REQUEST FOR BOARD ACTION

HENDERSON COUNTY
BOARD OF COMMISSIONERS

MEETING DATE: Wednesday, September 16, 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 past FY fourth quarter with the previous year to illustrate historical trends in commodity consumption. Supplementary cost analyses represent the monthly cost profile comparing 2014 and 2015 YTD for the highest-cost commodity at each facility.

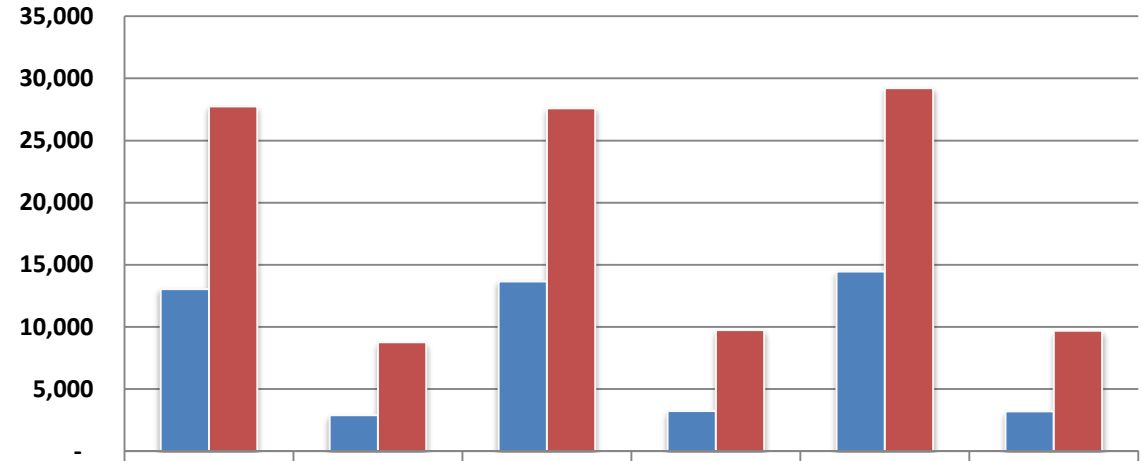
BOARD ACTION REQUESTED:
No Board action is requested. This item is for informational purposes only.

Suggested Motion:
No motion suggested.

Energy and Fuel Reduction Plan Status for Qtr. 4 - FY15
April - June 2015
BOC Meeting: September 16, 2015

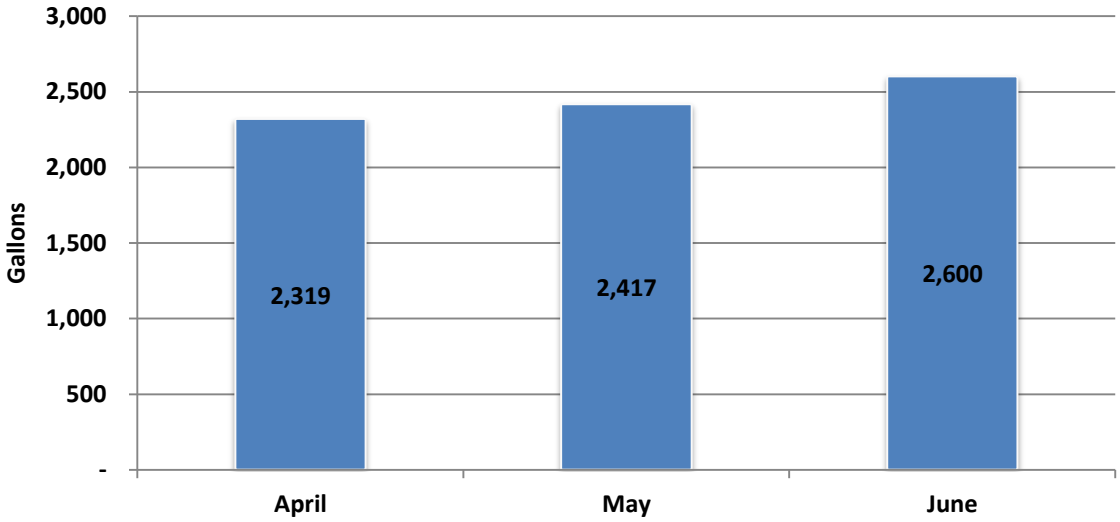
FUELS & FLEET INFORMATION

Henderson County Fleet Conventional Fuel Consumption, Qtr. 4 FY 15 (April - June 2015)



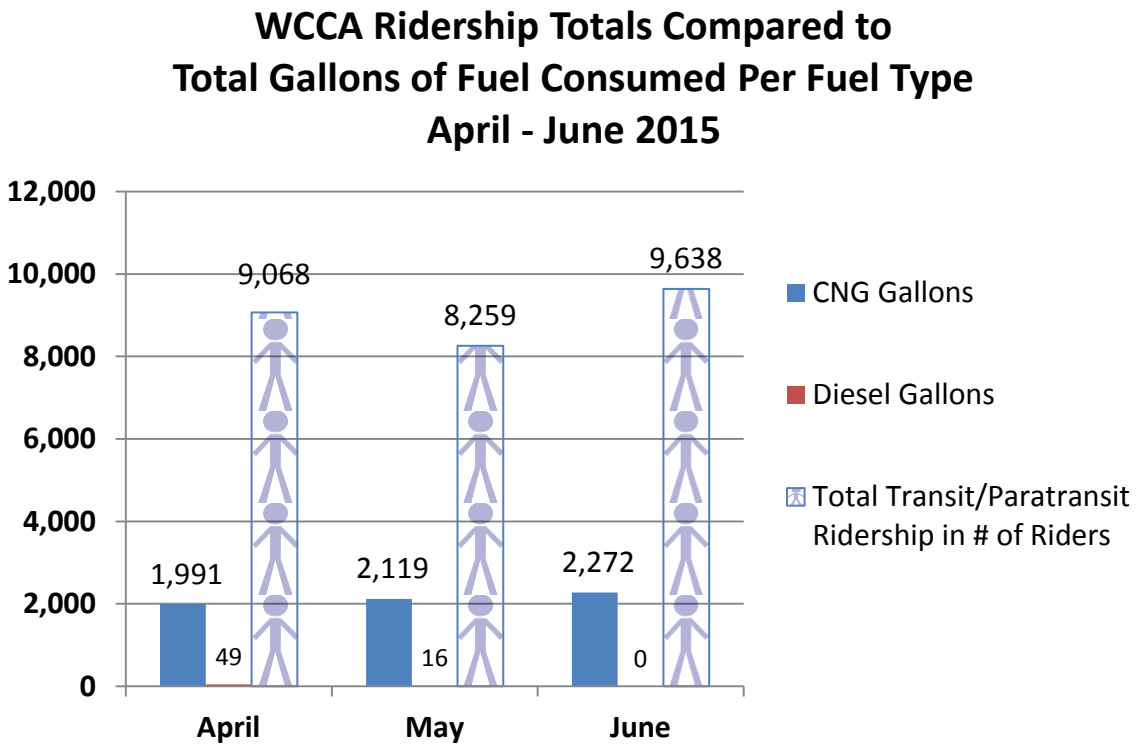
	April		May		June	
	Unleaded	Diesel	Unleaded	Diesel	Unleaded	Diesel
Gallons	13,038	2,882	13,650	3,211	14,456	3,187
$ Total	$27,736.72	$8,751.94	$27,585.00	$9,751.03	$29,212.50	$9,677.18

Henderson County CNG Fleet Fuel Consumption, Qtr. 4 FY 15 (April - June 2015) *



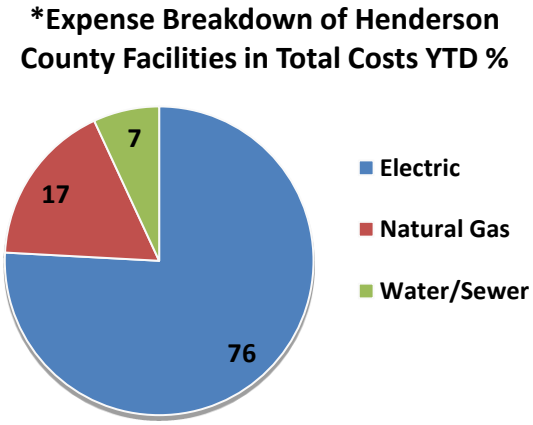
* Departments include: Building Inspections, Solid Waste, Utilities, WCCA Busses

FUELS & FLEET INFORMATION continued



UTILITY USAGE INFORMATION

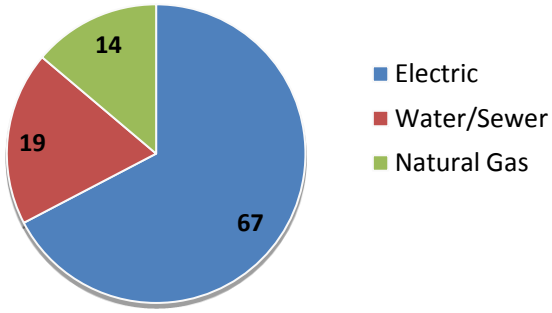
**Environmental Programs is tracking:*
46 City of Hendersonville Water/Sewer meters
110 Duke Energy meters
21 PSNC Natural Gas meters



The graph above is a cumulative comparison by percentage of 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 based on varying billing cycles among the different utilities]).

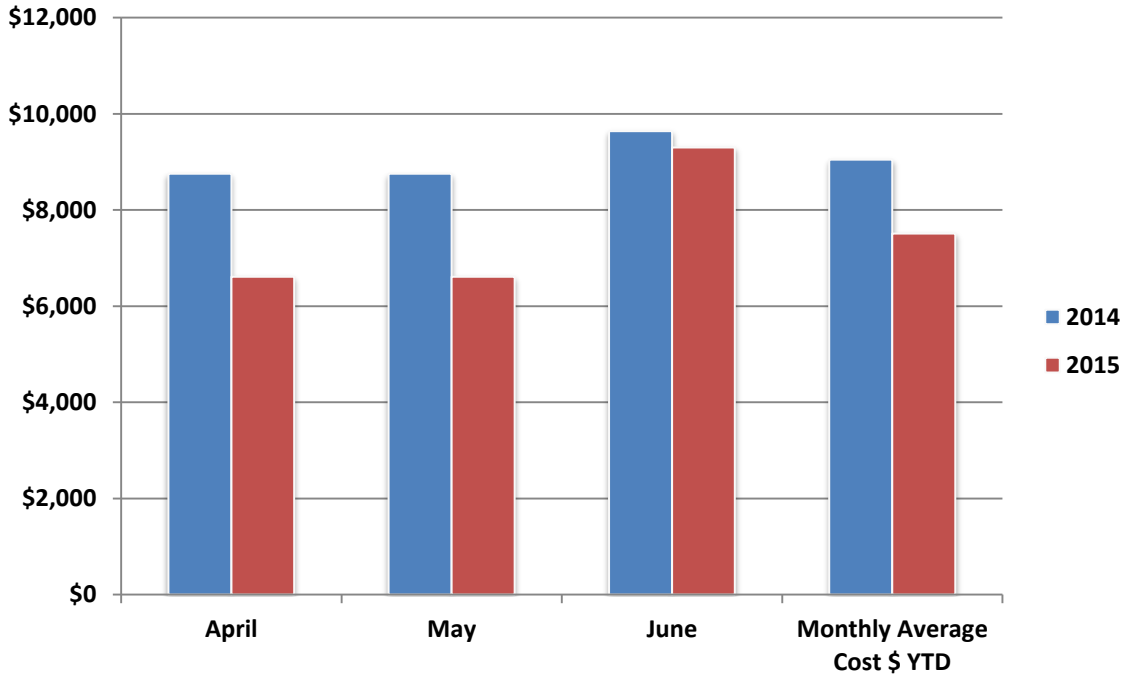
1995 Courthouse Utility Use

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).

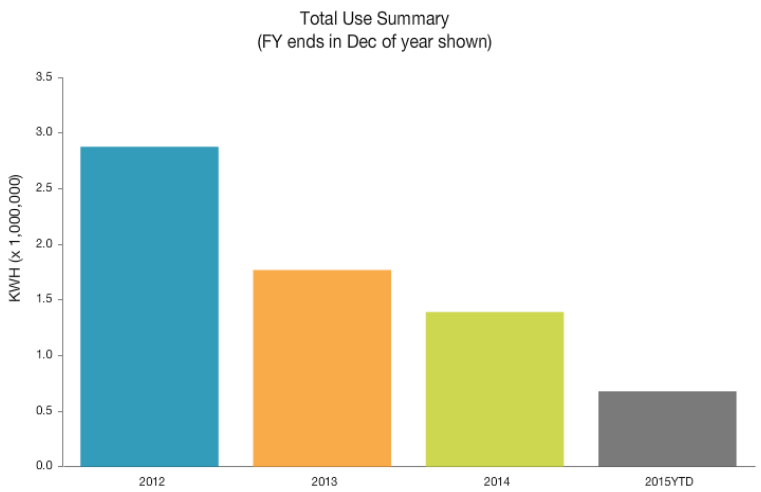
95 Courthouse Electricity Usage Comparison
Qtr. 4, 2014-2015



1995 Courthouse Utility Use

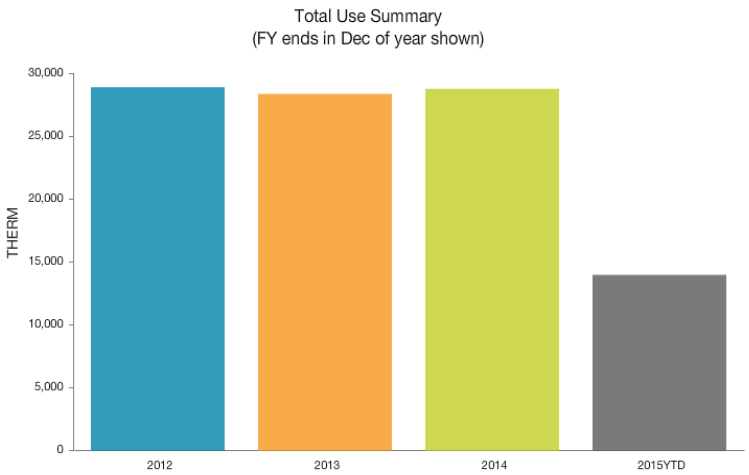
Location: Henderson County-> 95COURTHOUSE [95 Courthouse]
Time: 08/25/2015 4:01:01 PM **Commodity:** Electric

Electricity in KWH



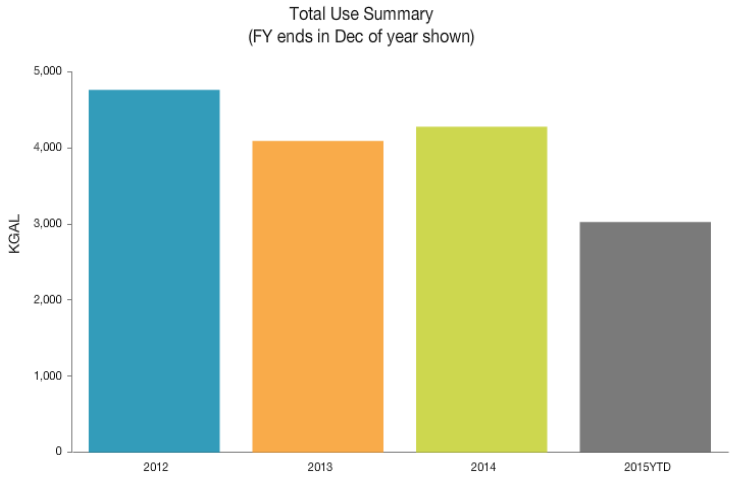
Location: Henderson County-> 95COURTHOUSE [95 Courthouse]
Time: 08/25/2015 4:01:01 PM **Commodity:** Natural Gas

