



State of Utah

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Governor

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Lieutenant Governor

Department of
Environmental Quality

Alan Matheson Jr.
Executive Director

DIVISION OF WATER QUALITY
Walter L. Baker, P.E.
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MEMORANDUM

TO: Water Quality Board Members

THROUGH: Walter L. Baker, P.E. 

FROM: Jim Bowcutt, Nonpoint Source Program Coordinator

DATE: June 16, 2015

SUBJECT: State Nonpoint Source Program Annual Report for Fiscal Year 2015

The Division of Water Quality receives grant funds to help implement nonpoint source pollution control projects throughout the state. These grants include Section 319(h) funds from the Environmental Protection Agency and State Nonpoint Source funds authorized by the Water Quality Board. Every year an annual report is submitted to EPA on the accomplishments of the State's Nonpoint Source Program. Staff will present a summary of this report to the Water Quality Board during the meeting scheduled for May June 24th, 2015.

Attached is an executive summary of the Annual Nonpoint Source Program Report and funding tables for the 2016 fiscal year.

State of Utah Nonpoint Source (NPS) Annual Report

Utah Water Quality Board Meeting

June 24th, 2015

Section 319 Nonpoint source funds

- In FY-15 the State of Utah received \$1,391,000 in Federal Section 319(h) funds. Of these funds, \$502,379 was used for staffing and support, while the remaining \$888,621 was dedicated to 7 projects.

FY-2015 Section 319 Project Funding Allocation
\$888,621

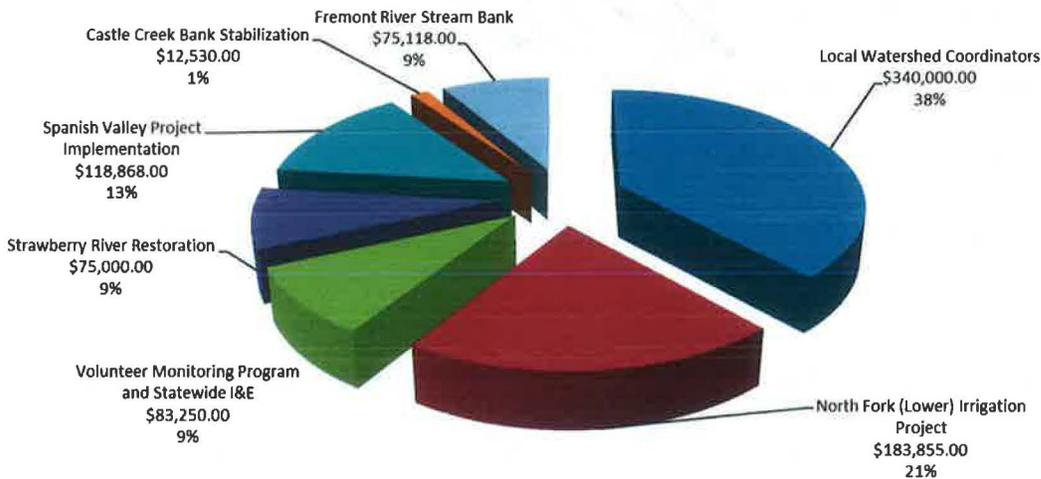


Table 1

Current Section 319(h) Nonpoint Source Funding Project Allocations				
Federal Fiscal Year	Grant Award	Expenditures in FY-15	Total Expenditures	Percent Expended
FY-09	\$1,119,400	\$206,697	\$1,119,400	100%
FY-10	\$1,065,000	\$70,127	\$986,840	93%
FY-11	\$832,921	\$6,853	\$763,619	92%
FY-12	\$830,800	\$56,097	\$591,299	71%
FY-13	\$861,621	\$369,189	\$689,080	80%
FY-14	\$893,621	\$212,315	\$212,315	23%
FY-15	\$888,621	\$0	\$0	0%
Total	\$6,491,984	\$921,278	\$4,362,553	67%

- The targeted basin funding cycle is now being fully implemented (See Table 2). Since the State has begun using the targeted basin funding cycle projects are being implemented faster, the quality

of projects has improved, the effectiveness of projects is more easily identified, and more partners have begun to align their technical and financial assistance programs with the targeted basin schedule.

Table 2

Basin Priority Funding Schedule						
Watershed	2014	2015	2016	2017	2018	2019
(1) Jordan/ Utah lake						
(2) Colorado River						
(3) Sevier, Cedar-Beaver						
(4) Bear River						
(5) Weber River						
(6) Uinta Basin						

- The Sevier, Cedar, Beaver is the targeted basin for 2016. Table 3 shows the projects that will be funded using Section 319 funding during the FY-2016 fiscal year.

Projects Funded in FY-2016

- 77 Grant Applications were received totaling \$4,058,730.
- 51% of these proposals came from the targeted basin
- 45 Projects were selected for funding (See Tables 3 and 4)
 - \$1,000,000 in State NPS funding
 - \$888,621 in Section 319 funding

Table 3
FY-2016 NPS Proposals Funded

Project Title	Watershed	Sponsor	Project Type	Partner Funding	Partner funding Amount	Applicant Match	Amount Awarded
Gibbons Brothers AFO Project	Bear River	Private Landowner	AFO	NRCS	\$450,000	\$150,000	\$50,000.00
Bar JM Feedlot	Bear River	Private Landowner	AFO	NRCS	\$45,792	\$9,500	\$17,964.00
Roy Hafen Stream Bank	Cedar/Beaver	Dixie conservation District	Riparian		\$0	\$12,656	\$21,000.00
Brad Hafen- Irrigation	Cedar/Beaver	Dixie conservation District	Irrigation	NRCS	\$122,757	\$16,480	\$90,000.00
Ence Stream Bank Stabilization	Cedar/Beaver	Dixie conservation District	Riparian		\$0	\$85,375	\$128,063.00
Marsha Goodwin Stream Bank	Cedar/Beaver	Dixie conservation District	Riparian		\$0	\$1,560	\$14,040.00
Fairchild Challenge	Jordan river	Thanksgiving Point	I&E	Union Pacific	\$5,000	\$12,600	\$5,000.00
San Pete EQIP Strategic Funding Cost Share	San Pitch	San Pete Conservation District	Watershed Restoration	NRCS	\$167,114	\$21,457	\$26,000.00
Bert Sorensen Stream Bank	San Pitch	Private Landowner	Riparian		\$0	\$5,100	\$42,597.00
Cameron Parry- Irrigation Project	San Pitch	Private Landowner	Irrigation		\$0	\$12,344	\$66,000.00
Michael Olsen- Irrigation/Riparian	San Pitch	San Pete Conservation District	Irrigation		\$0	\$67,942	\$60,500.00
Richard Castleberry- Irrigation	San Pitch	San Pete Conservation District	Irrigation		\$0	\$5,000	\$45,000.00
Doyce Coates- Irrigation	San Pitch	Private Landowner	Irrigation	NRCS	\$0	\$96,700	\$31,300.00
Mill Creek Monitoring Signage	South East Colorado	Local Conservation District	I&E	Moab City/BLM	\$990	\$0	\$652.00
USU Moab Rainwater Harvesting System	South East Colorado	Utah State University	Storm Water		\$0	\$5,833	\$9,132.00
Pack Creek Stream Bank -2015	South East Colorado	City of Moab	Riparian	Moab city	\$24,472	\$0	\$5,000.00
Upper Montezuma Creek Watershed Plan	South East Colorado	San Juan Conservation District	Planning		\$0	\$0	\$5,000.00
Nutrient Producer Website	Statewide	Utah State University	I&E		\$0	\$0	\$10,000.00
Environthon	Statewide	UACD	I&E	UCC/Farm Bureau/Cambell Scientific	\$5,000	\$0	\$5,000.00
Water Week 2016 Library Program	Statewide	AWWA	I&E	Various Sponsors	\$12,000	\$5,500	\$4,000.00
Onsite Reserve	Statewide	DWQ	Septic		\$0	\$0	\$12,538.00
Monitoring Uptake of Selenium by fish at Stewart Lake	Uinta Basin	Upper Colorado River Recovery Program	Research	UDWR/FWS	\$71,608	\$0	\$6,380.00
Mud Creek Road Improvements	Uinta Basin	US Forest Service	Road Improvements		\$0	\$0	\$66,980.00
Upper Strawberry Offsite Watering	Uinta Basin	US Forest Service	Grazing Management		\$0	\$2,768	\$3,000.00
NWQI Partner Funding	Upper Sevier	Upper Sevier Conservation District	Riparian	NRCS	\$320,000	\$0	\$100,000.00
Sevier River I&E	Upper Sevier	Upper Sevier Conservation District	I&E		\$0	\$4,000	\$10,000.00
Upper Sevier Grazing Demonstration Project	Upper Sevier	Upper Sevier Conservation District	Grazing Management	Utah State University	\$16,400	\$6,000	\$85,654.00
Main Creek Restoration	Utah Lake	Wasatch Conservation District	Riparian	DWR	\$49,567	\$2,600	\$10,700.00
Spring Creek Culvert	Utah Lake	Wasatch Conservation District	Road Improvements	Wasatch County	\$4,000	\$3,000	\$6,420.00
Spring Creek Restoration 2	Utah Lake	Wasatch Conservation District	Riparian	DWR	\$37,978	\$5,000	\$25,680.00
Spring Creek Restoration 1	Utah Lake	Wasatch Conservation District	Riparian	NRCS	\$30,337	\$5,000	\$21,400.00
Watershed Festival and Watershed Education Provo River	Utah Lake	Wasatch County	I&E	PRWC	\$49,475	\$0	\$10,000.00
Ecanbrack Ranch Conservation Project	Weber River	Summit Land Conservancy	Easement	NRCS	\$2,431,125	\$607,781	\$5,000.00
Total					\$3,843,615	\$1,144,196	\$1,000,000.00

