

REQUEST FOR BOARD ACTION

**HENDERSON COUNTY
BOARD OF COMMISSIONERS**

MEETING DATE: Wednesday, June 24, 2015

SUBJECT: Energy Management Update

PRESENTER: Rachel Hodge, Environmental Programs Coordinator

ATTACHMENTS: Yes,
1. Energy Management Data

SUMMARY OF REQUEST:

The attachment provides information to the Board about the County's energy use across all County facilities in the areas of electricity, natural gas, and water/ sewer. It compares the current FY third quarter with the previous year to illustrate a historical trend in commodity consumption. Supplementary cost analyses represent the total annual cost percentages (YTD) and the monthly cost profile comparing 2014 and 2015 YTD for the highest-cost commodity at each facility.

BOARD ACTION REQUESTED:

No Board action is requested. This item is for informational purposes only.

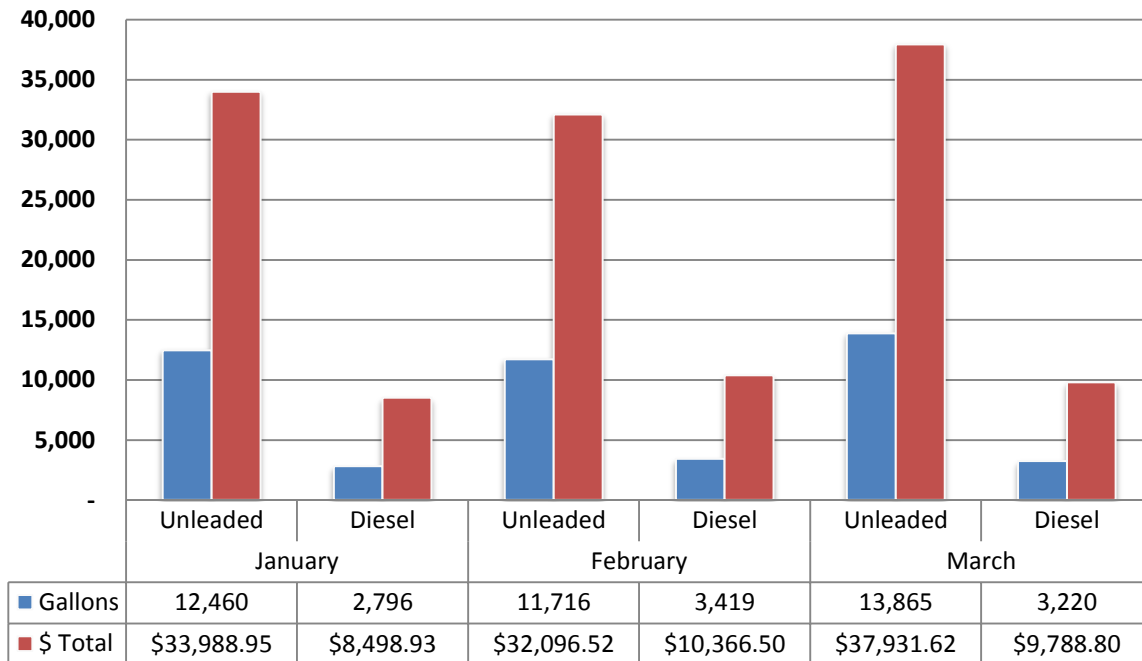
Suggested Motion:

No motion suggested.

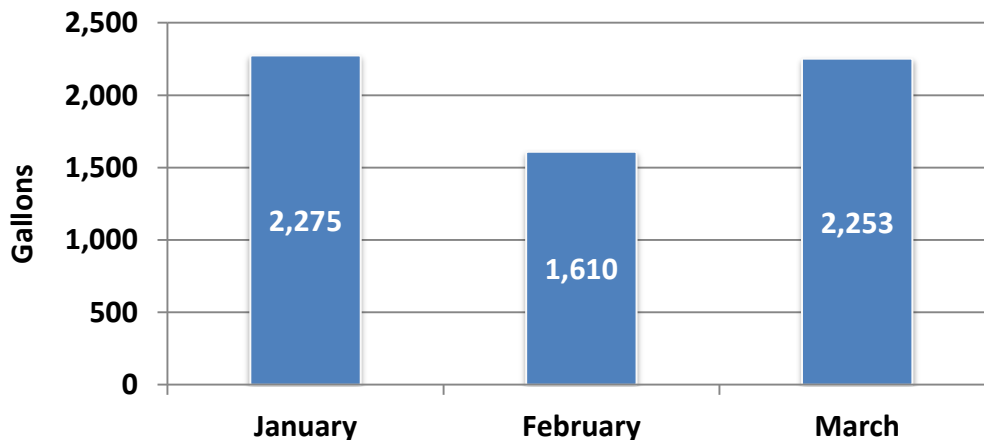
Energy and Fuel Reduction Plan Status for Qtr. 3 - FY15 (January - March 2015) BOC Meeting: June 24, 2015

FUELS & FLEET INFORMATION

Henderson County Fleet Conventional Fuel Consumption Quarter 3 FY15 (January - March 2015)

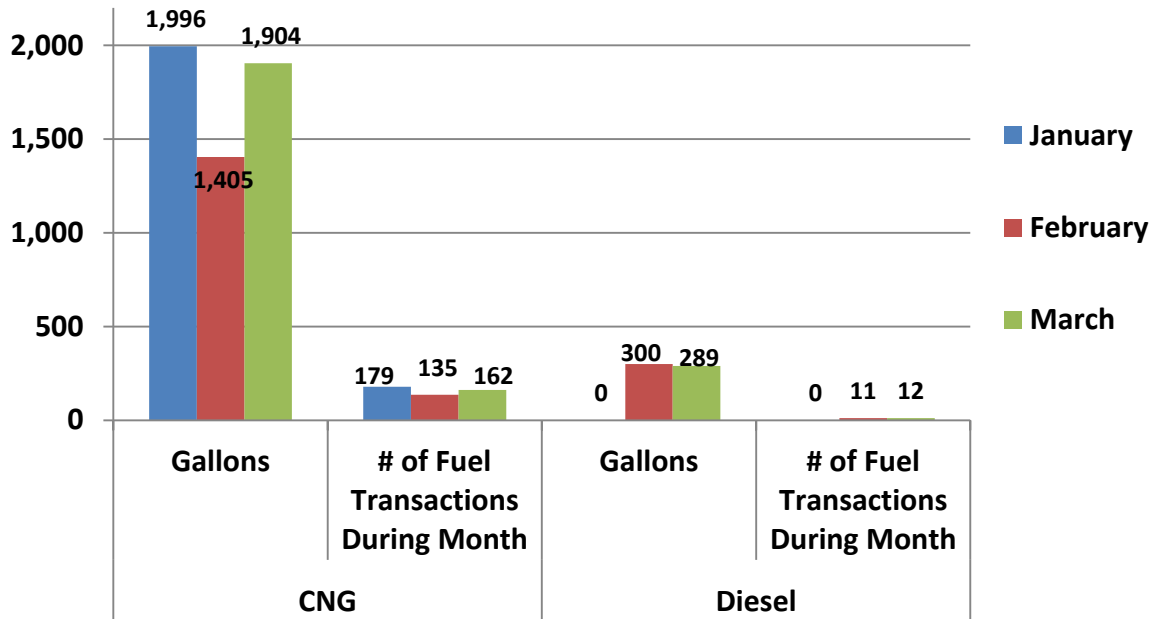


Henderson County CNG Fleet Fuel Consumption, Quarter 3 FY15 (January - March 2015) *

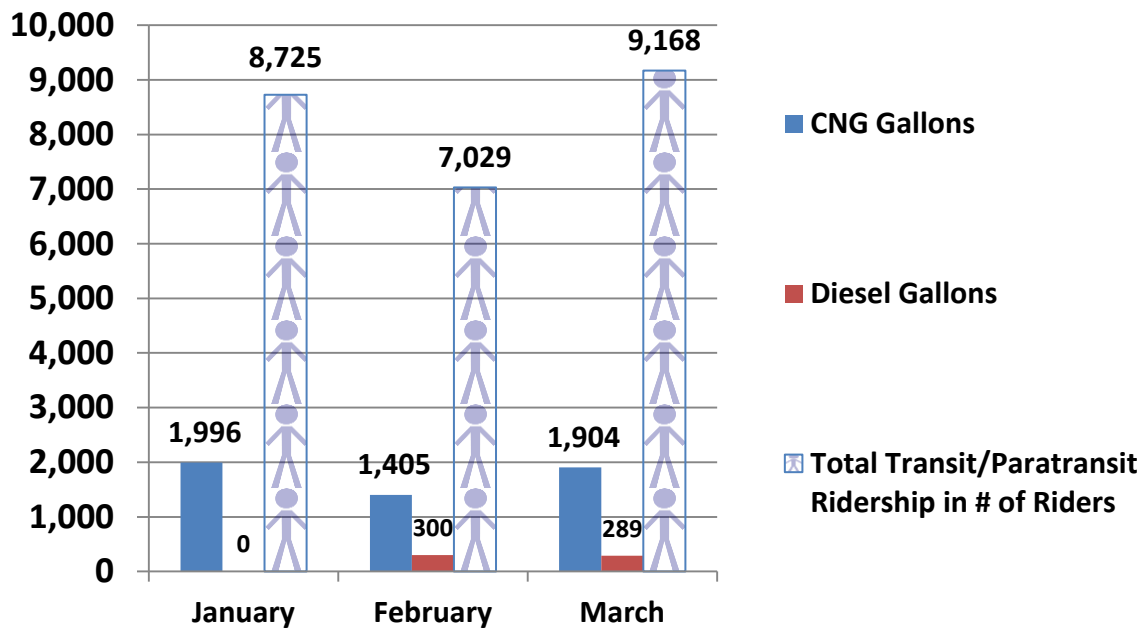


* Departments include: Building Inspections, Solid Waste, Utilities, WCCA Buses

WCCA Busses- CNG & Diesel Gallons and Number of Fuel Purchase Transactions, January-March 2015

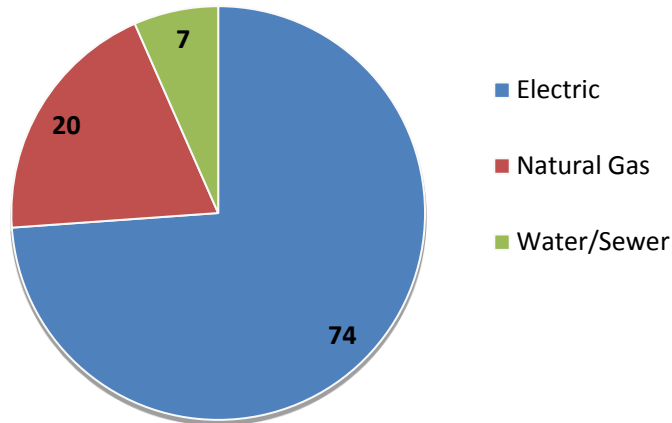


WCCA Ridership Totals and Total Gallons of Fuel Consumed Per Fuel Type, January-March 2015



UTILITY USAGE INFORMATION

***Expense Breakdown of Henderson County Facilities in Total Costs of Utilities YTD %**

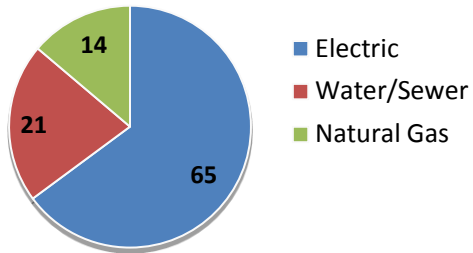


**Environmental Programs is tracking:*
46 City of Hendersonville Water/Sewer Meter
110 Duke Energy meters
21 PSNC meters

The graph above is a cumulative comparison at the total utility cost breakdown of the 177 tracked meters across all commodities (water, electricity, natural gas) at all Henderson County facilities, including parks. The graph represents the cost percentage of each commodity over the most recent 12 months, not including the current month or last month [data tracking program assumes data for these months may be incomplete]).

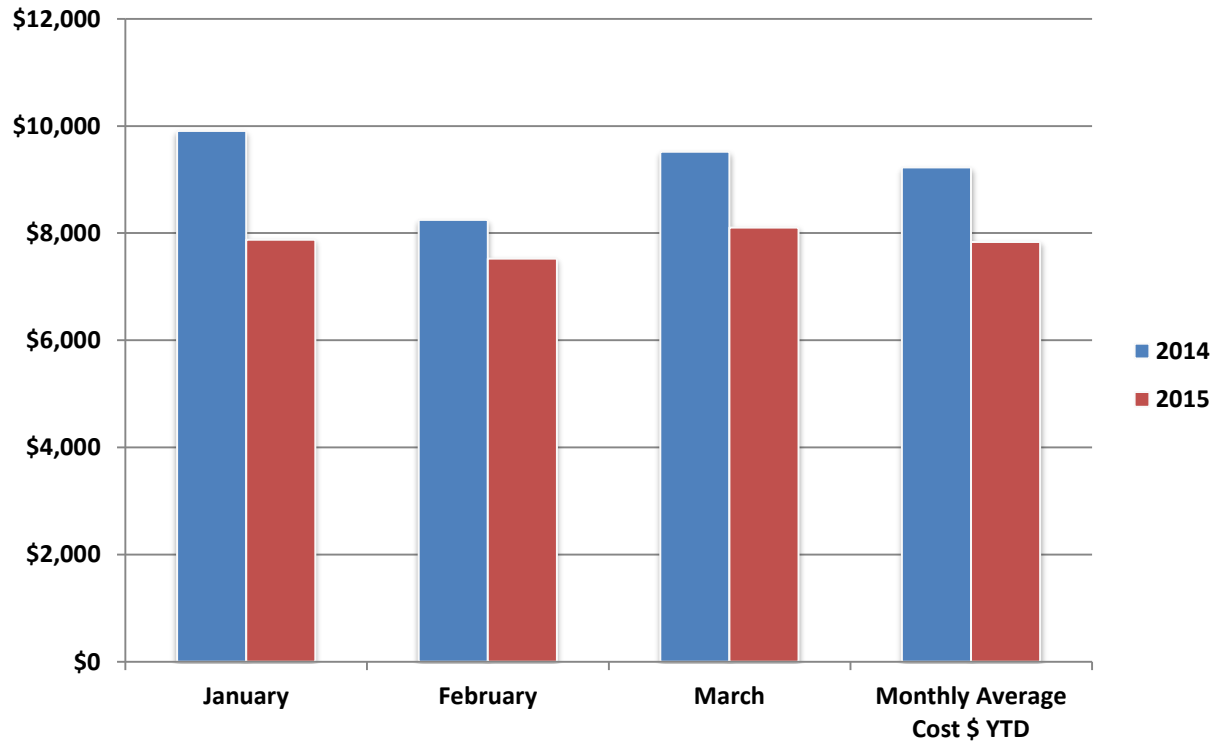
1995 Courthouse Utility Use

Total Cost % YTD*



* The cost percentage of each commodity over the most recent 12 months, not including the current month or last month (FacilityDude assumes the data for these months may be incomplete).

