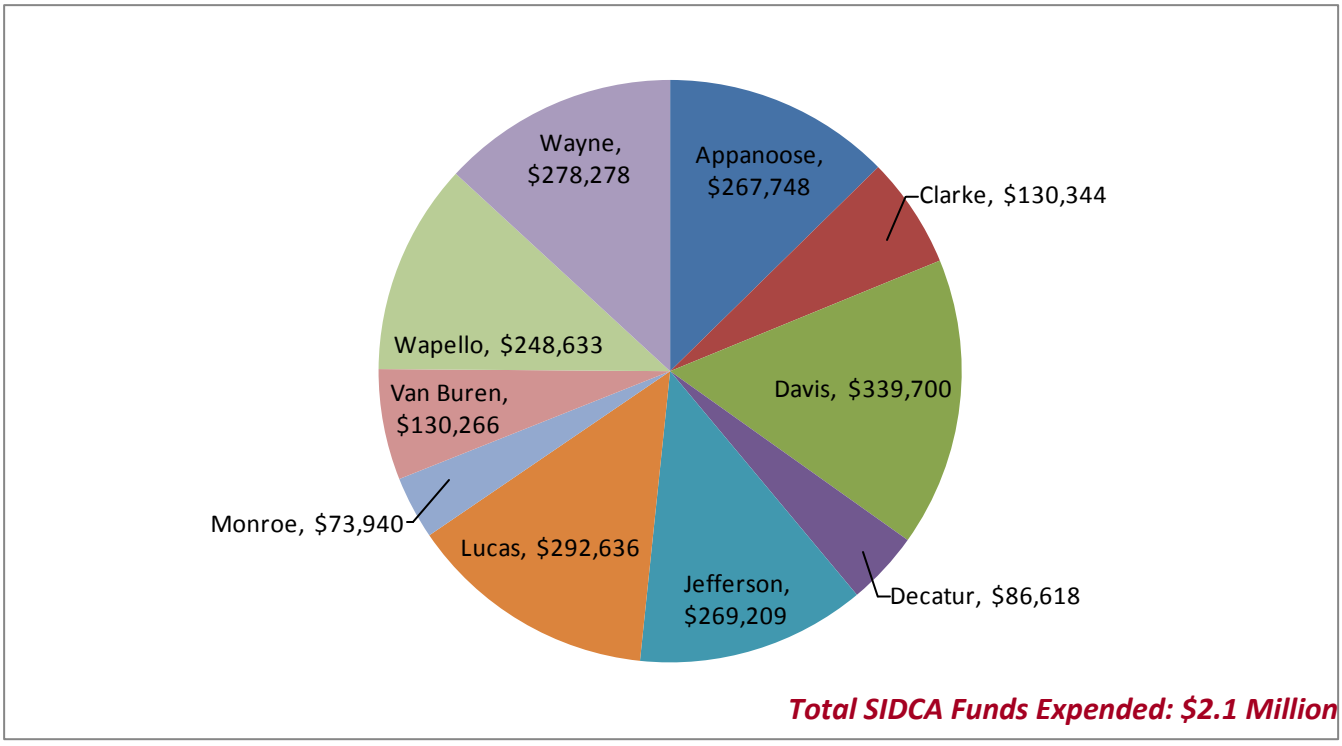
FY 2011 appropriation ($250,000)

- 86% of FY 2011 funds obligated to approved projects
- All funds to be expended on actual construction costs for projects
- *0% of appropriated funds to be used for administration or related expenses*

FY 2010 appropriation ($300,000)

- 33% of FY 2010 funds expended on actual construction costs for projects
- Remaining 67% FY 2010 funds obligated to approved projects
- 100% of funds to be expended on actual construction costs for projects
- *0% of appropriated funds to be used for administration or related expenses*

