



City of Branson Sustainability:

2017 Summary

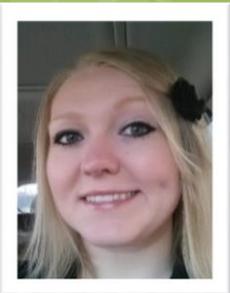


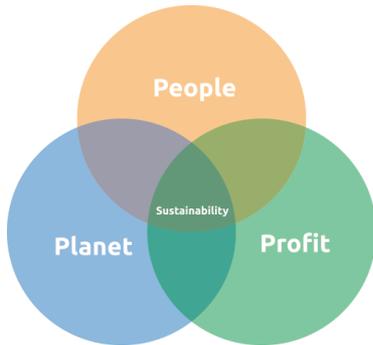
On Behalf of Branson
Sustainability Council

*“Creating our
Preferred Future”*



Mona Menezes
Environmental Specialist
March 2018

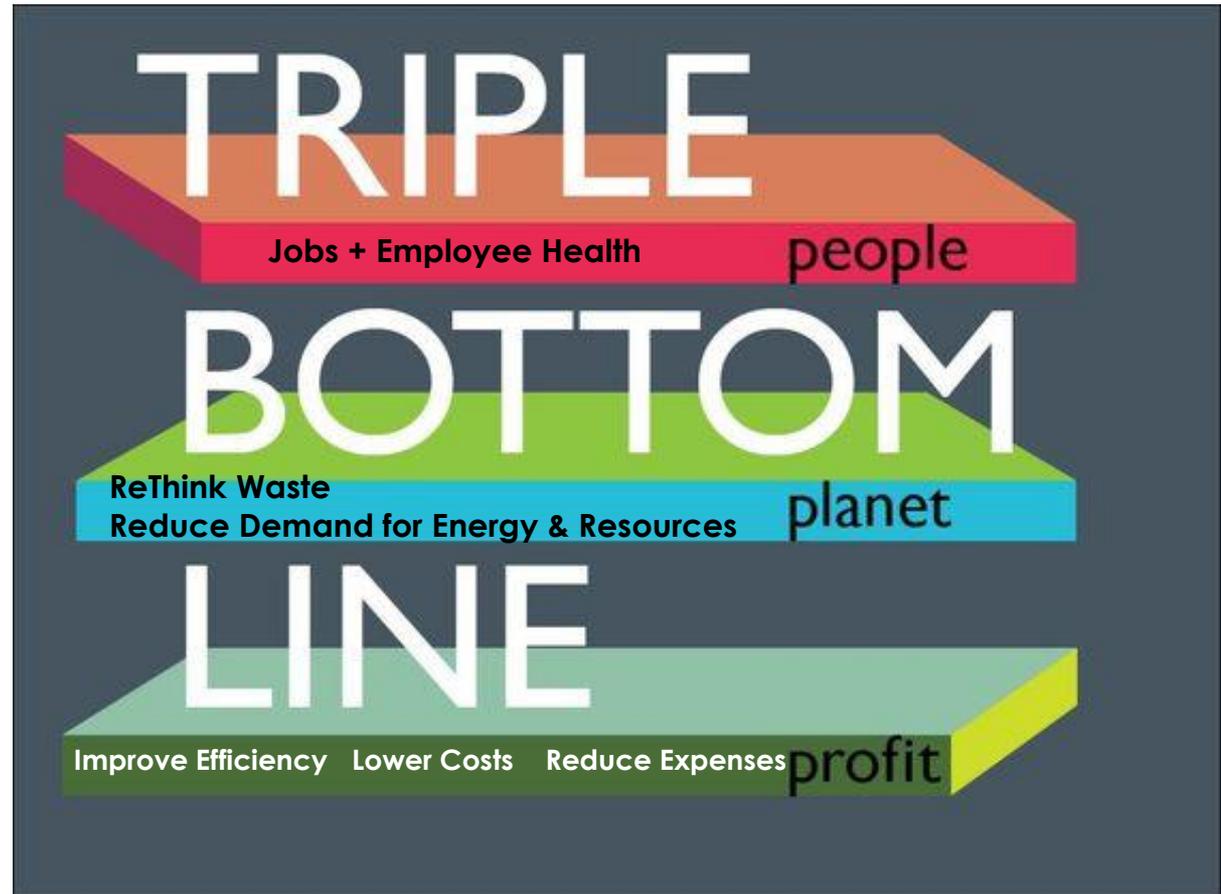




PEOPLE

+ PLANET

+ PROSPERITY



= sustainability

\$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
○ Gretna LED 90 Street Light Change Out (2017)	\$	2,106.00
○ Metal Halide Lights @ Water Treatment Plant (2017)	\$	456.00

