

City of Branson Sustainability:

2016 Summary

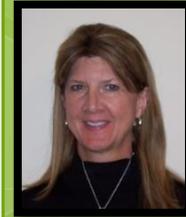


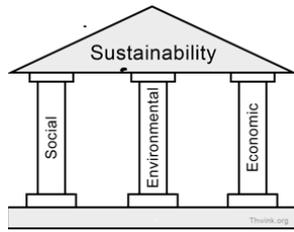
On Behalf of Branson
Sustainability Council

**EIGHT YEARS:
"Creating our
Preferred Future"**



Mona Menezes
Environmental Specialist
March 2017

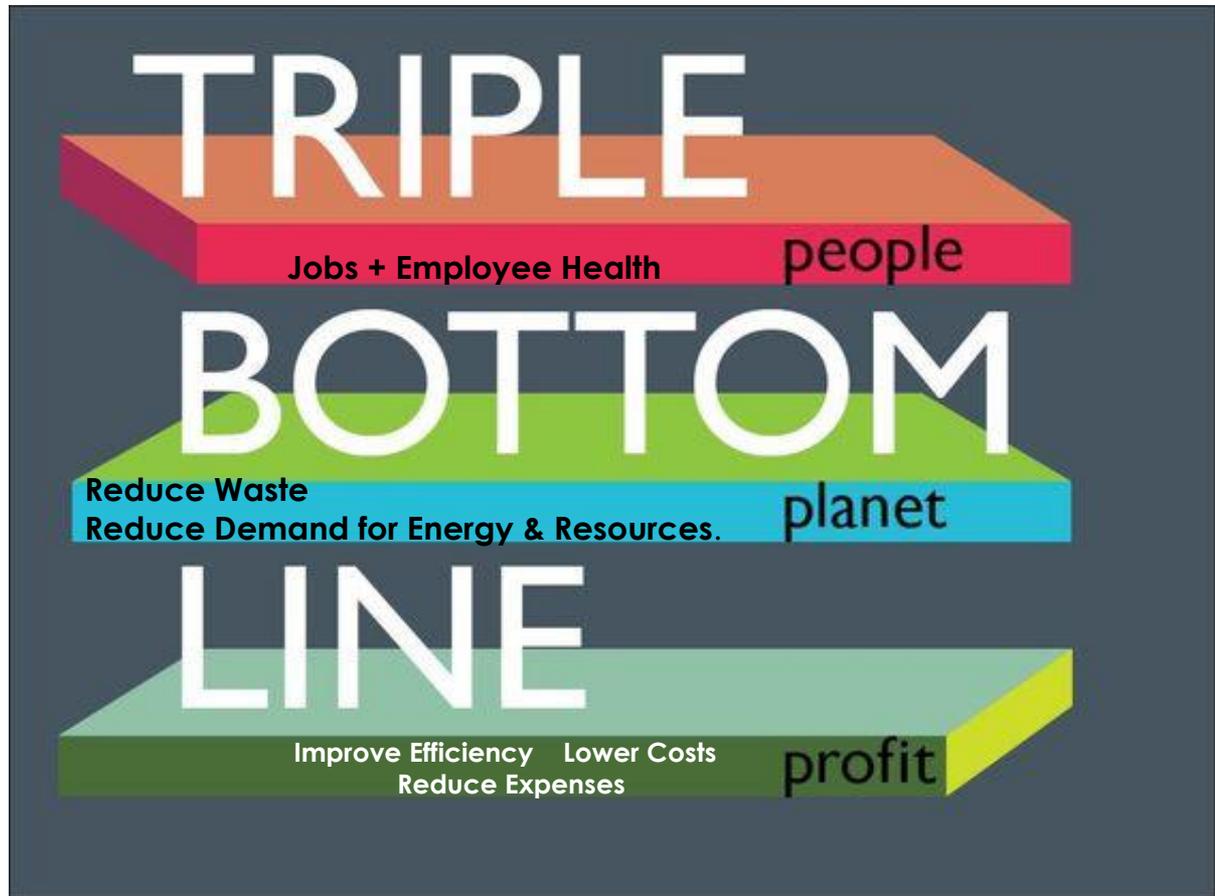




PEOPLE

+ PLANET

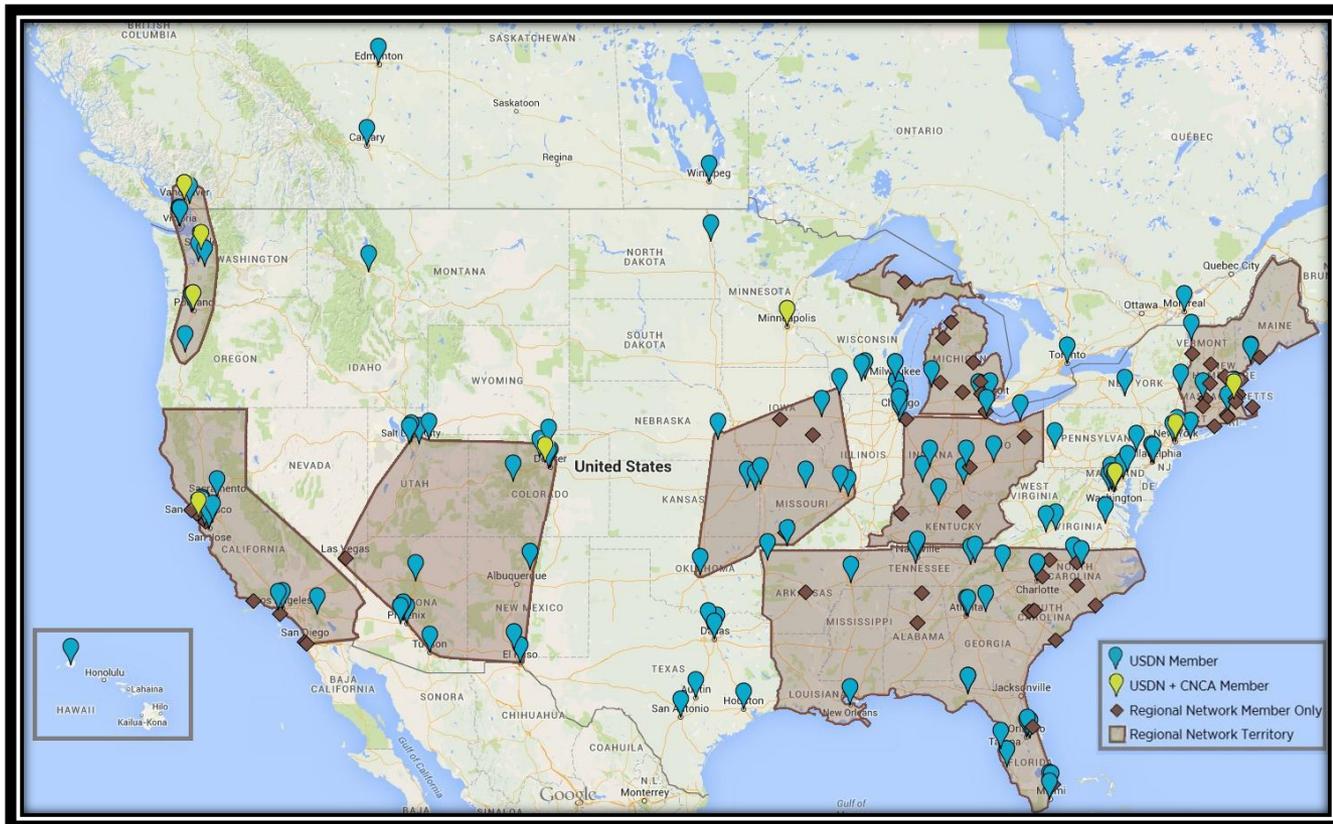
+ PROSPERITY



= sustainability

Urban Sustainability Directors Network

- Bigger than Just Us
- 141 Members Nationwide



8 Years Ago...

Then: 24/7 Lights
When Building is Locked



Now: No More 24/7
Lights in Restrooms

Then: Airlock Doors Propped Open



Now: We Closed the Airlock Doors....

RecPlex Goes LED in 2010



310 LED Fixtures (2010) = \$46K Savings at RecPlex (\$6635/year)

- 5X Life span of bulbs

PAPERLESS:

- Parks
 - Police
 - Clerks
 - HR
- 17,790
 - 100,000
 - 336,528
 - 10,500+

TOTAL 2016: 464,218

TOTAL 2014-16: 1,392,654

Paper and ink cartridges never purchased/recycled/disposed

WASTE TO ENERGY

THEN

- 2010
- 985 gallons
- 18 drums
- \$1034 to dispose



NOW

- 2011-2016
- 4,925 Gallons
- 108 Drums
- (\$7238) Disposal



At the Branson Recycle Center
USED MOTOR OIL = HEAT



← THIS
BECOMES
THAT
→



YOUR USED MOTOR OIL IS OUR HEAT, IN A WASTE-TO-ENERGY FURNACE PROVIDED THROUGH A GRANT.

WE USED TO HAVE TO PAY TO DISPOSE OF UNWANTED OIL FROM TANEY COUNTY RESIDENTS. NOW WE USE IT TO HEAT OUR RECYCLE CENTER.

EVERYBODY WINS!

\$ustainability \$avings Make \$ense:

○ RecPlex LED Lighting (2010)	\$	6,635.00
○ Recycle Center Oil Recycling (2010)	\$	1,034.00
○ Paperless Board Meetings/Clerks Office (2010)	\$	10,556.00
○ Battery Recycling (2011)	\$	920.00
○ Energy Service Contract (2012)	\$	116,086.00
○ Change out downtown street lights (2012)	\$	3,443.00