SIDCA Funds Expended By County



Total SIDCA Funds Expended: $2.1 Million

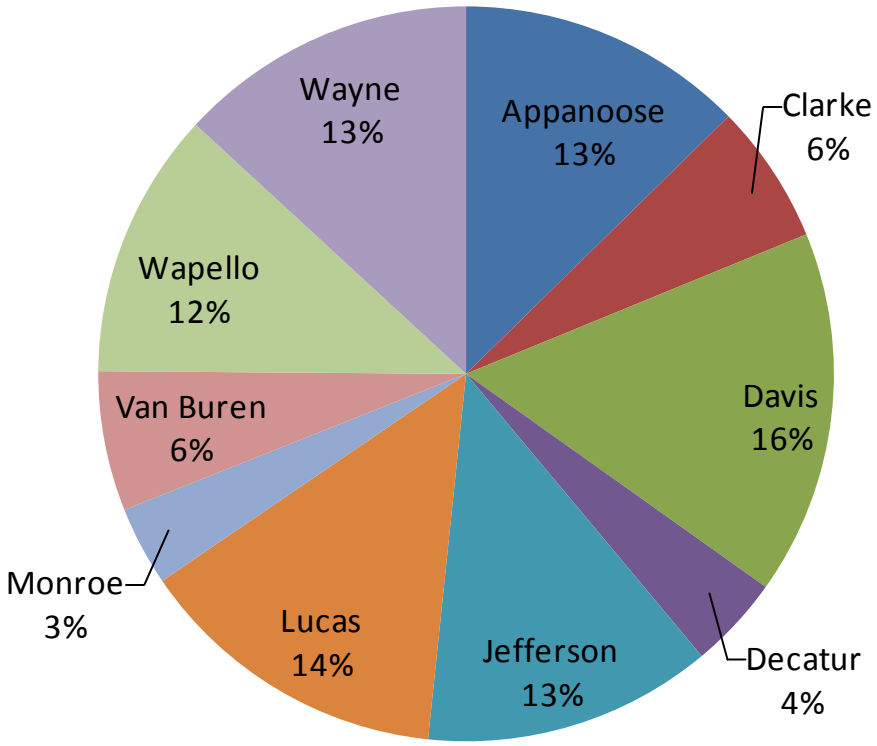
FY 2009 appropriation ($300,000)

- 100% of FY 2009 funds obligated to approved projects
- 100% of funds expended were spent on actual construction costs for projects
- *0% of appropriated funds used for administration or related expenses*

FY 2008 appropriation ($300,000)

- 100% FY 2008 funds expended on actual construction costs for projects
- 10 projects completed in 6 of the 10 counties
- *0% of appropriated funds used for administration or related expenses*

% SIDCA Funds Expended Per County



FY 2007 appropriation ($300,000)

- 100% FY 2007 funds expended on actual construction costs for projects
- 15 projects completed in 8 of the 10 counties
- SIDCA state allocation dollars leveraged 2:1
- *0% of appropriated funds used for administration or related expenses*

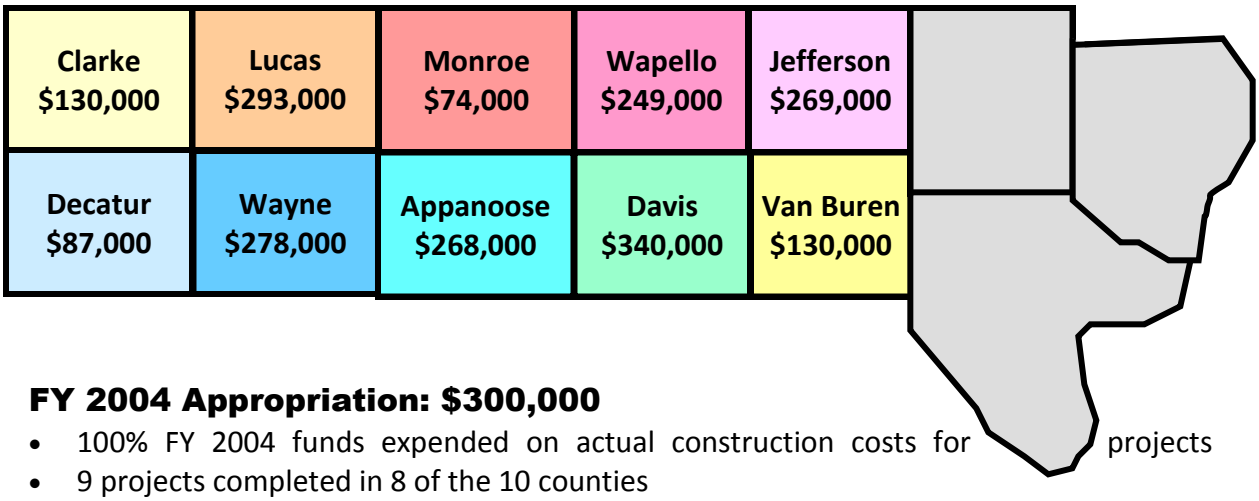
FY 2006 appropriation ($300,000)