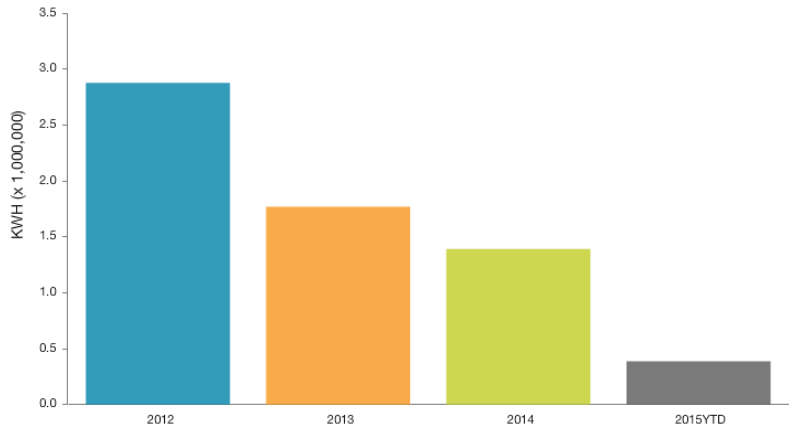
95 Courthouse Electricity Usage Comparison, Qtr. 3 2014-2015



1995 Courthouse Utility Use

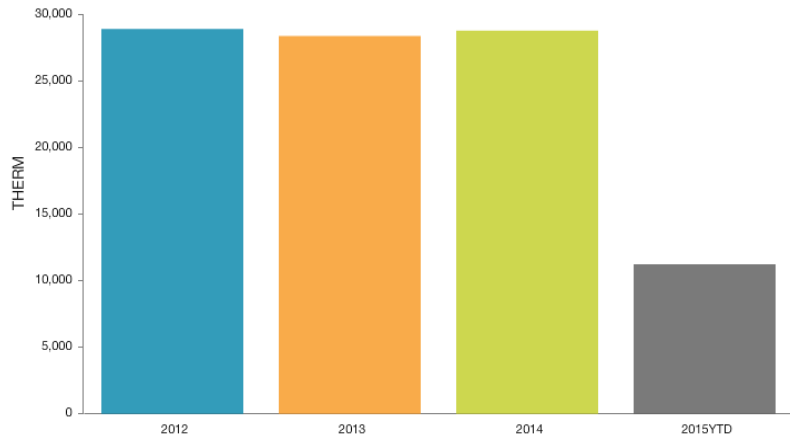
Location: Henderson County-> 95COURTHOUSE [95 Courthouse]
Time: 06/11/2015 1:00:54 PM **Commodity:** Electric **Electricity in KWH**

Total Use Summary
(FY ends in Dec of year shown)



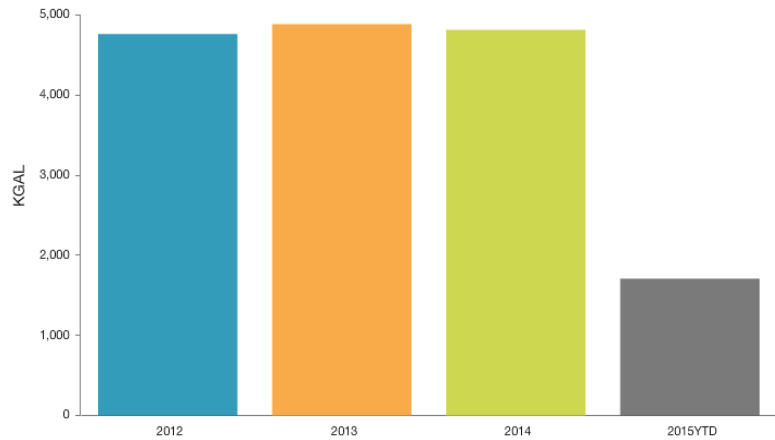
Location: Henderson County-> 95COURTHOUSE [95 Courthouse]
Time: 06/11/2015 1:00:54 PM **Commodity:** Natural Gas **Natural Gas in Therms**

Total Use Summary
(FY ends in Dec of year shown)



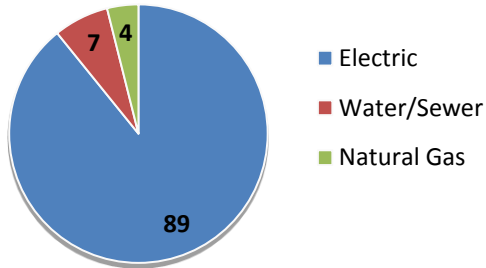
Location: Henderson County-> 95COURTHOUSE [95 Courthouse]
Time: 06/11/2015 1:00:54 PM **Commodity:** Water **Water in Thousands of Gal**

Total Use Summary
(FY ends in Dec of year shown)



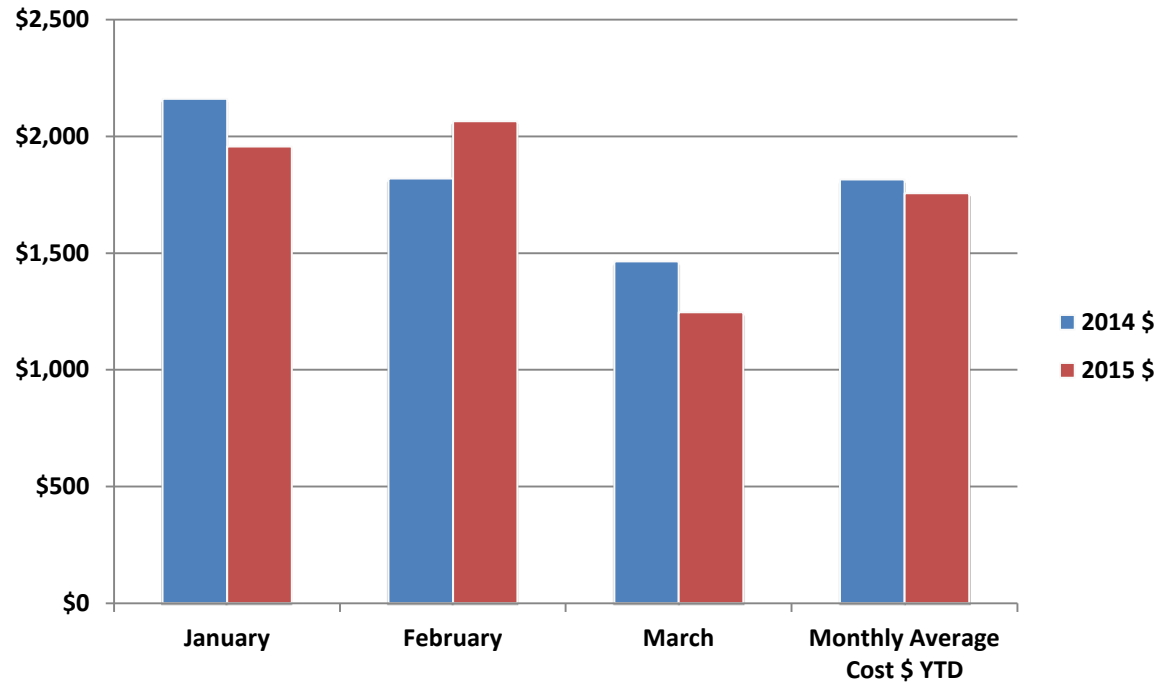
Animal Services Utility Use

Total Cost % YTD



* The cost percentage of each commodity over the most recent 12 months, not including the current month or last month (FacilityDude assumes the data for these months may be incomplete).

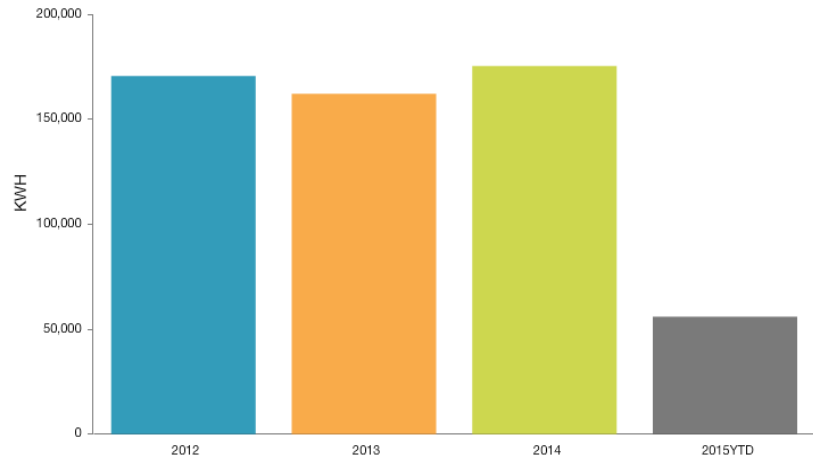
Animal Services Electricity Use Comparison 2014-2015 Qtr. 3



Animal Services Utility Use

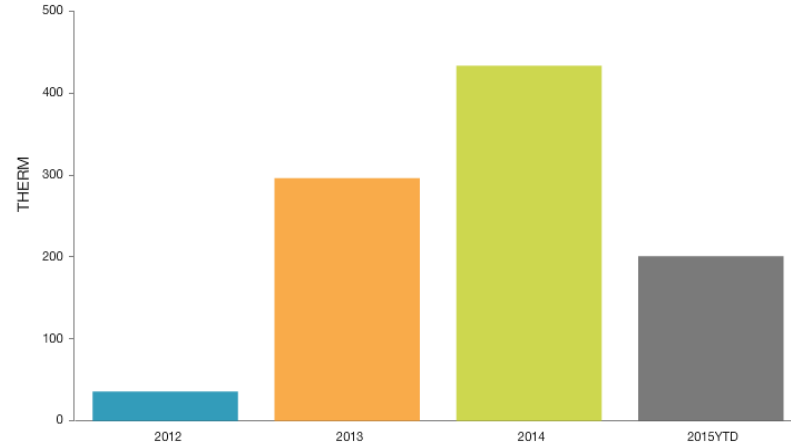
Location: Henderson County-> ANIMALSERVICES [Animal Services]
Time: 06/01/2015 12:00:55 PM **Commodity:** Electric **Electricity in KWH**

Total Use Summary
(FY ends in Dec of year shown)



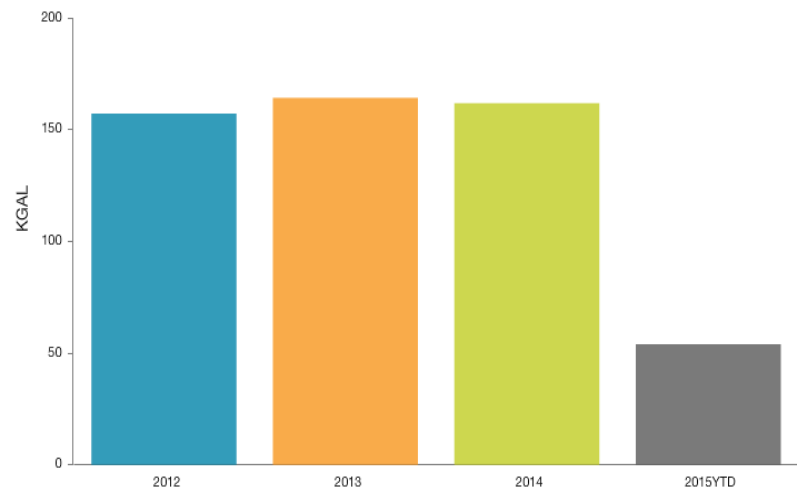
Location: Henderson County-> ANIMALSERVICES [Animal Services]
Time: 06/01/2015 12:00:55 PM **Commodity:** Natural Gas **Natural Gas in Therms**

Total Use Summary
(FY ends in Dec of year shown)



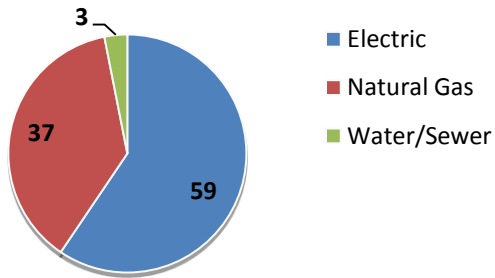
Location: Henderson County-> ANIMALSERVICES [Animal Services]
Time: 06/01/2015 12:00:55 PM **Commodity:** Water **Water in Thousands of Gal**

Total Use Summary
(FY ends in Dec of year shown)



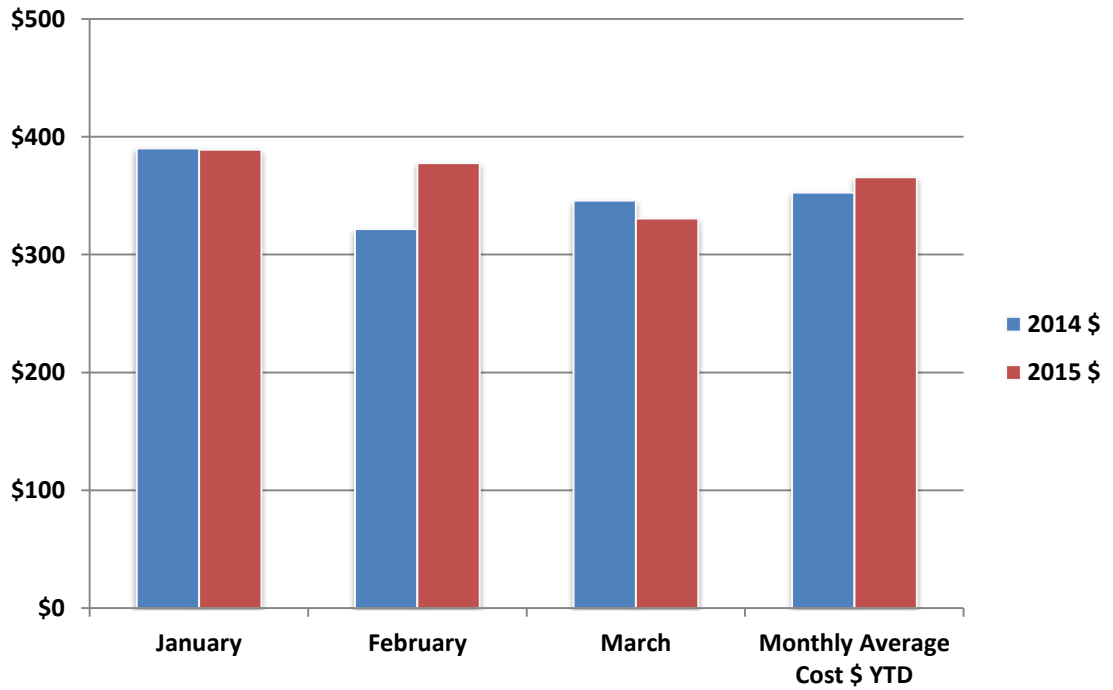
Board of Elections Utility Use

Total Cost % YTD*



* The cost percentage of each commodity over the most recent 12 months, not including the current month or last month (FacilityDude assumes the data for these months may be incomplete).