○ Organic produce grown at Fire Department (2013)	\$	300.00
○ Computer Servers (2013)	\$	400.00
○ Computer HVAC (2013)	\$	19,800.00
○ Police Eco-Boost/Fuel Savings (2014)	\$	5,477.00
○ Utilities/WTP Lights & Heat Pump (2015)	\$	9,000.00
○ Convention Center Energy Savings (2015)	\$	113,049.00
○ Courts Eliminate Returned Mailings (2015)	\$	2,080.00
○ Fire Station Clean and Green Changes (2015)	\$	1,000.00
○ Energy Eff. HVAC at WWTP (2015)	\$	2,955.00
○ WWTP Polymer (2015)	\$	40,000.00
○ Non-potable water line (2015)	\$	30,000.00
○ Finance Paperless Billing (2015)	\$	3,449.00

Total Annual Savings

\$ 366,384.00

Today....

417 Magazine: “...My stereotype of Branson has just been blown. I thought your city was stuck in a 1950s mindset. This has shattered the ideas I had about Branson being up to date on sustainability efforts. I’m going to shine a ‘green light’ on your city.”

The screenshot shows the Branson City Government website. At the top, there are two news alerts: "HWY 76 UPDATE!" and "BRANSON HWY 76 ALERT: Contractors struck 8" waterline at Gretna". Below the alerts is the Branson logo and a navigation menu with links for GOVERNMENT, SERVICES, COMMUNITY, VISITING, and CITIZEN HELP CENTER. A search bar and "SHARE" and "SITE TOOLS" buttons are also present. The main heading reads "Engage With Your City Government". A breadcrumb trail indicates the current location: "You Are Here: Home > Community > Environment & Recycling > Sustainability". The "Sustainability" page is highlighted with a red circle. It features a list of "Sustainability Reports" including the 2012, 2013, 2014, and 2015-2016 Sustainability Annual Reports. A sidebar on the left lists various community programs like Adopt-A-Street, Commercial Recycling, and Recycling.