Table 4
Section 319 Projects Funded

Project Title	Watershed	Sponsor	Project Type	Partner Funding	Partner Funding Amount	Applicant Match	Amount Awarded
Utah Watershed Coordinators	Statewide	UDWQ/ UDEQ	Technical Assistance		\$0	\$0	\$370,000.00
Volunteer Monitoring	Statewide	Utah State University	I&E		\$0	\$145,248	\$72,595.00
DWR Sevier River #5	Upper Sevier	Division of Wildlife Resources	Riparian		\$0	\$4,500	\$60,700.00
DWR Sevier River #1	Upper Sevier	Division of Wildlife Resources	Riparian	DWR	\$16,750	\$3,000	\$50,250.00
DWR Sevier River #2	Upper Sevier	Division of Wildlife Resources	Riparian	DWR	\$18,375	\$4,500	\$55,125.00
DWR Sevier River #3	Upper Sevier	Division of Wildlife Resources	Riparian	DWR	\$27,875	\$6,000	\$83,625.00
San Pitch I&E and Monitoring	San Pitch	San Pete Conservation District	I&E/ Monitoring		\$0	\$10,000	\$15,000.00
Michael Larson- Pasture	San Pitch	Private Landowner	Pasture Improvements	NRCS	\$49,672	\$9,934	\$23,180.00
Quinn Beardall San Pitch River Restoration	San Pitch	Therapy Solution	Riparian		\$0	\$10,000	\$21,500.00
Doyce Coates- Stream Bank	San Pitch	Private Landowner	Riparian		\$0	\$8,900	\$80,100.00
Michael Olsen- Stream Bank	San Pitch	San Pete Conservation District	Riparian		\$0	\$9,000	\$50,046.00
John Irons- Stream Bank	San Pitch	San Pete Conservation District	Riparian		\$0	\$650	\$6,500.00
Total					\$112,672	\$211,732	\$888,621.00

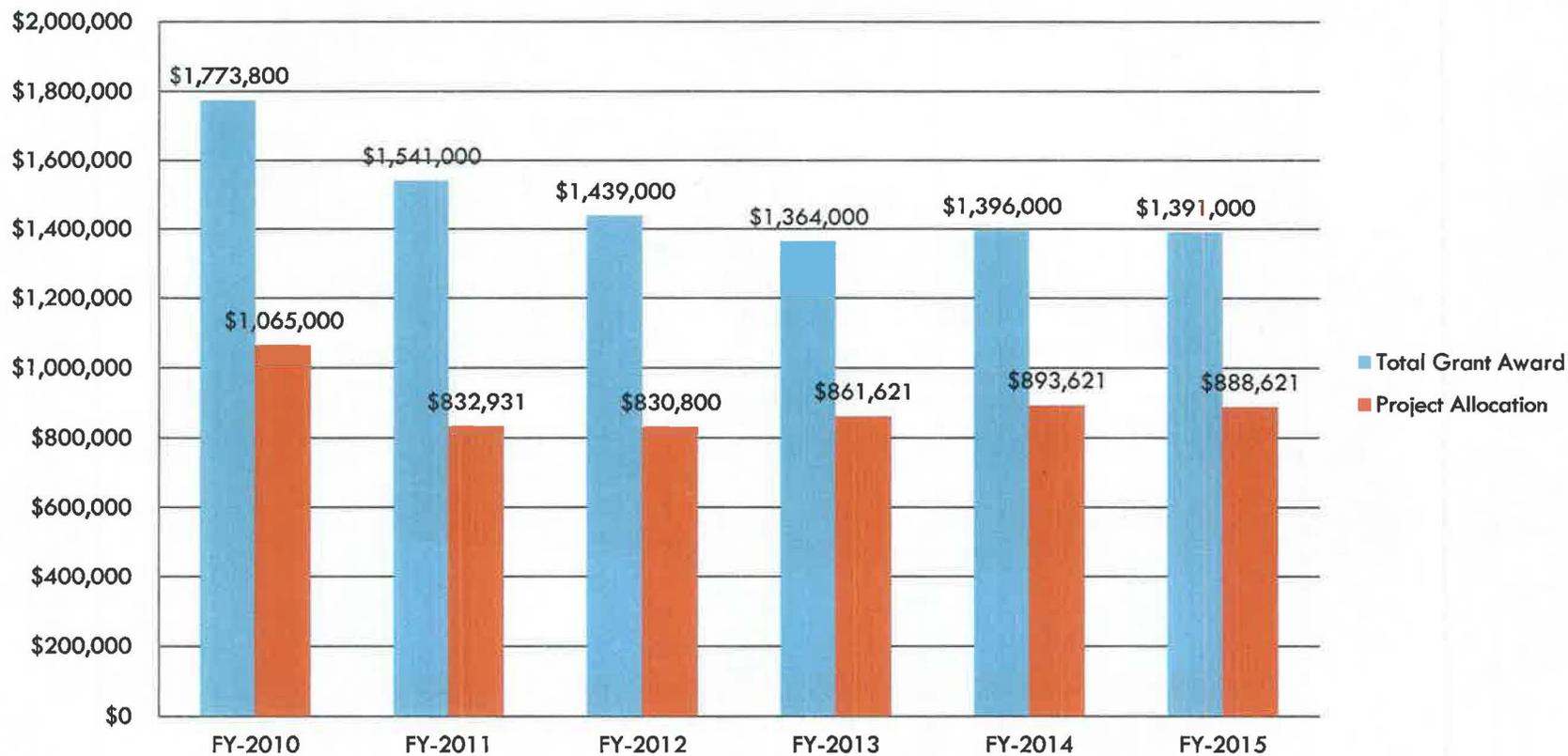
FY-2015 ANNUAL REPORT AND FY-2016 PROJECTS