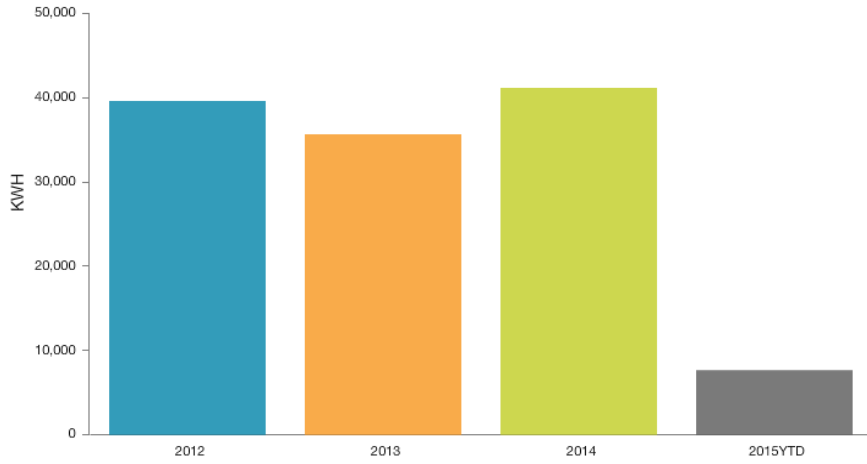
Board of Elections Electricity Use Comparison Qtr. 3, 2014-2015



Board of Elections Utility Use

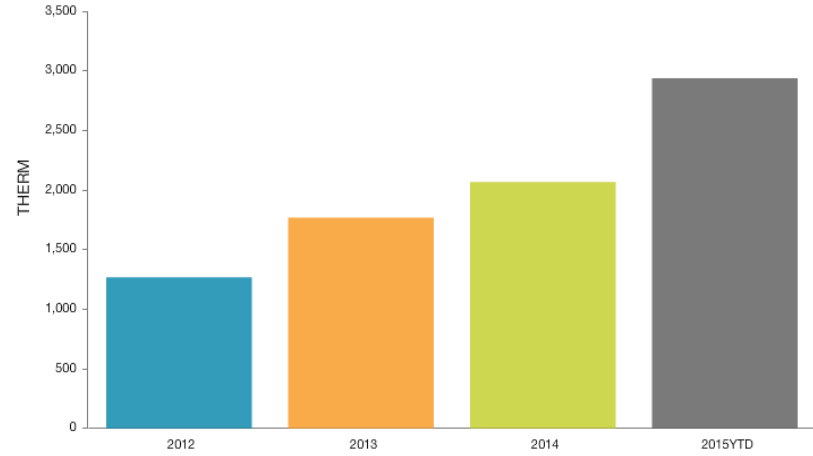
Location: Henderson County-> BOARD OF ELECTIONS [Board Of Elections]
Time: 06/01/2015 1:00:54 PM **Commodity:** Electric **Electricity in KWH**

Total Use Summary
(FY ends in Dec of year shown)



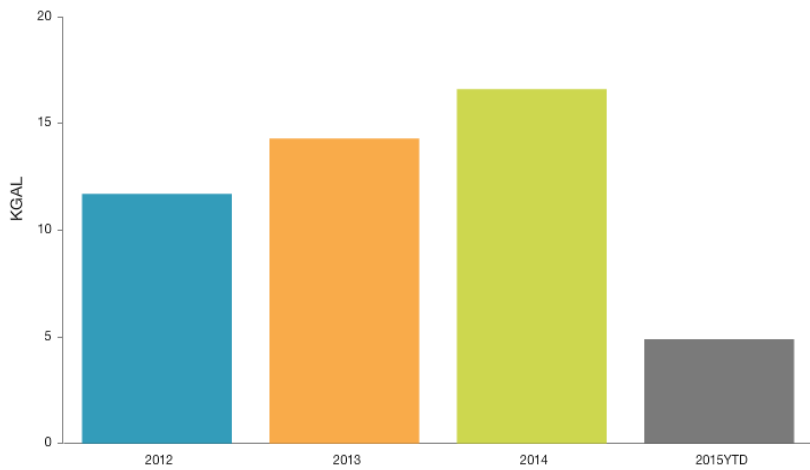
Location: Henderson County-> BOARD OF ELECTIONS [Board Of Elections]
Time: 06/01/2015 1:00:54 PM **Commodity:** Natural Gas **Natural Gas in Therms**

Total Use Summary
(FY ends in Dec of year shown)



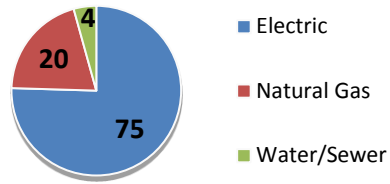
Location: Henderson County-> BOARD OF ELECTIONS [Board Of Elections]
Time: 06/01/2015 1:00:54 PM **Commodity:** Water **Water in Thousands of Gal**

Total Use Summary
(FY ends in Dec of year shown)



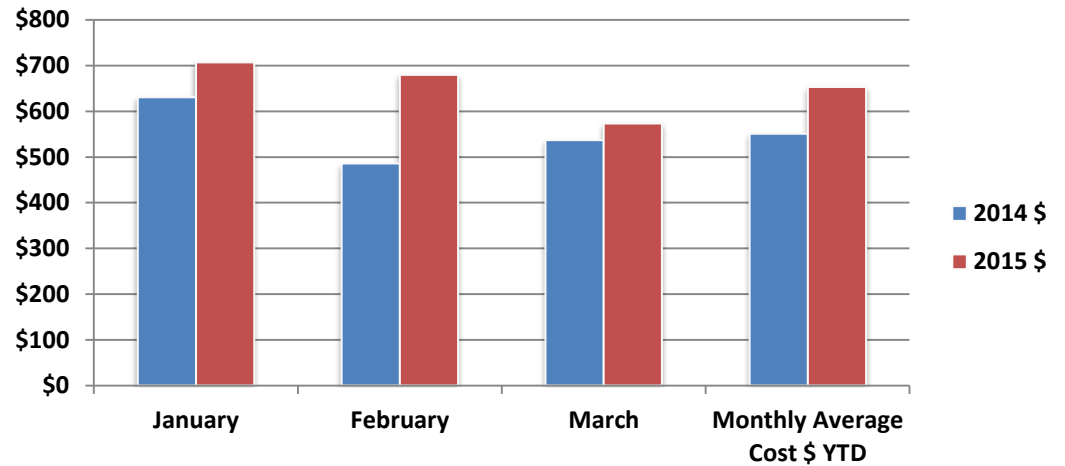
Central Services Utility Use

Total Cost % YTD*



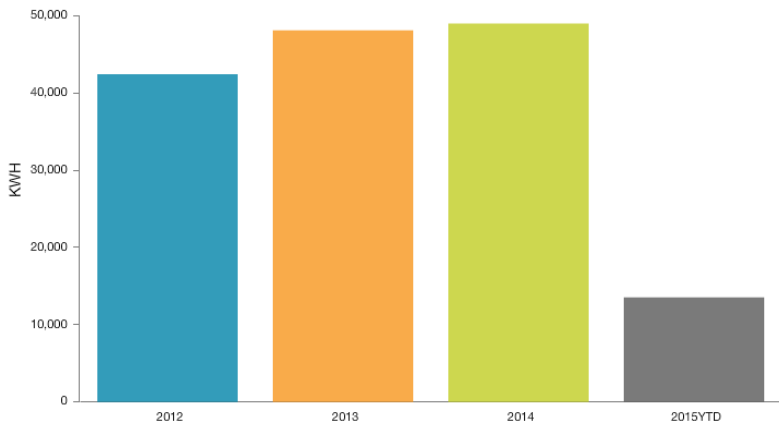
* The cost percentage of each commodity over the most recent 12 months, not including the current month or last month (FacilityDude assumes the data for these months may be incomplete).

Central Services Electricity Use Comparison Qtr. 3, 2014-2015



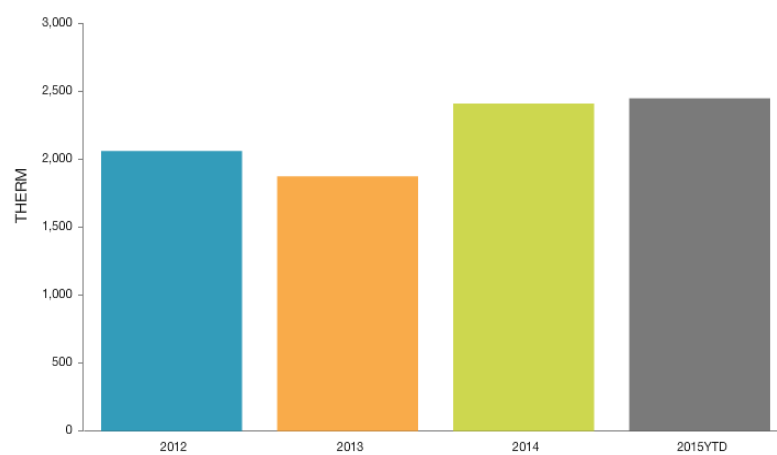
Location: Henderson County-> CENTRALSERVICES [Central Services]
Time: 06/02/2015 3:00:55 PM Commodity: Electric Electricity in KWH

Total Use Summary
(FY ends in Dec of year shown)



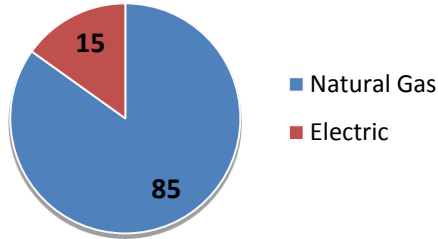
Location: Henderson County-> CENTRALSERVICES [Central Services]
Time: 06/02/2015 3:00:55 PM Commodity: Natural Gas Natural Gas in Therms

Total Use Summary
(FY ends in Dec of year shown)



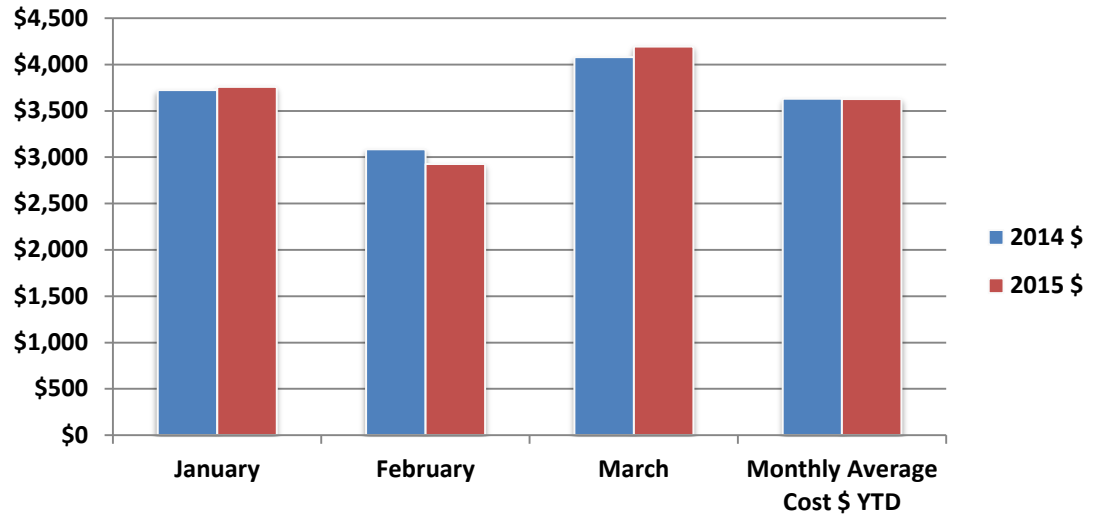
CNG Station Utility Use

Total Cost % YTD



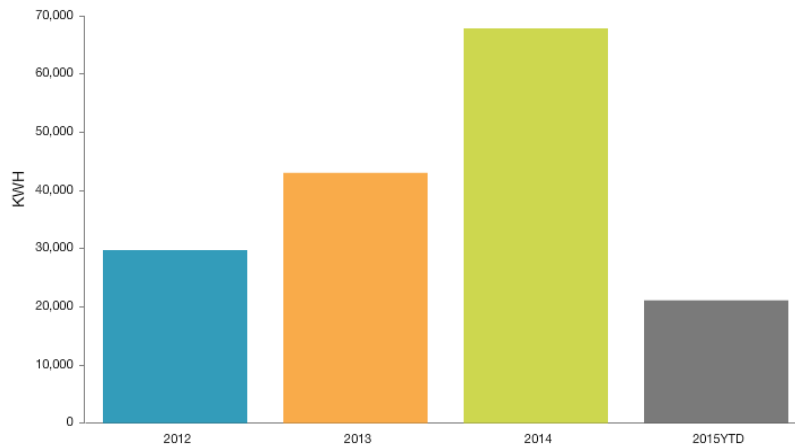
* The cost percentage of each commodity over the most recent 12 months, not including the current month or last month (FacilityDude assumes the data for these months may be incomplete).