HWY 76 UPDATE! Gretna Road to close for utility construction north of Hwy 76 to Francis Street Feb 13-17 [MORE>>](#)

BRANSON HWY 76 ALERT: Contractors struck 8" waterline at Gretna [Read On...](#)

SHARE SITE TOOLS Search

GOVERNMENT SERVICES COMMUNITY VISITING CITIZEN HELP CENTER

Engage With Your City Government

You Are Here: [Home](#) > [Community](#) > [Environment & Recycling](#) > [Sustainability](#) [View archive](#)

Sustainability

Sustainability Reports

- o 2012 Sustainability Annual Report
- o 2013 Sustainability Annual Report
- o 2014 Sustainability Annual Report
- o 2015-2016 Sustainability Annual Report

- Adopt-A-Street
- Business and Commercial Recycling
- Mayor's Milkweed for Monarchs
- Green Initiative Award
- Household Chemical Collections
- Recycling
- Sustainability

ADMINISTRATION: People, Planet & Prosperity



Foster an organizational culture of leadership that drives sustainable thinking and actions that positively impact PEOPLE, PLANET & PROSPERITY

- **Community Plan 2030 Goals** – nurture, evolve and preserve community character
- **Community Engagement** – bridge gaps between residents, visitors through effective governance that considers needs, preferences and perceptions of our people
- **Communications Effectiveness** – ensure effective communications with all community members through awareness, education, relationship building and community involvement
- **Leadership Development** – help city and community leaders to achieve goals defined by Community Plan 2030 and drive accountability as measured by the Community Score Card

ADMINISTRATION: People, Planet & Prosperity



Economic, Environmental & Integrated Sustainability *76 Revitalization & Downtown Streetscape Projects*

- Safe, continuous pedestrian-friendly sidewalks encourage walkability
- Infrastructure improvements include energy efficient LED lighting
- Encourage exploration of transportation alternatives, e.g. approved horse-drawn carriage downtown, undergoing feasibility study by American Gondola to explore people mover system potential

ADMINISTRATION: People, Planet & Prosperity

Social & Cultural Sustainability → Communications & Community Engagement



- Go Digital, Go Mobile: New 'City Connection' community newsletter available as online ePub optimized for mobile devices encourages subscribers to opt for reducing printed publications. Print edition available only on recycled paper!

Preservation of Culture & Heritage = Social Responsibility

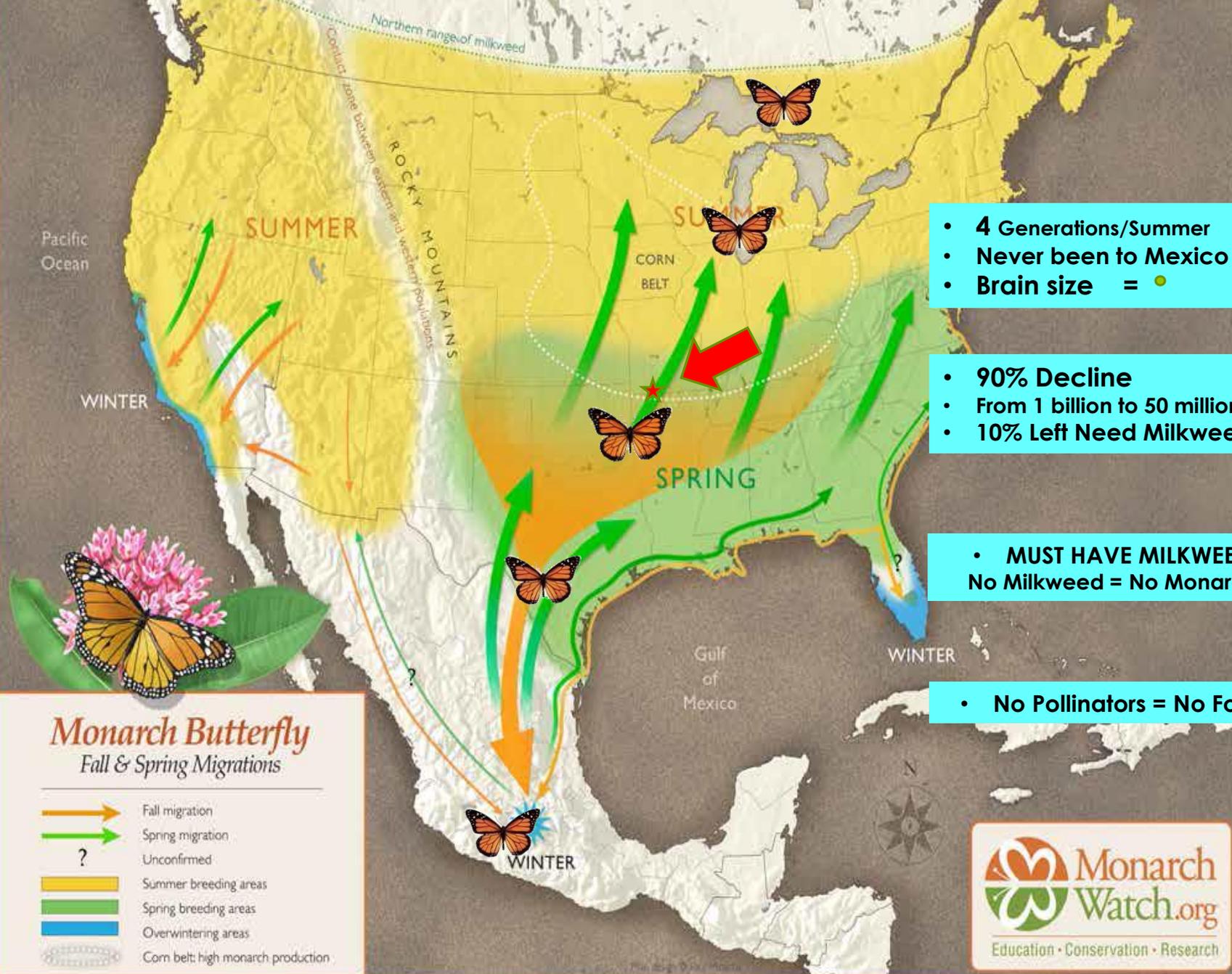
- Honoring Veterans: Statues relocated to honor the work and sacrifices of our Veterans...Fosters sustainable appreciation of our freedom and heritage
- Recognize 'Hometown Heroes': Benefit the Badge to support law enforcement, Fire Engine 'Wet-Down Ceremony', etc
- Engaging community to learn and respond to the needs, preferences & perceptions most important to them they expressed in Branson's bi-annual survey