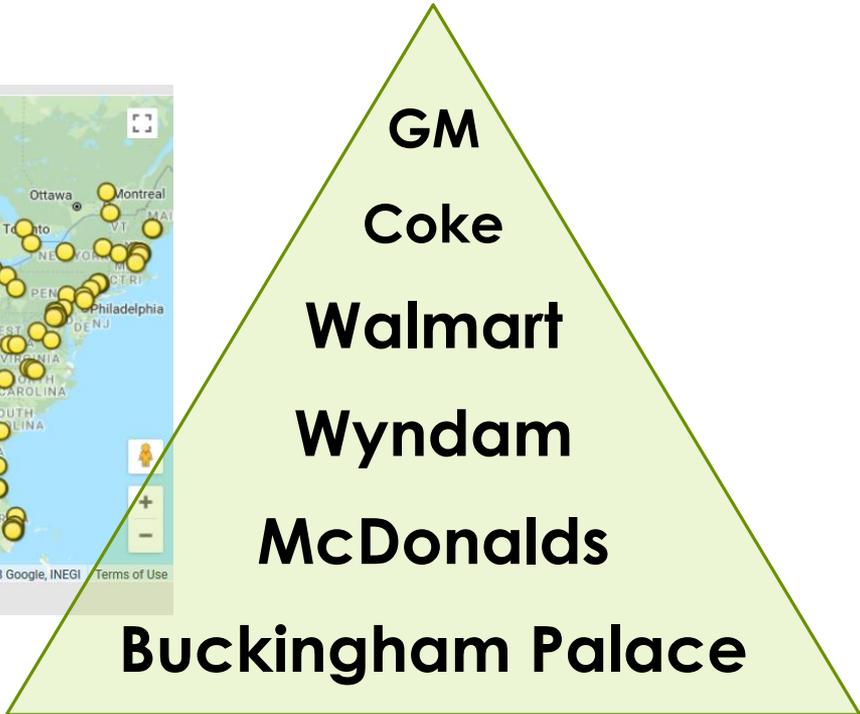
Total Annual Savings

8

\$ 368,946.00

Urban Sustainability Directors Network

- Bigger than Branson
- 185 Members Nationwide



100%
recycled fiber



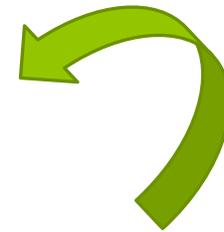
*"Queen of England Bans Straws & Plastics from Palaces..."
The Telegraph 2/7/18*