CNG Station Natural Gas Use Comparison Qtr. 3, 2014-2015



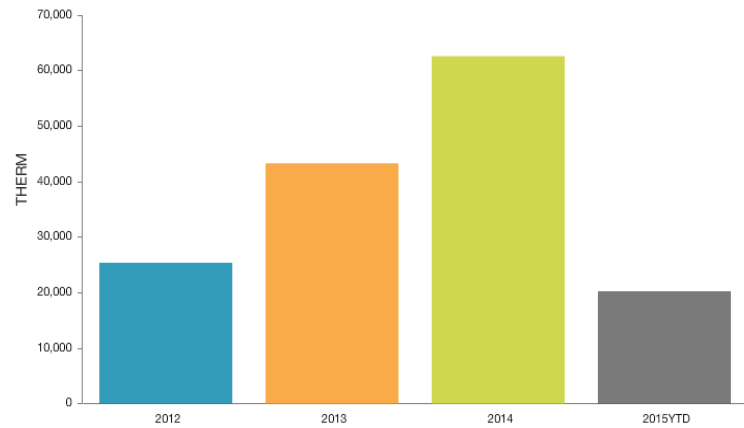
Location: Henderson County-> CNGSTATION [Cng Station]
Time: 06/02/2015 3:00:55 PM Commodity: Electric Electricity in KWH

Total Use Summary
(FY ends in Dec of year shown)



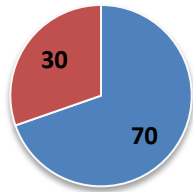
Location: Henderson County-> CNGSTATION [Cng Station]
Time: 06/02/2015 3:00:55 PM Commodity: Natural Gas Natural Gas in Therms

Total Use Summary
(FY ends in Dec of year shown)



Cooperative Extension Utility Use

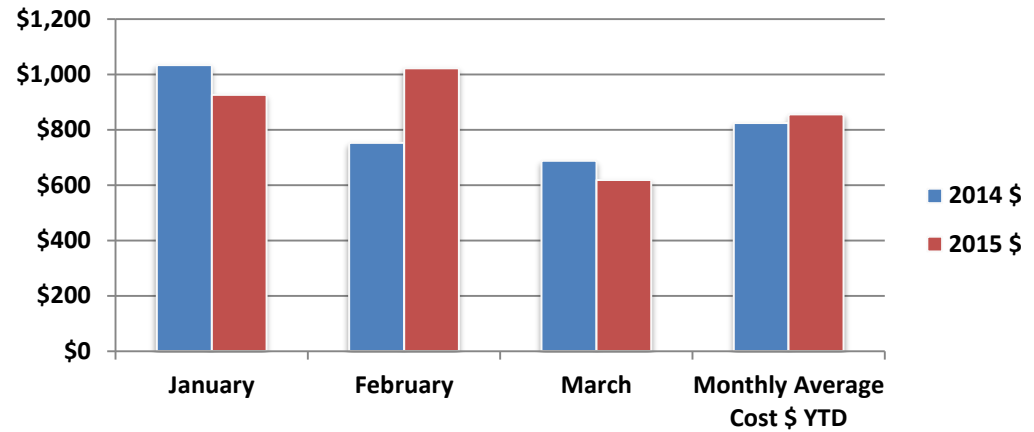
Total Cost % YTD



- Electric
- Water/Sewer

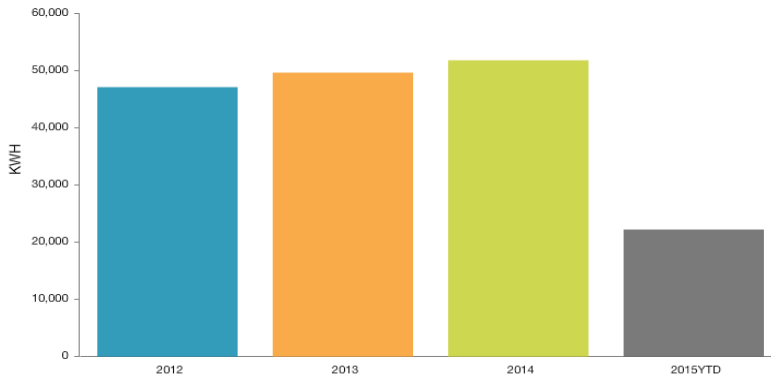
* The cost percentage of each commodity over the most recent 12 months, not including the current month or last month (FacilityDude assumes the data for these months may be incomplete).

Cooperative Extension Electricity Use Comparison , Qtr. 3, 2014-2015



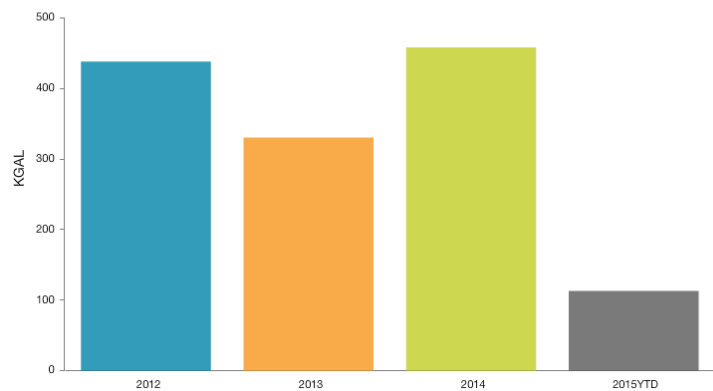
Location: Henderson County-> COOPERATIVEEXTENSION [Cooperative Extension]
Time: 06/02/2015 3:00:55 PM **Commodity:** Electric **Electricity in KWH**

Total Use Summary
(FY ends in Dec of year shown)



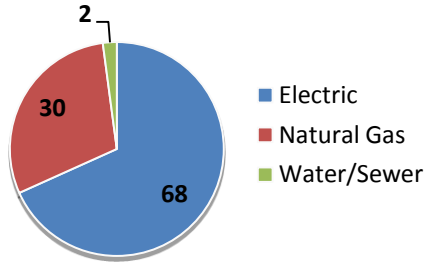
Location: Henderson County-> COOPERATIVEEXTENSION [Cooperative Extension]
Time: 06/02/2015 3:00:55 PM **Commodity:** Water **Water in Thousands of Gal**

Total Use Summary
(FY ends in Dec of year shown)



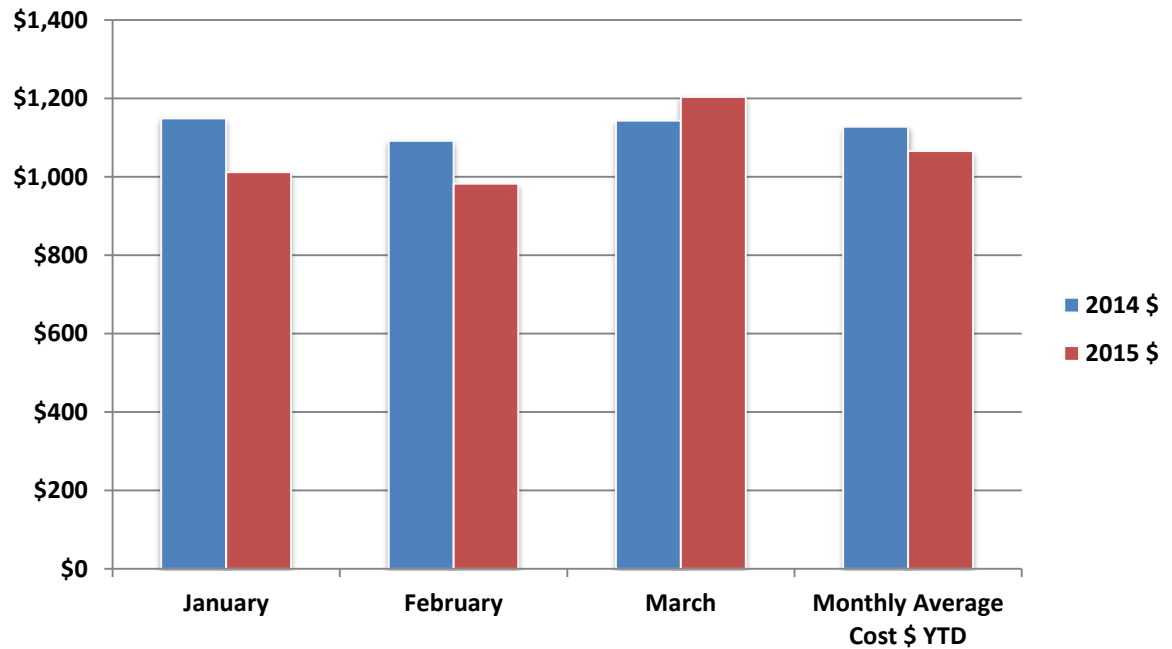
Court Services Utility Use

Total Cost % YTD*



* The cost percentage of each commodity over the most recent 12 months, not including the current month or last month (FacilityDude assumes the data for these months may be incomplete).

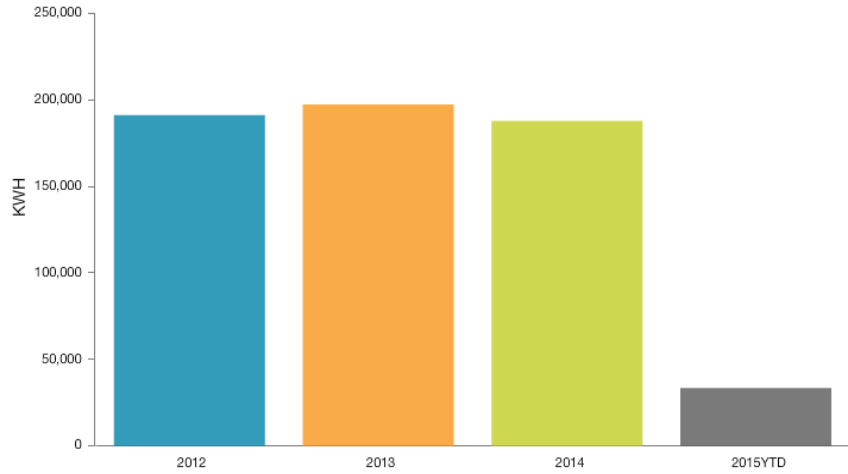
Court Services Electricity Use Comparison Qtr. 3, 2014-2015



Court Services Utility Use

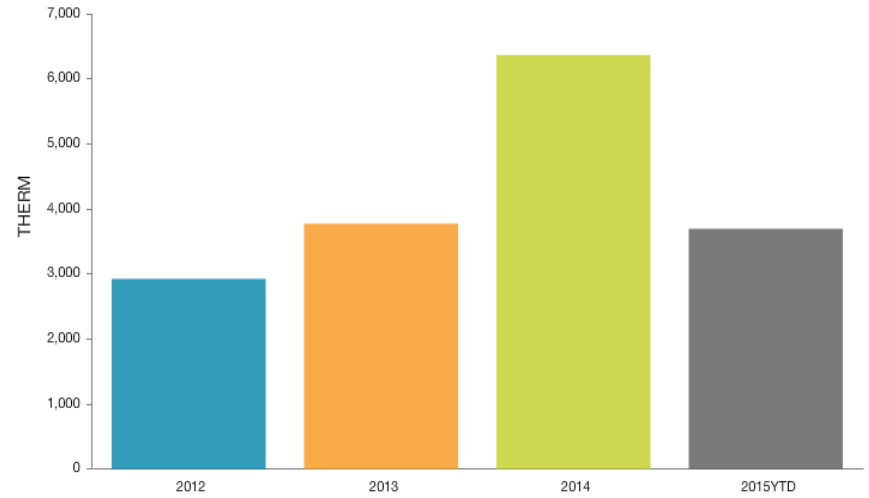
Location: Henderson County-> OLDHEALTHDEPARTMENT_3560 [Court Services Building]
Time: 06/02/2015 4:00:55 PM **Commodity:** Electric **Electricity in KWH**

Total Use Summary
(FY ends in Dec of year shown)



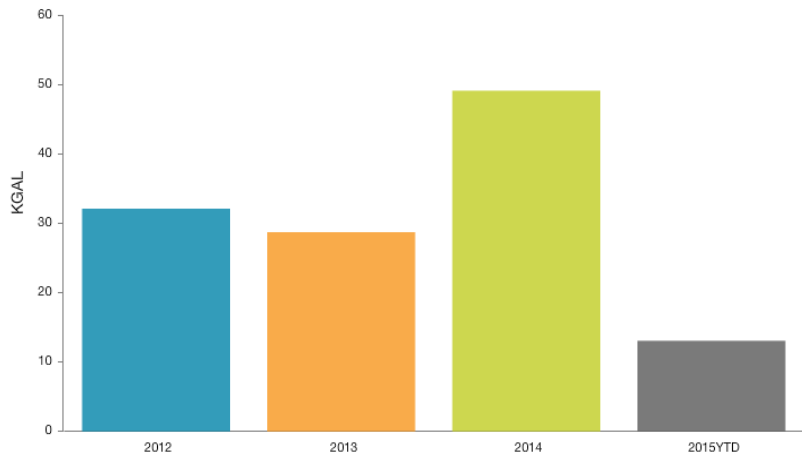
Location: Henderson County-> OLDHEALTHDEPARTMENT_3560 [Court Services Building]
Time: 06/02/2015 4:00:55 PM **Commodity:** Natural Gas **Natural Gas in Therms**

Total Use Summary
(FY ends in Dec of year shown)



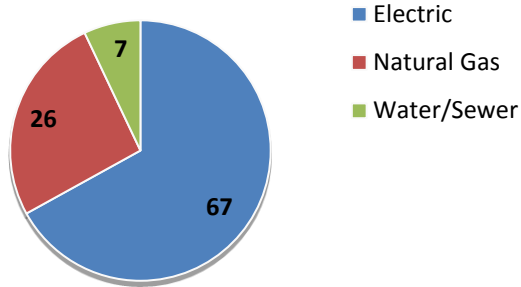
Location: Henderson County-> OLDHEALTHDEPARTMENT_3560 [Court Services Building]
Time: 06/02/2015 4:00:55 PM **Commodity:** Water **Water in Thousands of Gal**

Total Use Summary
(FY ends in Dec of year shown)