Natural Gas in Therms



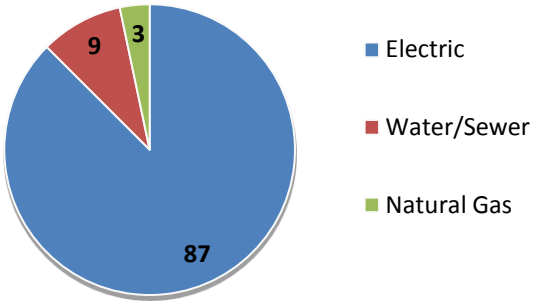
Location: Henderson County-> 95COURTHOUSE [95 Courthouse]
Time: 08/25/2015 4:01:01 PM **Commodity:** Water

Water in Thousands of Gal



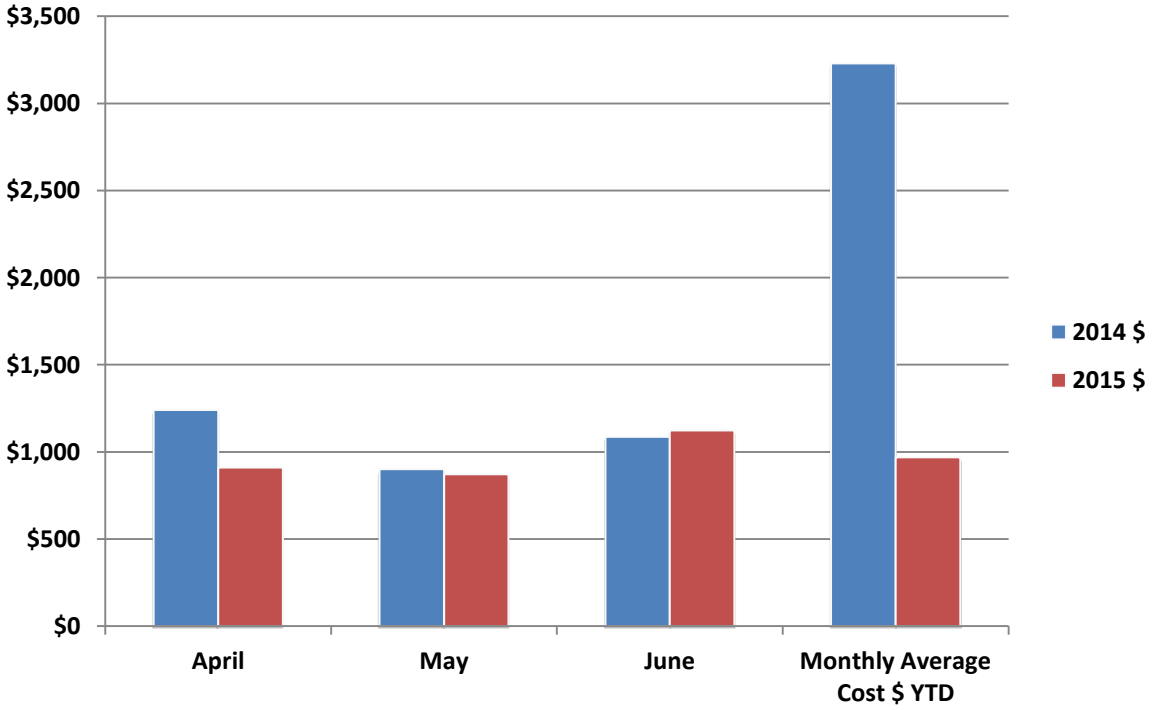
Animal Services Utility Use

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).

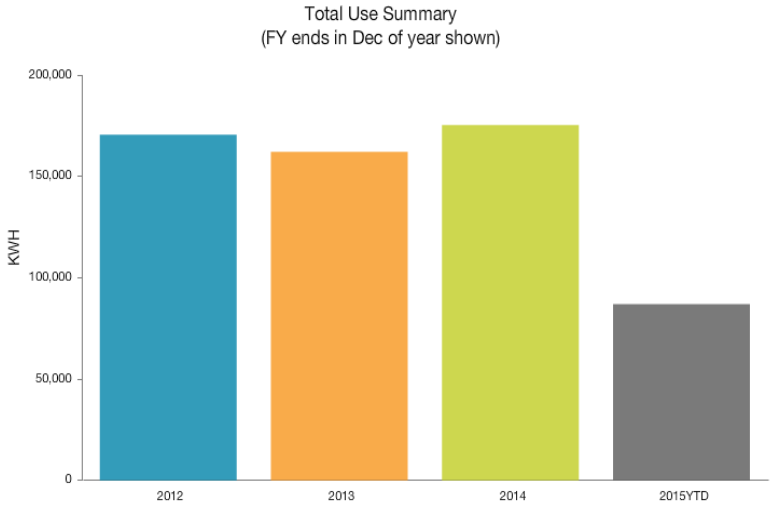
Animal Services Electricity Usage Comparison
Qtr. 4, 2014-2015



Animal Services Utility Use

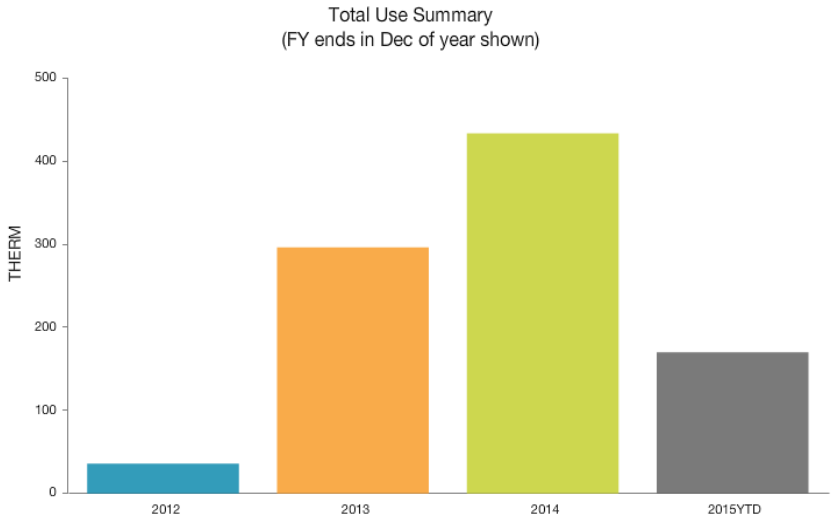
Location: Henderson County-> Animal Services-> ANIMALSHELTER_3560 [Animal Shelter]
Time: 09/03/2015 11:01:00 AM **Commodity:** Electric

Electricity in KWH



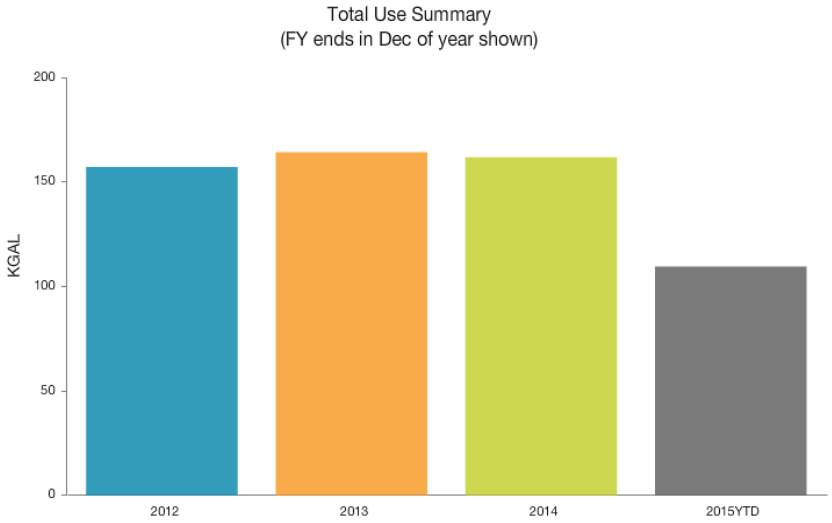
Location: Henderson County-> Animal Services-> ANIMALSHELTER_3560 [Animal Shelter]
Time: 09/03/2015 11:01:00 AM **Commodity:** Natural Gas

Natural Gas in Therms

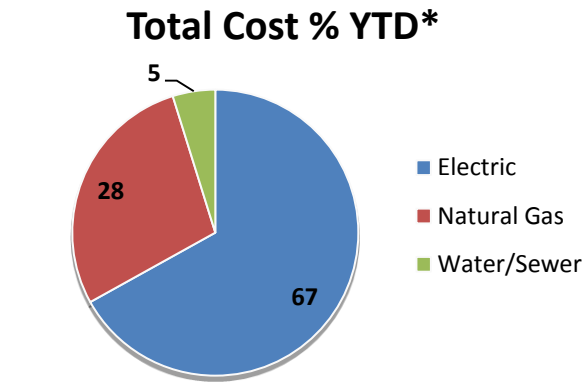


Location: Henderson County-> Animal Services-> ANIMALSHELTER_3560 [Animal Shelter]
Time: 09/03/2015 11:01:00 AM **Commodity:** Water

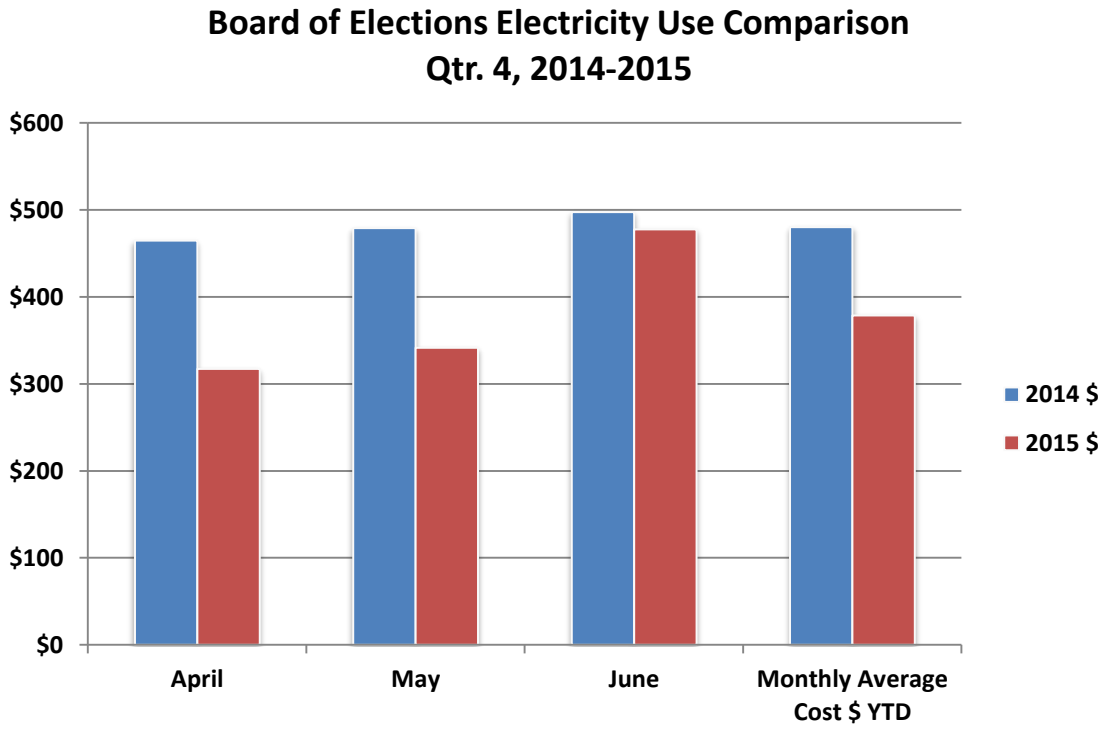
Water in Thousands of Gal



Board of Elections Utility Use



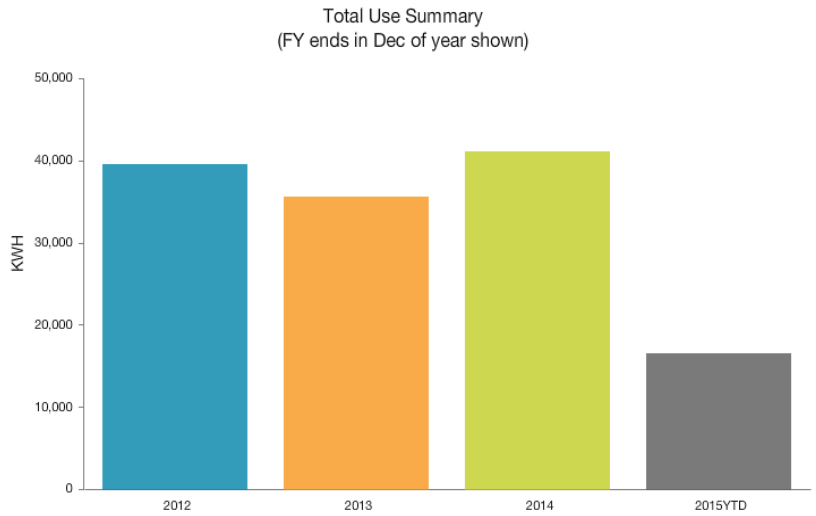
* The cost percentage of each commodity over the most recent 12 months, not including the current month or last month (FacilityDude assumes the data for these months may be incomplete).