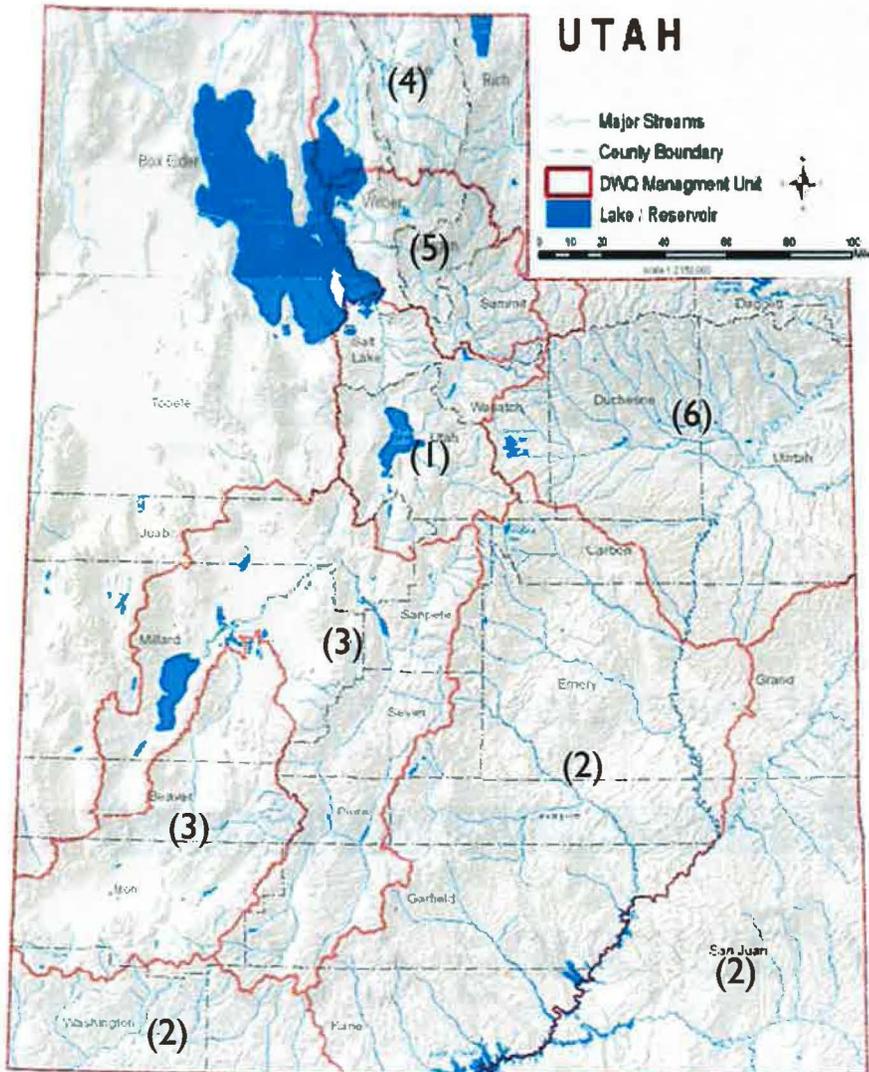
Jim Bowcutt

Utah Division of Water Quality
Utah Water Quality Board meeting
June 24th, 2015

Section 319 Grant Award (FY 2010-2015)