Mayors' Monarch Pledge

- 90% Monarch Decline in 20 Years
- Mayor Best
 - 199th Out of 275 Mayors
 - Texas to Minnesota
- 3 Nations
 - No tweets
 - Not affected by wall between Mexico
- Pledged 10 action items for Branson
- Mayor Slay of St. Louis-
 - Every city property
- 3M HQ in Minnesota
- Bass Pro Branson
- Ball Parks of America
- Silver Dollar City
- Downtown Association





- 4 Generations/Summer
- Never been to Mexico
- Brain size = ●

- 90% Decline
- From 1 billion to 50 million
- 10% Left Need Milkweed

• **MUST HAVE MILKWEED**
No Milkweed = No Monarch

• **No Pollinators = No Food**

Monarch Butterfly
Fall & Spring Migrations

- Fall migration
- Spring migration
- Unconfirmed
- Summer breeding areas
- Spring breeding areas
- Overwintering areas
- Corn belt: high monarch production



Downtown Project

- 20 Recycle Bins
- Furniture & Street Poles = 90% Recycled Plastic



LASERFICHE IS COMING!

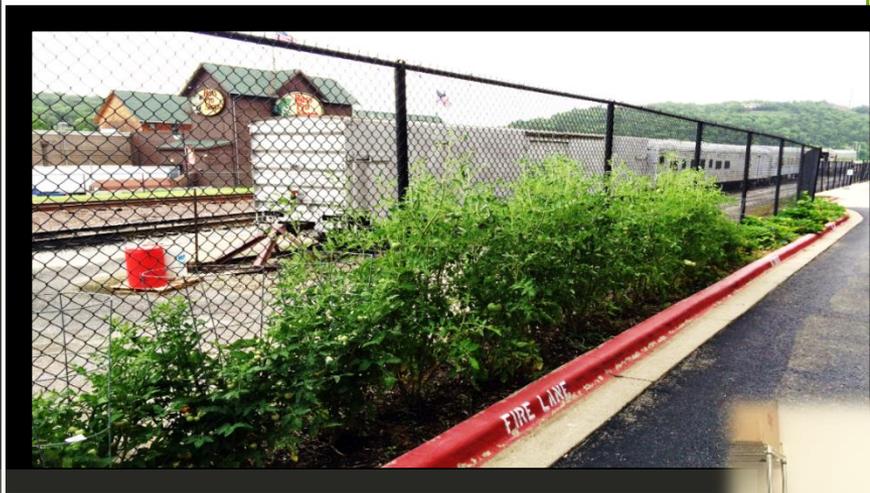
RECORDS MANAGEMENT SOFTWARE

MORE SUSTAINABILITY:

- Less paper - Easy Archiving
- Employee efficiency -
Streamline Processes
- Electronic Forms
- Automate Agenda Process

- seamless workflow process documents
 - created electronically,
 - flow through a review and approval process,
 - stored for retention.
- Used for the agenda process
 - for the City's boards and committees,
 - electronic submittal of documents,
 - creation of agendas,
 - electronic voting
 - recording of meetings,
 - access and searching capabilities through the City's website
 - Final retention residing in Laserfiche.