**PUBLIC SPACE
PAPER PRODUCTS**

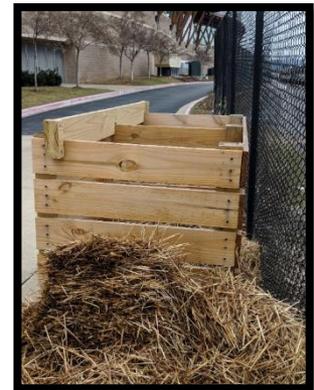
**FOOD SERVICE
DISPOSABLES**

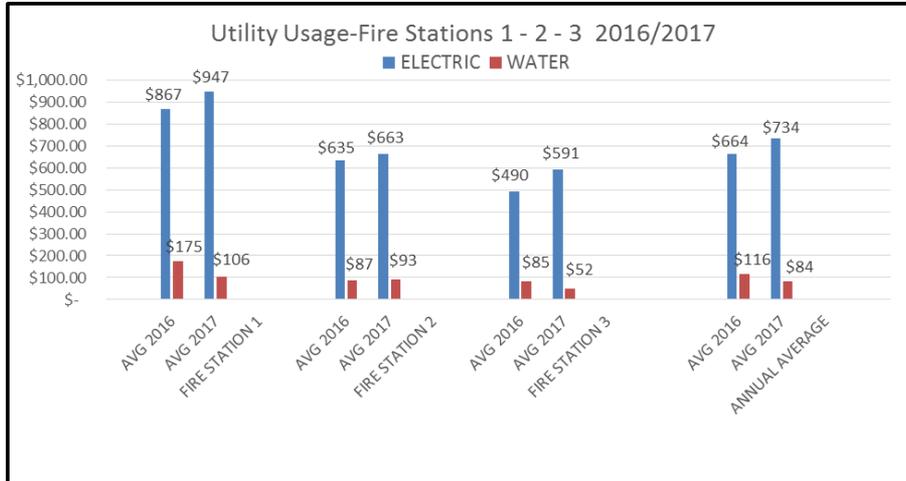


Composting



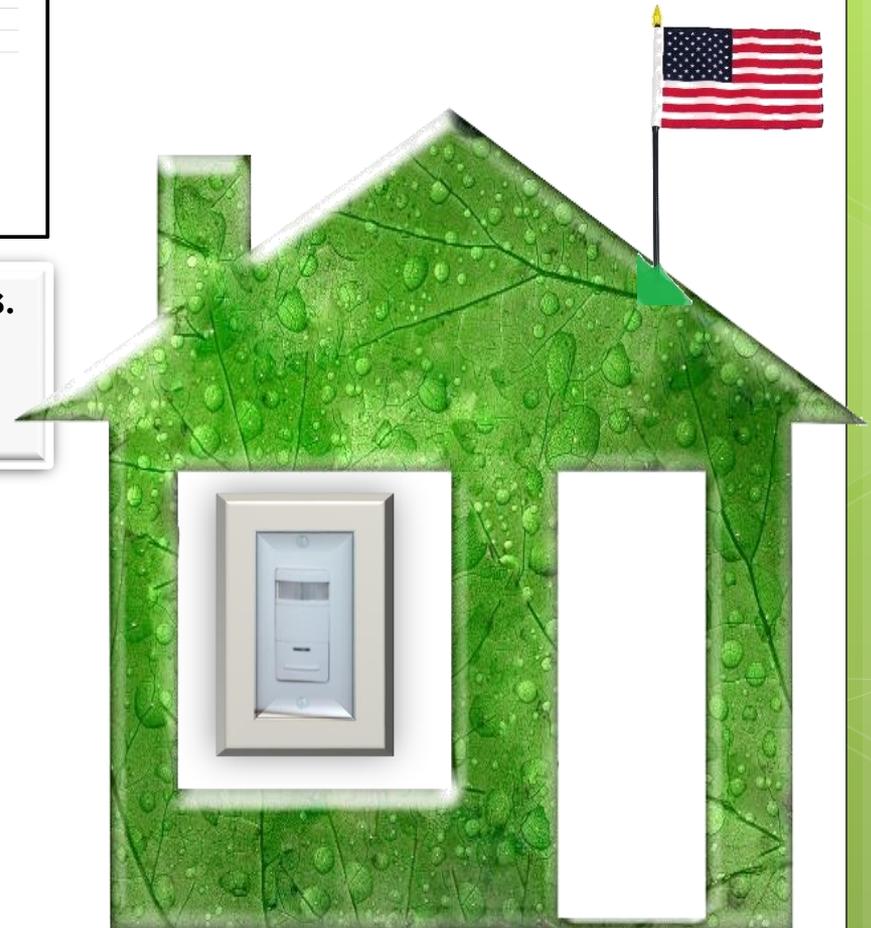
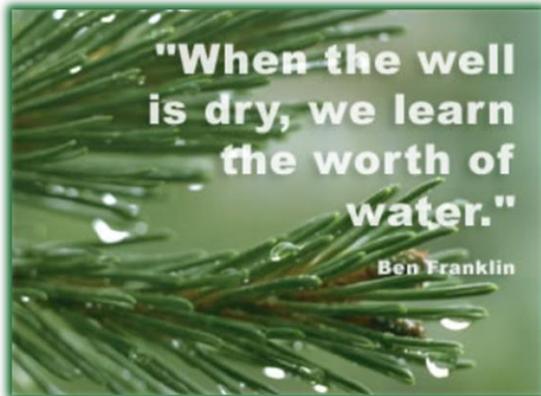
- Kitchen Food Waste
- Coffee Grounds
- Fertilize Railway Herb-N-Garden

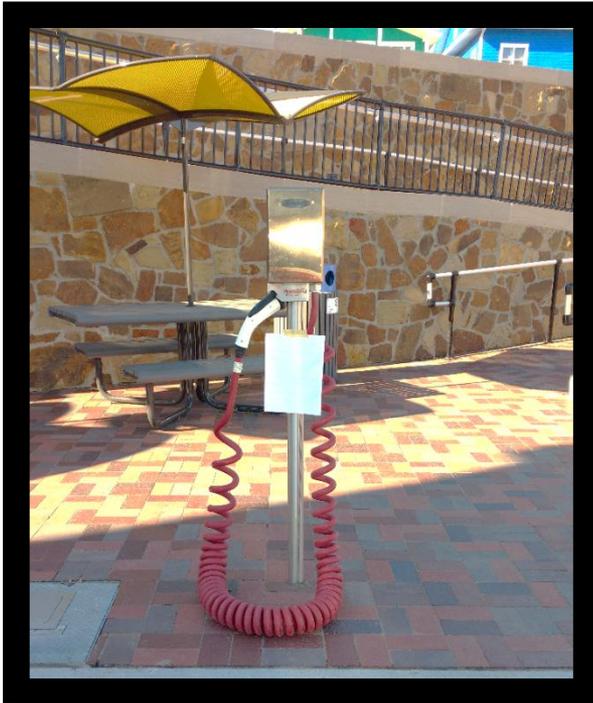




Stations are switching outlets to light sensor switches, no movement, no light!

Fire Stations taking steps to reduce utility costs.
Conserving energy using light sensors and water conservation.





FB Post:
Reached 4,756 Users

“ I want to thank you for being forward thinking enough to have an electric car charger in town!!”