Board of Elections Utility Use

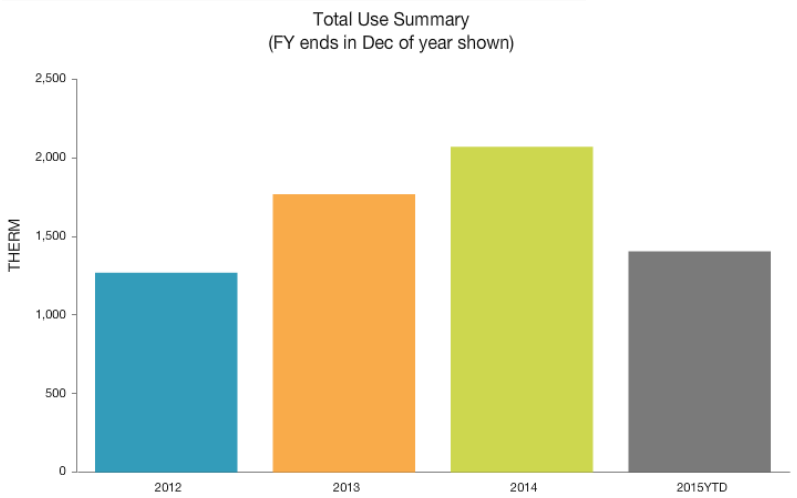
Location: Henderson County-> BOARDOFELECTIONS [Board Of Elections]
Time: 09/03/2015 11:01:00 AM **Commodity:** Electric

Electricity in KWH



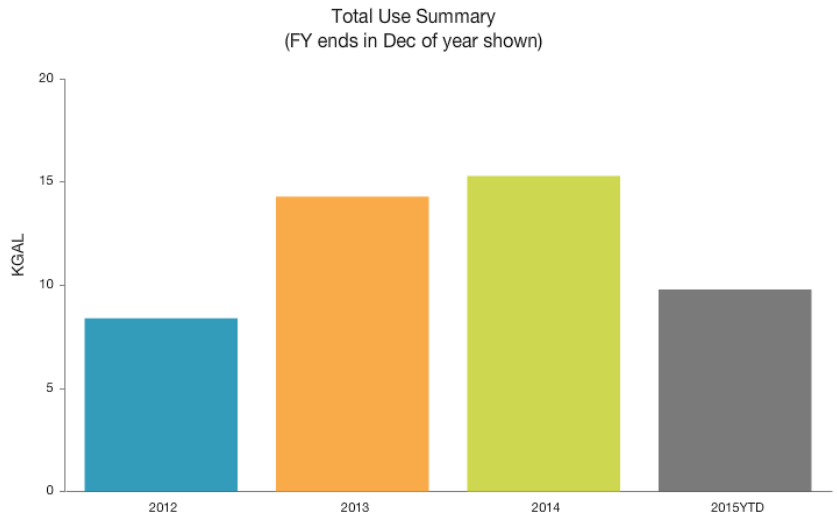
Location: Henderson County-> BOARDOFELECTIONS [Board Of Elections]
Time: 09/03/2015 11:01:00 AM **Commodity:** Natural Gas

Natural Gas in Therms



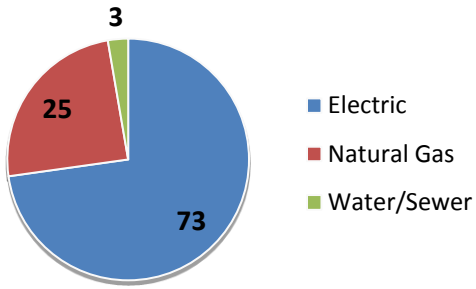
Location: Henderson County-> BOARDOFELECTIONS [Board Of Elections]
Time: 09/03/2015 11:01:00 AM **Commodity:** Water

Water in Thousands of Gal



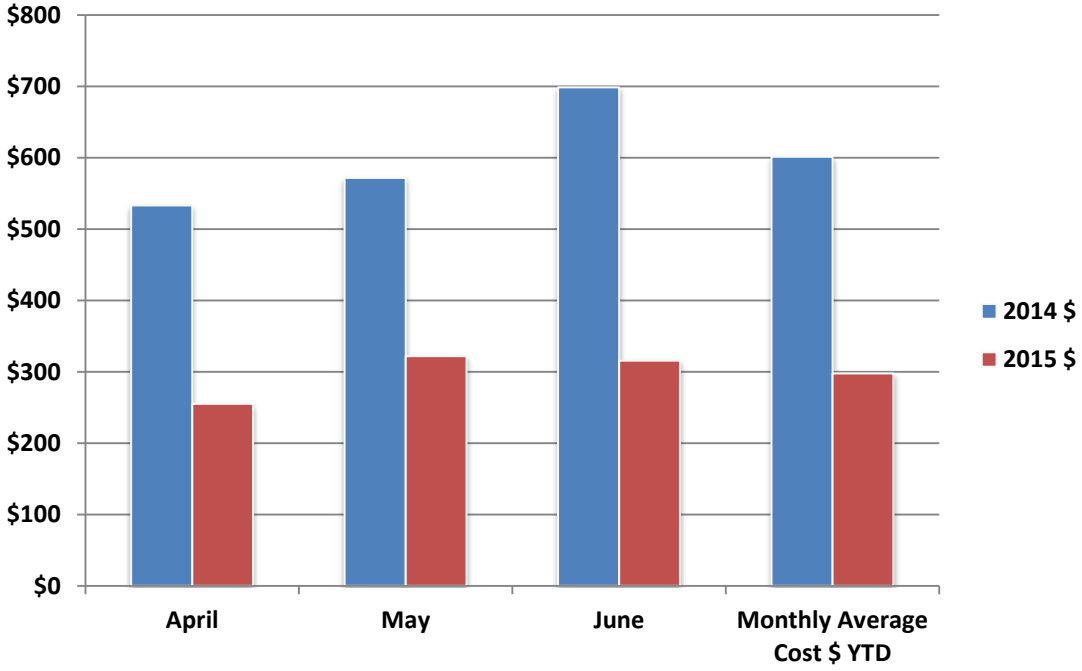
Central Services Utility Use

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. 4, 2014-2015

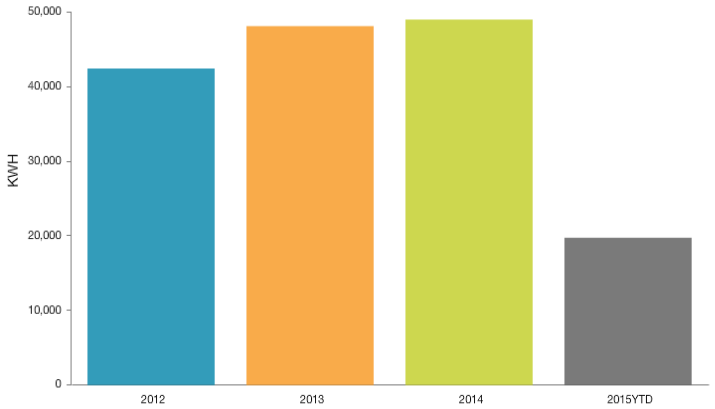


Central Services Utility Use

Location: Henderson County-> CENTRALSERVICES [Central Services]
Time: 09/03/2015 11:01:00 AM **Commodity:** Electric

Electricity in KWH

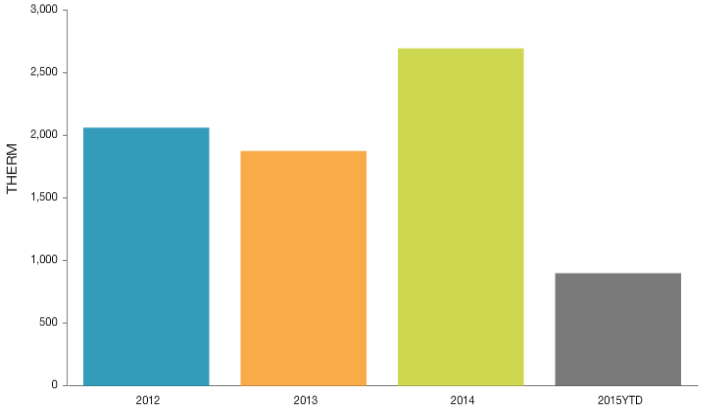
Total Use Summary
(FY ends in Dec of year shown)



Location: Henderson County-> CENTRALSERVICES [Central Services]
Time: 08/28/2015 9:00:56 AM **Commodity:** Natural Gas

Natural Gas in Therms

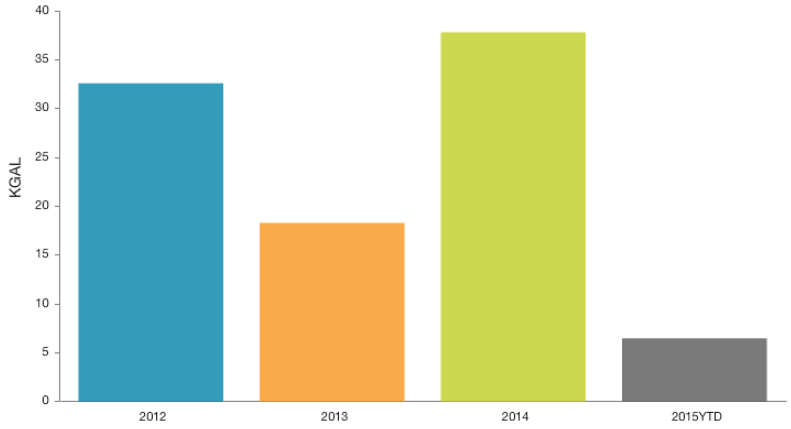
Total Use Summary
(FY ends in Dec of year shown)



Location: Henderson County-> CENTRALSERVICES [Central Services]
Time: 09/03/2015 11:01:00 AM **Commodity:** Water **Created By:** Rachel Hodge

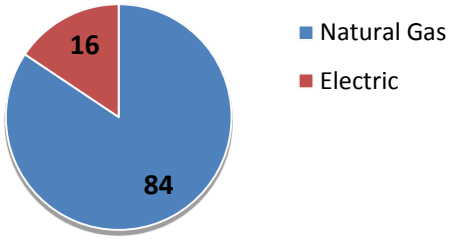
Total Use Summary
(FY ends in Dec of year shown)

Water in Thousands of Gal



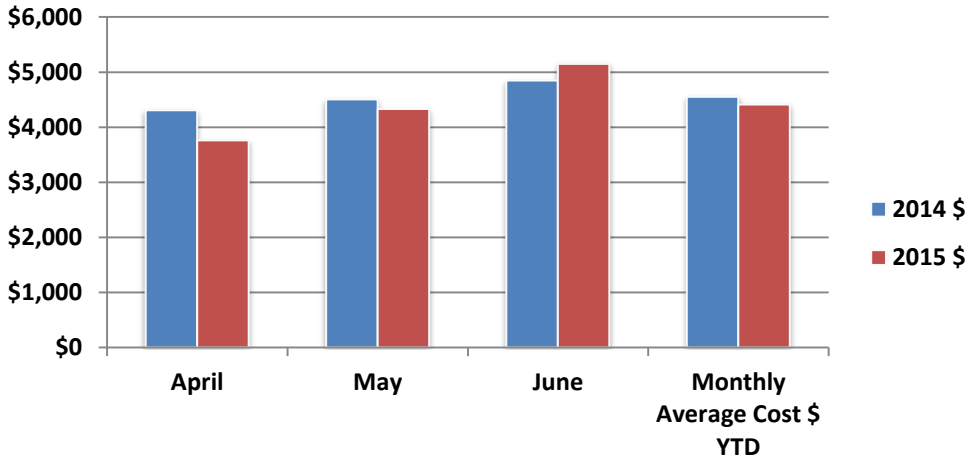
CNG Station Utility Use

Total Cost % YTD



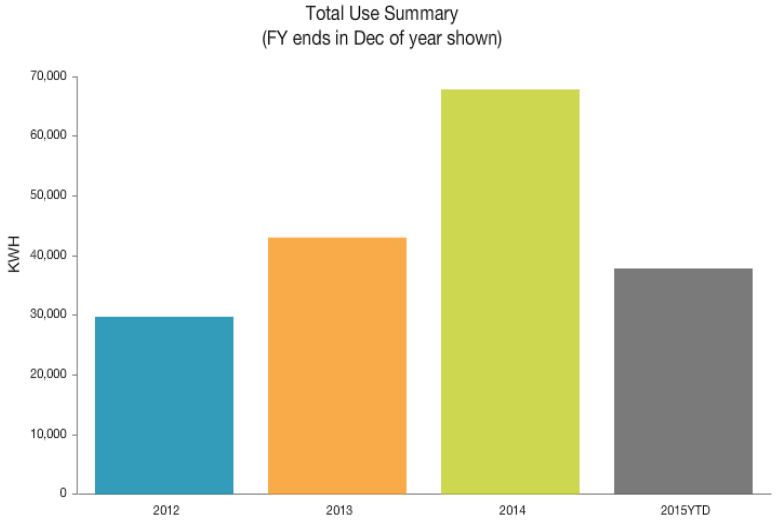
* The cost percentage of each commodity over the most recent 12 months, not including the current month or last month (FacilityDude assumes the data for these months may be incomplete).

CNG Station Natural Gas Use Comparison Qtr. 4, 2014-2015



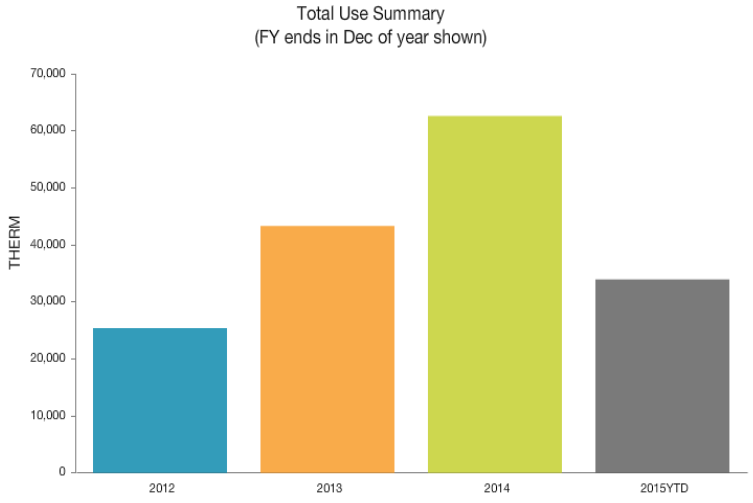
Location: Henderson County-> CNGSTATION [Cng Station]
Time: 09/03/2015 11:01:00 AM **Commodity:** Electric

Electricity in KWH



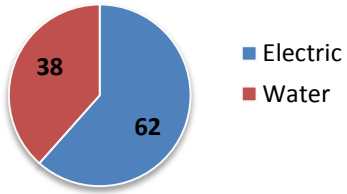
Location: Henderson County-> CNGSTATION [Cng Station]
Time: 09/03/2015 11:01:00 AM **Commodity:** Natural Gas

Natural Gas in Therms



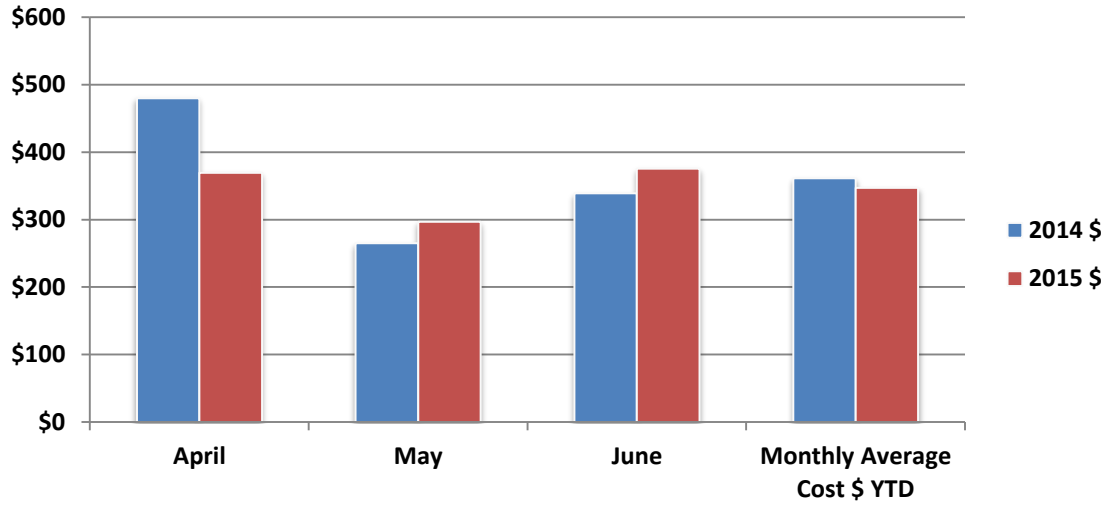
Cooperative Extension Utility Use

Total Cost % YTD



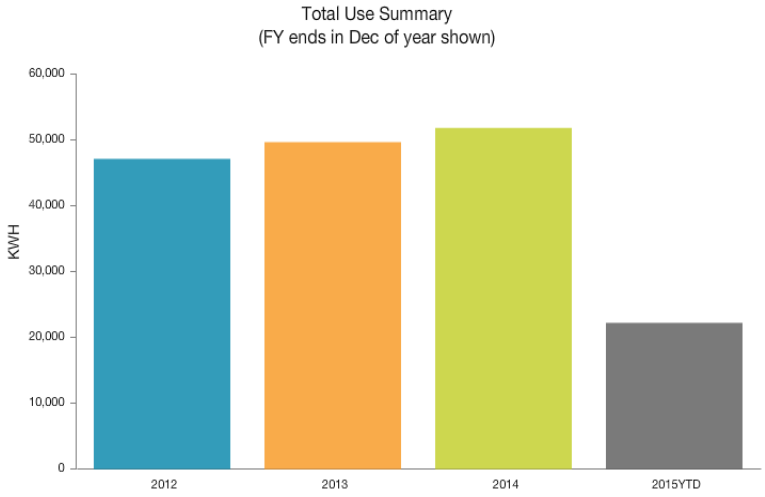
* The cost percentage of each commodity over the most recent 12 months, not including the current month or last month (FacilityDude assumes the data for these months may be incomplete).

