



# Energy Use in State Facilities

## Fiscal Year 2016 Report

February 13, 2018

Facilities include:

University of Wisconsin System

Department of Administration

Department of Corrections

Department of Health Services

Department of Veterans Affairs

Department of Public Instruction

Department of Natural Resources

Department of Transportation

Wisconsin Housing and Economic Development Authority

# Wisconsin Office of Energy Innovation

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## Energy Use in State-Owned Facilities

University of Wisconsin System  
Department of Administration  
Department of Corrections  
Department of Health Services  
Department of Public Instruction  
Department of Veterans Affairs  
Department of Natural Resources  
Department of Transportation  
Wisconsin Housing and Economic Development Authority

**Report for Fiscal Year 2016**

February 13, 2018

# Acknowledgements

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This report was prepared for the Wisconsin Office of Energy Innovation with supporting documentation provided by the following agencies:

University of Wisconsin System  
Department of Administration  
Department of Corrections  
Department of Health Services  
Department of Public Instruction  
Department of Veterans Affairs  
Department of Natural Resources  
Department of Transportation  
Wisconsin Housing & Economic Development  
Authority (WHEDA)

Agency and facility energy coordinators deserve special mention not only for supplying needed data, but more importantly, for being personally involved in the energy conservation programs that have achieved the results documented on the following pages.

Energy information was compiled, and report prepared, by Innovative Business Engineering, McFarland, Wisconsin.

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# Executive Summary

Wisconsin's efforts to reduce energy consumption and costs in state-owned facilities began as a result of the rapid energy cost increases following the first foreign oil embargo in 1973. Energy conservation and energy management efforts have received continued support from the Governor, the State Building Commission and the Wisconsin Legislature. The rate of annual energy use in state facilities has been reduced 32 percent since 1973.

This report refers to Fiscal Year 2005 (FY2005 or FY05) as a baseline comparison year and adjusted for weather to reflect renewed energy conservation efforts as part of the Wisconsin Act 141 and the Energy Bond Fund Program. The FY2016 rate of annual energy use in state facilities was 18.37 percent less than FY2005 baseline when adjusted for weather with very significant positive results:

Agency		FY05 Base Btu/GSF/Yr	FY16 Weather Adjusted Btu/GSF/Yr	FY16 % Change from FY05 Base
UW	University of Wisconsin System	206,715	163,139	-21.08%
DOA	Department of Administration	157,840	107,966	-31.60%
DOC	Department of Corrections	178,489	168,098	-5.82%
DHS	Department of Health Services	204,184	197,743	-3.15%
DPI	Department of Public Instruction	98,001	98,117	0.12%
DVA	Department of Veterans Affairs	197,411	185,282	-6.14%
DNR	Department of Natural Resources	118,661	91,032	-23.28%
DOT	Department of Transportation	106,355	80,073	-24.71%
WHEDA	Wisconsin Housing and Economic Development Authority	88,707	93,136	4.99%
State	Statewide Totals	198,291	161,862	-18.37%

The success of the state's energy and fuel management efforts are directly dependent on efforts of the many people who operate and maintain the central plants and distribution systems, as well as those managers and occupants of individual buildings. The Wisconsin State Energy Office and Department of Administration have lead roles in developing and overseeing these efforts.

## ENERGY EXPENDITURES INCREASE DESPITE CONSERVATION EFFORTS

Energy expenditures in Wisconsin State Government facilities totaled \$173 million in FY2016, including sewer and water utilities. This total includes all buildings (not just those represented in this report) and includes expenditures for electricity, natural gas, solid fuels, sewer, water, propane and fuel oil. The FY2016 energy expenditures represented a 12 percent increase over FY2005 that can be attributed to the increase in building area gross square footage by 14 percent from the base year, FY2005. In addition, electrical energy unit costs (\$/kwh) increased by more than 58 percent while FY2017 unit gas costs (\$/MMBtu) were 56 percent lower than FY2005. With lower natural gas costs and elimination of coal use at UW-Madison and other state facilities, coal use has decreased by over 91% at state-owned heating plants with lower overall fuel and operating costs.