- 100% FY 2006 funds expended on actual construction costs for projects
- 20 projects completed in 8 of the 10 counties
- SIDCA state allocation dollars leveraged 2:1 overall
- Several projects leveraged SIDCA funds 10 to 1
- *0% of appropriated funds used for administration or related expenses*
- **Unique project:** ***SIDCA partnered with Van Buren County and FEMA to provide bank stabilization on Chequest Creek and save an endangered bridge***
- **Unique project:** ***SIDCA partnered with Little River Lake Sponsors in Decatur County reduce sedimentation into Little River Lake (a drinking water source and recreation area)***

FY 2005 Appropriation: $300,000

- 100% FY 2005 funds expended on actual construction costs for projects
- 16 projects completed in 9 of the 10 counties
- SIDCA state allocation dollars leveraged 3.5 to 1
- *0% of appropriated funds used for administration or related expenses*

SIDCA Funds Utilized in Each Member County (2002—2013)



FY 2004 Appropriation: $300,000

- 100% FY 2004 funds expended on actual construction costs for projects
- 9 projects completed in 8 of the 10 counties
- State allocation dollars were leveraged 3:1
- *0% of appropriated funds used for administration or related expenses*

FY 2003 Appropriation: Recalled

Legislative funds were initially allocated to SIDCA for FY 2003 appropriations, however the funds were recalled due to state budget cuts. Therefore, no FY 2003 funds were received.

FY 2002 Appropriation: $250,000

Due to state budget cuts, approximately 12% of the FY2002 allocation was de-appropriated from SIDCA. These funds were allocated to projects prior to the de-appropriation of funds by the state.

- 100% FY 2002 funds expended on actual construction costs for projects
- 11 projects completed in 7 of the 10 counties

SIDCA Attracts and Leverages Outside Funding for Non-Infrastructure Project

- ***$100,000*** funding for the COE Recognizance Study of the Lower Des Moines River
- SIDCA sought to be original sponsor of the COE Section 206 Project. This program has potential to generate ***$5 million*** of funding into the Rathbun Lake Watershed for aquatic habitat restoration. SIDCA now working with partners to pursue this project with a different sponsor.
- Partners on SIDCA Projects since 2002:
    1. State Legislature
    2. IDALS – Division of Soil Conservation
    3. Counties
    4. Cities
    5. Soil and Water Conservation Districts
    6. Natural Resources Conservation Service
    7. Chariton Valley, Pathfinders, & Southern Iowa RC&D's
    8. Iowa Department of Natural Resources
    9. Watershed Organizations
    10. Rural Water Associations
    11. U.S. Army Corp of Engineers
    12. County Conservation Boards
    13. Private Landowners
    14. Federal Emergency Management Agency (FEMA)
    15. Watershed Improvement Review Board (WIRB)
    16. Pheasants Forever
    17. Ducks Unlimited

Wapello County: "County Road 25th Ave Project" An erosion control structure was installed above Co Rd 25th Ave to allow an 8-foot culvert to be replaced with 36-inch culvert. Project is located in Competine Watershed and was completed in September 2012.