

Grant #15-800

Project Period: Oct. 1, 2015 – June 30, 2018

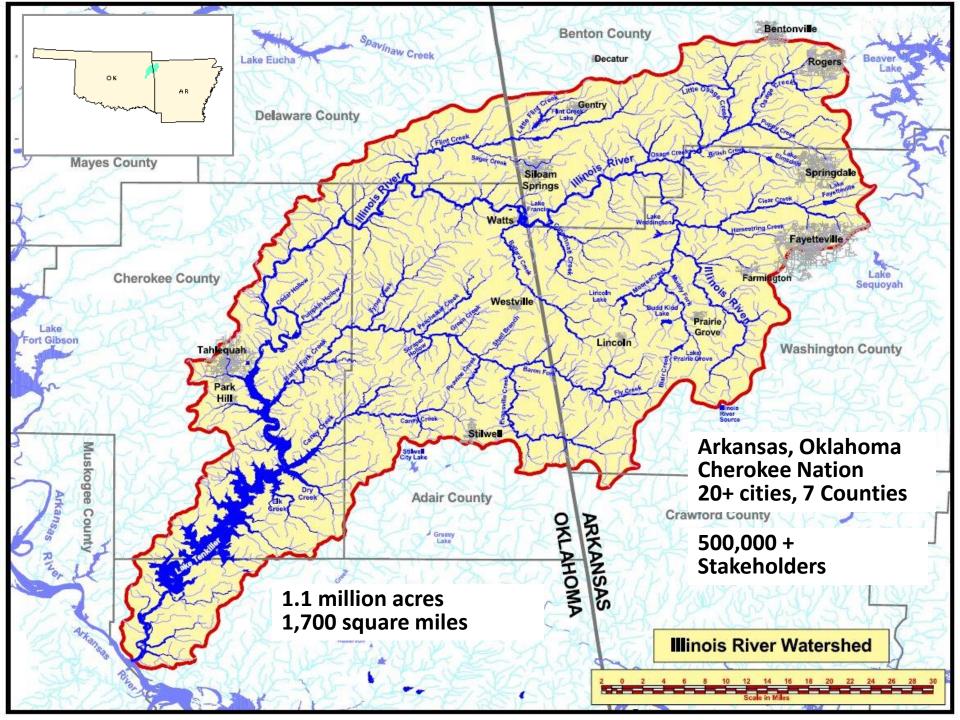
2017 Nonpoint Source Pollution Stakeholder & Project Review Meeting











Project Deliverables:

- Implement 15 green infrastructure projects in public/quasipublic locations within the Illinois River Watershed
- Host 3 annual Green Infrastructure Academies
- Grantees provide a 25% match, may be in-kind hours

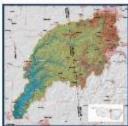
Green Infrastructure for Water Quality



PROTECTING OUR WATERWAYS

Capture the Rain through Green Infrastructure





What is a Watershed?

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The Ullhards River watershed in a large one, including 1.1 million across of load in Arternas and Obishawan, that drains in the Blain's River. The Blaint's River starts in Regarge, Arternas and Issuels nextly, and then went into Obishawan, where it reventically manifest also Tablishe. These Rows into the Arternas River, then to the neighby Minnissippi and dense to the Guld of Manifest.

Illinois River Watershed Partnership

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What is Green Infrastructure?

Green infrastructure is, an approach to valenthell management that uses vegetation, solls, and satural processes to manage rais water where it falls. Green infrastructure can be used at a wide range of Landouge souldes in place of, or is addition to, more fractitional rannell control observed to support the principles of two impost Burelognant (LIQI).

What are the Benefits of Green Infrastructure?

Green infrastructure ass:

- Reduce non-point source pollution to improve water quality.
- Slew down runoff into nearby waterways.
- · Help downstream property and prevent streambank erceion.
- · Control flooding and help repharge groundwater.
- * Attract wildlife and enhance bindiversity

Green infrastructure also addresses the negative impacts of higher water temperatures from streets, roof bags and sparking lots, which are harmful to the health and reproduction of aquatic life in atteams.

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You can do many things to help pretect and improve water quality flustecing hvilians and positicities on your properly, planting trees and plants along attrambunks, extentioning or loading a creek creamup in your community, are some examples. You can also help in your landscapes by planting native plantin!

Notive plants betp to souk in water into their deep root excesses and are beneficial to whichly sed politicalors. Haline plants that are adapted to our region seed less water and or easier to maintain.