(Candy Carpenter, Indiana) Email to Mayor Best

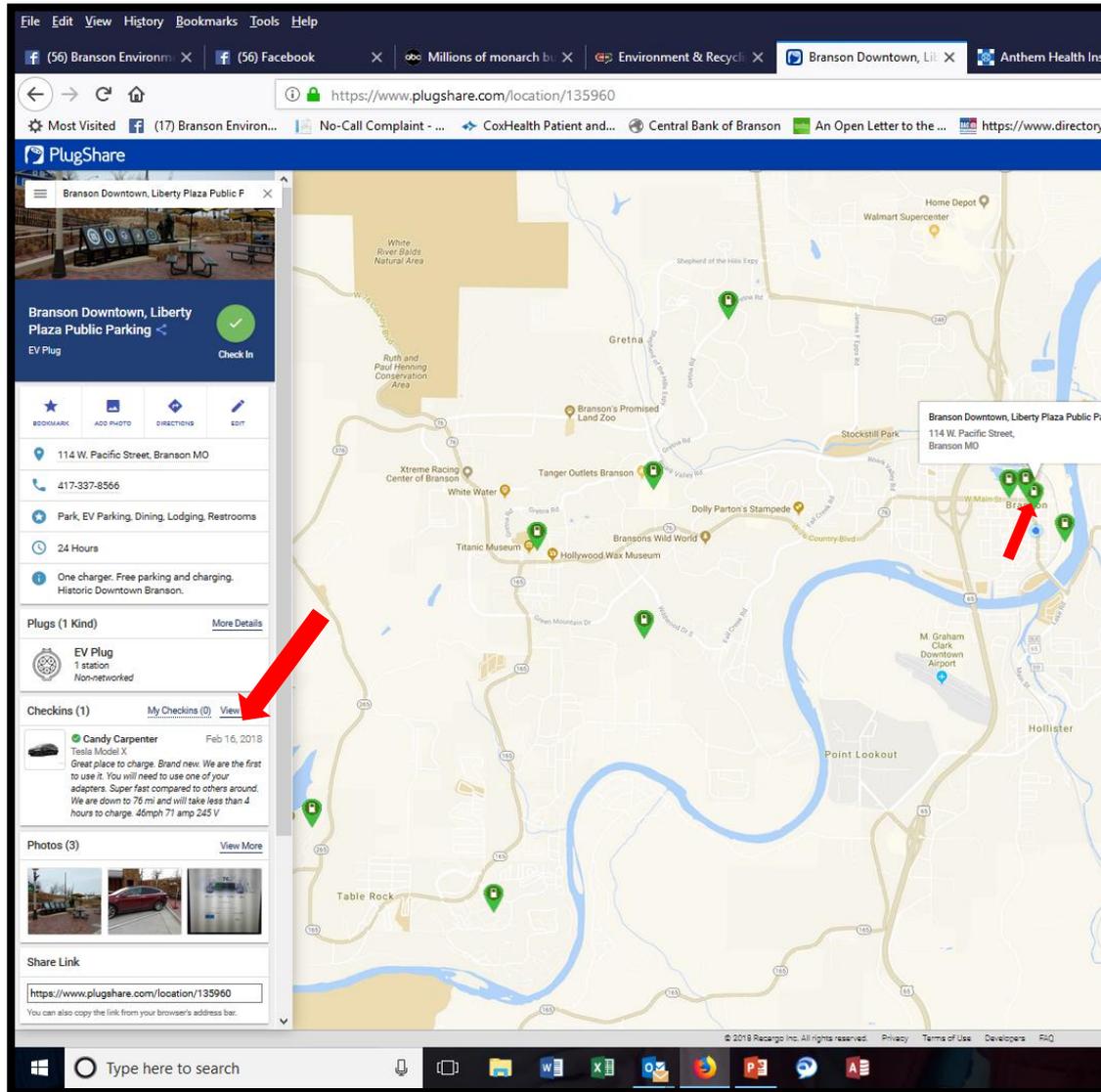


Branson Landing (8):

428 Charges/Year
1.18/Day Average



City's First EV Charging Station:
Liberty Plaza
Liberty Plaza is newest & FASTEST



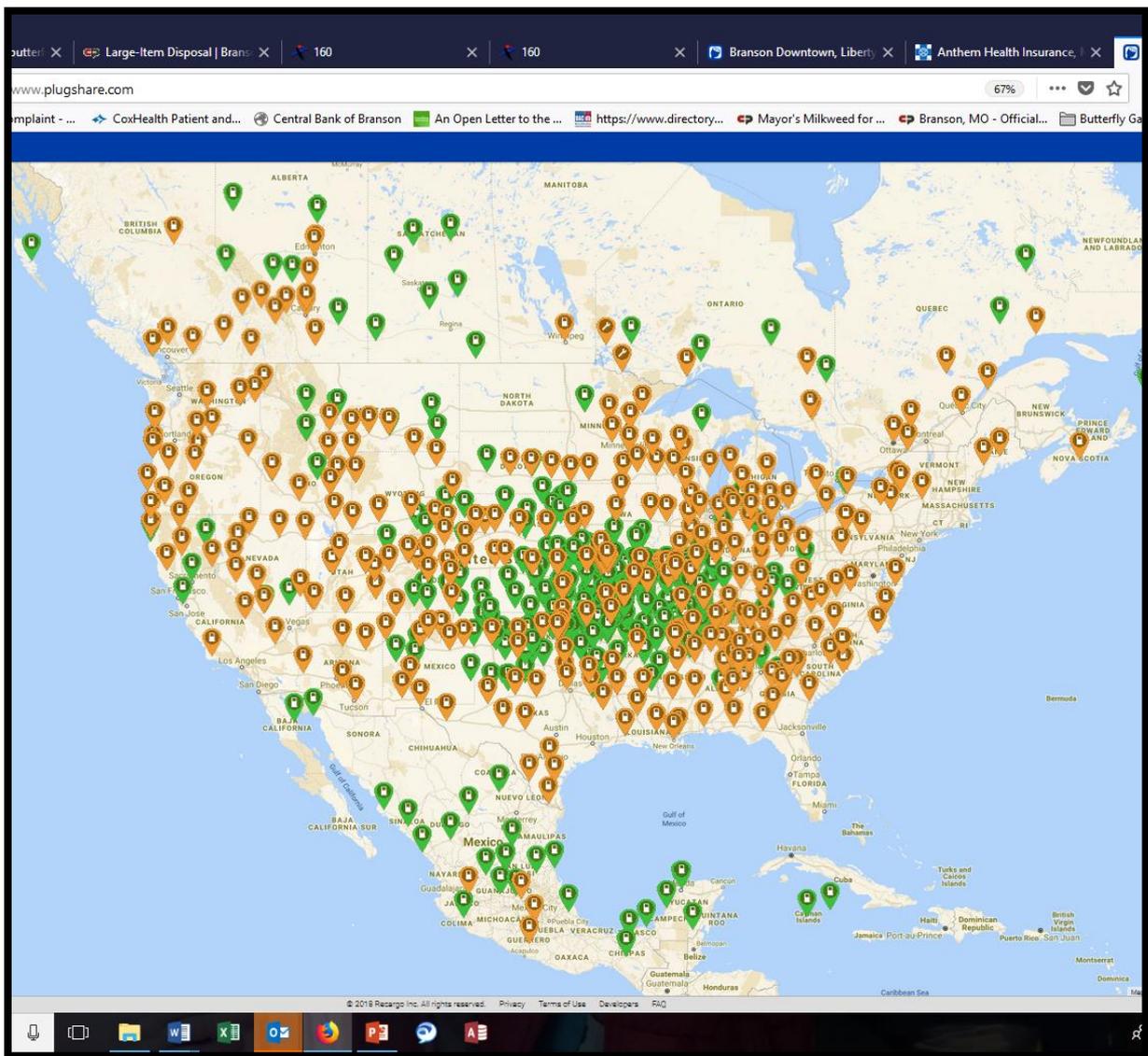
37 EV Connectors:

- 8 connectors (4 stations) at Branson Landing.
- 4 connectors at Tanger. Free Charge
- 2 connectors at Empire. Fee based
- 2 connectors at Best Western Landing View.
- 2 connectors Center Pointe Inn. Guests only
- 2 connectors Comfort Inn on Gretna.
- 1 connector at Liberty Plaza
- **TOTAL in City Limits: 21**
- Table Rock State Park Campgrounds
- Branson Treehouse Adventures, Notch
- Wyndam Resorts at the Meadows
- Grande Crowne Condos
- Big Cedar
- Chateau on the Lake
- **TOTAL Outside city limits: 6**

EV Stations Missouri Cities

Joplin	8
Columbia	17
Branson	37
Springfield	43
St. Louis	109 (1200)
Kansas City	1750

Nationwide EV Network





Motion Sensors

26 Motion Sensing Light Plates



Visitor: "I love your
(Liberty Plaza)
bathrooms and I
noticed they all have
motion sensors..."

2017 Efforts...300 Trees!

Arbor Day

- 250 short-leaf pine seedlings
Lakeside Forest Wilderness

Arbor Fest

- Alexander Park plantings
- Required Residential plantings
(new development in Branson Hills
and Commerce Park areas)
- Required Commercial plantings



Solar is Here:

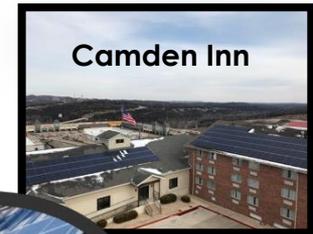


PD Explores Future Solar & LEED

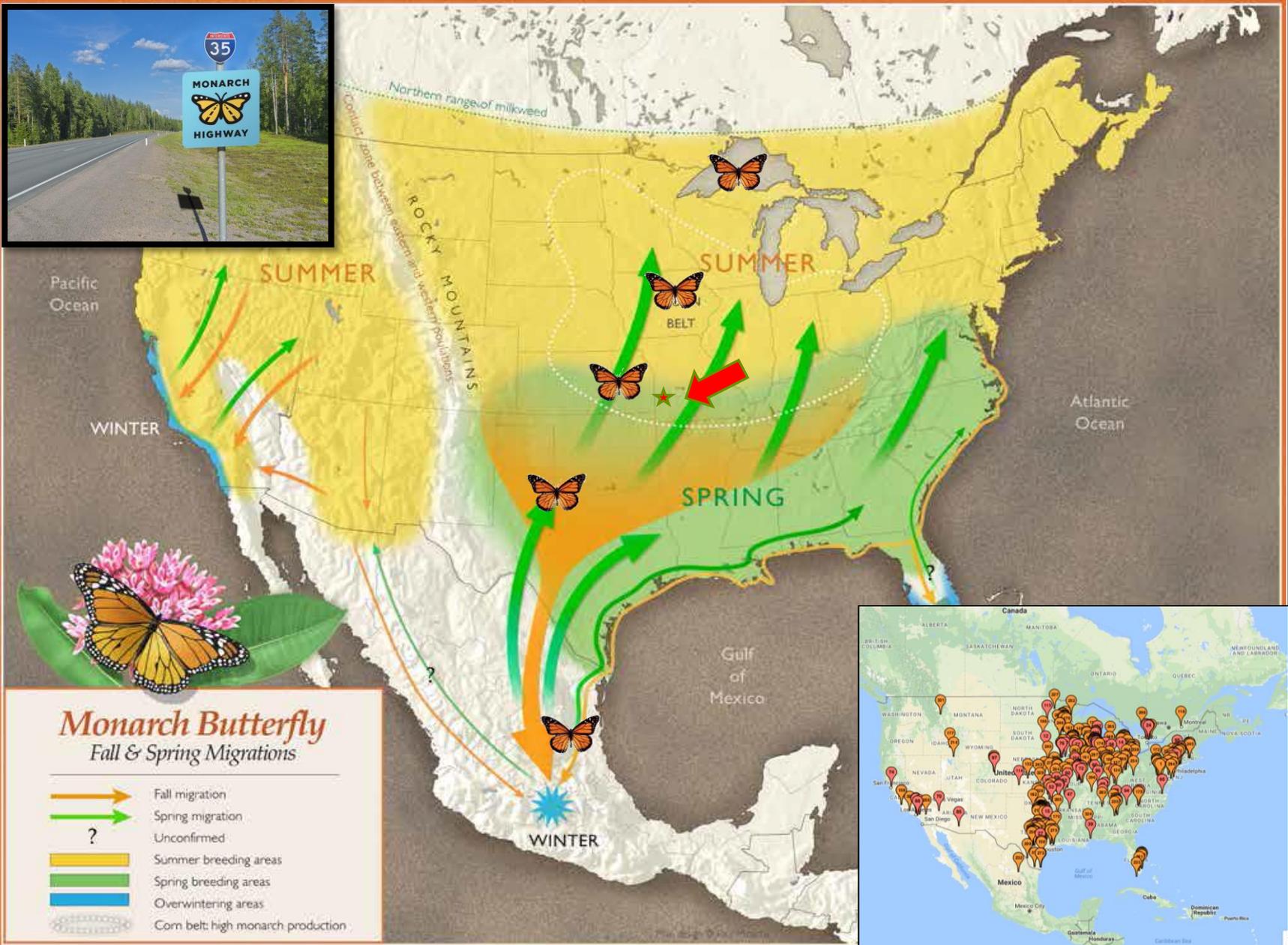
(Leadership in Energy and Environmental Design)