Branson Convention Center Creates Urban Garden



Convention Center's Railway Herb N' Garden



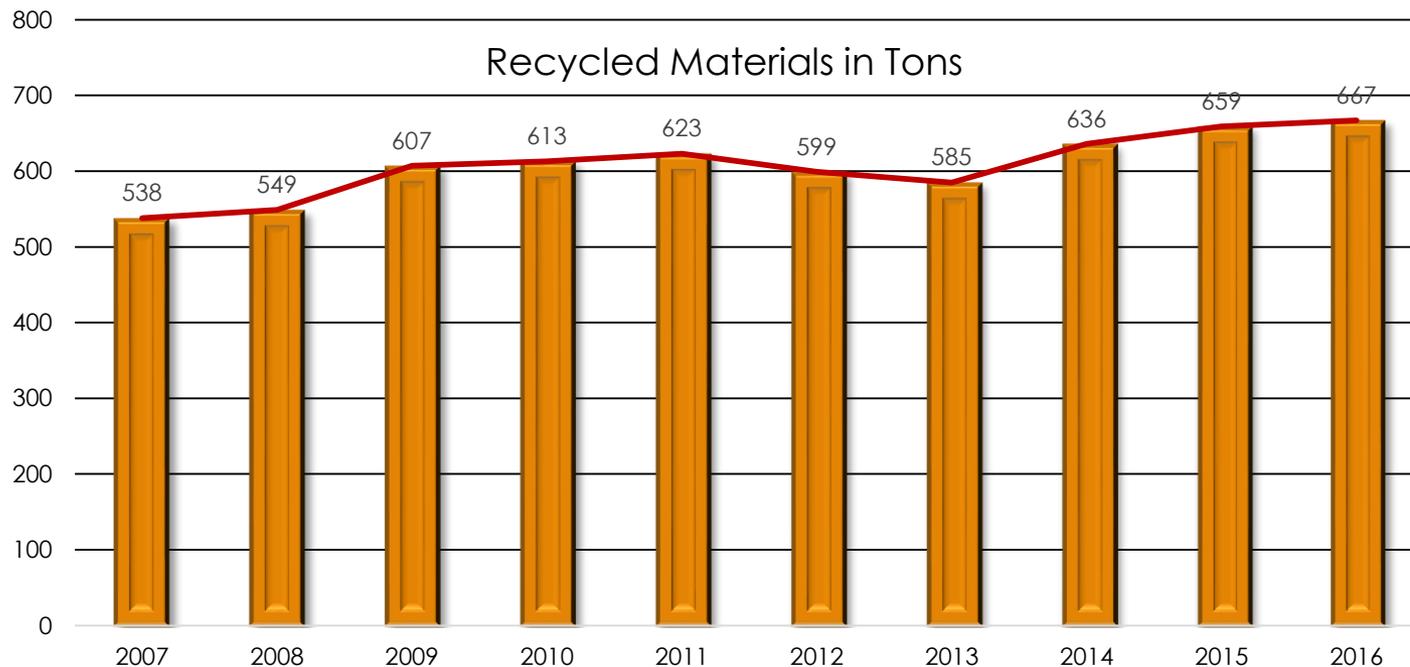
5 x 300'



Branson Named “Outstanding Recycling Collections System 2016”

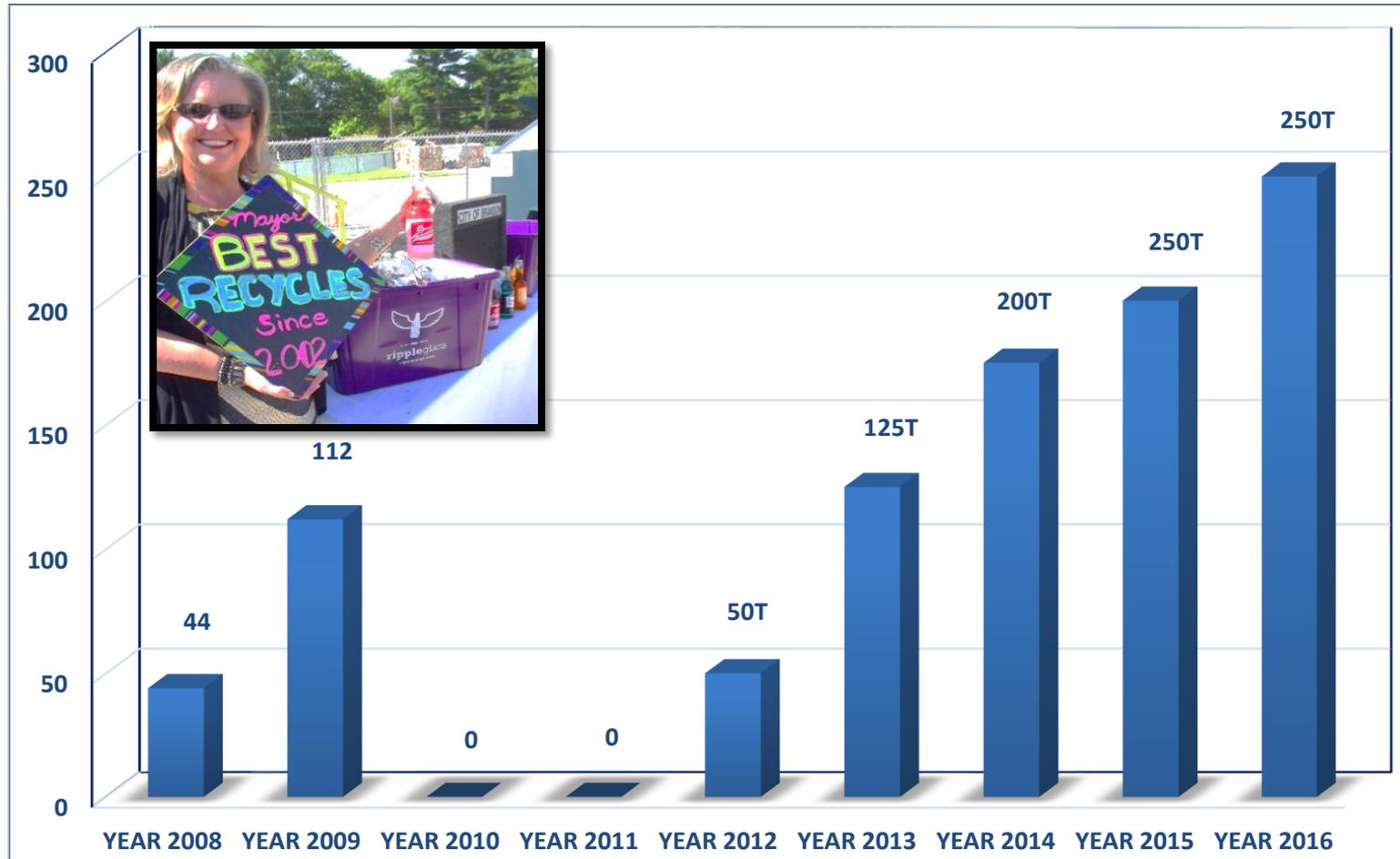
Missouri Recycling Association

Steady Growth: 23.9% since 2007



GLASS RECYCLING 2012-16

- 850 TONS in 4 Years
- 34 Semi-truck loads



“Glass Recycling Program of the Year”



- Identifies us to visitors: Sustainable Destination

PAPERLESS BILLING = \$4,034.92 Annual Savings

FROM THIS:



Did you know?....
Average household receives 6 pounds of bills by mail.
Recycling is good, paperless is even better!