# Introduction

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## BACKGROUND

This report presents total energy consumption for the largest State of Wisconsin owned and operated facilities. These facilities account for the majority of energy consumed in buildings owned by the State of Wisconsin. Statewide, agency, and individual facility energy consumption totals are presented. Values for each agency reflect buildings owned but not necessarily occupied by that agency. Agencies addressed in this report include the following: Department of Public Instruction (DPI), University of Wisconsin System (UWS), Department of Health Services (DHS), Department of Corrections (DOC), Department of Veterans Affairs (DVA), Department of Administration (DOA), Department of Natural Resources (DNR); Department of Transportation (DOT); and Wisconsin Housing and Economic Development Authority (WHEDA).

Providing detailed facility level data proved to be a challenge. In many cases, accounting systems did not readily lend themselves to compiling the required data. The State Energy Office will continue to work to expand the detail and completeness of future reports. Buildings not included in this report are thousands of other smaller facilities ranging from utility buildings, comfort stations to park offices and farm buildings.

## ENERGY USE MEASUREMENT

Two common ways to account for energy use are end-use energy consumption and resource energy consumption. End-use consumption refers to the energy content of fuel, steam, or electricity at the point of use by the consumer. Resource energy consumption is equal to end-use consumption plus all energy used in the production and transportation of the fuel, steam or electricity. This report is based on end-use energy consumption to coincide with reports from other sources.

State monitored energy consumption is broken down into two categories:

- 1) **Electricity**, which represents total purchased and central plant co-generated electricity; and
- 2) **Thermal or Fossil Fuel**, which includes coal, gas, oil, purchased steam and renewable wood/paper fuel pellets used in central plants or in building boilers to generate steam and other resources such as hot water, chilled water, electricity, and compressed air.

Energy consumption in these categories is monitored through coordination of monthly utilities billings and fuel consumption reports.

All forms of energy consumption are converted to units of Btu/GSF/year. The conversion also removes any variation in energy use over time caused by changes in the size of an individual facility. Electricity consumption is converted from metered kWh to Btu/GSF/Year by multiplying the total fiscal year metered kWh of electricity by 3,413 (Btu/kwh standard conversion factor), and then dividing the resulting number by the gross square footage (GSF) of serviced building area. Fossil fuel energy use is converted to units of Btu/GSF/Year by dividing the Btu value of the fossil fuel category energy consumption by the gross square footage of serviced building area.

## WEATHER FACTORS AFFECTING ENERGY USE

Weather has a significant impact upon energy consumption and should be considered when evaluating efficiencies. Annual heating and cooling degree days can change dramatically from location to location and year to year. Such changes can significantly impact the demand upon heating and cooling systems of a facility. Appendix A and Appendix B present weather adjustments and degree days for selected Wisconsin locations.

# Statewide Energy Use Summary

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## SCOPE

Includes the major facilities in nine state agencies. Agencies and facilities are discussed individually in this report.

## ENERGY CONSUMPTION

**Total Change from Base - Weather Adjusted: 18.3 percent decrease.**

Energy use (BTU/GSF/Yr) for FY16 was 18.3 percent lower than in the base fiscal year, FY05.

**Latest Year Change - Weather Adjusted: 1.3 percent increase.**

Energy use (BTU/GSF/Yr) for FY16 increased 1.3 percent from the previous fiscal year.

***Average Annual Change - Weather Adjusted: 1.5 percent decrease per year.***

On average, energy use (BTU/GSF/Yr) has decreased 1.5 percent since the base year, FY05.