Branson Bank



CiCis Pizza



Our Partners



- (Texas) “We saw your flags at Bass Pro. We’re doing the same thing in Texas...”

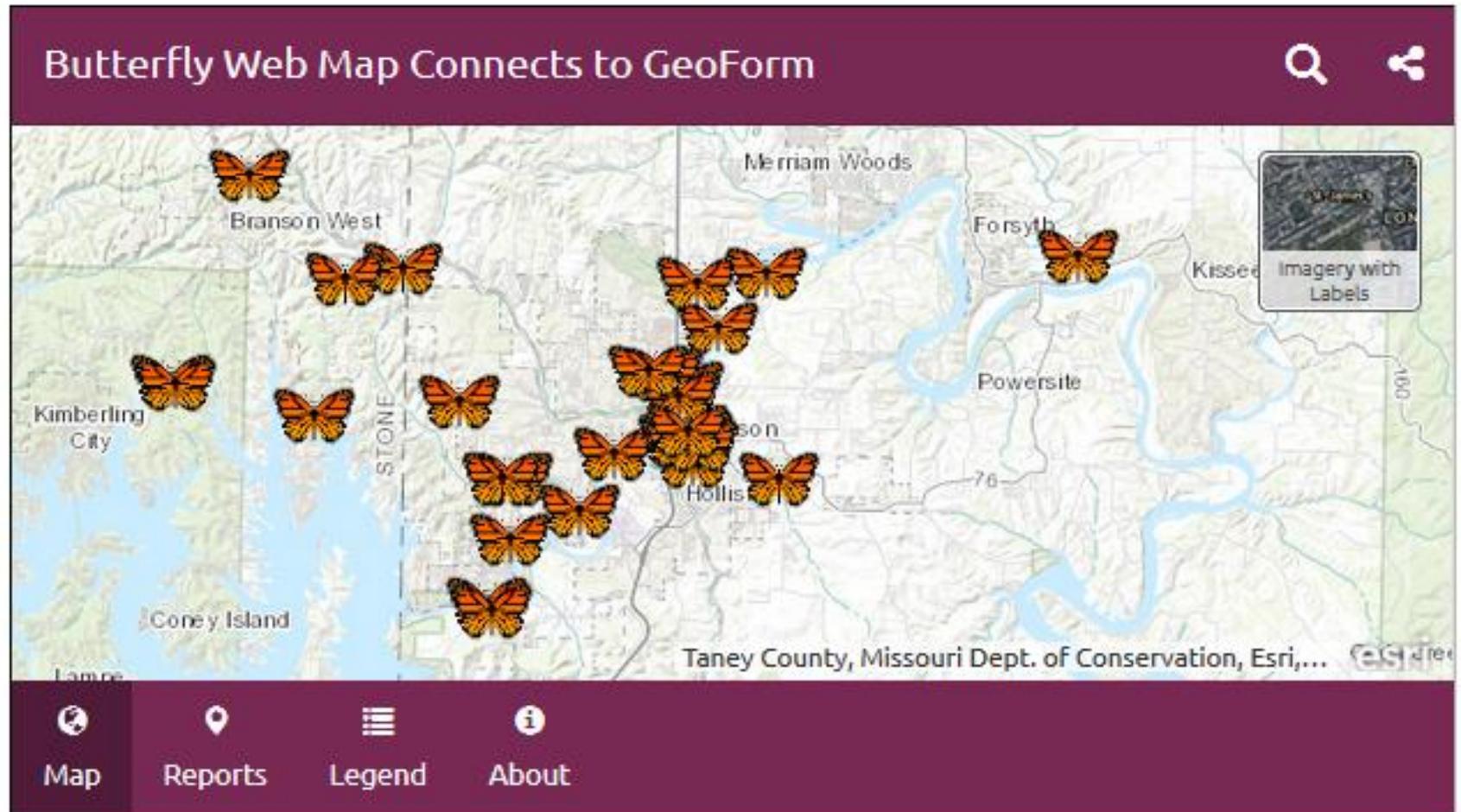
- (Iowa) “This is very important. Keep up the good work!”

Bass Pro Partners With City of Branson

“Bass Pro Shops is proud to join the City of Branson in restoring habitat for Monarch butterflies and other pollinators,” said Martin MacDonald, Bass Pro Shops Director of Conservation. “Inspired by the visionary conservation leadership of our founder and CEO Johnny Morris, we are committed to protecting wildlife and habitat alongside great local and national partner organizations like the City of Branson.”