TO THIS:



At 7% participation:

Eliminate 6,648 sheets of paper + ink cartridges.
Projected Savings: \$4,034.92 annually.

2011: Initiated Print Cartridge Recycling for all Departments

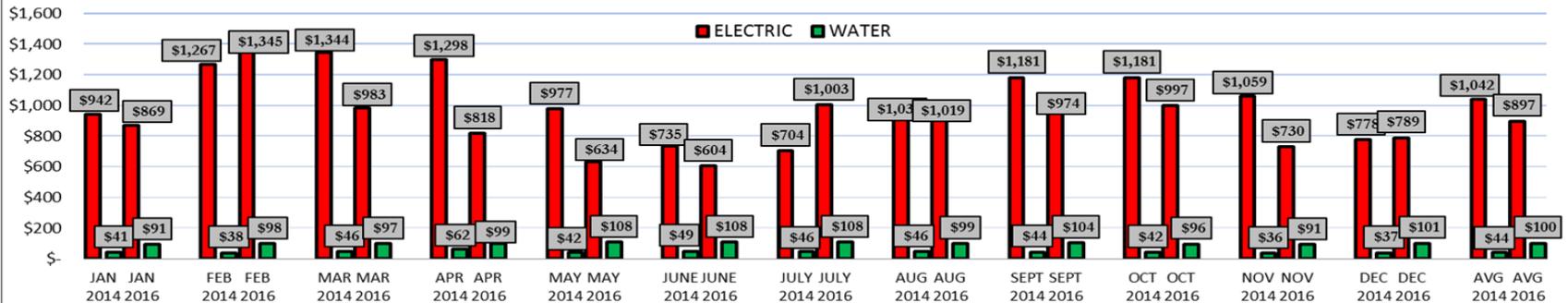


460 Print Cartridges Recycled/year

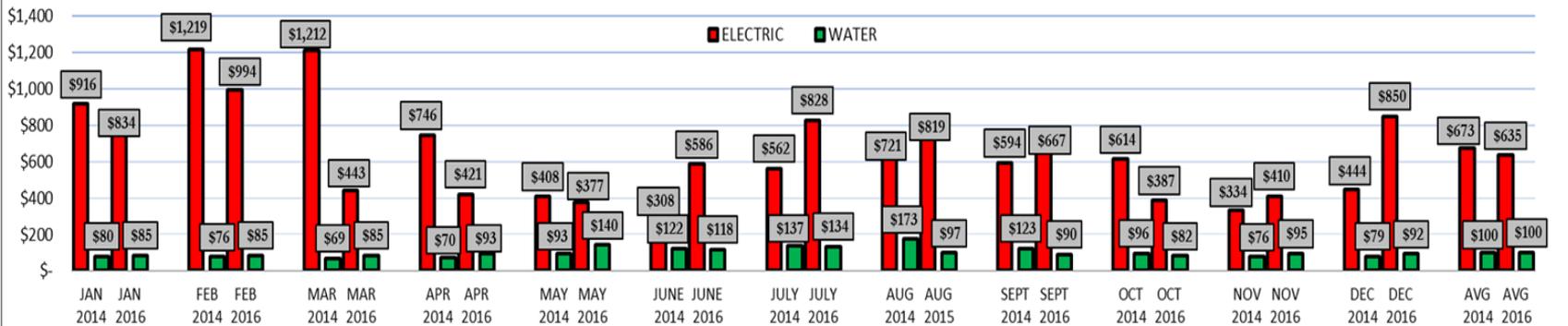
2,300 Recycled since 2011

Fire Department Continues Sustainability in 2016

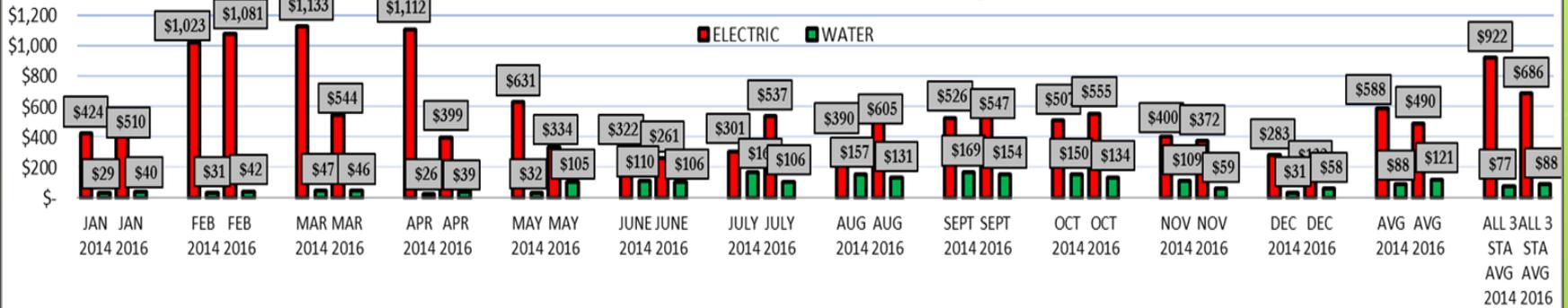
STATION 1 UTILITY USAGE - 2014/2016



STATION 2 UTILITY USAGE - 2014/2016



STATION 3 UTILITY USAGE - 2014/2016



* 2015 UTILITY FIGURES WERE NOT TRACKED

- **TRACKING STATION UTILITIES MAKING PERSONNEL "UTILITY USE" AWARE**
- **USE OF THE ARSENAL CLEANING SYSTEM CONTINUES TO CUT THE COST OF CLEANING SUPPLIES**
- **ALL FIRE STATIONS RECYCLE DAILY**

Arsenal ONE Savings...