## GSF AND CONSUMPTION STATISTICS

***GSF Change from Base: 13.4 percent Increase.***

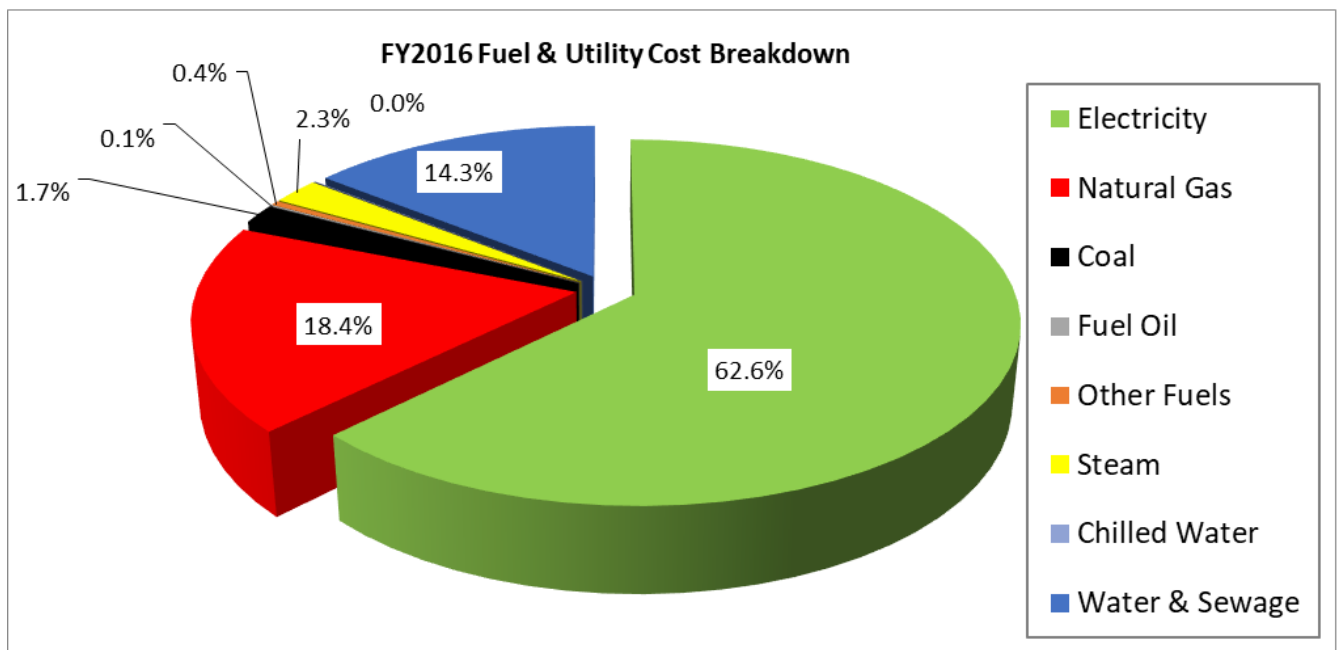
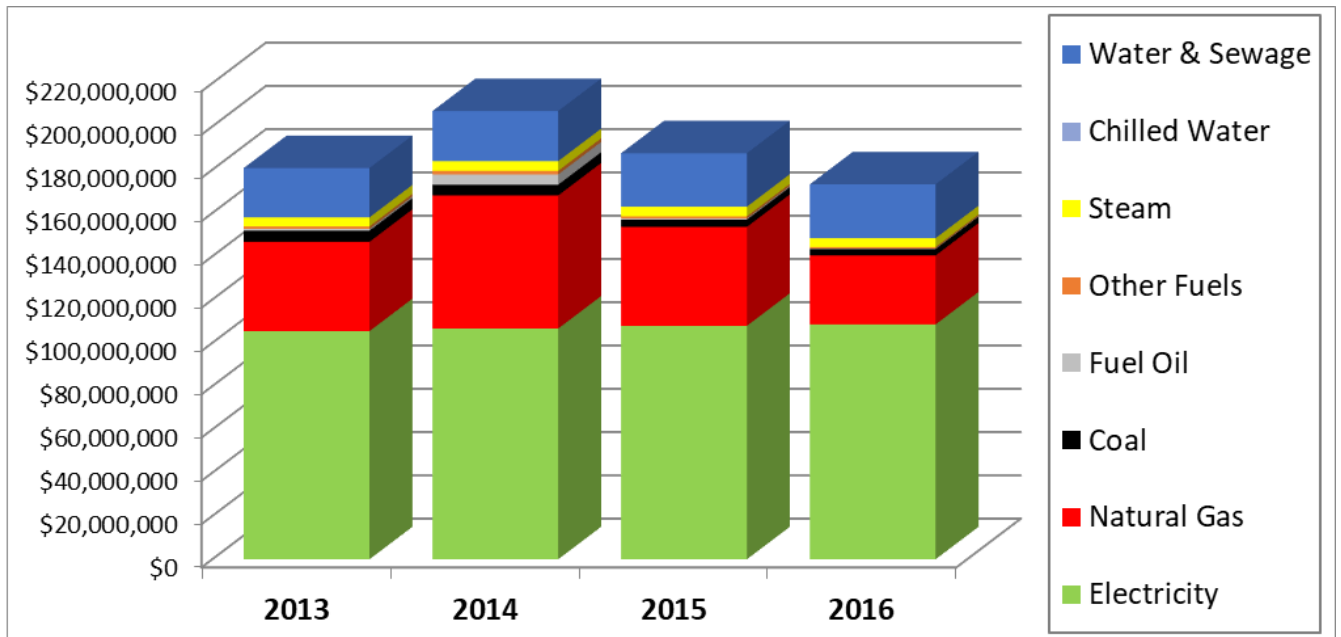
Gross square footage has increased 13.4% from the base fiscal year, FY05.