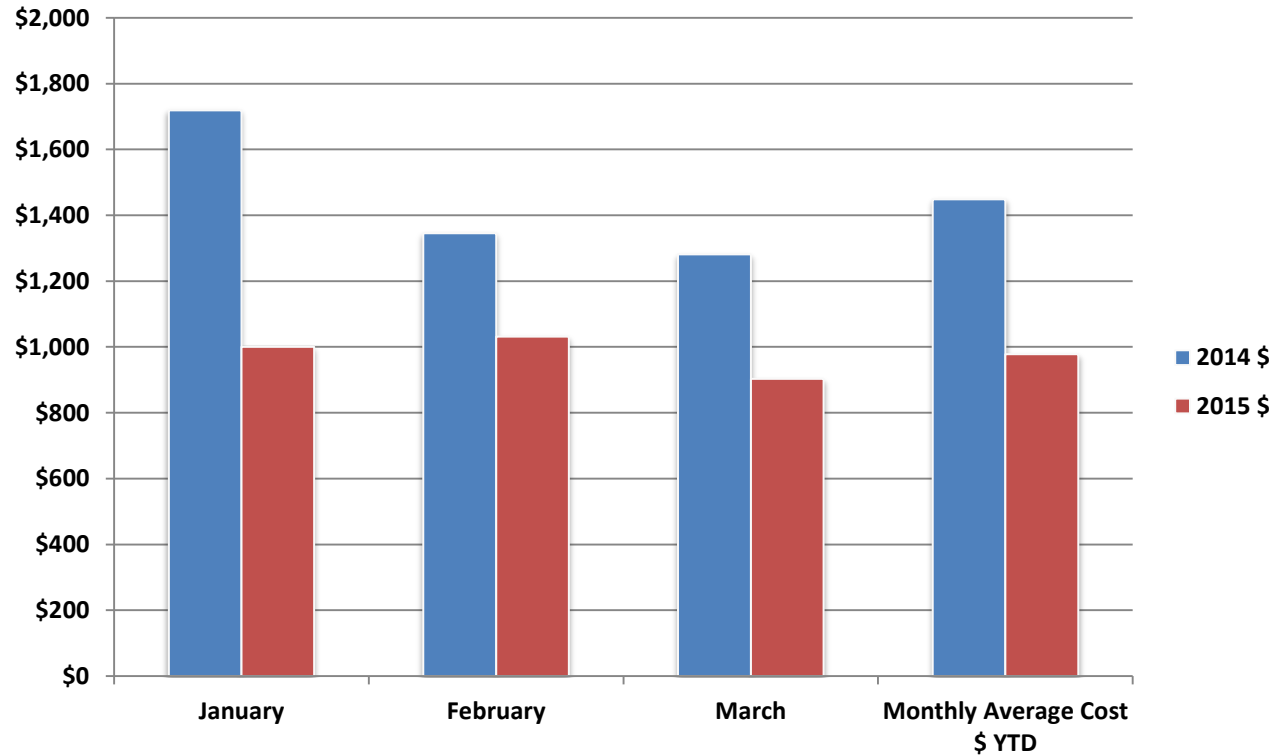
Emergency Services Utility Use

Total Cost % YTD*



* The cost percentage of each commodity over the most recent 12 months, not including the current month or last month (FacilityDude assumes the data for these months may be incomplete).

Emergency Services Electricity Use Comparison Qtr. 3, 2014-2015

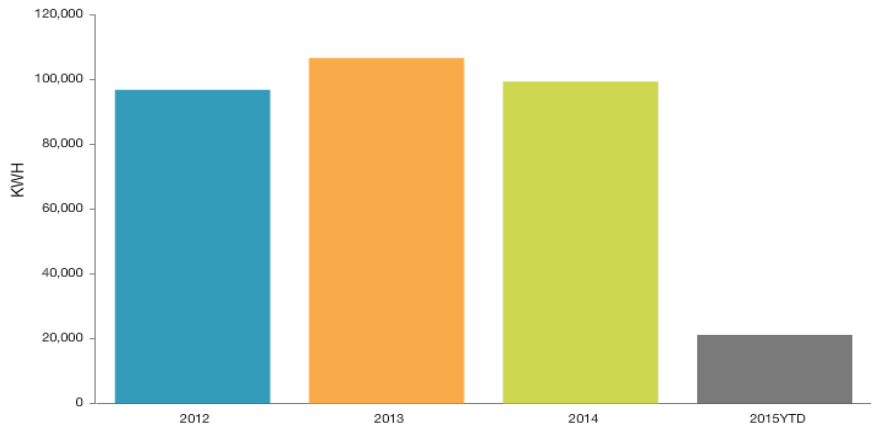


Emergency Services Utility Use

Location: Henderson County-> EMERGENCYSERVICES [Emergency Services]
Time: 06/02/2015 4:00:55 PM **Commodity:** Electric

Electricity in KWH

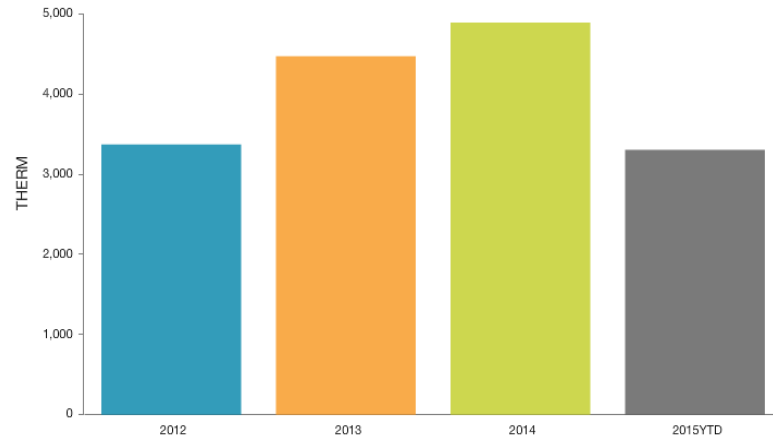
Total Use Summary
(FY ends in Dec of year shown)



Location: Henderson County-> EMERGENCYSERVICES [Emergency Services]
Time: 06/02/2015 4:00:55 PM **Commodity:** Natural Gas

Natural Gas in Therms

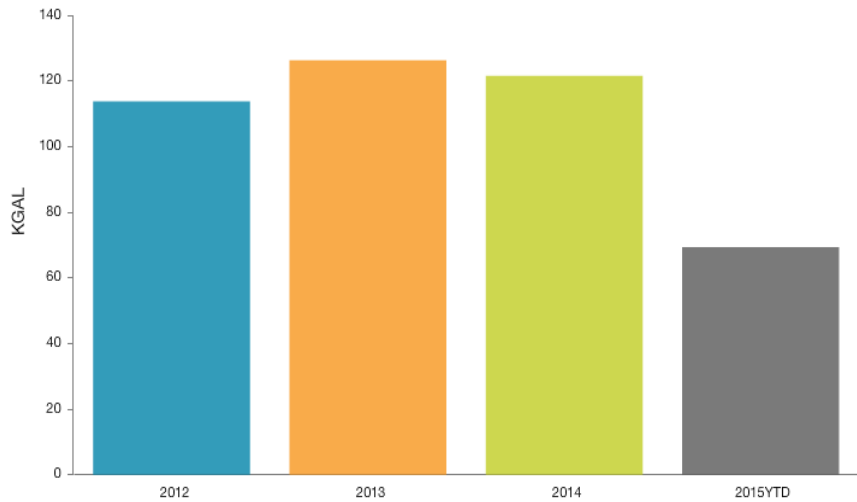
Total Use Summary
(FY ends in Dec of year shown)



Location: Henderson County-> EMERGENCYSERVICES [Emergency Services]
Time: 06/02/2015 4:00:55 PM **Commodity:** Water

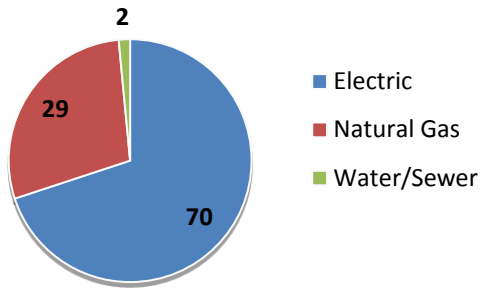
Water in Thousands of Gal

Total Use Summary
(FY ends in Dec of year shown)



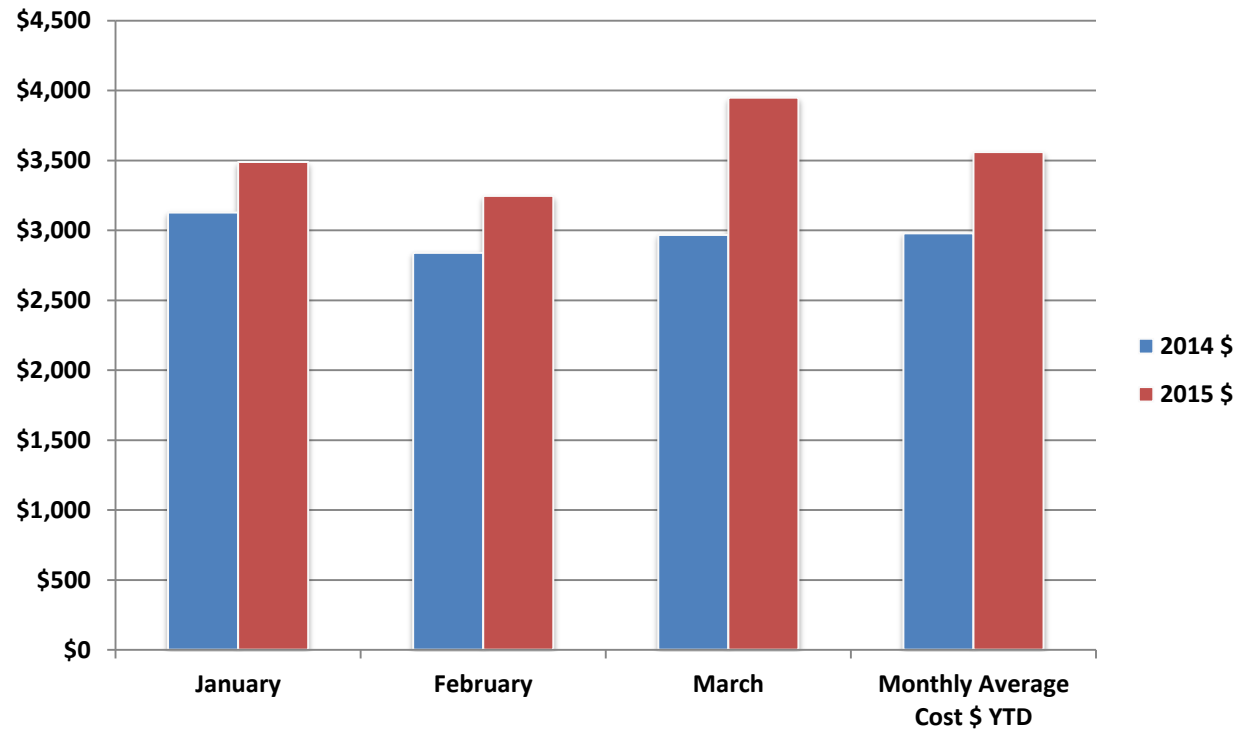
Historic Courthouse Utility Use

Total Cost % YTD*



* The cost percentage of each commodity over the most recent 12 months, not including the current month or last month (FacilityDude assumes the data for these months may be incomplete).

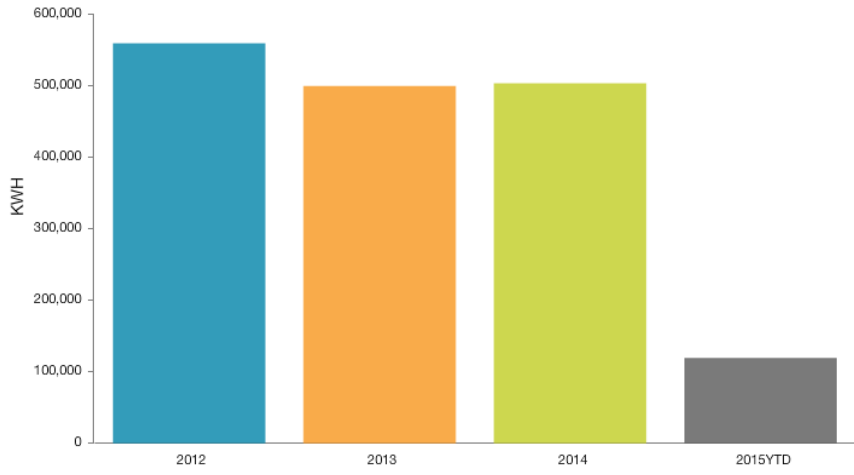
Historic Courthouse Electricity Use Comparison Qtr. 3, 2014-2015



Historic Courthouse Utility Use

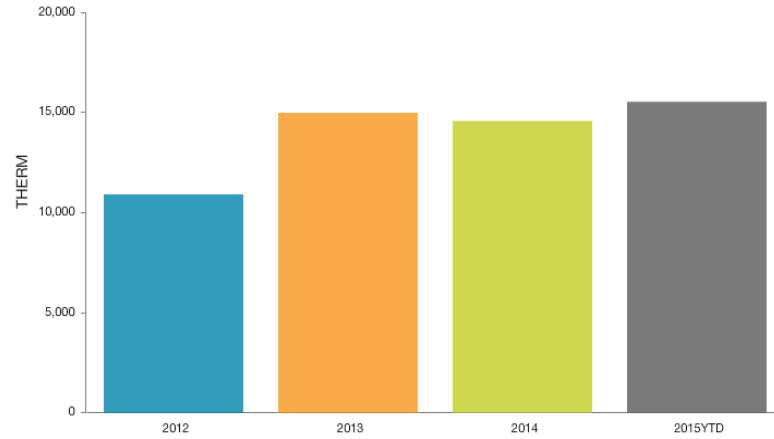
Location: Henderson County-> HISTORICCOURTHOUSE [Historic Courthouse]
Time: 06/02/2015 4:00:55 PM **Commodity:** Electric **Electricity in KWH**

Total Use Summary
 (FY ends in Dec of year shown)



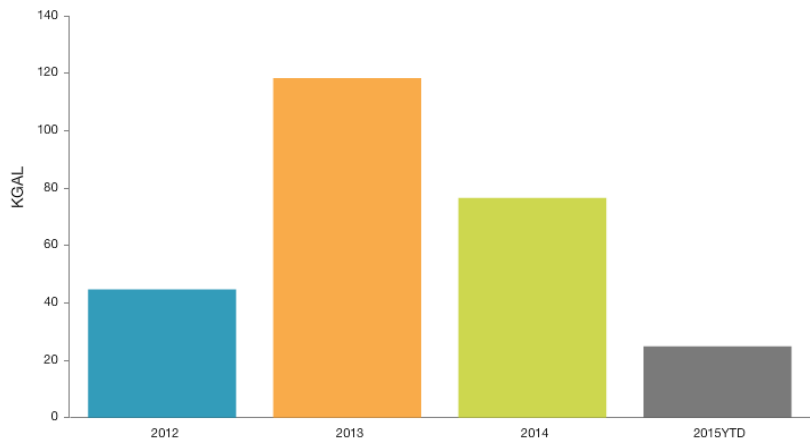
Location: Henderson County-> HISTORICCOURTHOUSE [Historic Courthouse]
Time: 06/02/2015 4:00:55 PM **Commodity:** Natural Gas **Natural Gas in Therms**