- Less Packaging
- Reduced Transportation
- Less Waste
- Lower Cost

2.5L Refill Concentrate* = 172 READY-TO-USE QUARTS!

*Arsenal One refills have a range of dilution rates. This example uses Arsenal X, Re-Juv-Nal, dilution rate 2 oz per gallon of water.

Urban Garden 2016 - Keeps on Growin'

Fire Station 2:

- Expanded Garden - Station 3
- Added new fruits and vegetables
- Makes for healthier employees!



All New Employees: Sustainability Orientation

<https://www.youtube.com/watch?v=HORkFkEKiH0>



HR Accomplishments in 2016

118 new hires trained in sustainability during orientation

- **Recycling –**
 - Educated new employees about the Recycle Center during the orientation tour.
- **Health and Wellness:**
 - Promoted healthy living – “People” part of the Triple Bottom Line (People + Planet + Prosperity)
 - Designated “Fit-Friendly” Organization 3 years in a row.
 - Met American Heart Association Standards.
- **Virtual documents and forms used wherever possible.**
 - Scanned and emailed applications.
 - HR Manual Online eliminating 10,500+ copies annually.
 - Implemented online open enrollment of health benefits for all employees.



This workplace has been recognized by the American Heart Association for meeting criteria for employee wellness.



**We work smarter: copy and print less; store and send electronically more.
We Reduce, Reuse, and Recycle whatever we can.**



- Longer lifespan
- No splinters
- Eliminates annual maintenance/repairs

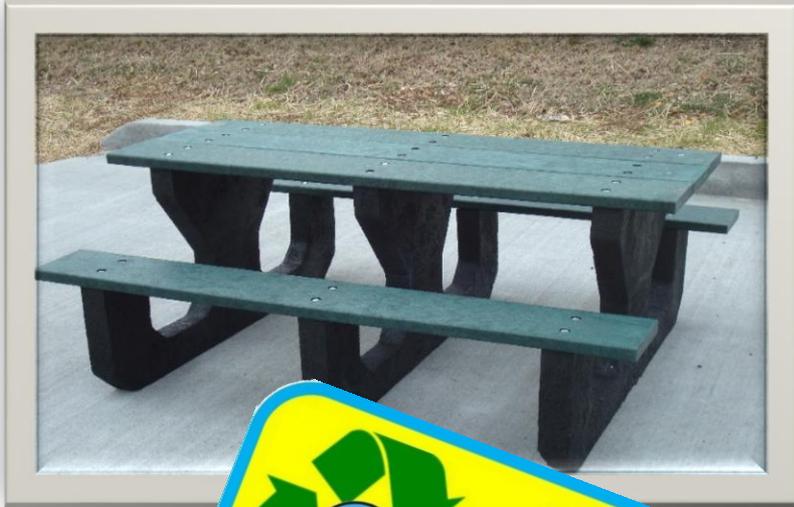


New Scorekeeper Stands at RecPlex
Using Sustainable/Recycled Materials: Recycled Plastic + Sawdust

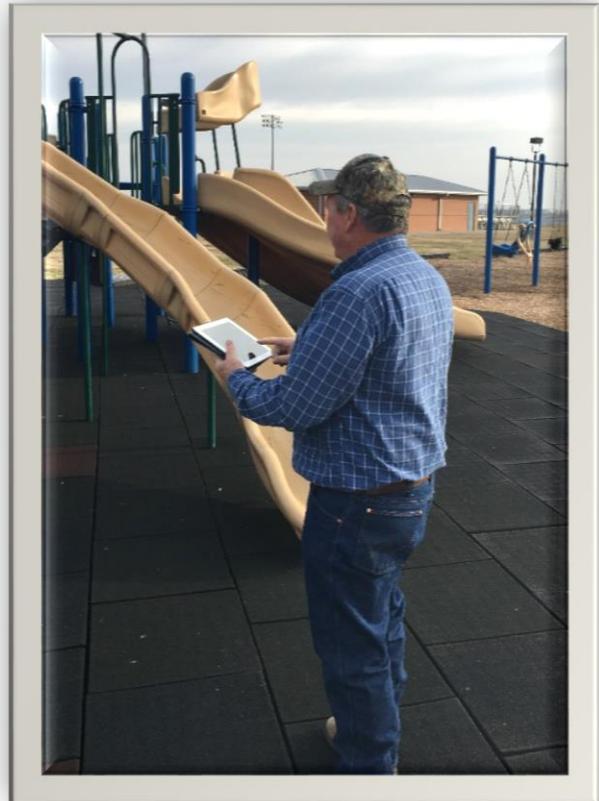
Plus:
155,500 water bottles refilled at RecPlex!



Paperless Park Inspections




THIS BENCH IS MADE FROM 100% RECYCLED MATERIALS SUCH AS SCRAP TIRES, MILK JUGS AND PLASTICS
Funding Provided by City of Branson Sustainability Council



Since 2008: 1,171 Trees

2016 Efforts...272 Trees

Arbor Day (April)

- 250 short-leaf pine seedlings
at Lakeside Forest Wilderness Area

Arbor Fest (October)

- Bald Cypress at North Beach Park

Other Plantings

- **3 for Retiring Aldermen**

- Epps Park: Cris Bohinc
- Parnell Park: Pat Parnell
- Lakeside Forest: Rick Davis