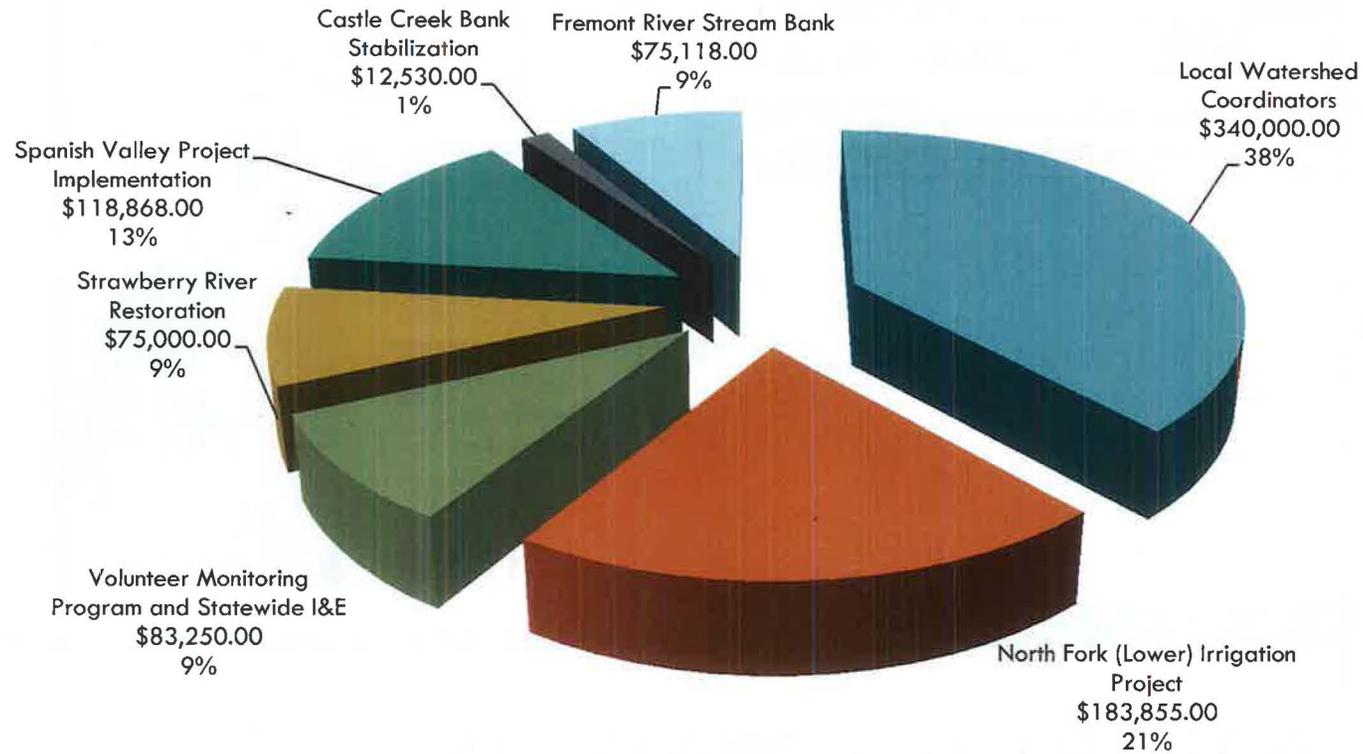
The Watershed Funding Cycle



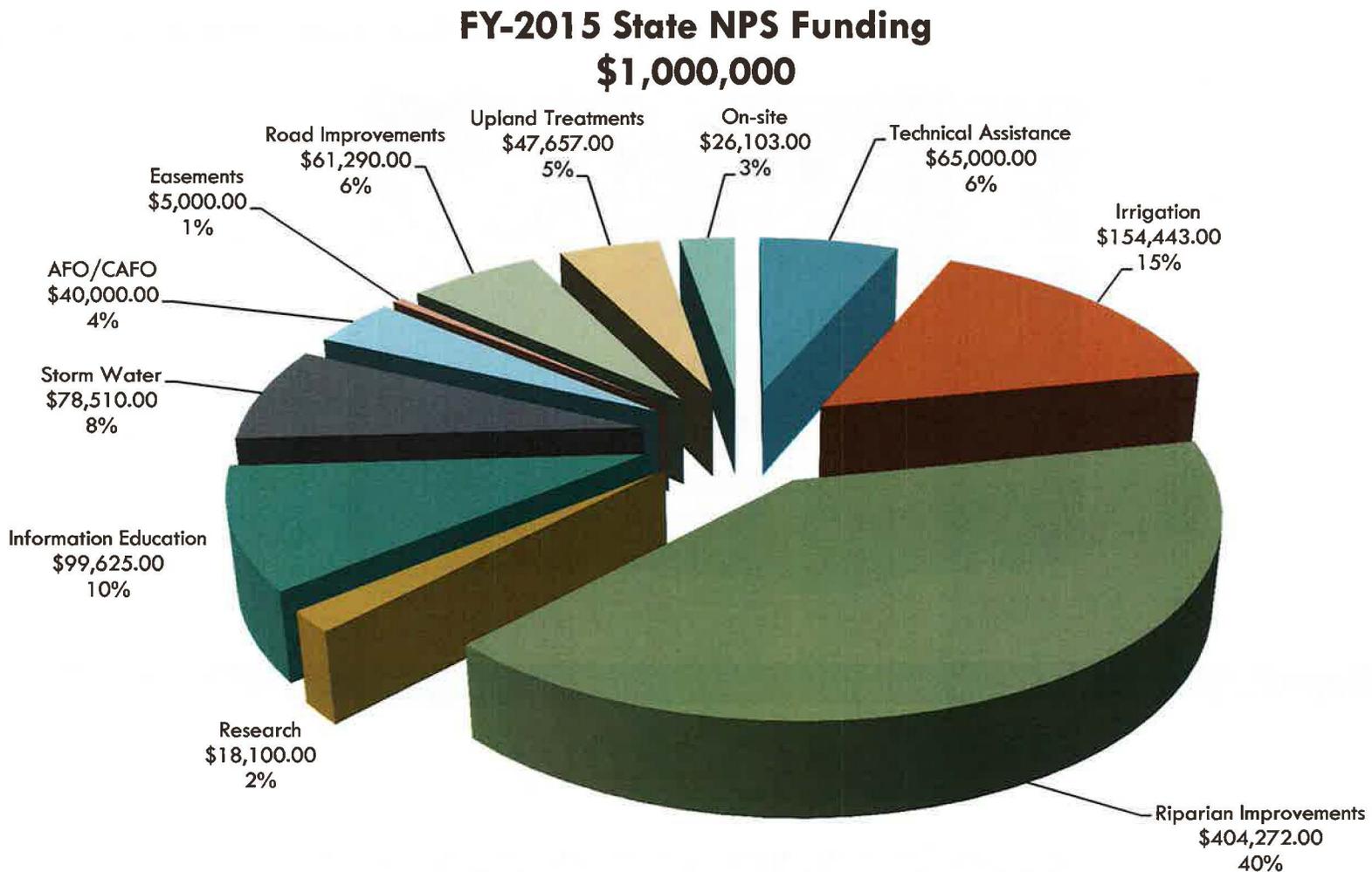
Watershed	2013	2014	2015	2016	2017	2018	2019
(1) Jordan/ Utah lake							
(2) Colorado River							
(3) Sevier, Cedar-Beaver							
(4) Bear River							
(5) Weber River							
(6) Uinta Basin							

319 Funding Awarded in FY-15

FY-2015 Section 319 Project Funding Allocation \$888,621



FY-2015 State NPS Funding Allocation by Project Type



FY-2015 Successes

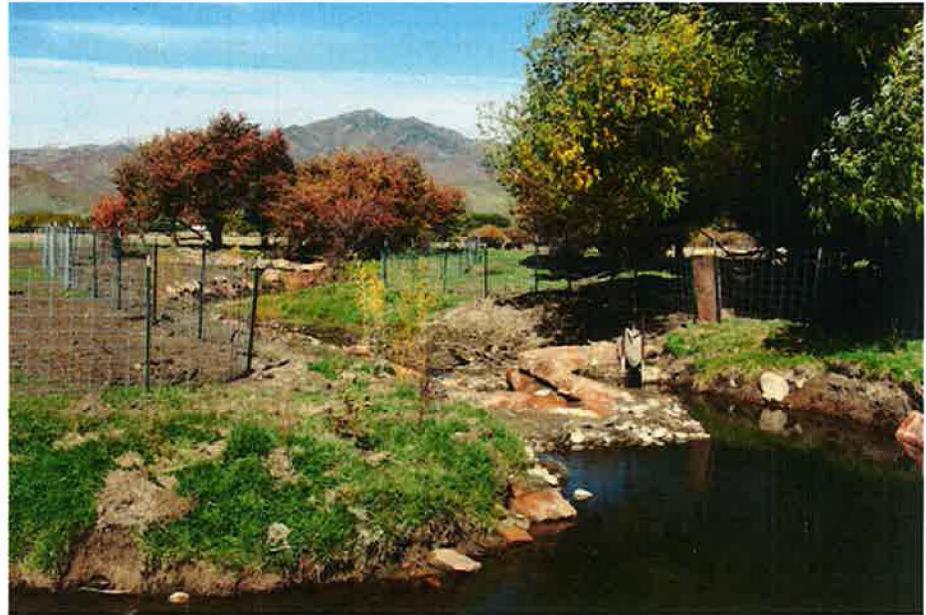
Main Creek



- Listed for E.coli and Temperature in 2010.
- Is a tributary to Deer Creek Reservoir which is listed for total phosphorus and low Dissolved Oxygen.
- Main Creek contributes 17% of the phosphorus load into Deer Creek

Main Creek

- 3.22 miles of stream has been restored
- Over 10,000 willow cuttings installed
- 5 miles of fencing has been installed
- Additional work is currently scheduled

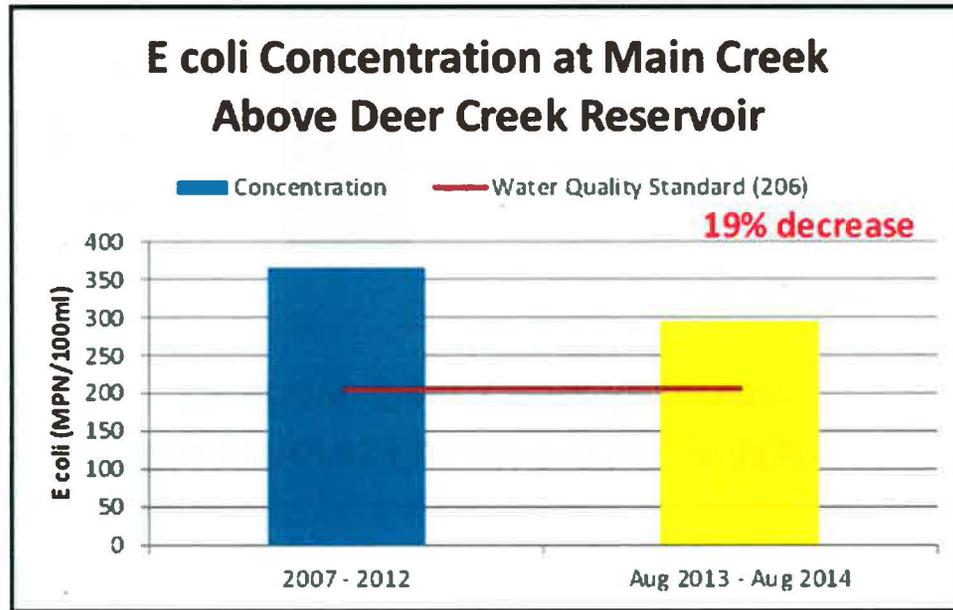


Main Creek

(Before and After Pictures)