Cooperative Extension Electricity Use Comparison Qtr. 4, 2014-2015



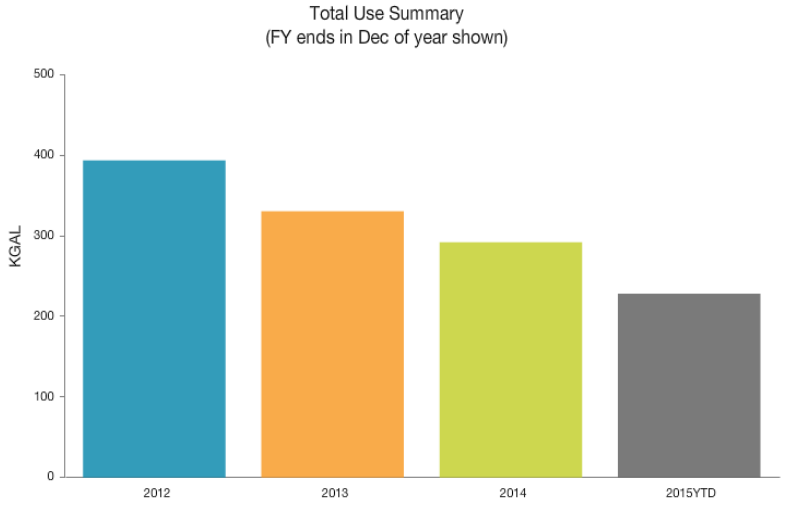
Location: Henderson County-> COOPERATIVEEXTENSION [Cooperative Extension]
Time: 09/03/2015 2:00:56 PM **Commodity:** Electric

Electricity in KWH



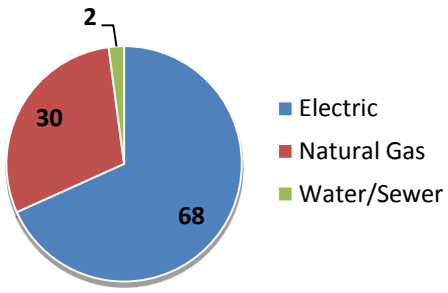
Location: Henderson County-> COOPERATIVEEXTENSION [Cooperative Extension]
Time: 09/03/2015 2:00:56 PM **Commodity:** Water

Water in Thousands of Gal



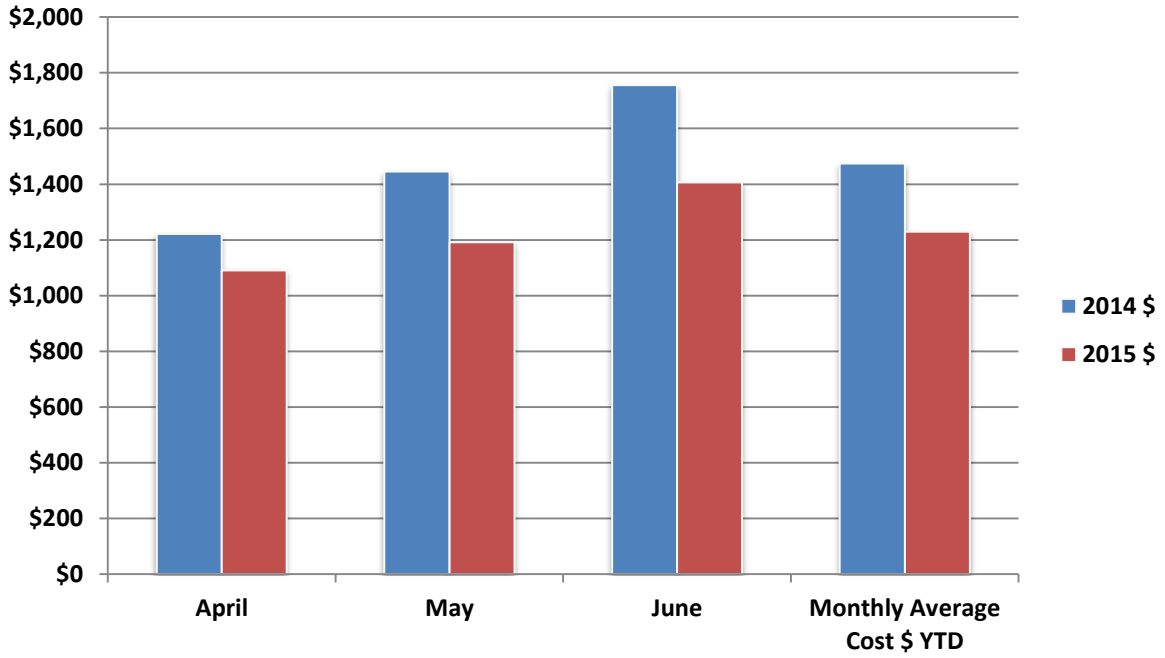
Court Services Utility Use

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).

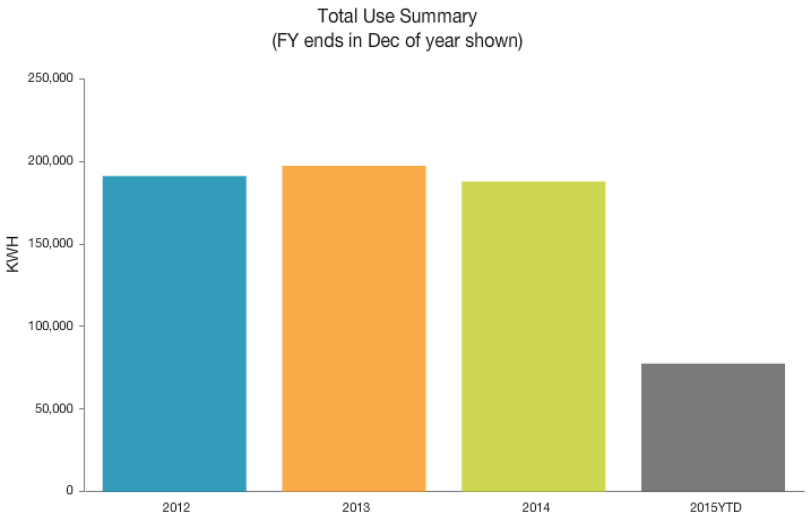
Court Services Electricity Use Comparison
Qtr. 4, 2014-2015



Court Services Utility Use

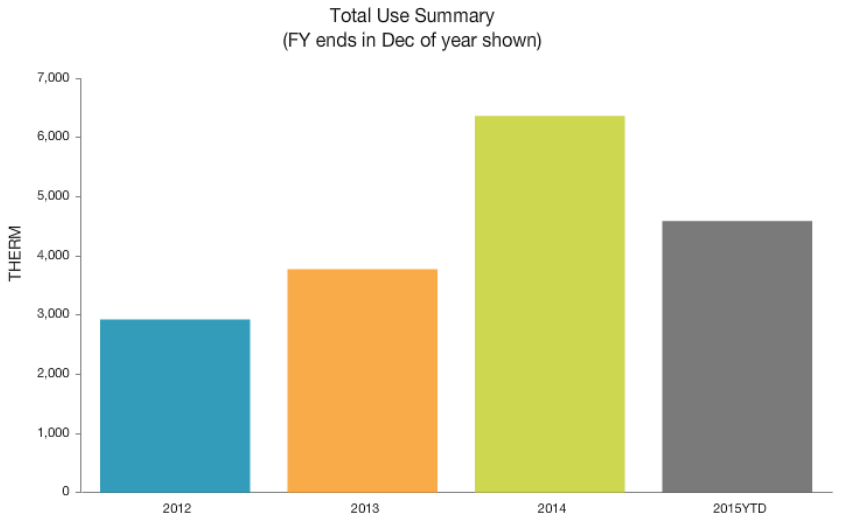
Location: Henderson County-> OLDHEALTHDEPARTMENT_3560 [Court Services Building]
Time: 09/03/2015 12:00:58 PM **Commodity:** Electric

Electricity in KWH



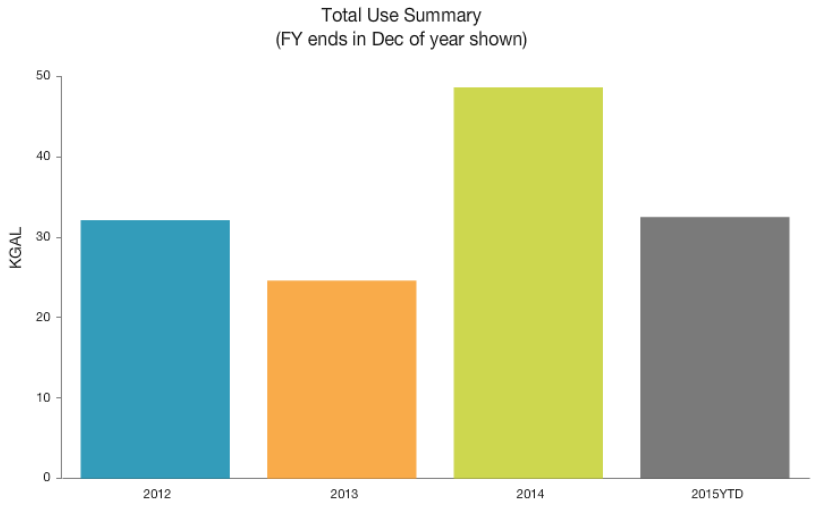
Location: Henderson County-> OLDHEALTHDEPARTMENT_3560 [Court Services Building]
Time: 09/03/2015 12:00:58 PM **Commodity:** Natural Gas

Natural Gas in Therms

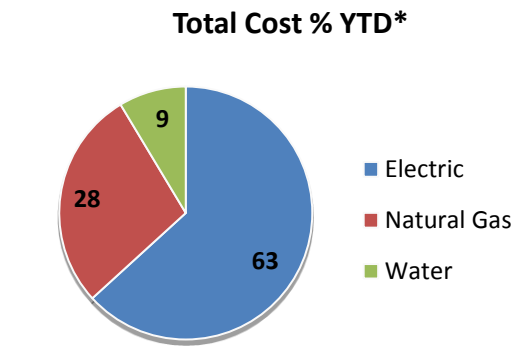


Location: Henderson County-> OLDHEALTHDEPARTMENT_3560 [Court Services Building]
Time: 09/03/2015 4:00:57 PM **Commodity:** Water

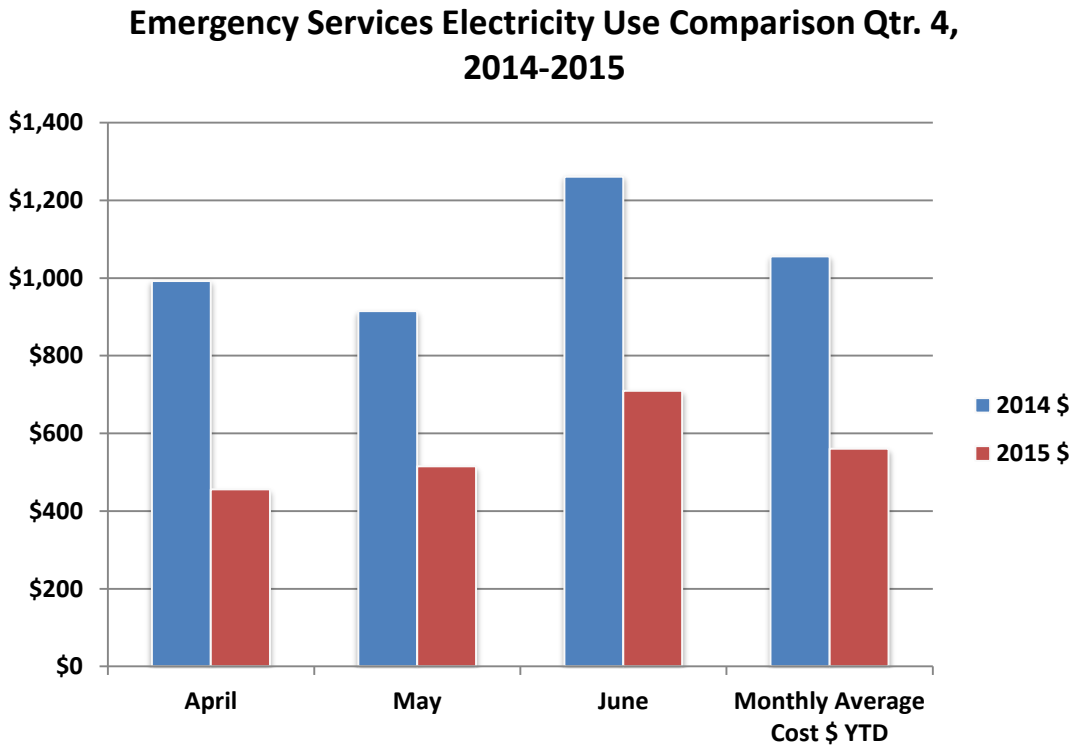
Water in Thousands of Gal



Emergency Services Utility Use



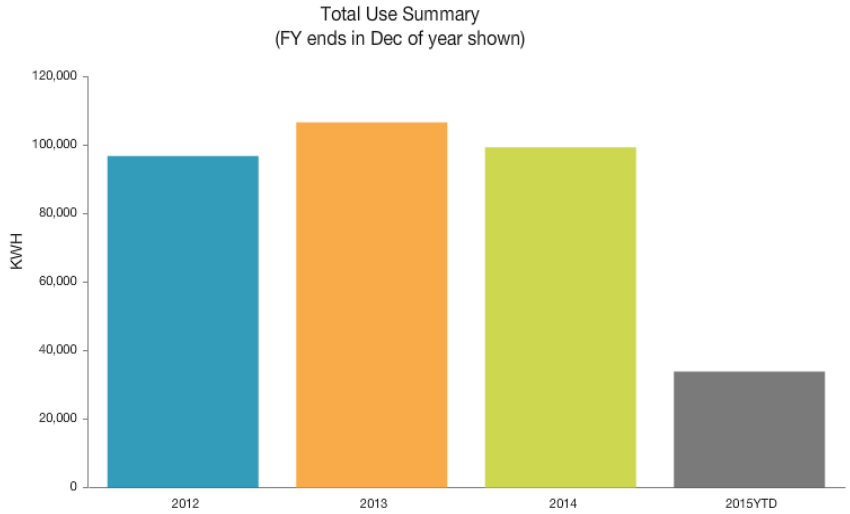
* The cost percentage of each commodity over the most recent 12 months, not including the current month or last month (FacilityDude assumes the data for these months may be incomplete).