***Consumption Change from Base: 4.4 percent decrease.***

Total consumption was 4.4 percent less when compared to FY05. Total energy (million BTU) purchases in FY16 were 7.7 percent less than in the base year when adjusted for weather compared to FY05.

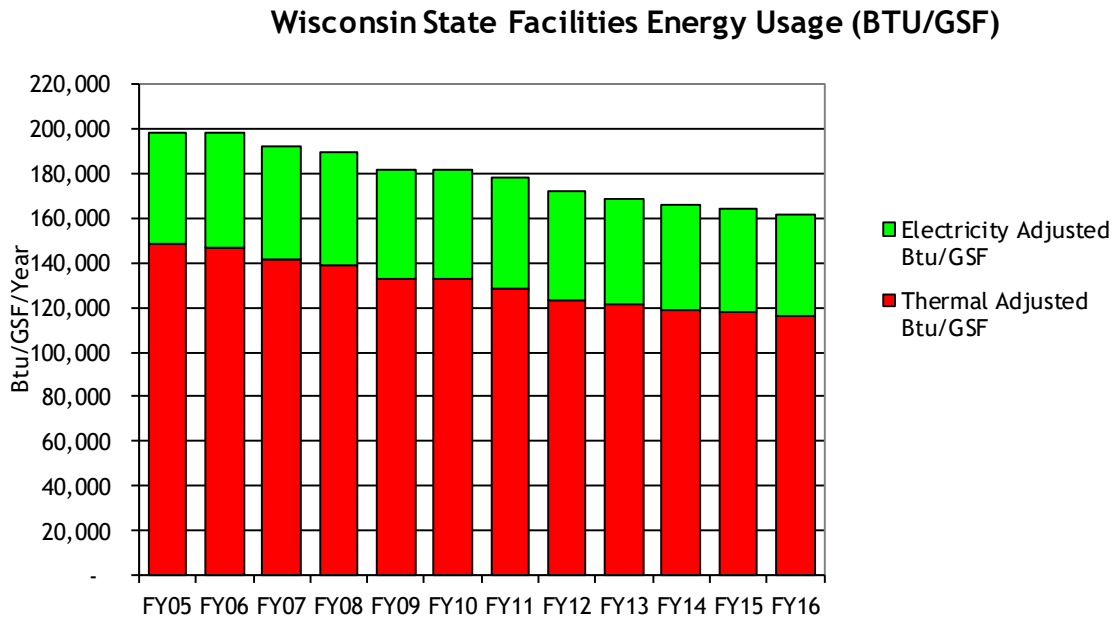
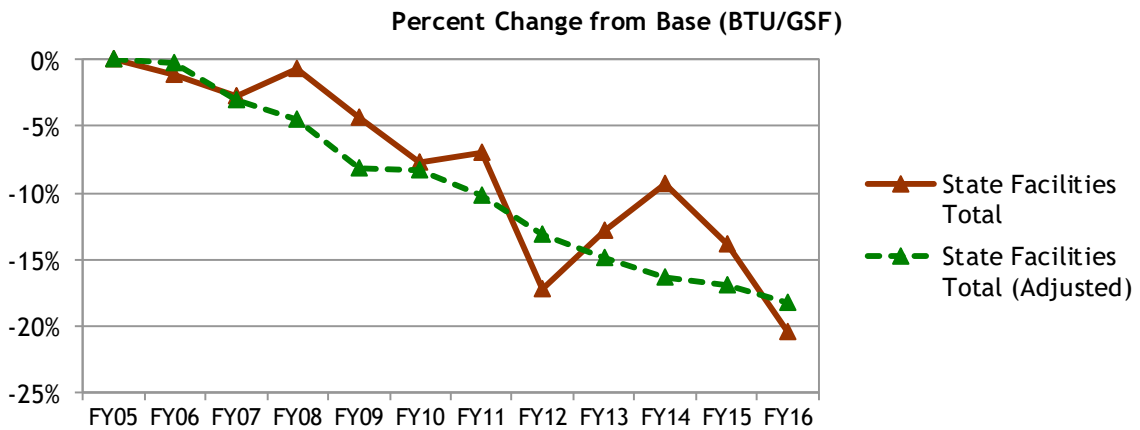
**State Total Fuel & Utilities Expenditures - Incomplete DPI & DOT data.**