Total Use Summary
 (FY ends in Dec of year shown)



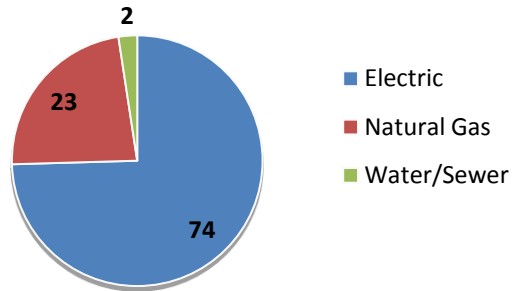
Location: Henderson County-> HISTORICCOURTHOUSE [Historic Courthouse]
Time: 06/02/2015 4:00:55 PM **Commodity:** Water **Water in Thousands of Gal**

Total Use Summary
 (FY ends in Dec of year shown)



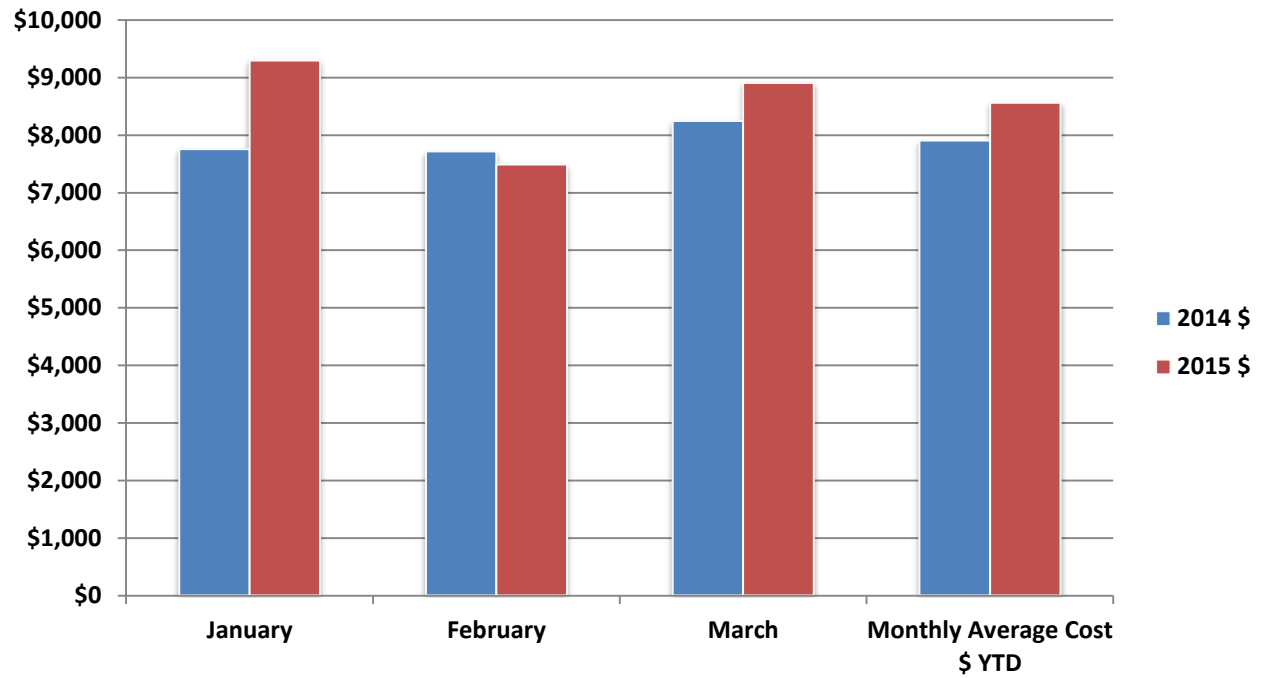
Human Services Utility Use

Total Cost % YTD*



* The cost percentage of each commodity over the most recent 12 months, not including the current month or last month (FacilityDude assumes the data for these months may be incomplete).

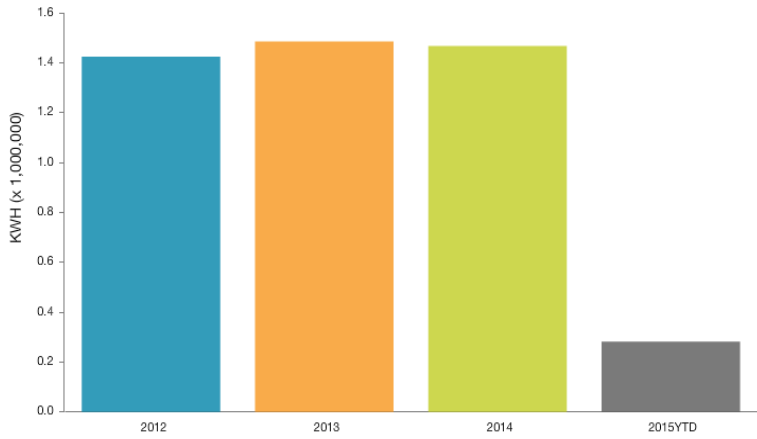
Human Services Electricity Use Comparison Qtr. 3, 2014-2015



Human Services Utility Use

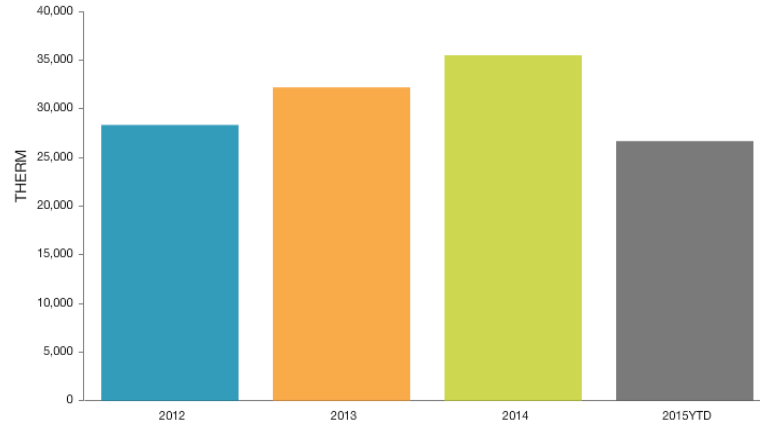
Location: Henderson County-> HUMANSERVICES [Human Services]
Time: 06/02/2015 4:00:55 PM **Commodity:** Electric **Electricity in KWH**

Total Use Summary
(FY ends in Dec of year shown)



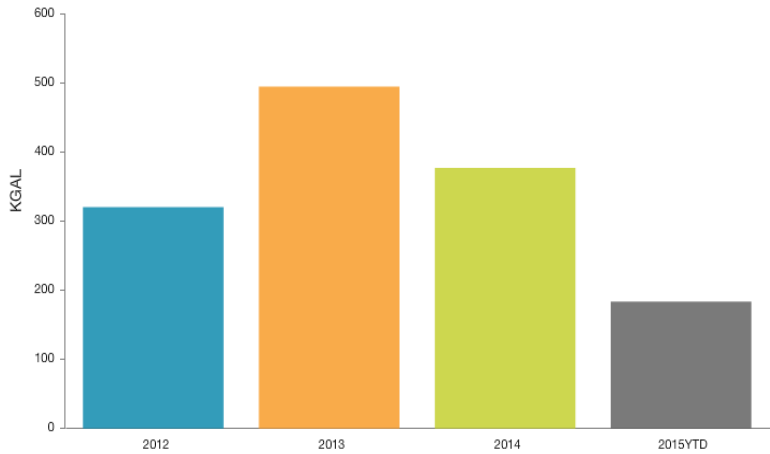
Location: Henderson County-> HUMANSERVICES [Human Services]
Time: 06/02/2015 4:00:55 PM **Commodity:** Natural Gas **Natural Gas in Therms**

Total Use Summary
(FY ends in Dec of year shown)



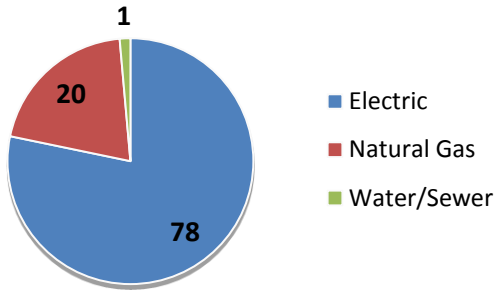
Location: Henderson County-> HUMANSERVICES [Human Services]
Time: 06/02/2015 4:00:55 PM **Commodity:** Water **Water in Thousands of Gal**

Total Use Summary
(FY ends in Dec of year shown)



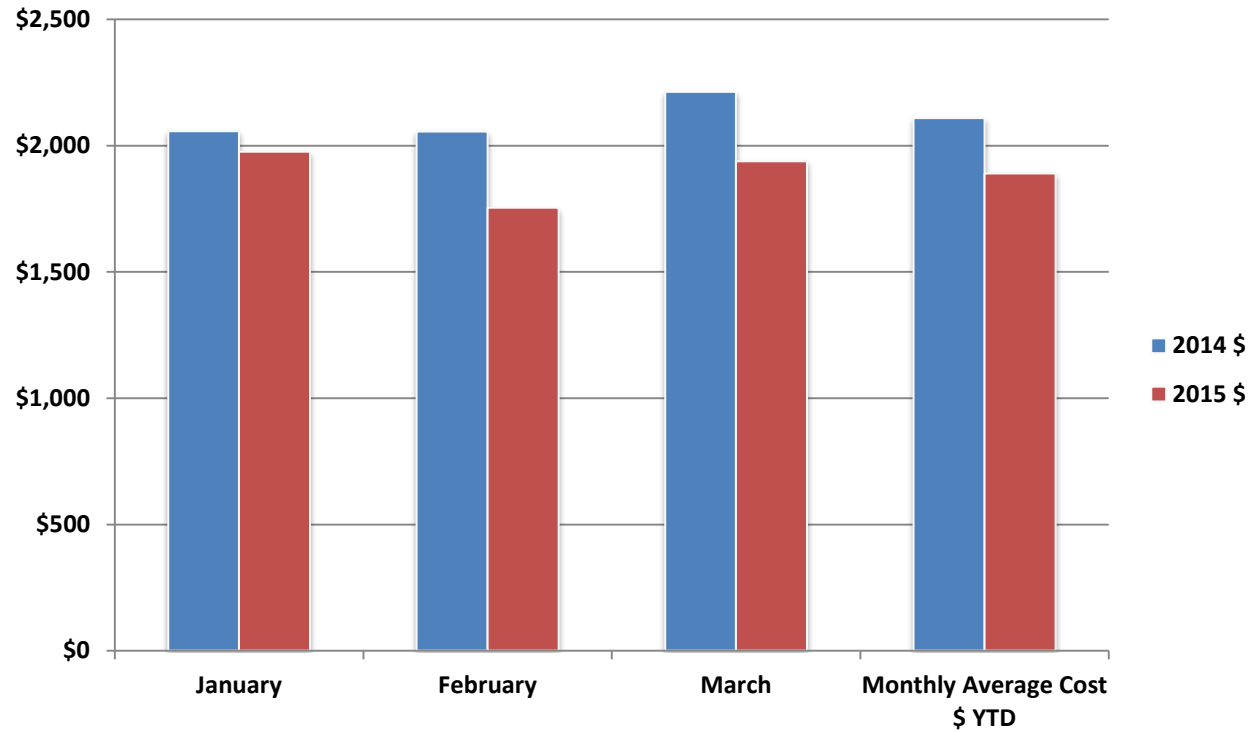
King Street Utility Use

Total Cost % YTD*



* The cost percentage of each commodity over the most recent 12 months, not including the current month or last month (FacilityDude assumes the data for these months may be incomplete).

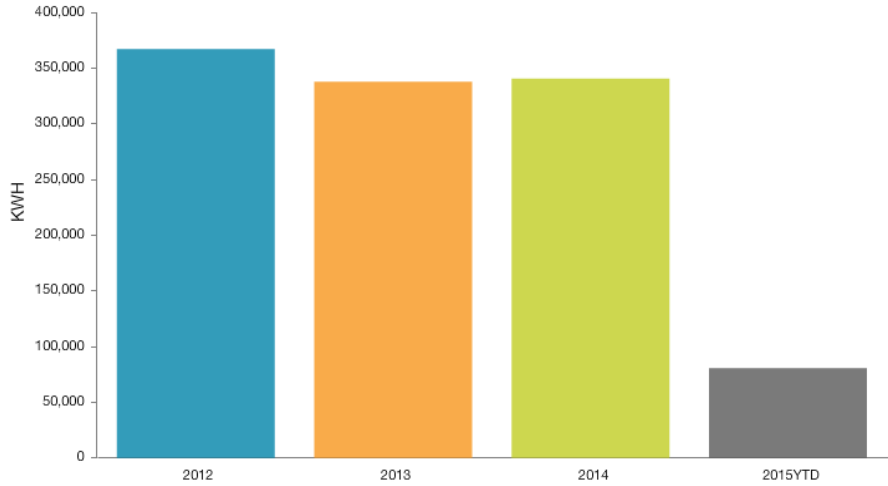
**King Street Electricity Use Comparison
Qtr. 3, 2014-2015**



King Street Utility Use

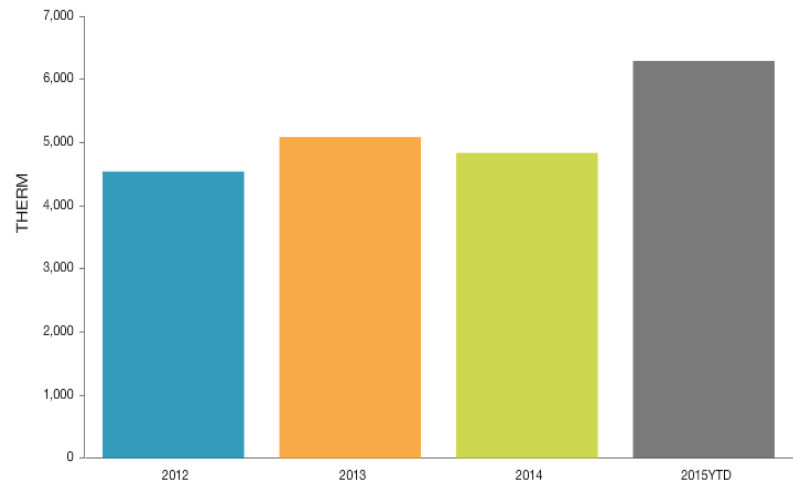
Location: Henderson County-> KINGSTREETBUILDING [King Street Building]
Time: 06/02/2015 4:00:55 PM **Commodity:** Electric **Electricity in KWH**