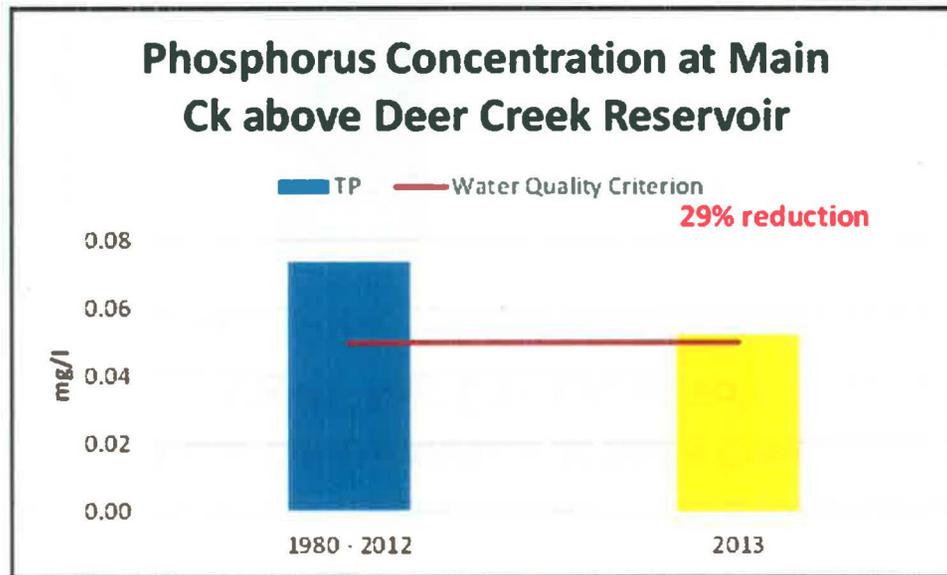


Main Creek Results



Graph 1: E. coli Grab Sample Analysis from the Division of Water Quality.

Main Creek Results



Graph 1: Chemical Grab Sample Analysis from the Division of Water Quality.

Main Creek Temperature Impairment

Impaired	IR	Data	Count	# Exceeded	% Exceeded
Yes	2010	2004-2008	44	8	18%
Yes	2012	2006-2010	46	7	15%
No	2014	2008-2012	47	2	4%
No	2016	2010-2014	48	2	4%

Fisheries Data

- Fish surveys completed in 2013 show that Southern Leatherside Chub densities have increased seven times higher than fish surveys that were conducted before project implementation.
- The DWR is very optimistic with the increase in smaller native fish in the river, and it is anticipated that the restoration work will eventually help the cutthroat trout populations improve.



Strawberry River



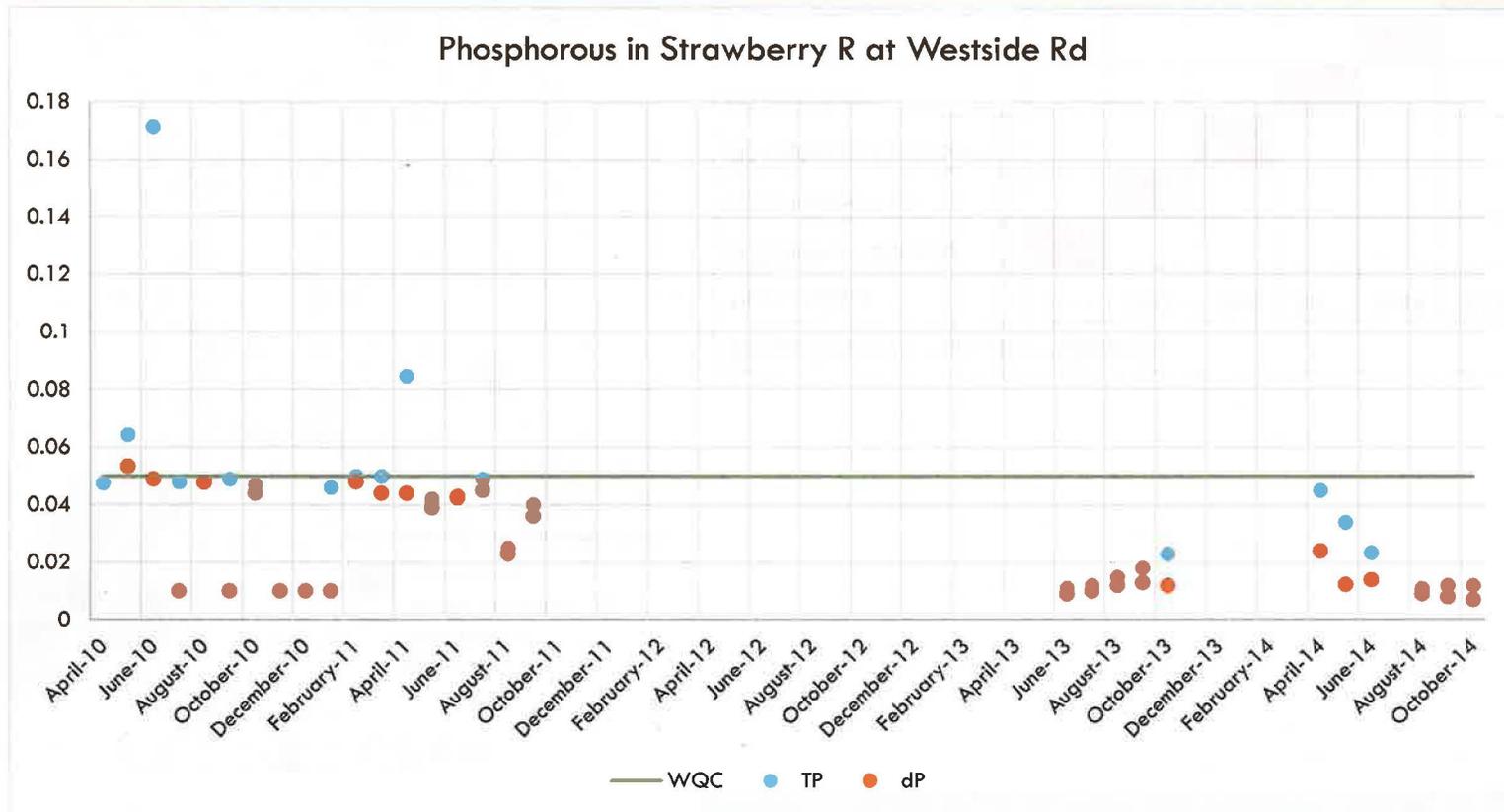
- Strawberry River is a tributary to Strawberry Reservoir which has a TMDL for total phosphorus.
- According to the Strawberry Reservoir TMDL, the Strawberry River must make the largest required phosphorus loading reductions of all the existing tributaries.