Emergency Services Utility Use

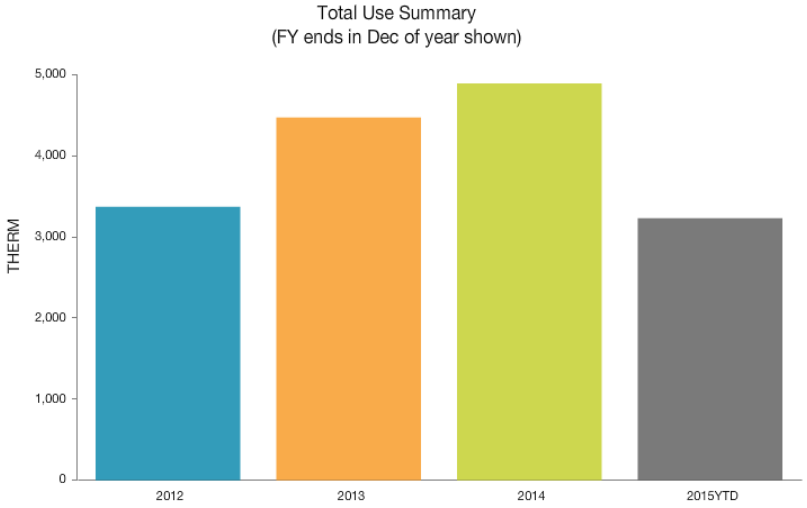
Location: Henderson County-> EMERGENCYSERVICES [Emergency Services]
Time: 09/03/2015 11:01:00 AM **Commodity:** Electric

Electricity in KWH



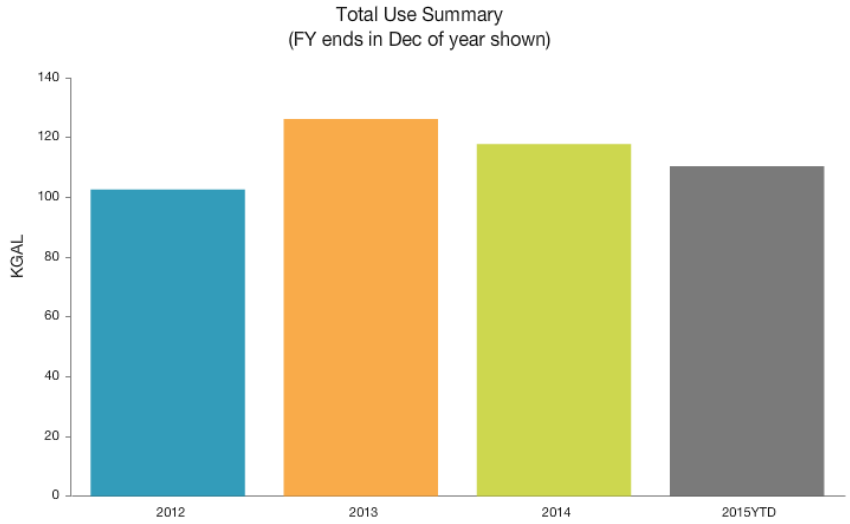
Location: Henderson County-> EMERGENCYSERVICES [Emergency Services]
Time: 09/03/2015 11:01:00 AM **Commodity:** Natural Gas

Natural Gas in Therms

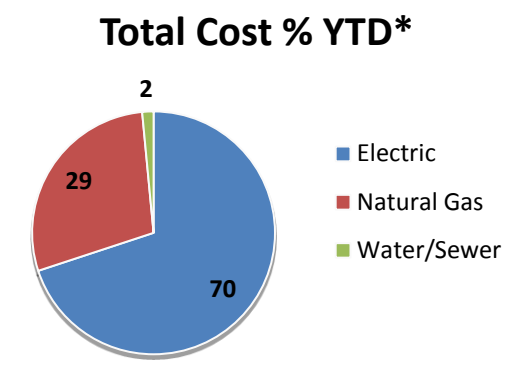


Location: Henderson County-> EMERGENCYSERVICES [Emergency Services]
Time: 09/03/2015 11:01:00 AM **Commodity:** Water

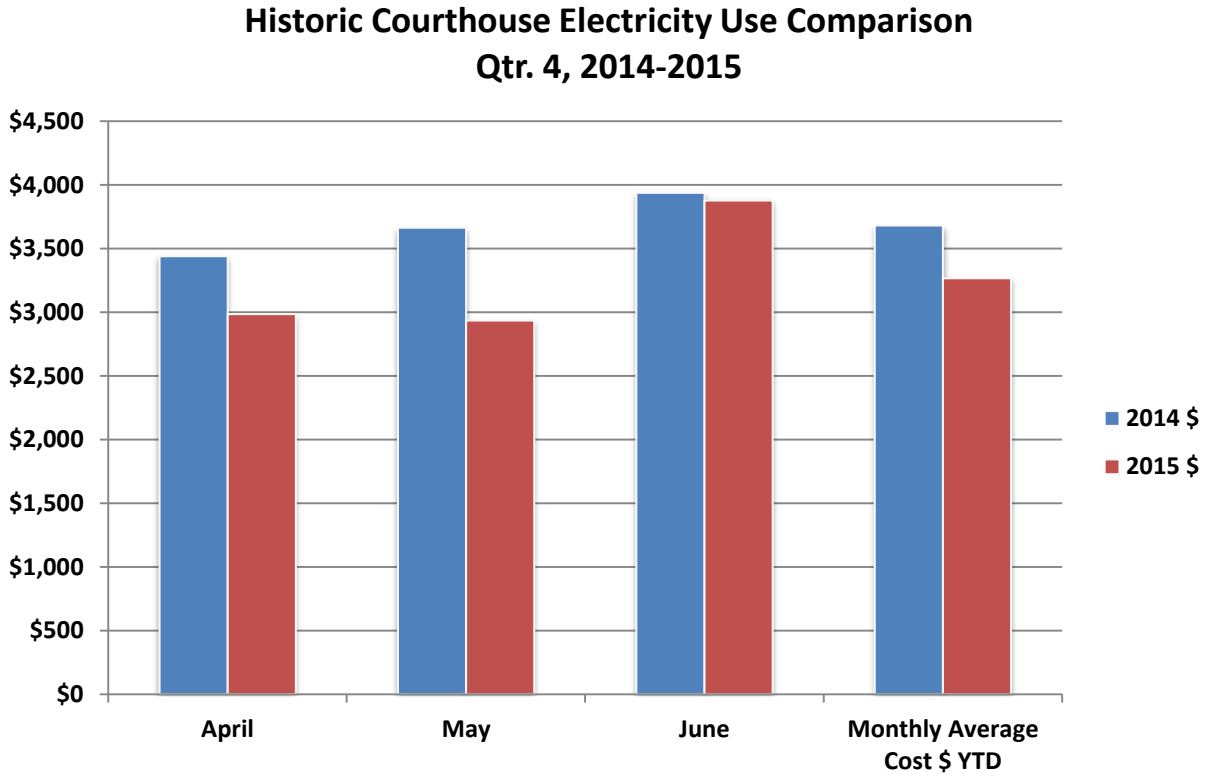
Water in Thousands of Gal



Historic Courthouse Utility Use



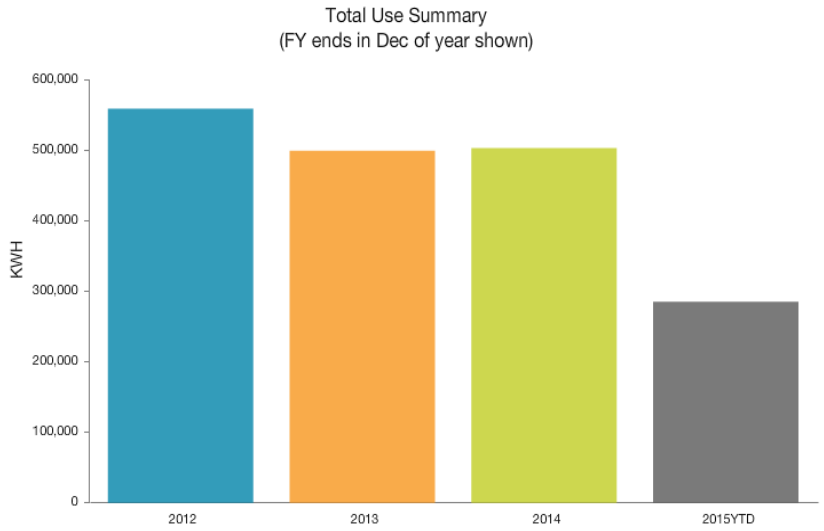
* The cost percentage of each commodity over the most recent 12 months, not including the current month or last month (FacilityDude assumes the data for these months may be incomplete).



Historic Courthouse Utility Use

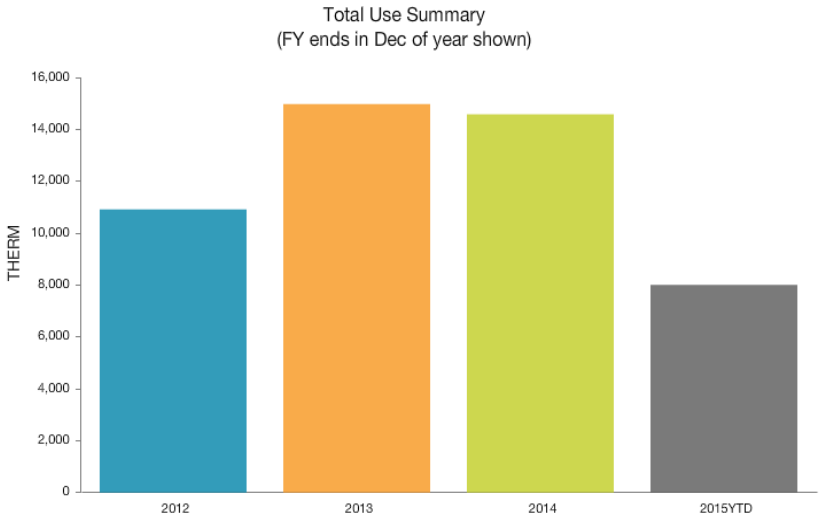
Location: Henderson County-> HISTORICCOURTHOUSE [Historic Courthouse]
Time: 09/03/2015 12:00:58 PM **Commodity:** Electric

Electricity in KWH



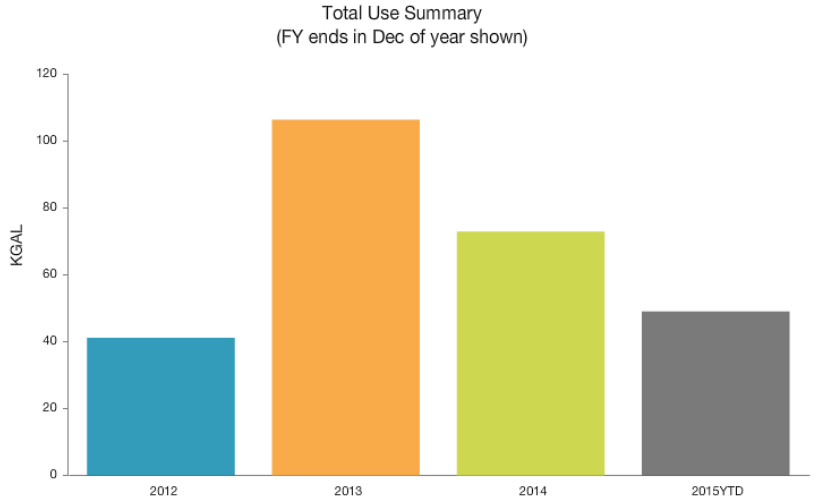
Location: Henderson County-> HISTORICCOURTHOUSE [Historic Courthouse]
Time: 09/03/2015 12:00:58 PM **Commodity:** Natural Gas

Natural Gas in Therms



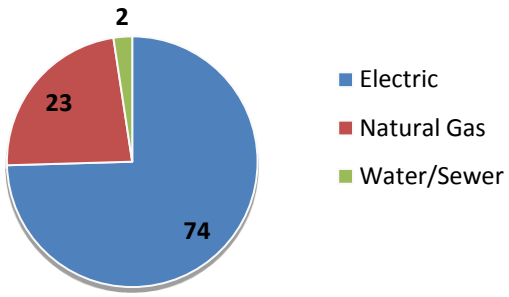
Location: Henderson County-> HISTORICCOURTHOUSE [Historic Courthouse]
Time: 09/03/2015 2:00:56 PM **Commodity:** Water