Citizens/Businesses Login Monarch Gardens

City of Branson Monarch Garden Map (Register Here)



Same Landscaping But Different



Historic Downtown Branson



City Lakeside
RV Park



Good News About Branson



Branson Mayors for Monarchs In the News: 9 Earned Media Points



bransonlakesnews.com

Wednesday, November 1, 2017 11:45 AM

BRANSON, BASS PRO SHOPS PLANT NEW MONARCH GARDEN

Ninety percent of all monarch butterflies have disappeared in the last decade. The city of Branson recently certified the newest "Mayors Monarch Garden" at Bass Pro Shops White River Outpost at Branson Landing. The new landscaping includes two types of native plants, plus five nectar plants needed to provide energy for the migration. Mayor Karen Best has been a leader in this national effort, signing on the City of Branson as an official "Mayors for Monarchs" city in October 2016. There are now over 337 Monarch cities, stretching from southern Texas to Canada. These cities, including Branson, pledged action which will help provide for the dwindling populations of the iconic monarch butterfly.

We are a green and sustainable city with visitors, residents and businesses who appreciate the natural beauty of our region, and are willing to conserve. "Inspired by the visionary conservation leadership of our founder and CEO Johnny Morris, we are committed to protecting wildlife and habitat alongside great local and national partner organizations like the City of Branson."

neighbored, and creation of a demonstration garden at the Branson Recycle Center. Since last year, the city has helped distribute 100 pollinator seed packets donated to the city by National Fish and Wildlife Federation & Monarchs, and several hundred milkweed plants donated by the Missouri Department of Conservation.

"This is truly a community effort," Best said. "Branson lies in the very center of the monarch migration flyway, so our actions make a difference. We are a green and sustainable city with visitors, residents and businesses who appreciate the natural beauty of our region, and are willing to

include habitat for monarch butterflies. We can all make small changes to prevent the monarch butterfly from disappearing completely in our lifetime."

Several local businesses have included pollinator habitat in their landscaping, and many homeowners are doing the same. The city has incorporated monarch habitat within its landscaping at the Branson Convention Center, Branson Lakeside RV Park, Fire Station No. 2, Lakeside Forest, Branson Recycle Center, a Historic Downtown planter and other city facilities. A map of all registered monarch gardens is available on the city website. Signage is available free of charge to city residents and businesses. Signage for gardens outside the city limits can be purchased for a small fee at Wild Bird Unlimited Branson.

Bass Pro Shops is known as a national leader working to ensure the health of fish and wildlife resources for generations to come. The company's efforts have restored millions acres of habitat, healthy rivers, lakes and streams across North America, with programs that have significantly increased wildlife populations for hundreds of native species.

For more information see bransonmo.gov, or monarchwatch.org.

U.S. Cellular

Say "yes!" to iPhone 8 for \$0.
Say "no!" to hidden fees.

Creating a royal garden: Branson looks to aid monarch butterflies

By John Robinson | August 20, 2017 9:00 pm

During her childhood, Branson resident recalls seeing clouds of monarch butterflies traveling overhead.

"No one knew where they came from, and no one here today knows," said Meneses, environmental specialist for the city of Branson. "We would just see them flying over."

With monarch populations in decline, plummeting 80 percent in the last two decades according to the National Wildlife Federation, the city of Branson is hoping to help the black and orange butterfly make a comeback, one milkweed plant at a time.

Making their home in yamini trees in Mexico, the monarchs migrate north toward Canada for the spring, with future generations making the return trip for the winter. It's a path that crosses over the mid- and southwestern United States, including Branson.

"It's called the 'Monarch Flyway,'" Meneses said. "This is Branson right smack in the middle of the Flyway so yes, we make a difference."

Given their short lifespan, the monarch's migration is a multi-generational affair. The monarchs that eventually come to Branson are several generations removed from the ones that began the journey.

"Monarchs, monarchs are picky when it comes to laying their eggs, refusing to nest on any plant but milkweed," Meneses said. "If something we used to not understand about them, and now we do."

The city joined a program called the 'Mayors' Monarch Pledge' in 2016, agreeing to plant milkweed to help rehabilitate the monarch butterfly population.

Out of the milkweed for Monarch campaign, the branch of former St. Louis Mayor Francis Slay in 2014, Slay committed to planting monarch gardens across St. Louis before creating the St. Pledge in 2015, challenging cities in the monarch's migration path to plant their own gardens.

In 2014 and Mayor (Karen) Best was the 199th in 2016 and now there are about 350 mayors who



Historic Downtown

“SIDEWALK BUTTLER” Recycling Pilot Project



Each bin holds about 700 butts



Re-Thinking "Waste" Creates Value

WASTE IS SENT TO TERRACYCLE



(use any box)

WASTE IS RECYCLED INTO VARIOUS PRODUCTS



From This:



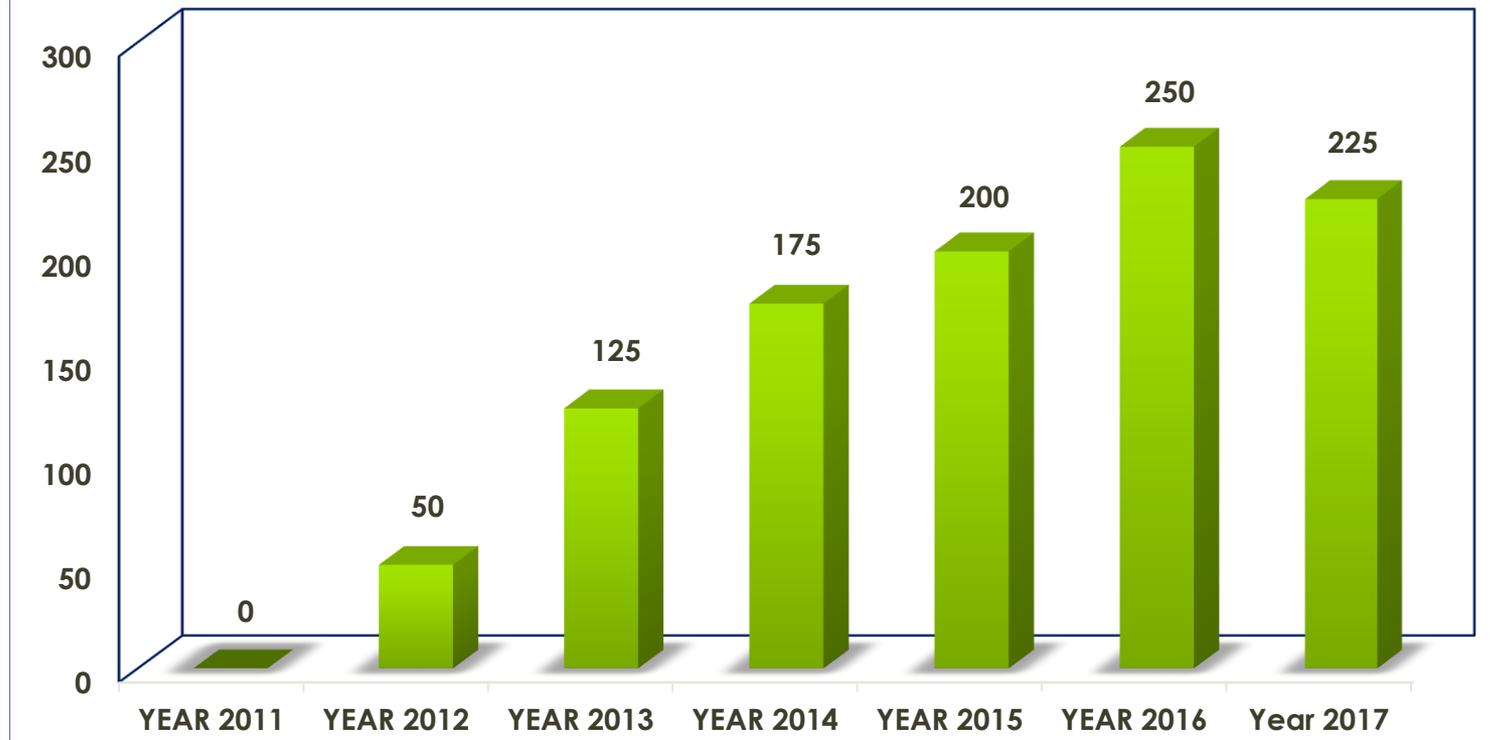
To This:





5 Years of Glass Recycling:

1,125 Tons
(45 Semi-Truck Loads)





Citizen and Visitor Engagement

You Helped Ripple Glass Recycle
One Billion Bottles!



Recycling one billion bottles saves enough electricity to power every house in Kansas City for more than 18 days.

August 14-19 is
**RANDOM
RECYCLER
REWARDS WEEK**



Win Prizes
Just for Recycling
Glass!

Thank you Branson!

Branson area citizens have now recycled more than **4 million bottles.**

That's enough glass to fill 42 semi-trucks



OR

If those glass bottles were laid end-to-end, they would stretch all the way from



WTP Light Replacement



Removed 8
Metal Halide
Lights



Replaced
with 8 LED
lights



Cost to Replace Halide Lights: \$2,000.00
Cost to Replace LED Lights: \$712.00

SAVINGS \$1,288.00

Electrical Cost Halide Lights/Year: \$613.00
Electrical Cost LED Lights/Year: \$157.00

SAVINGS \$456.00

Life Span Halide Lights: 6000 hours (<1 year)
Life Span LED Lights: 50,000 hours (5.7 years)



Hopper for WWTP Influent



Rehabbed 2 Old Hoppers to make a single hopper for Oxidation basin cleanout.



Purchase 2 New Hoppers: \$2,600.00 **SAVINGS**
Rehab 2 Old Hoppers: \$360.00 **\$2240.00**

Unit 47 Dump Truck



Rehabbed Dump Truck Bed
Extended life of vehicle 5 years.



New Truck Bed: \$12,500.00
Rehabbed Truck Bed: \$1,800.00
SAVINGS \$10,700.00

Recycled Electronics

- FINANCE RECYCLED
 - 300+ PRINT CARTRIDGES/YR
- IT RECYCLED
 - 1.5 Tons



DNR: No Longer Tracking for Air Pollution

- 5 Tracking stations in Branson now closed
- No Air Pollution Standards Exceeded (3 yrs)

RESULTS:

Embedded Sustainability
in work culture,
like safety.

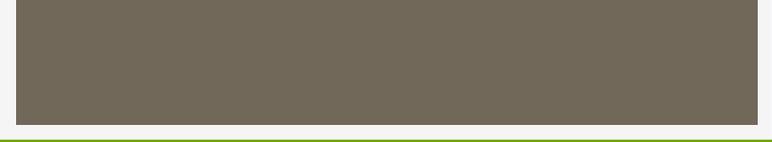


Branding Branson as “Green & Modern”



- 34 Employee Incentive Awards
- 16 Department Grants (\$30,166.67)
- Resulting in:
- \$ 368,946.00 Overall Energy and Cost Savings





Thank You

Comments & Questions?

Mona Menezes
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