Strawberry River

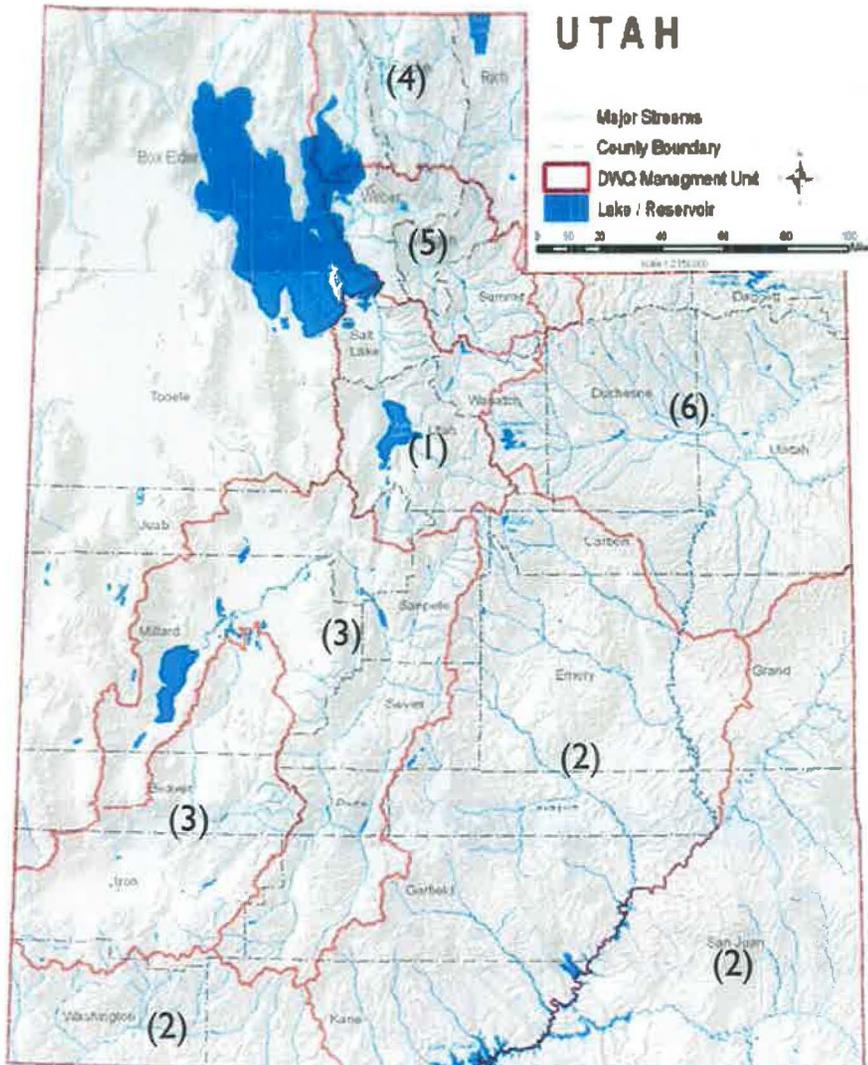
- ❑ Over 12 miles of stream banks restored, and fish habitat improved.
- ❑ Limited Cattle Access, including a grazing allotment in the upper section of the Watershed.



Strawberry River Success



The Watershed Funding Cycle



Watershed	2014	2015	2016	2017	2018	2019
(1) Jordan/ Utah lake						
(2) Colorado River						
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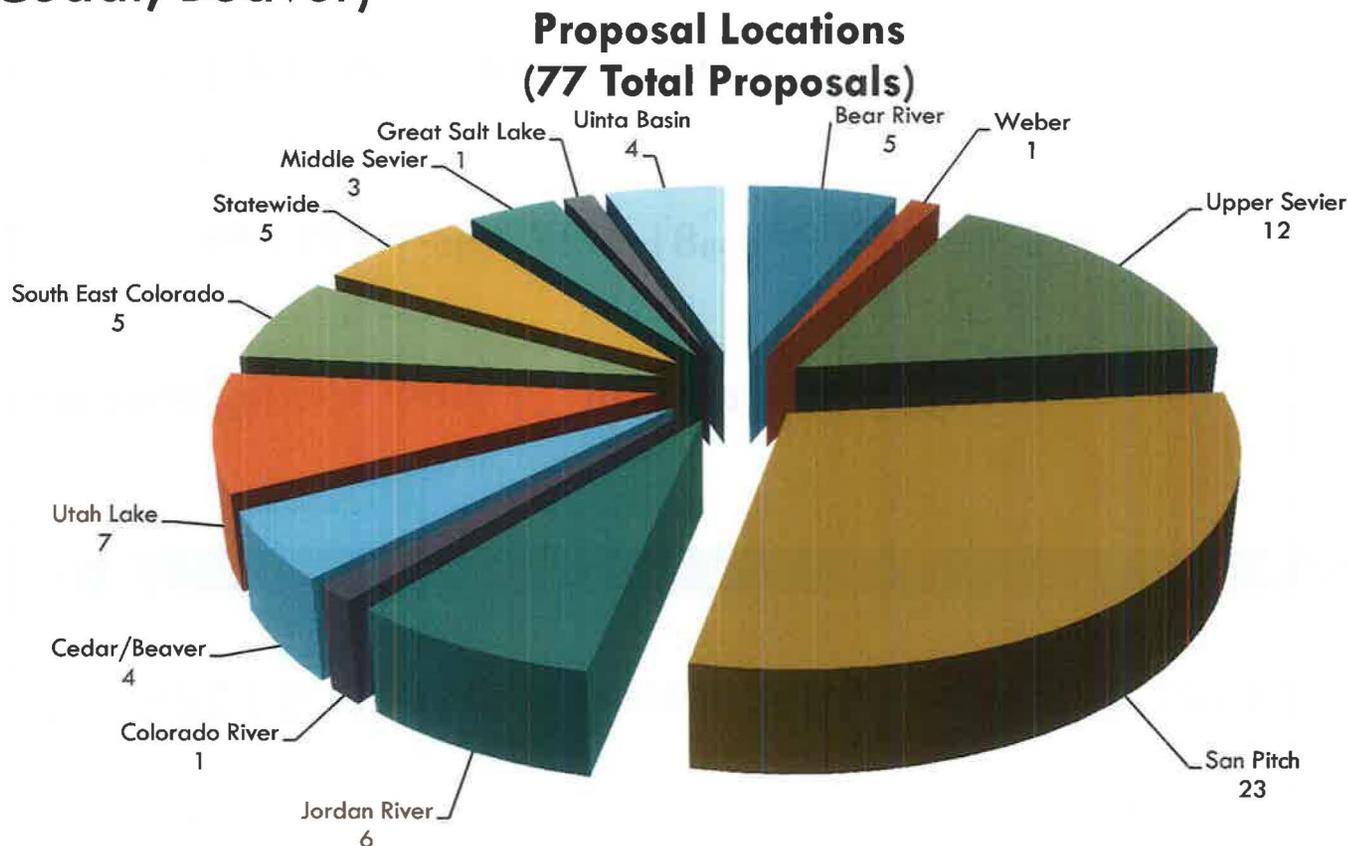
FY-2016 Nonpoint Source Pollution Grant Schedule