Total Use Summary
(FY ends in Dec of year shown)



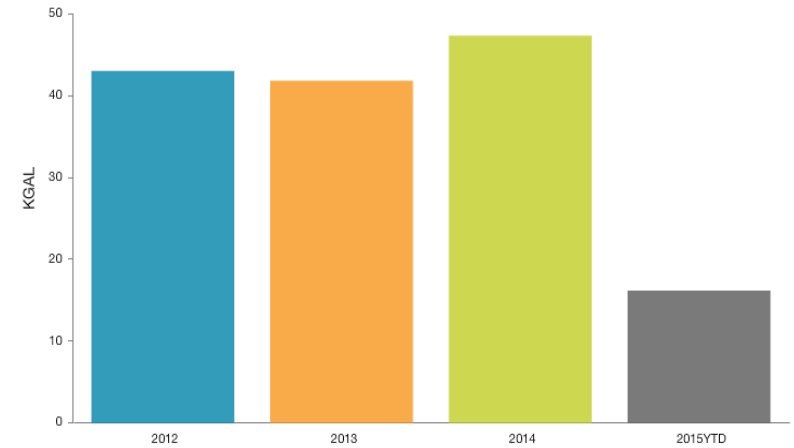
Location: Henderson County-> KINGSTREETBUILDING [King Street Building]
Time: 06/02/2015 4:00:55 PM **Commodity:** Natural Gas **Natural Gas in Therms**

Total Use Summary
(FY ends in Dec of year shown)



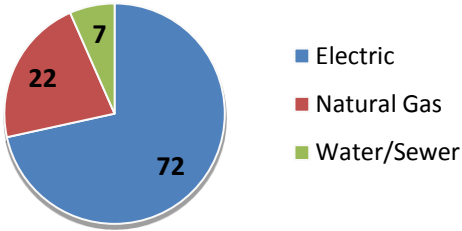
Location: Henderson County-> KINGSTREETBUILDING [King Street Building]
Time: 06/02/2015 4:00:55 PM **Commodity:** Water **Water in Thousands of Gal**

Total Use Summary
(FY ends in Dec of year shown)



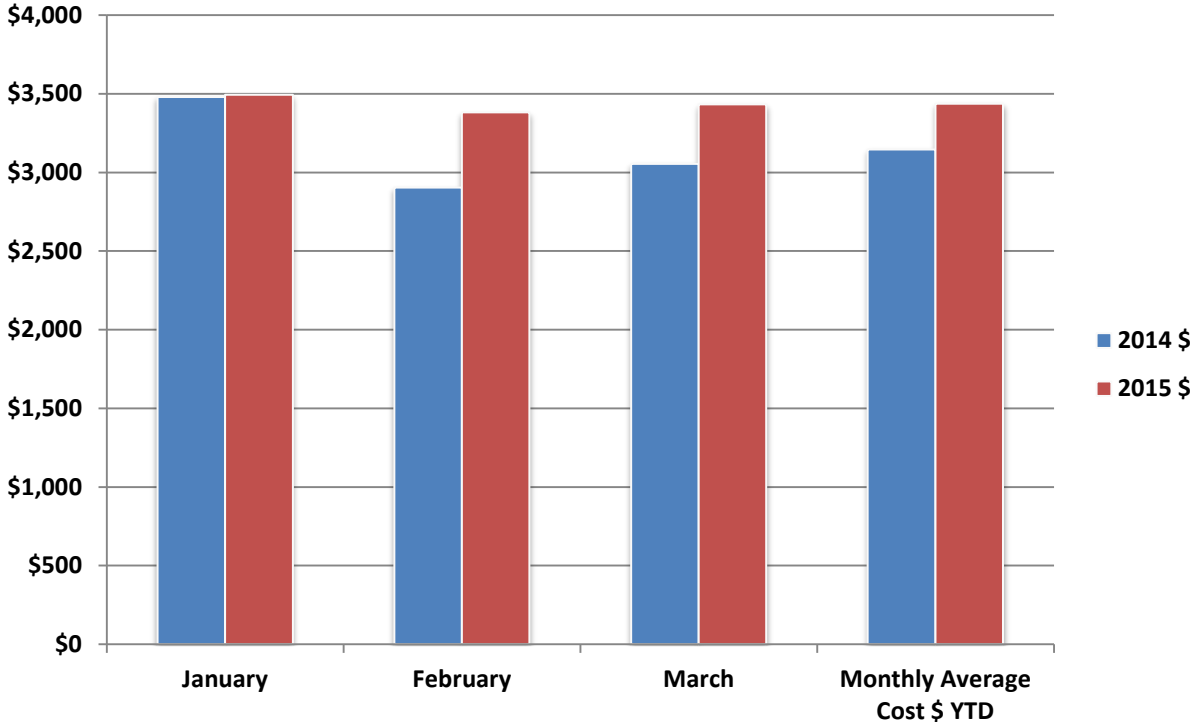
Library Utility Use

Total Cost % YTD*



* The cost percentage of each commodity over the most recent 12 months, not including the current month or last month (FacilityDude assumes the data for these months may be incomplete).

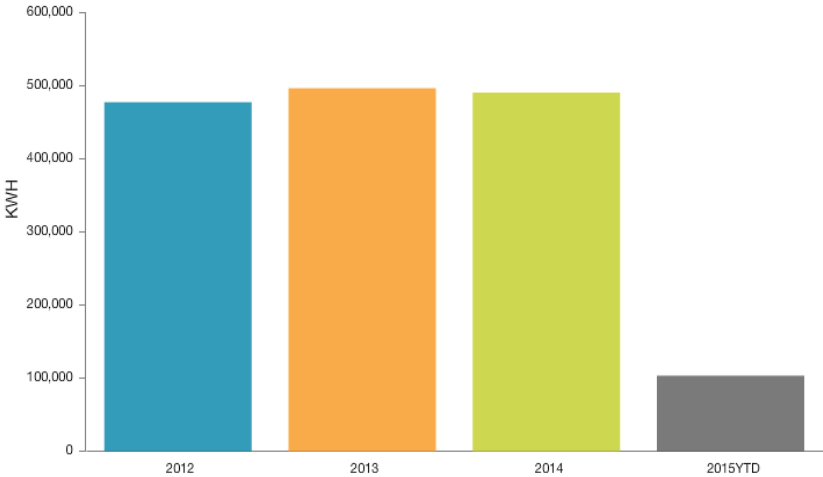
**Libraries Electricity Use Comparison
Qtr. 3, 2014-2015**



Library Utility Use

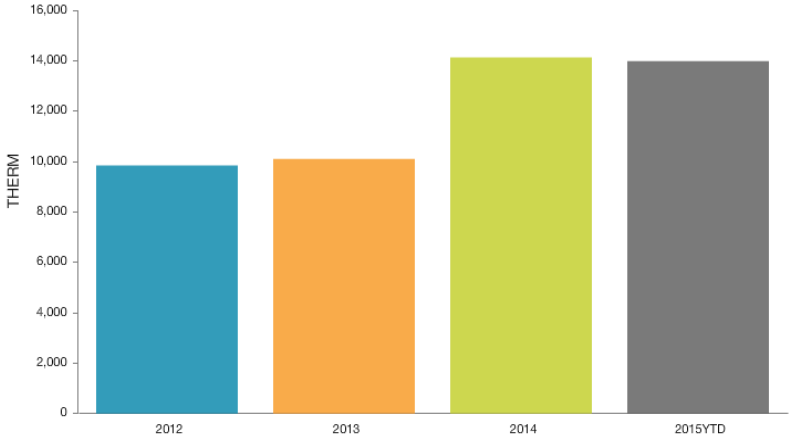
Location: Henderson County-> LIBRARY [Library]
Time: 06/03/2015 9:00:56 AM **Commodity:** Electric **Electricity in KWH**

Total Use Summary
(FY ends in Dec of year shown)



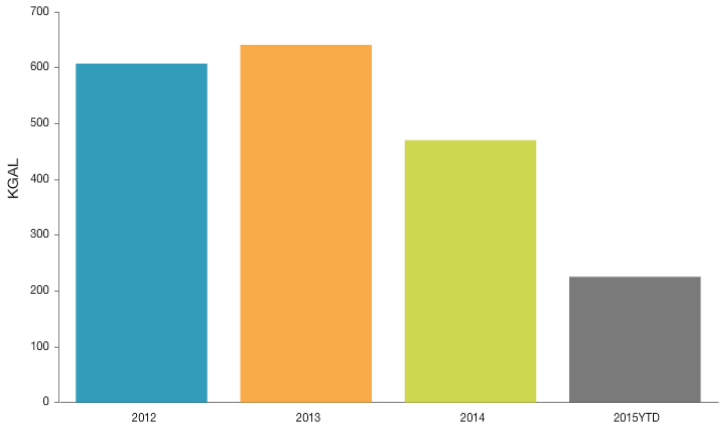
Location: Henderson County-> LIBRARY [Library]
Time: 06/03/2015 9:00:56 AM **Commodity:** Natural Gas **Natural Gas in Therms**

Total Use Summary
(FY ends in Dec of year shown)



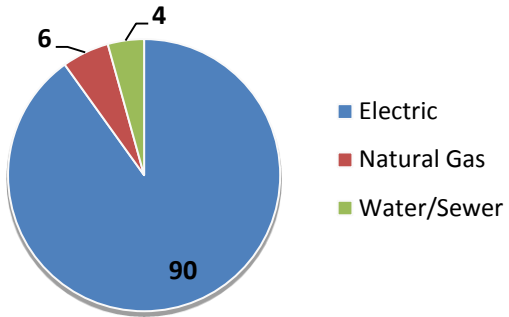
Location: Henderson County-> LIBRARY [Library]
Time: 06/03/2015 9:00:56 AM **Commodity:** Water **Water in Thousands of Gal**

Total Use Summary
(FY ends in Dec of year shown)



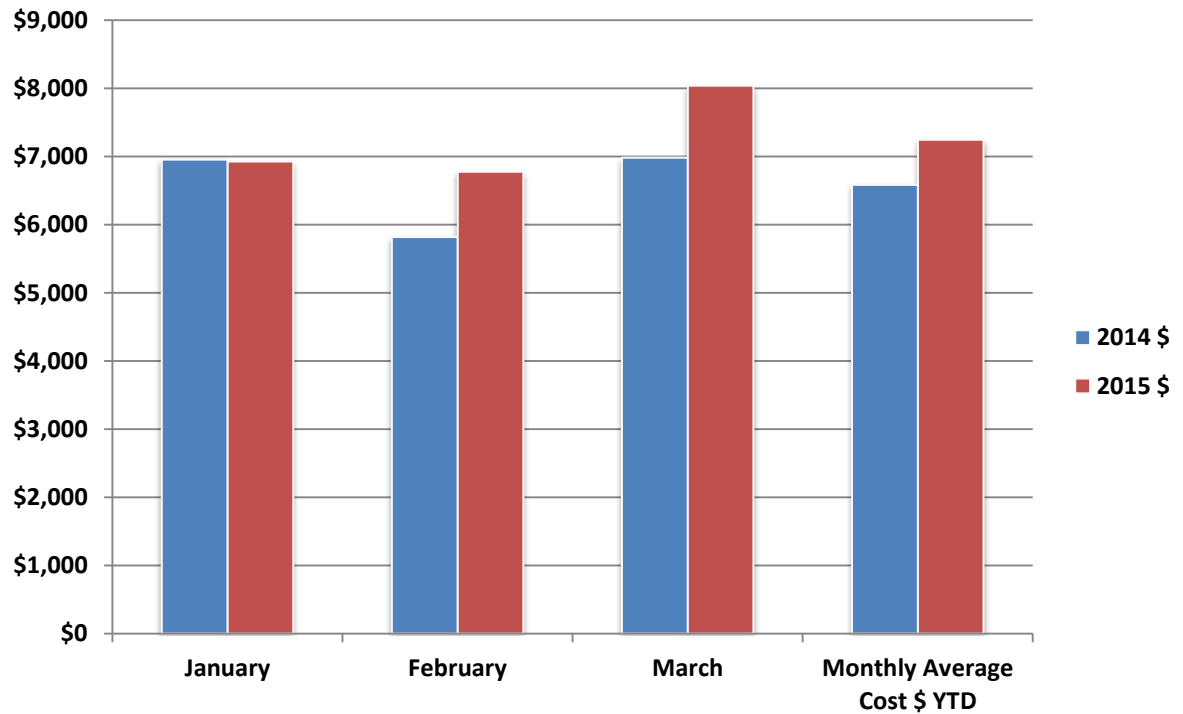
Parks and Recreation Utility Use

Total Cost % YTD*



* The cost percentage of each commodity over the most recent 12 months, not including the current month or last month (FacilityDude assumes the data for these months may be incomplete).