Here are a low examples of autive plants















15 Demonstration Projects:

Porous Pavers/Pathways

Bioswales

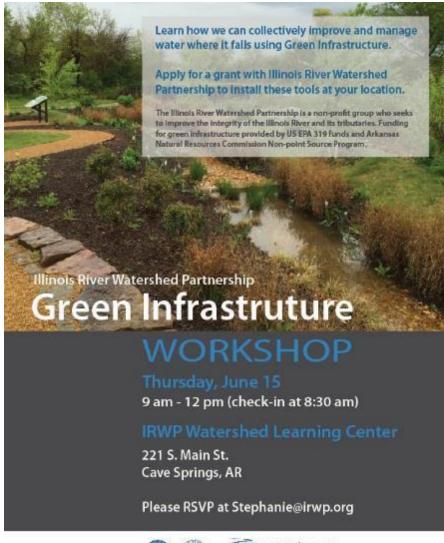
Rain Gardens

Water Harvesting











June 2017 15 Participants at GI Workshop IRWP Watershed Learning Center Cave Springs, AR





www.irwp.org 479-215-6623





Completed projects to-date:

First United Presbyterian Church, Fayetteville

Northwest Arkansas Land Trust, Fayetteville

JBU Campus, Siloam Springs

Mathias Elementary, Rogers

George Junior High, Springdale

Butterfield Trail Elementary, Fayetteville





































Projects approved/in-progress:

Don Tyson School of Innovation, Springdale
Siloam Springs Parks Dept., Siloam Springs
Har-ber High School + Hellstern, Springdale
JO Kelly, Springdale

Botanical Garden of the Ozarks, Fayetteville

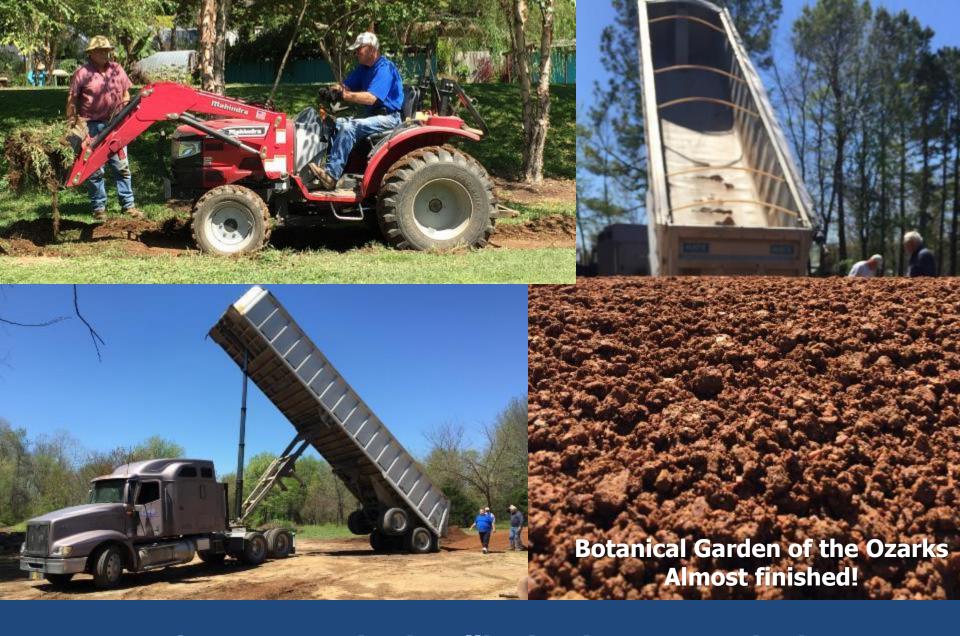
Benton County Extension, Bentonville

Heritage High School, Rogers

City of Lowell, Lowell

Gregory Park, Fayetteville







Cost Breakdown:

	Project Cost	Pervious Area (sqft)	Pervious Cost per sqft	Impervious Area (sqft)	Impervious Cost per sqft
First United Pres. Church	\$4608.13	302	\$15.26	3217	\$1.43
NWA Land Trust	\$5619.86	670	\$8.39	13525	\$0.42
John Brown University	\$2035.13	1646	\$1.24	7959	\$0.26
Mathias Elementary	\$6477.66	1090	\$5.94	2271	\$2.85
Averages:	\$4685.20	927	\$7.71	6743	\$1.24





Lessons Learned:

- Form a long term maintenance plan
- Work with someone experienced for design creation
- •Get work bids <u>EARLY</u>, and leave room in your budget for unexpected costs
- •Be clear with planting instructions before starting to plant
- •Place plants where they need to be planted before volunteers arrive





Thank you!

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