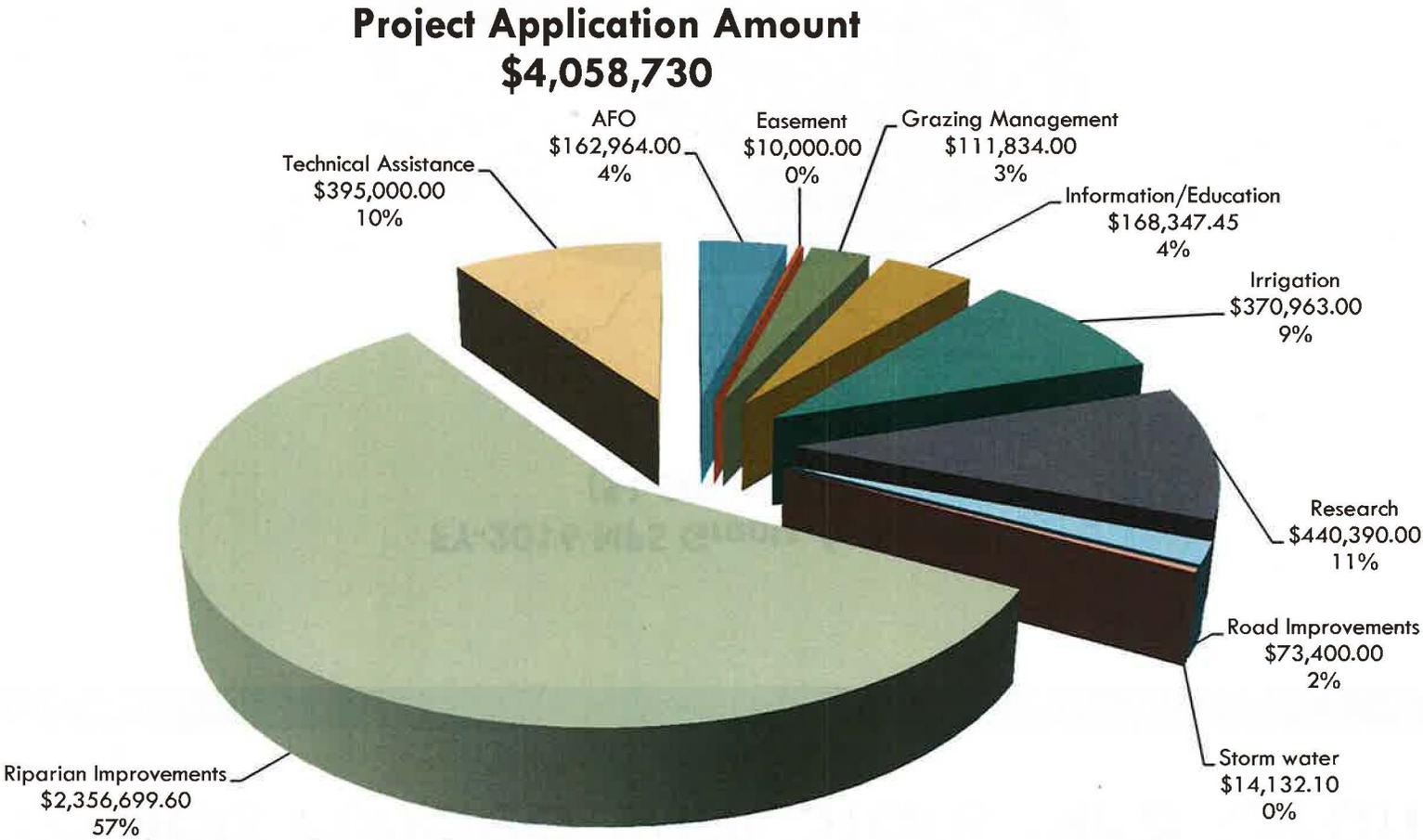
- Application Period: April 1st through May 15th
- Projects ranked internally: May 18th through June 3rd
- Meeting with partner agencies: June 4th
- Final Grant approval: June 9th
- Official announcement of grant recipients: June 11th

FY-2016 Nonpoint Source Applications Received

- 77 Grant Applications were received totaling \$4,058,730.
- 51% of these proposals came from the targeted basin (Sevier, Cedar, Beaver)