Water in Thousands of Gal

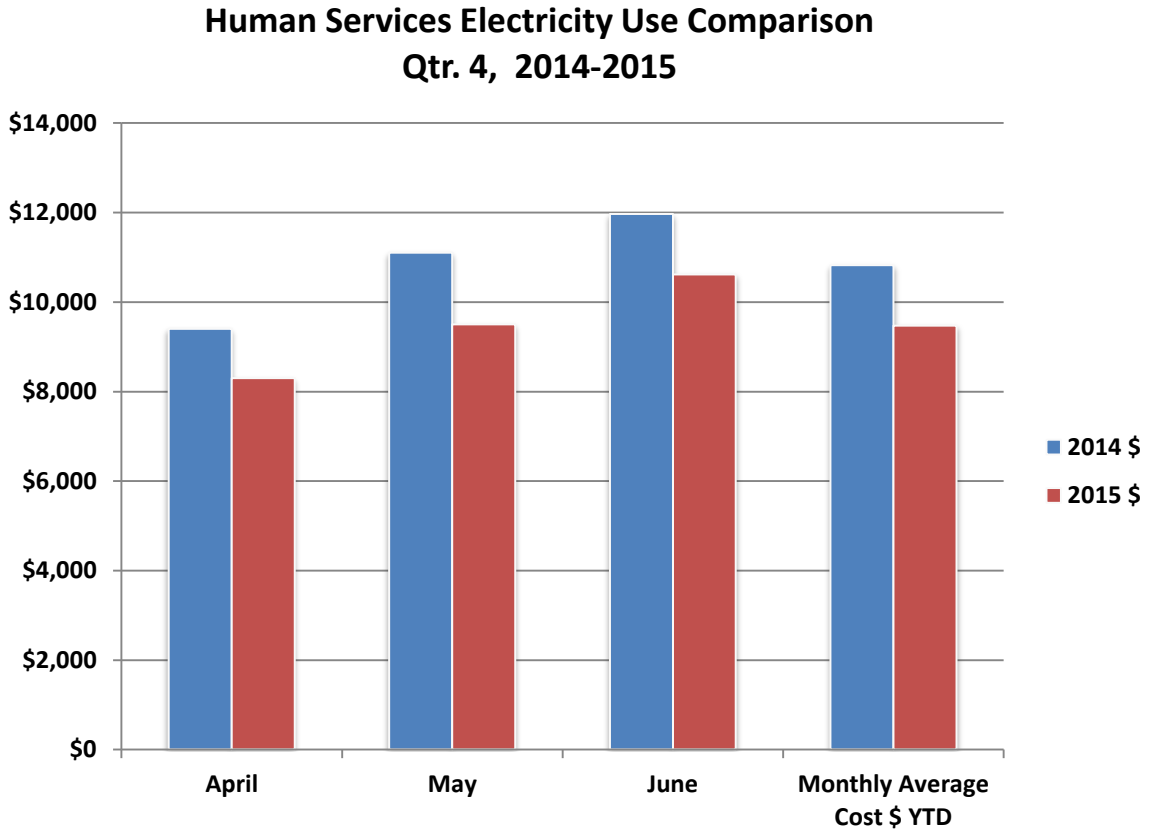


Human Services Utility Use

Total Cost % YTD*



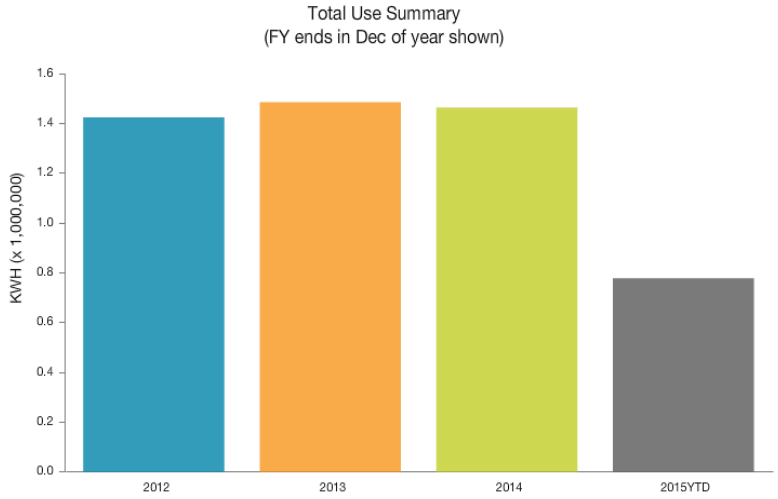
* The cost percentage of each commodity over the most recent 12 months, not including the current month or last month (FacilityDude assumes the data for these months may be incomplete).



Human Services Utility Use

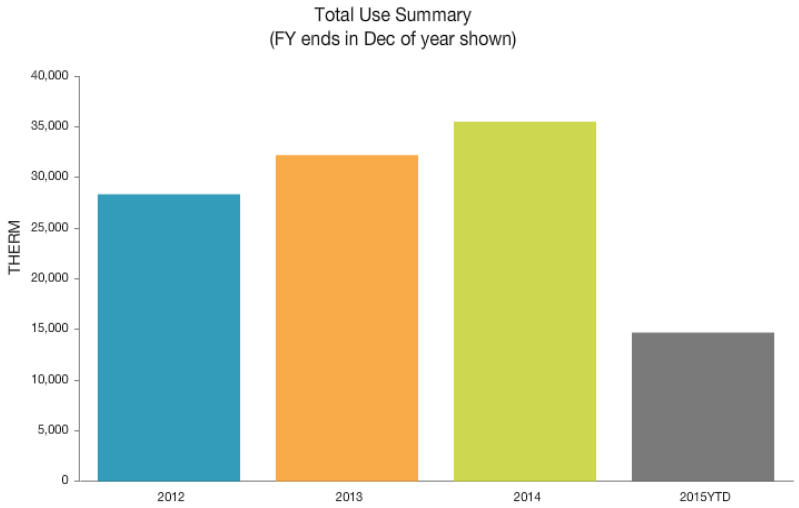
Location: Henderson County-> HUMANSERVICES [Human Services]
Time: 09/03/2015 12:00:58 PM **Commodity:** Electric

Electricity in KWH



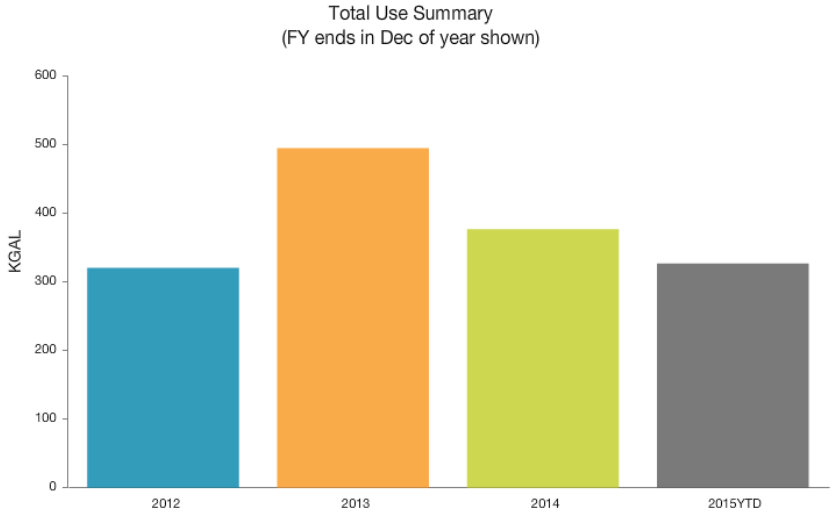
Location: Henderson County-> HUMANSERVICES [Human Services]
Time: 09/03/2015 12:00:58 PM **Commodity:** Natural Gas

Natural Gas in Therms

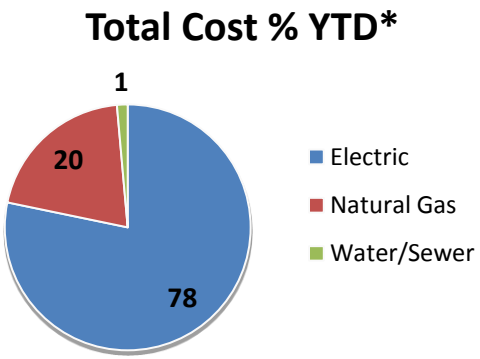


Location: Henderson County-> HUMANSERVICES [Human Services]
Time: 09/03/2015 4:00:57 PM **Commodity:** Water

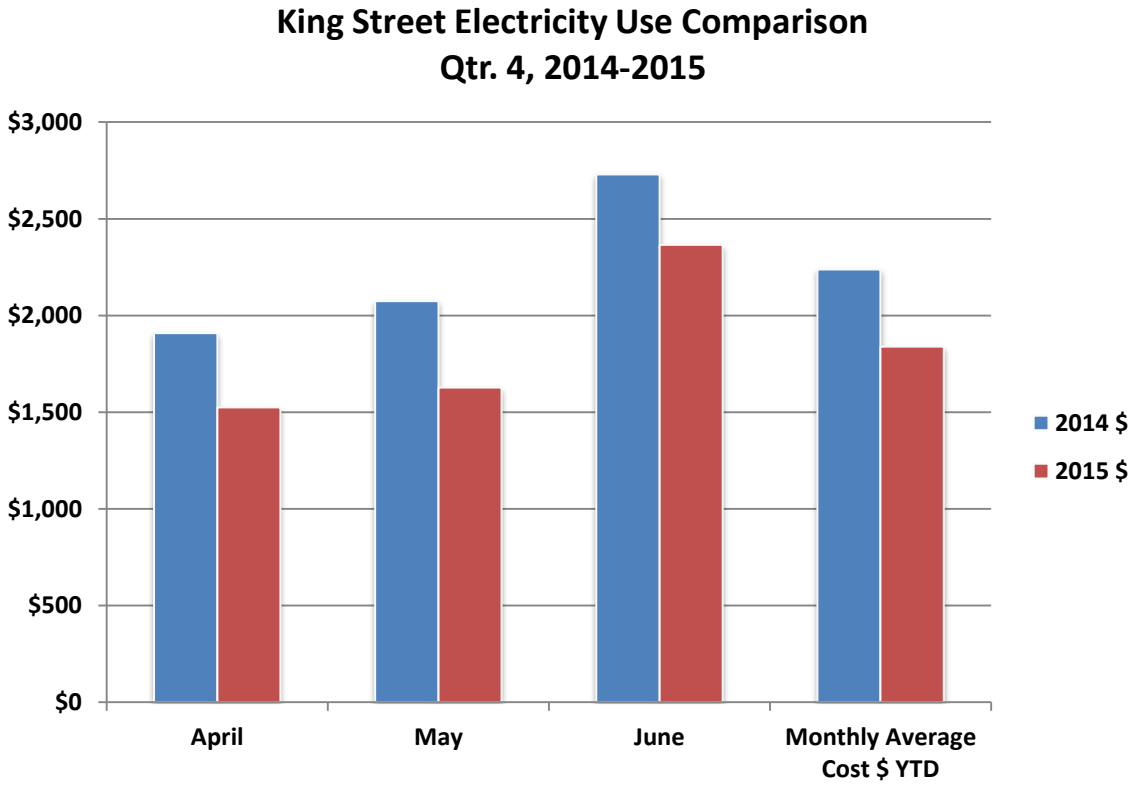
Water in Thousands of Gal



King Street Utility Use



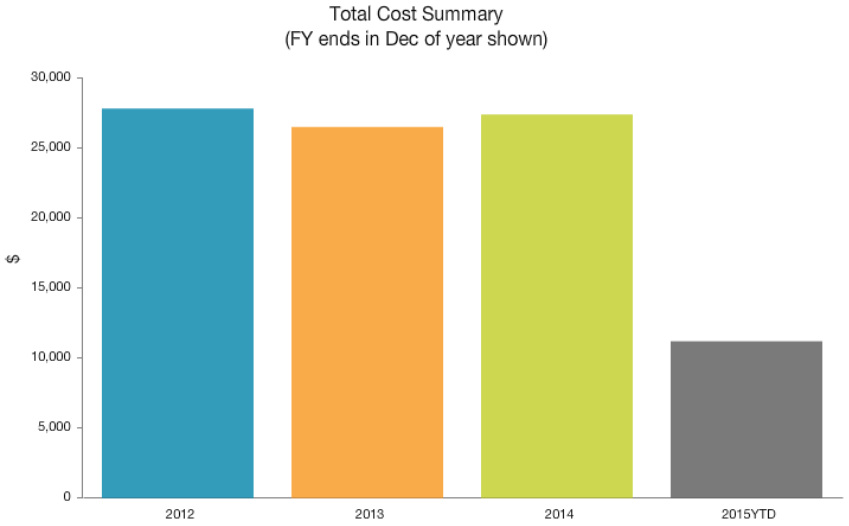
* The cost percentage of each commodity over the most recent 12 months, not including the current month or last month (FacilityDude assumes the data for these months may be incomplete).



King Street Utility Use

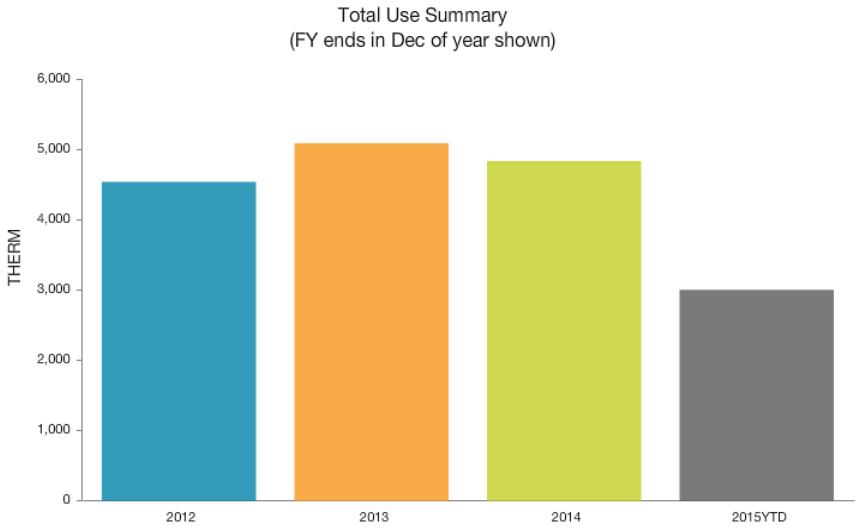
Location: Henderson County-> KINGSTREETBUILDING [King Street Building]
Time: 09/03/2015 4:00:57 PM **Commodity:** Electric

Electricity in KWH



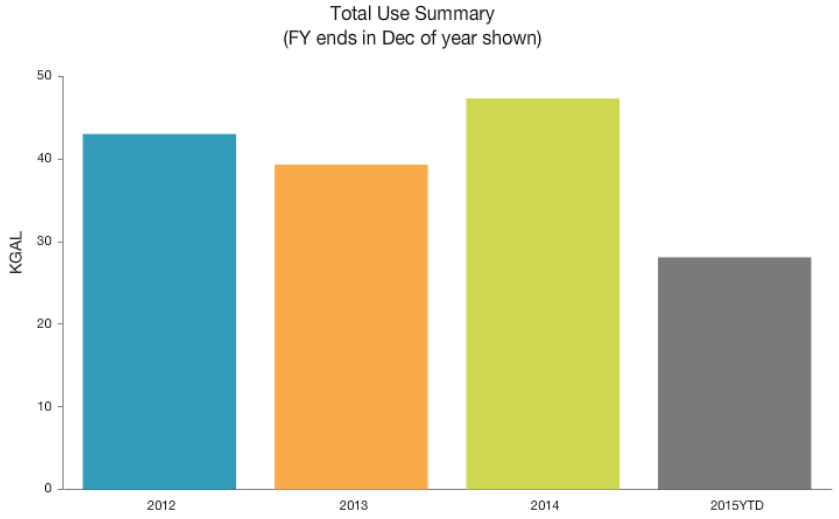
Location: Henderson County-> KINGSTREETBUILDING [King Street Building]
Time: 09/03/2015 12:00:58 PM **Commodity:** Natural Gas

Natural Gas in Therms

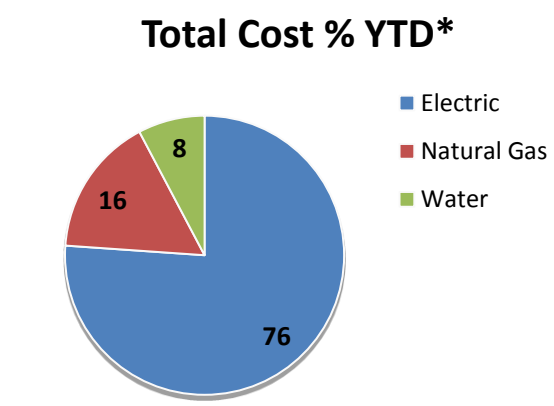


Location: Henderson County-> KINGSTREETBUILDING [King Street Building]
Time: 08/26/2015 1:00:55 PM **Commodity:** Water