Parks & Recreation Electricity Use Comparison Qtr. 3, 2014-2015

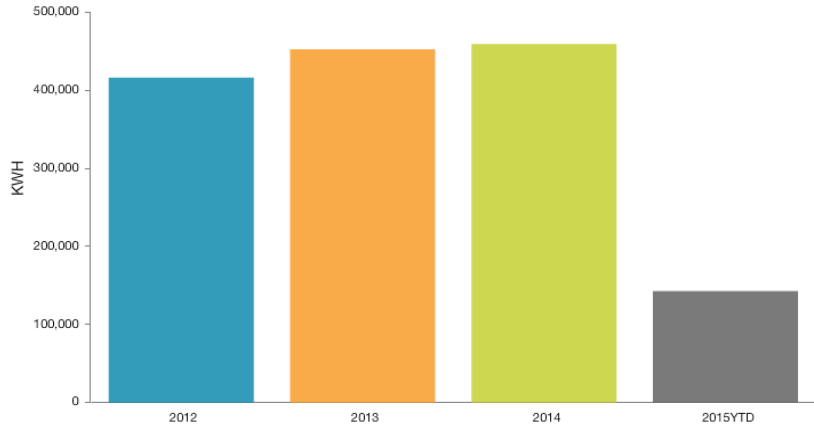


Parks and Recreation Utility Use

Location: Henderson County-> PARKS&RECREATION [Parks & Recreation]
Time: 06/03/2015 9:00:56 AM **Commodity:** Electric

Electricity in KWH

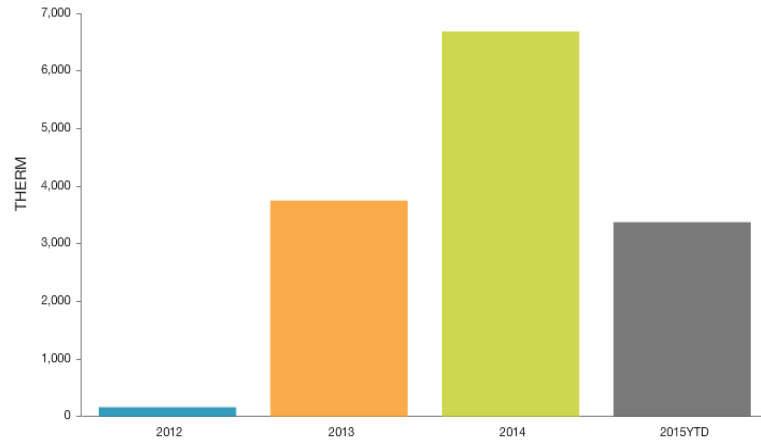
Total Use Summary
(FY ends in Dec of year shown)



Location: Henderson County-> PARKS&RECREATION [Parks & Recreation]
Time: 06/03/2015 9:00:56 AM **Commodity:** Natural Gas

Natural Gas in Therms

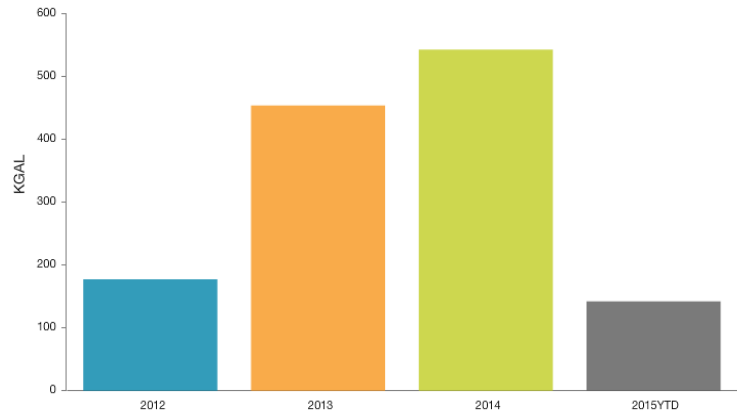
Total Use Summary
(FY ends in Dec of year shown)



Location: Henderson County-> PARKS&RECREATION [Parks & Recreation]
Time: 06/03/2015 9:00:56 AM **Commodity:** Water

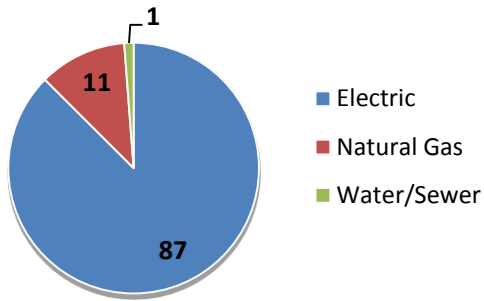
Water in Thousands of Gal

Total Use Summary
(FY ends in Dec of year shown)



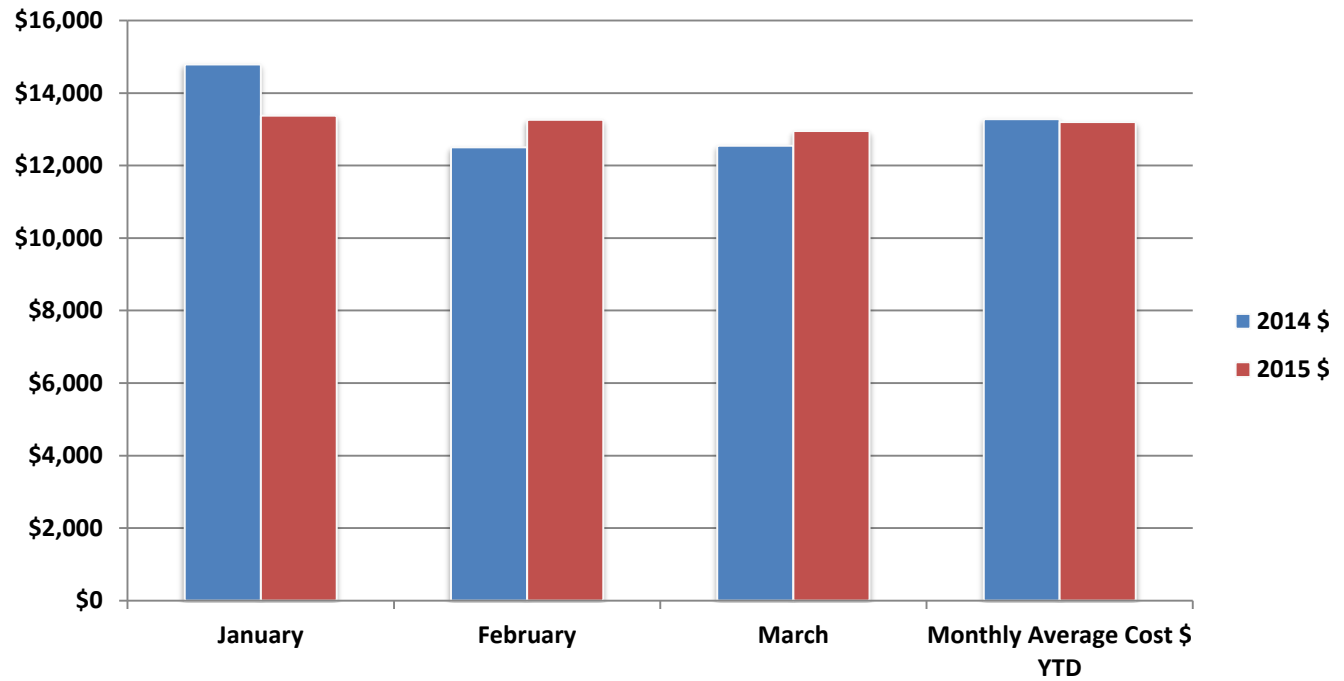
Sheriff's Complex Utility Use

Total Cost % YTD*



* The cost percentage of each commodity over the most recent 12 months, not including the current month or last month (FacilityDude assumes the data for these months may be incomplete).

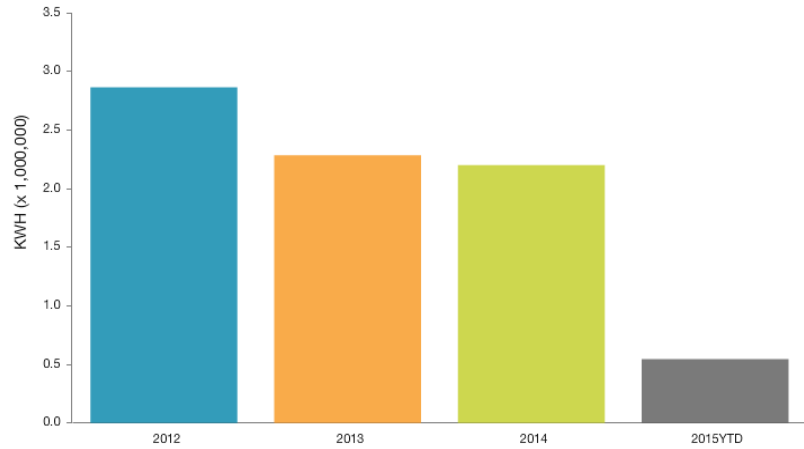
Sheriff's Complex Electricity Use Comparison Qtr. 3, 2014-2015



Sheriff's Complex Utility Use

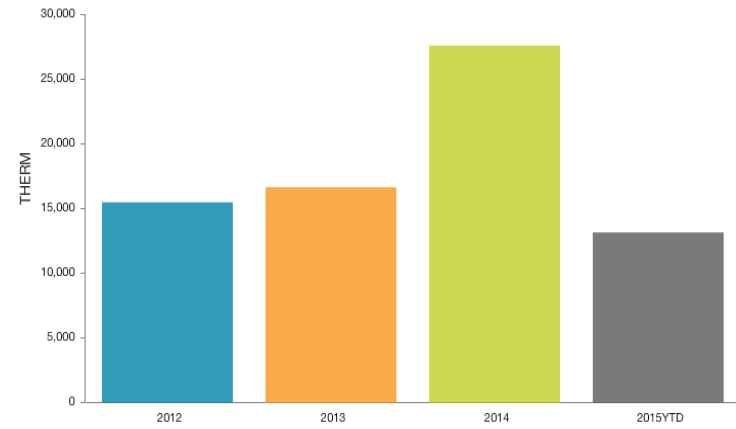
Location: Henderson County-> SHERIFF [Sheriff] Commodity: Electric Electricity in KWH
 Time: 06/03/2015 10:00:58 AM

Total Use Summary
 (FY ends in Dec of year shown)



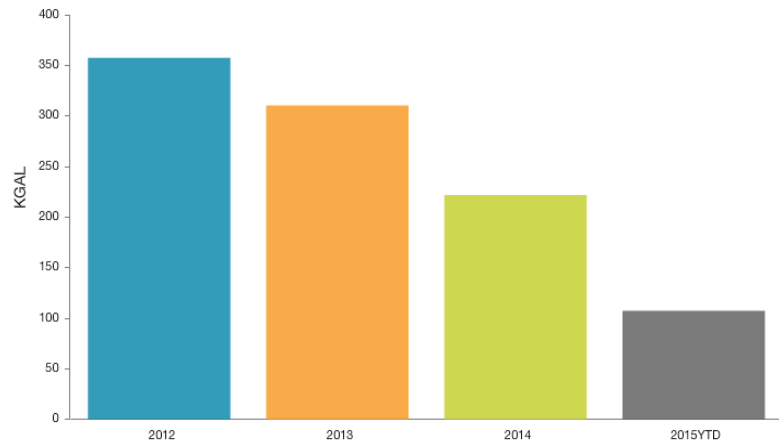
Location: Henderson County-> SHERIFF [Sheriff] Commodity: Natural Gas Natural Gas in Therms
 Time: 06/03/2015 10:00:58 AM

Total Use Summary
 (FY ends in Dec of year shown)



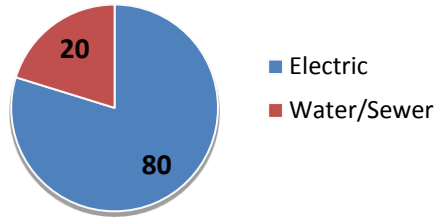
Location: Henderson County-> SHERIFF [Sheriff] Commodity: Water Water in Thousands of Gal
 Time: 06/03/2015 10:00:58 AM

Total Use Summary
 (FY ends in Dec of year shown)



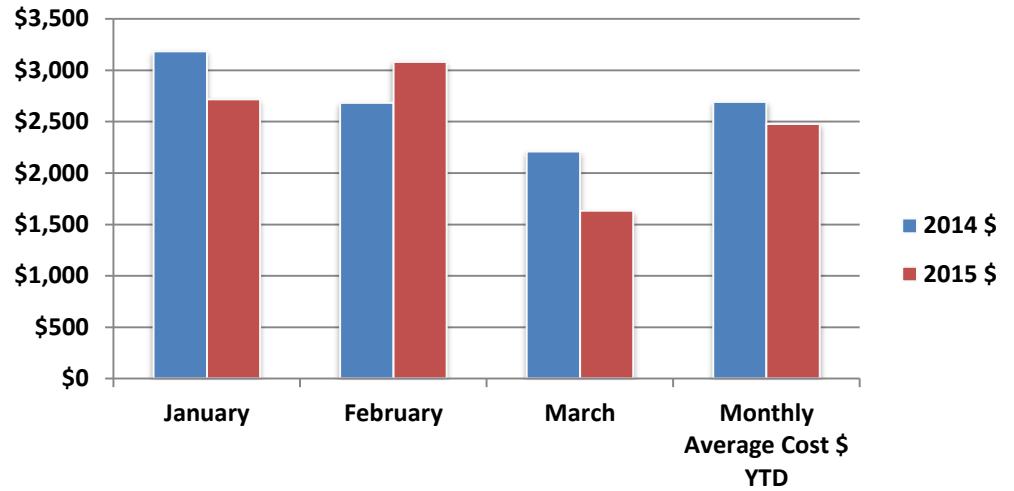
Solid Waste Utility Use

Total Cost % YTD*



* The cost percentage of each commodity over the most recent 12 months, not including the current month or last month (FacilityDude assumes the data for these months may be incomplete).

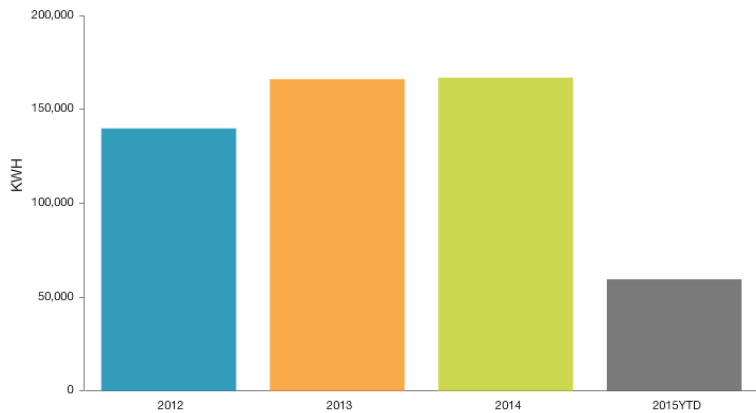
Solid Waste Electricity Use Comparison Qtr. 3, 2014-2015



Location: Henderson County-> SOLIDWASTE [Solid Waste]
Time: 06/03/2015 10:00:58 AM Commodity: Electric

Electricity in KWH

Total Use Summary
(FY ends in Dec of year shown)



Location: Henderson County-> SOLIDWASTE [Solid Waste]
Time: 06/03/2015 10:00:58 AM Commodity: Water

Water in Thousands of Gal

Total Use Summary
(FY ends in Dec of year shown)