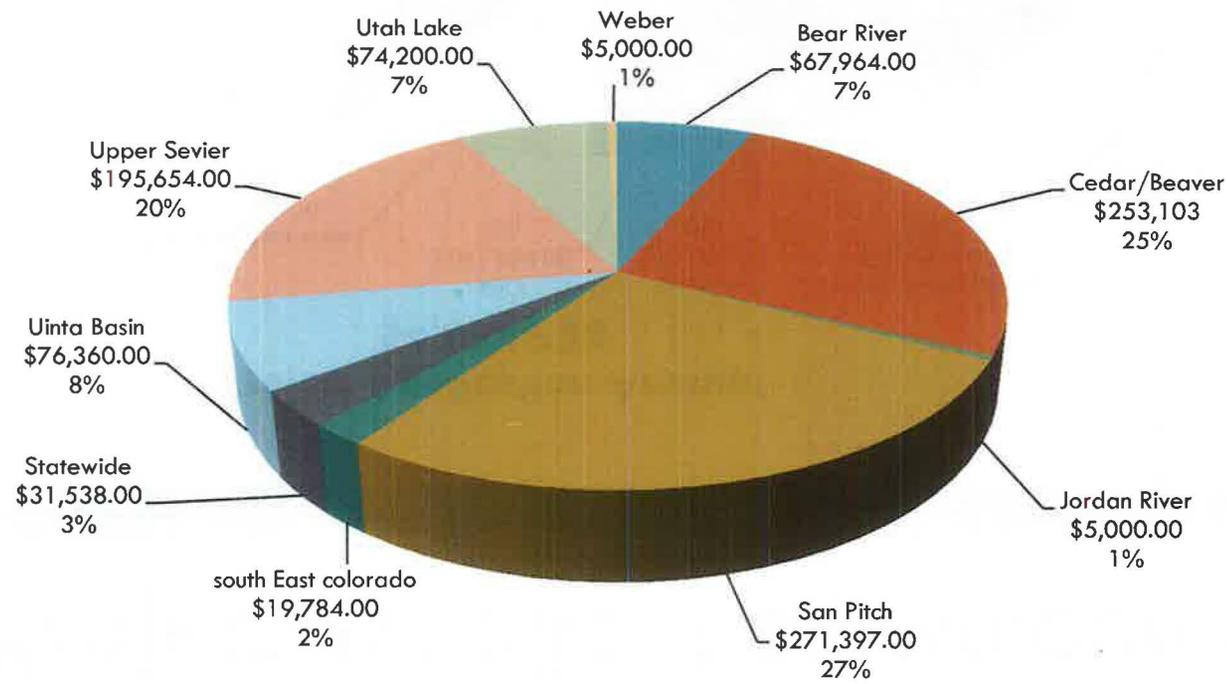


Project Application Amounts



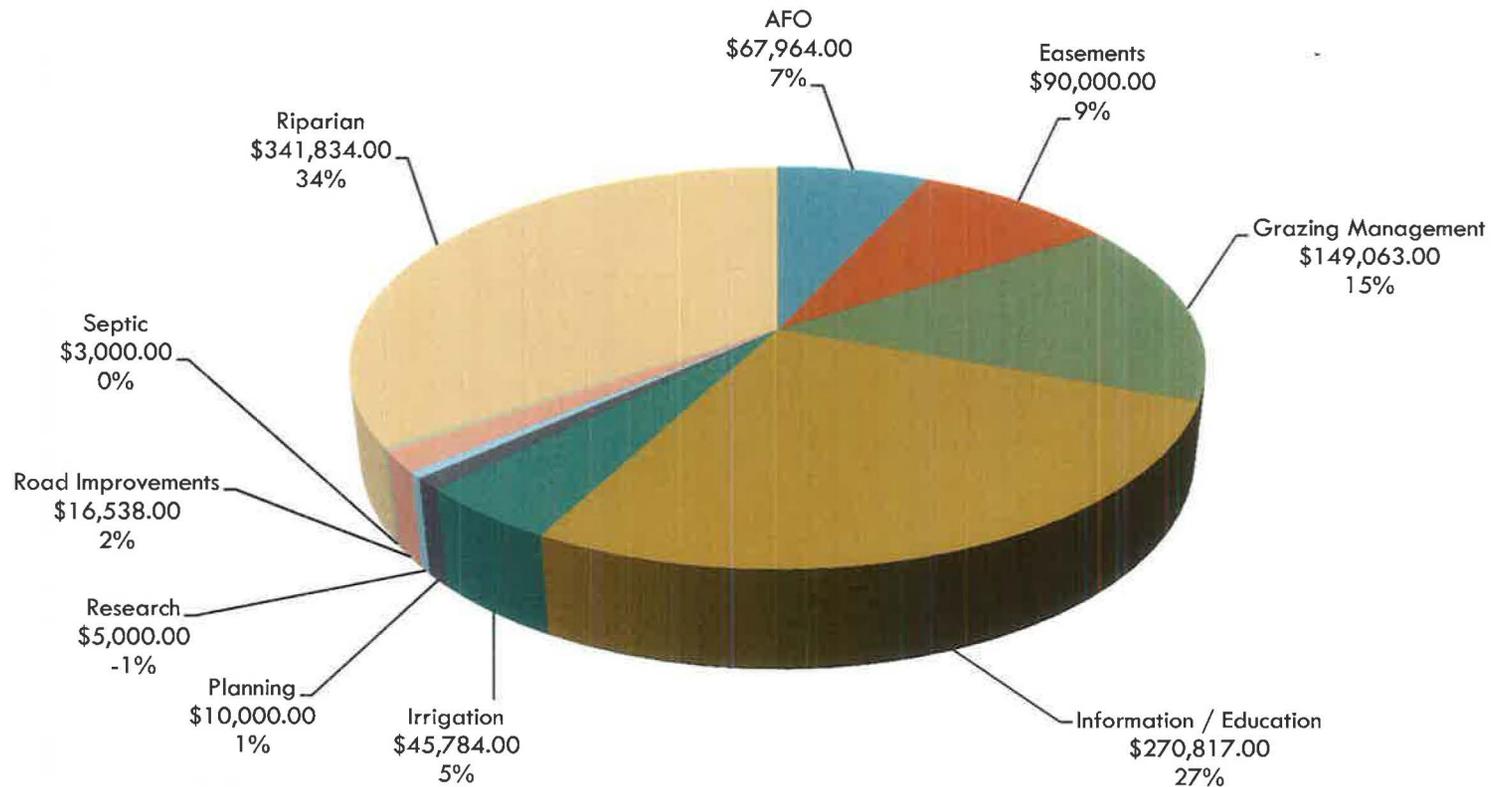
Projects Funded with State NPS Grants

**FY-2016 NPS Grants Awarded
(\$1,000,000)**



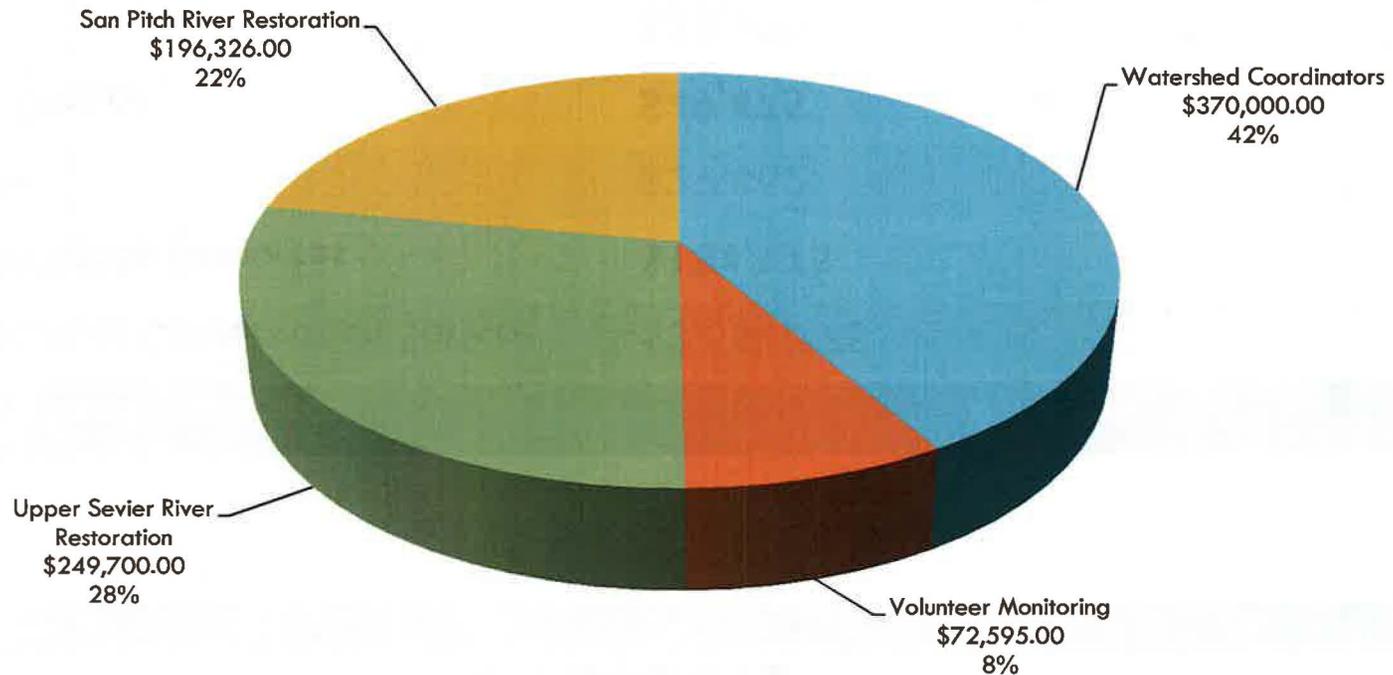
BMP Types Funded with State NPS Funds

**BMPs Funded with State NPS funds
(\$1,000,000)**



Projects Funded with Section 319 Grants

Projects Funded With Section 319 Grants (\$888,621)



Partner Funding on FY-2016 NPS Projects

Funding Source	Amount
Natural Resources Conservation Service	\$3,654,775
Division of Wildlife Resources	\$184,175
City/ County	\$29,462
Watershed Groups	\$49,475
Other	\$38,400
Landowner Match	\$1,956,287
Total	\$5,912,574

Almost a 3:1 Ratio

Questions???





State of Utah

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Walter L. Baker
Executive Secretary

TO: Water Quality Board
THROUGH: Walter L. Baker, P.E. 
FROM: Brian Greene
DATE: June 9, 2015
SUBJECT: Utah Water Watch

Utah Water Watch (UWW) is the statewide volunteer water quality monitoring program for Utah. UWW started in 2012 as a partnership between UT Division of Water Quality and Utah State University Water Quality Extension to engage the public with monitoring lakes and streams. The dual goals of the program are to increase the public's awareness about the importance of water quality and provide useable data for water scientists and managers. Volunteers work as a network of partners helping monitor the conditions of lakes and streams across Utah on a monthly basis. This assists the Non-point Source Program by empowering the public to be active stewards of their local water bodies.

This presentation will highlight the major accomplishments of the program and the benefits it provides. UWW is a successful method to engage people in information and education about water quality. Volunteers have recorded over 1500 monitoring reports at 200 monitoring locations across the state. This is not only an efficient way to monitor Utah's aquatic resources, but it provides volunteers an opportunity to be active partners with the UT Division of Water Quality, UT Watershed Coordinating Council, and Water Quality Extension. Volunteers also report increased knowledge and behavioral changes by participating in Utah Water Watch. UWW receives funding from the EPA 319 program, NSF iUTAH project, and USU Extension.