14 Islands
4,660 LF (0.89 miles)
43,480 sq. ft. (0.998 Ac)

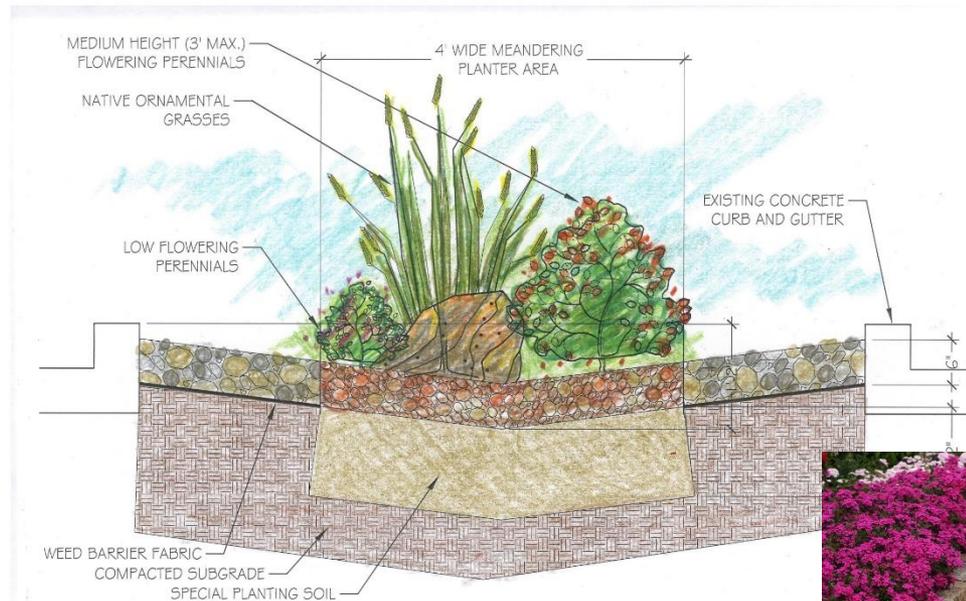
Traffic Islands = Worker Fatality

Old Landscaping =
Dangerous and Costly



2016 Efforts...

- Gretna Road Island Project
 - Safer for Staff
 - Reduce maintenance
 - 4108 Mostly Native Plants
 - 144 Butterfly Milkweed



Native Plants



Beautification Awards

May: Bank of Missouri
1313 State Highway 248

June: Central Bank
400 South Business 65

July: Chick-fil-a
607 West Main Street

August: Rose House
673 Spring Creek Road

September: Brookwood Inn
2875 Green Mountain Drive

October: The Branson House
120 North Fourth Street



2013 Improving MPG's in patrol vehicles;

Older Ford Crown Victorias	9 mpg
Newer Ford Interceptor sedans	12 mpg
Newer Ford Interceptor Utilities	13 mpg
New Dodge Chargers	14 mpg
Can Am's are getting approx.	19.5 mpg

Police Eco-Boost/Fuel Savings

\$ 5,477/YR
(\$ 21,908/4 YRS)





- **2016 Launch E-Tickets
Reduces paper and time**
- **Reduced copy paper
45 cases/yr**
- **Increase recycle bins**
 - **From 4 to 14**

- **Drug Drop Box**

- 2016: 420 pounds of unwanted medication
- Keeps drugs out of hands of children, water supply.



- **2,789 pounds disposed since 2011**

Public Works

Streets, Building Maintenance, Garage, Sign Shop

Reduced:

- Toner by 15%
 - selecting 'draft mode' - All Areas



Reduced:

- Carbon Emissions
 - Replace Gas Salt Spreaders/Electric



Reduced:

- Land Erosion
 - Drafting ordinance/reduce land disturbance
- Pollutants in Water
 - Water Quality Test Kit-Stormwater

Equalization Basin

1M Gallons

Lift Station 21 (Largest)

165 Near Fall Creek Steak House



**• CLIMATE ADAPTATION
REQUIRED FOR
BRANSON UTILITIES**

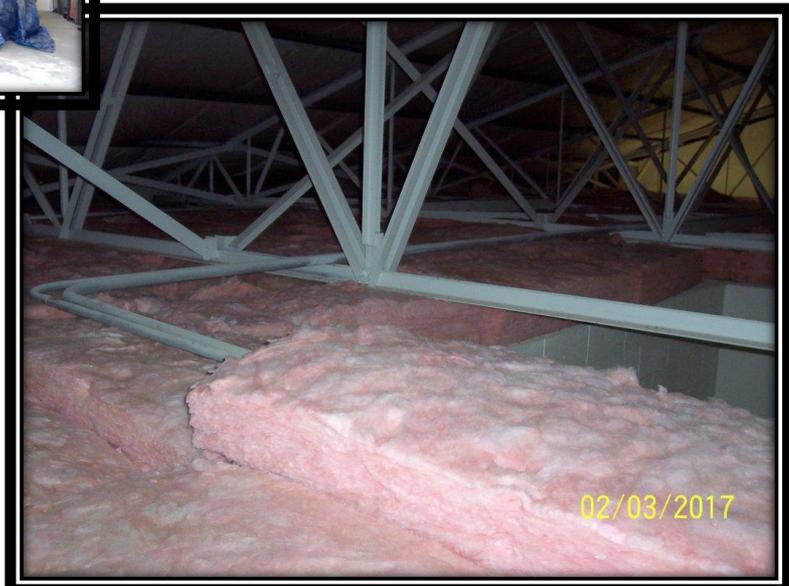
- Flooded
- Moved Electrical to Top
- Protects Water Quality
- Greatly reduces risk of sewer spills in Fall Creek watershed



- Total: 7,591 sq. ft
- Savings: \$8,696.00



Ripple Insulation at WTP



- Renovated Lift Station Shop
 - 1865 sq. ft. recycled glass insulation
- Meadows Water Treatment Project
 - 5,726 sq.ft recycled glass insulation

COMPLETED Coming in 2016:

- Change the Corporate Culture
- Every Employee is on the Sustainability Team

Comments & Questions?

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