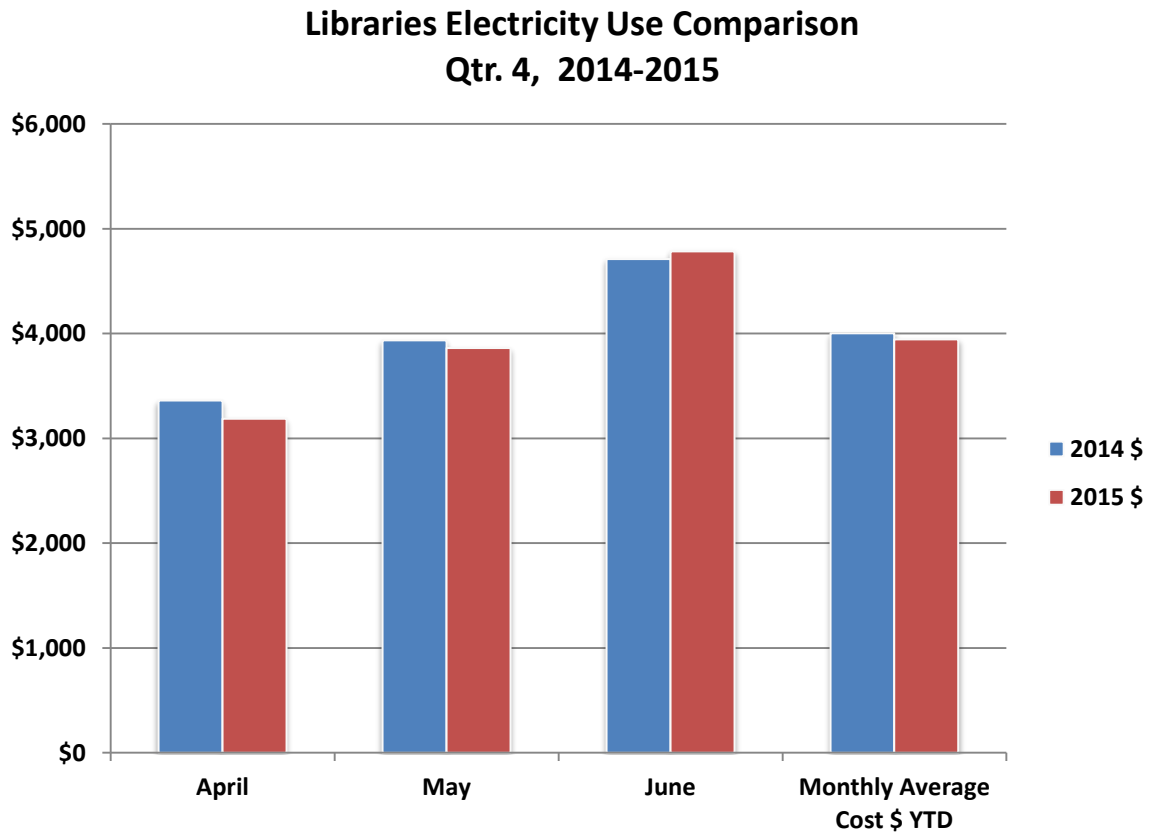
Water in Thousands of Gal



Library Utility Use



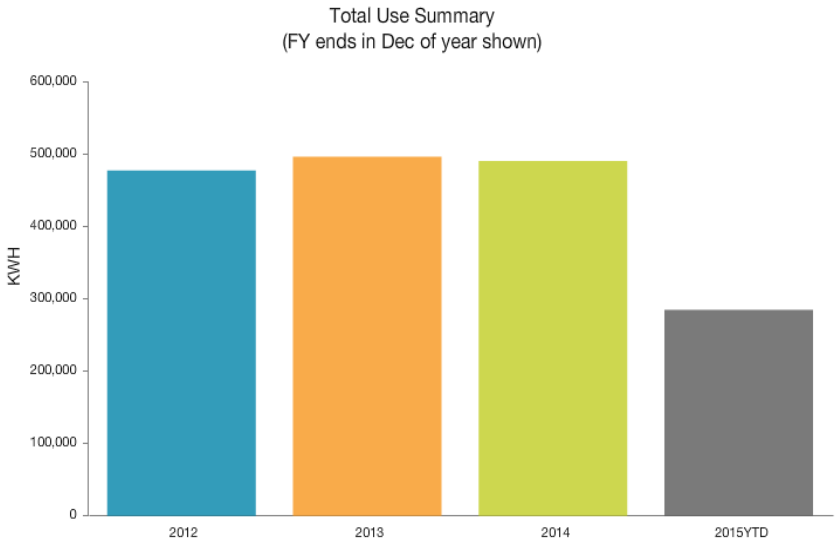
* The cost percentage of each commodity over the most recent 12 months, not including the current month or last month (FacilityDude assumes the data for these months may be incomplete).



Library Utility Use

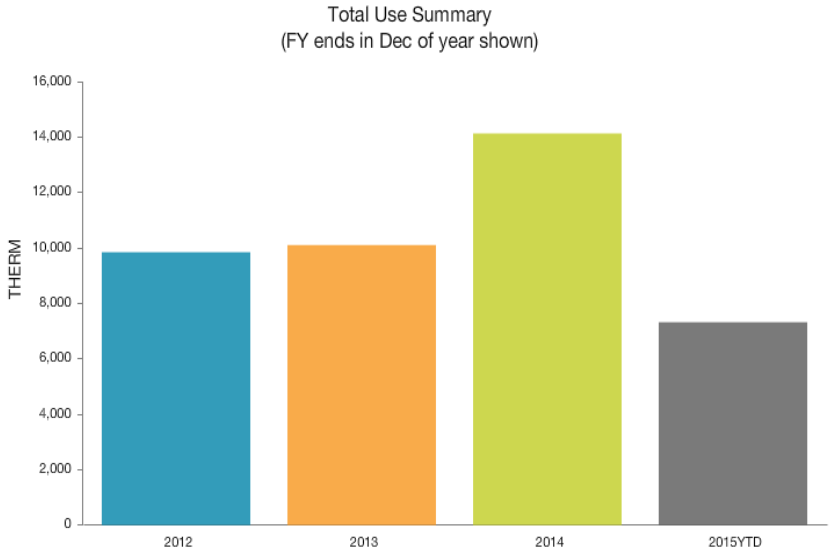
Location: Henderson County-> LIBRARY [Library]
Time: 08/28/2015 9:00:56 AM **Commodity:** Electric

Electricity in KWH



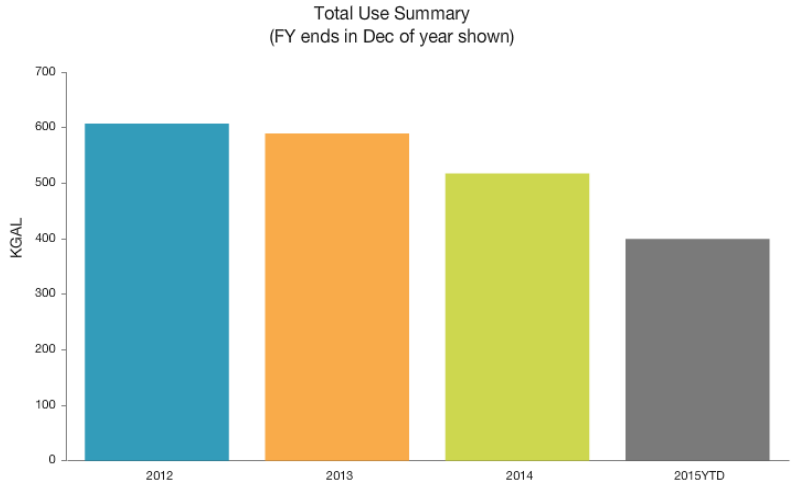
Location: Henderson County-> LIBRARY [Library]
Time: 08/28/2015 9:00:56 AM **Commodity:** Natural Gas

Natural Gas in Therms



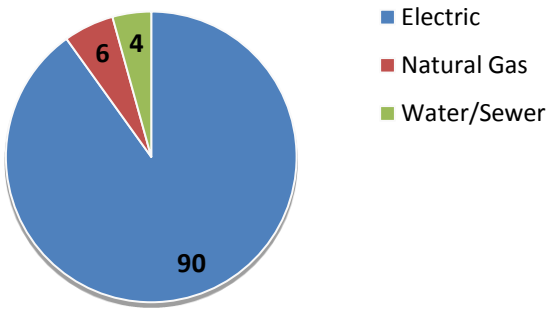
Location: Henderson County-> LIBRARY [Library]
Time: 08/28/2015 9:00:56 AM **Commodity:** Water

Water in Thousands of Gal

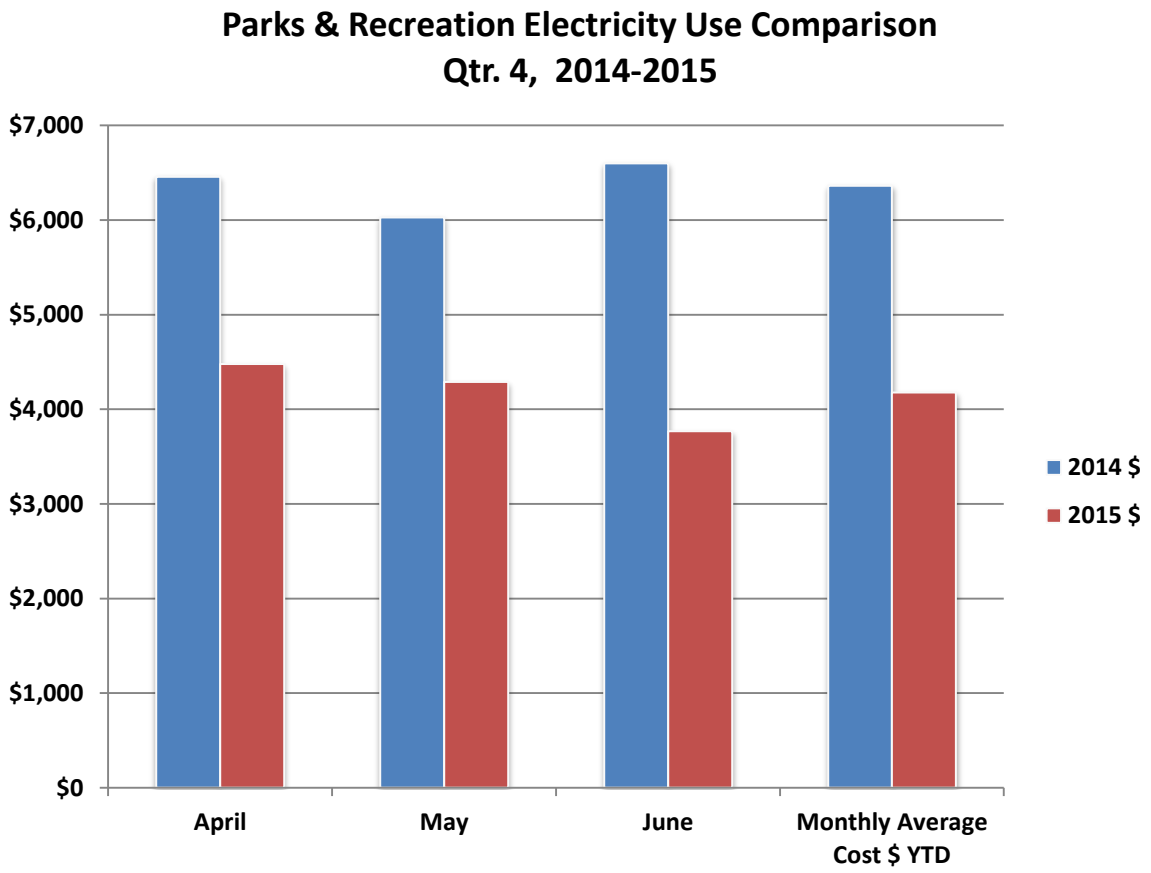


Parks and Recreation Utility Use

Total Cost % YTD*



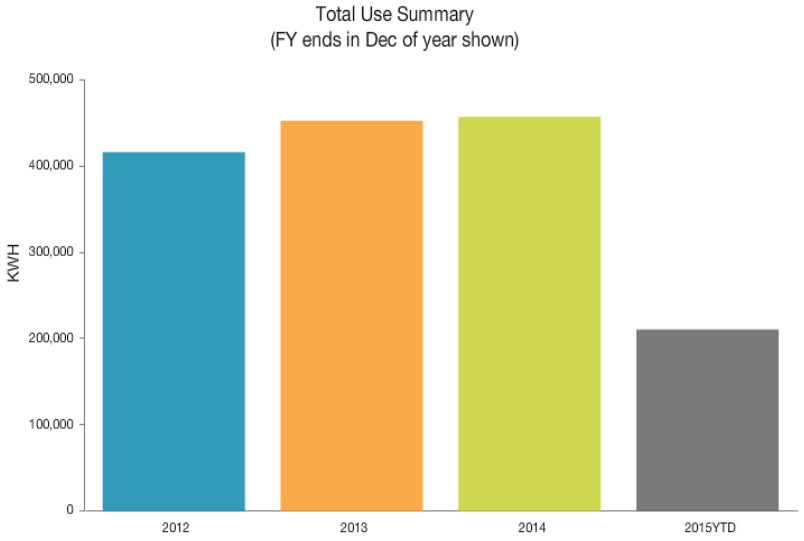
* The cost percentage of each commodity over the most recent 12 months, not including the current month or last month (FacilityDude assumes the data for these months may be incomplete).



Parks and Recreation Utility Use

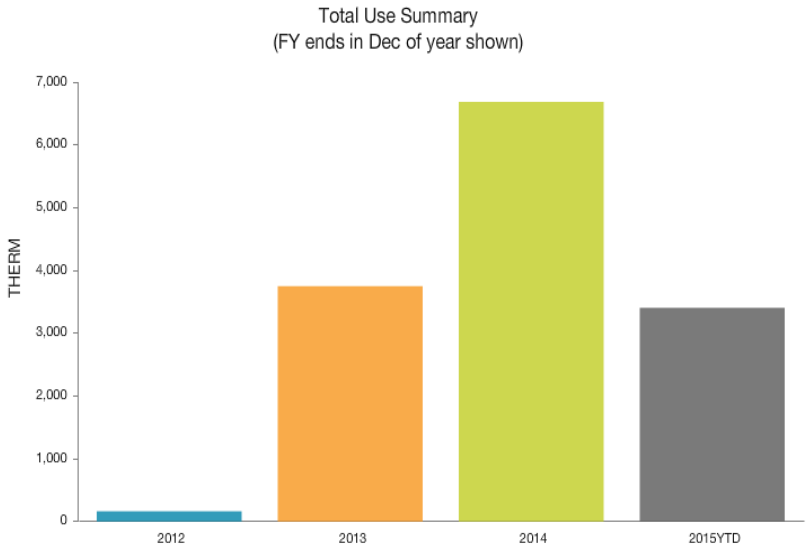
Location: Henderson County-> PARKS&RECREATION [Parks & Recreation]
Time: 09/03/2015 12:00:58 PM **Commodity:** Electric

Electricity in KWH



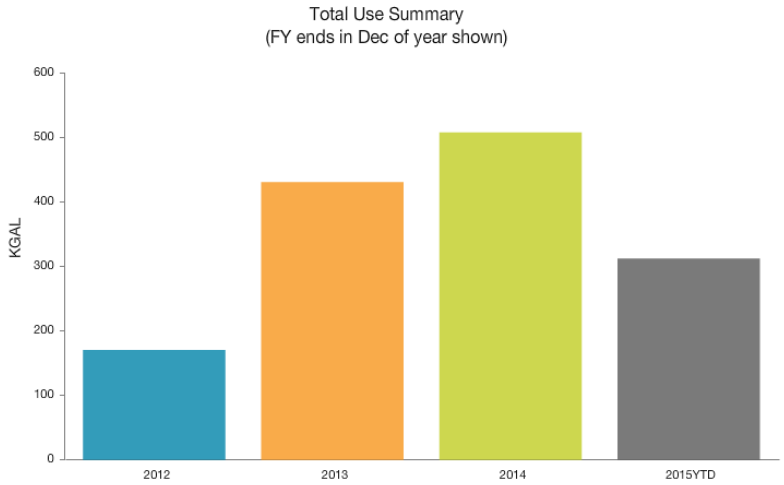
Location: Henderson County-> PARKS&RECREATION [Parks & Recreation]
Time: 08/26/2015 2:00:54 PM **Commodity:** Natural Gas

Natural Gas in Therms



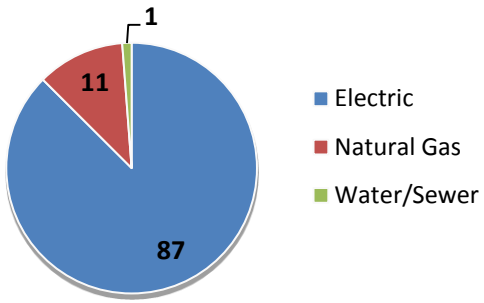
Location: Henderson County-> PARKS&RECREATION [Parks & Recreation]
Time: 08/26/2015 2:00:54 PM **Commodity:** Water

Water in Thousands of Gal

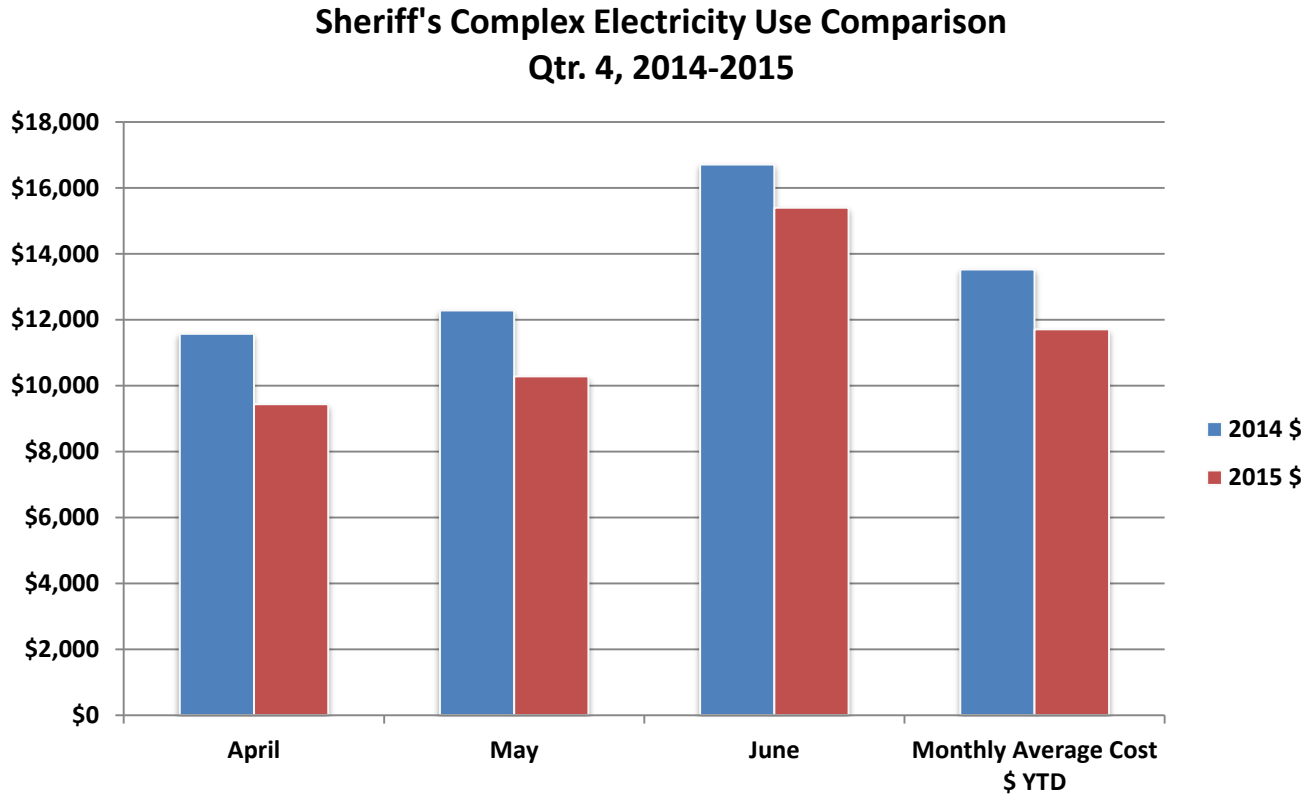


Sheriff's Complex Utility Use

Total Cost % YTD*



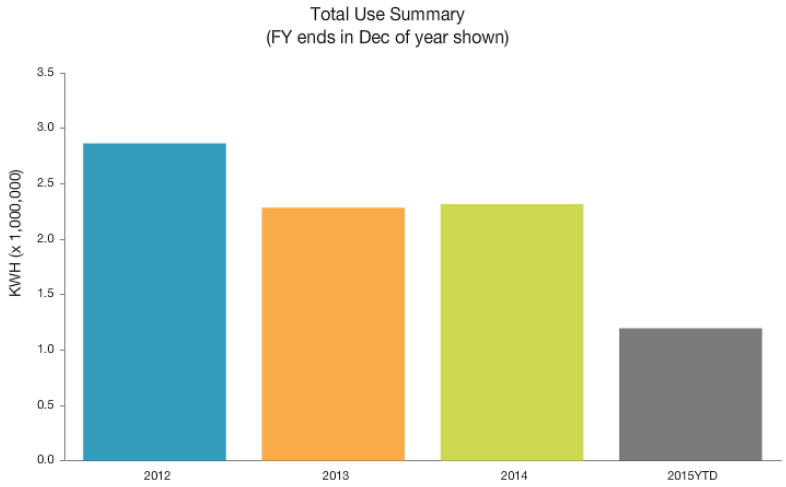
* The cost percentage of each commodity over the most recent 12 months, not including the current month or last month (FacilityDude assumes the data for these months may be incomplete).



Sheriff's Complex Utility Use

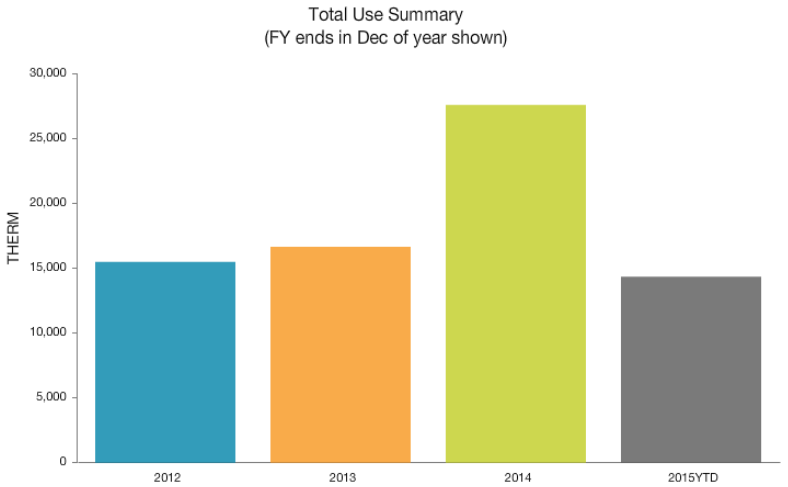
Location: Henderson County-> SHERIFF [Sheriff]
Time: 09/03/2015 12:00:58 PM **Commodity:** Electric

Electricity in KWH



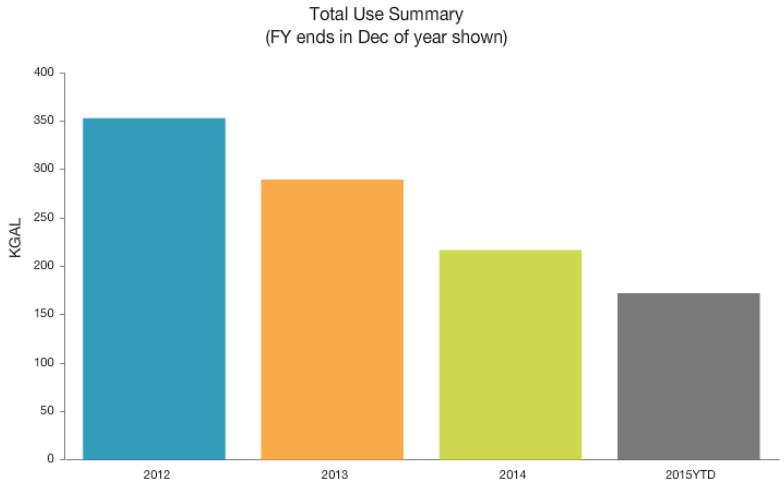
Location: Henderson County-> SHERIFF [Sheriff]
Time: 09/03/2015 12:00:58 PM **Commodity:** Natural Gas

Natural Gas in Therms



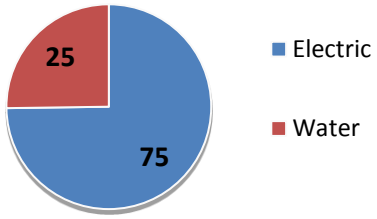
Location: Henderson County-> SHERIFF [Sheriff]
Time: 09/03/2015 12:00:58 PM **Commodity:** Water

Water in Thousands of Gal



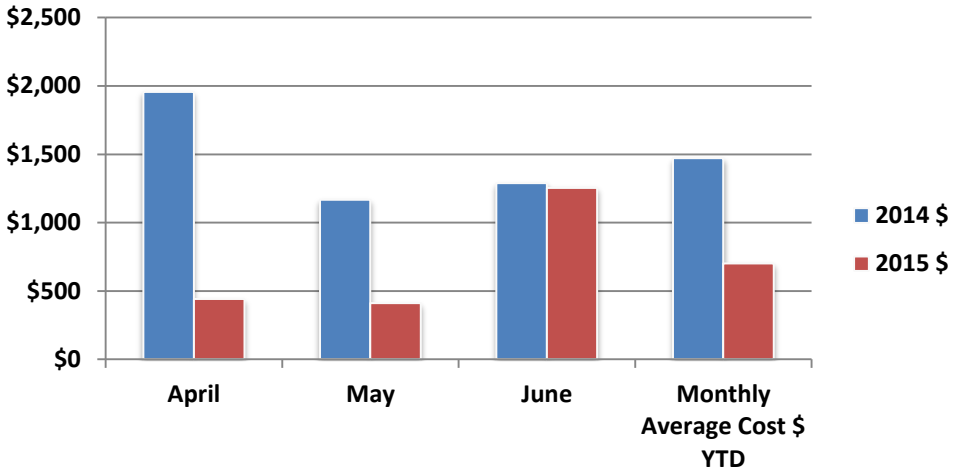
Solid Waste Utility Use

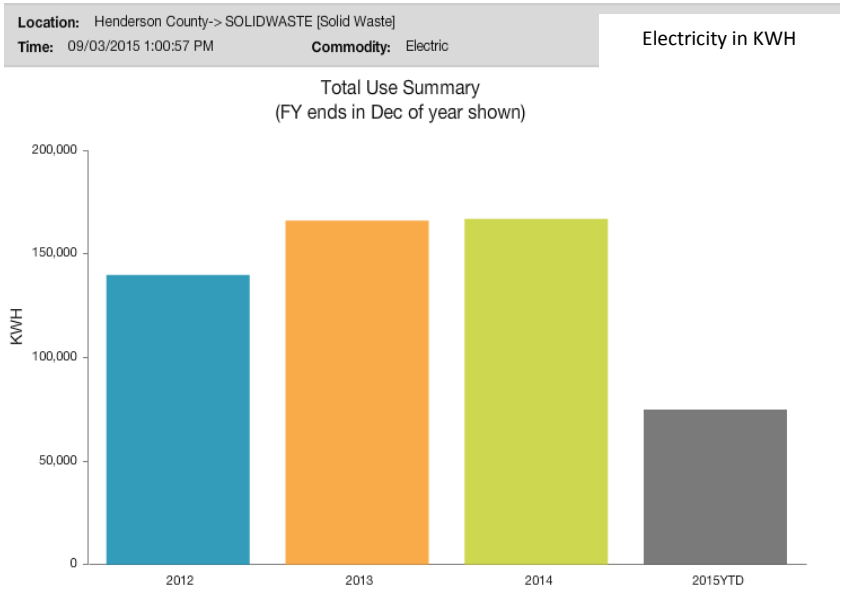
Total Cost % YTD*



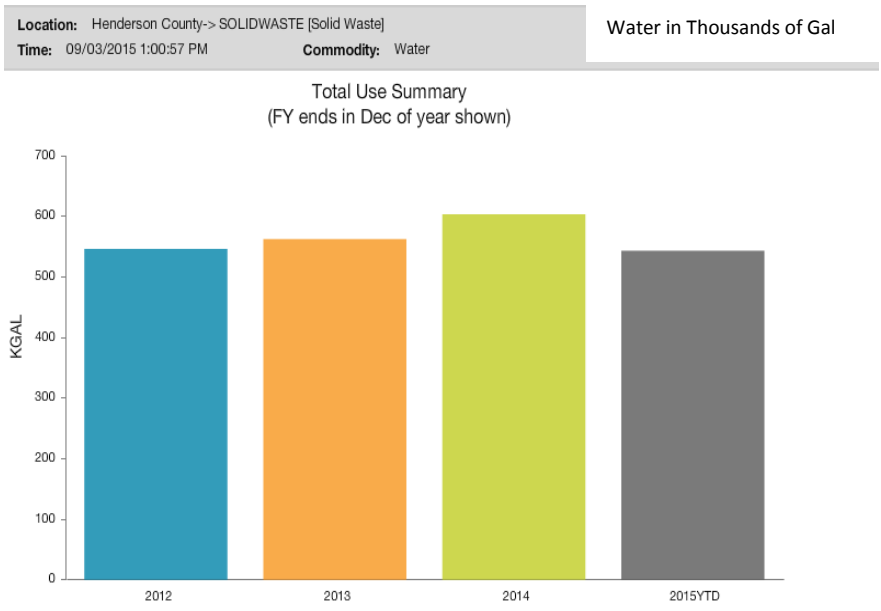
* The cost percentage of each commodity over the most recent 12 months, not including the current month or last month (FacilityDude assumes the data for these months may be incomplete).

Solid Waste Electricity Use Comparison Qtr. 4, 2014-2015





Electricity in KWH



Water in Thousands of Gal