Subcategory Name	Fiscal Year 2013	Fiscal Year 2014	Fiscal Year 2015	Fiscal Year 2016
Electricity	\$ 105,439,163	\$ 106,625,919	\$ 107,890,774	\$ 108,539,382
Natural Gas	\$ 41,279,429	\$ 61,515,089	\$ 45,719,303	\$ 31,860,822
Coal	\$ 5,135,953	\$ 4,962,713	\$ 3,347,232	\$ 2,999,305
Fuel Oil	\$ 817,864	\$ 4,749,710	\$ 534,790	\$ 216,854
Other Fuels	\$ 1,181,636	\$ 1,666,060	\$ 997,965	\$ 712,133
Steam	\$ 4,129,064	\$ 4,438,441	\$ 4,429,345	\$ 4,047,536
Chilled Water	\$ 86,884	\$ 85,019	\$ 77,416	\$ 67,688
Water & Sewage	\$ 22,733,651	\$ 23,097,161	\$ 24,663,535	\$ 24,835,625
<b>Total:</b>	<b>\$ 180,803,643</b>	<b>\$ 207,140,112</b>	<b>\$ 187,660,359</b>	<b>\$ 173,279,344</b>



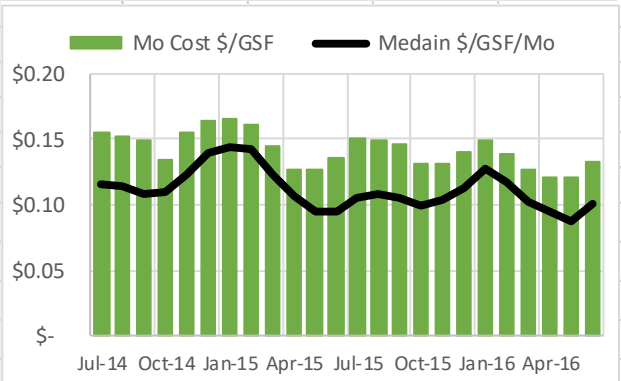
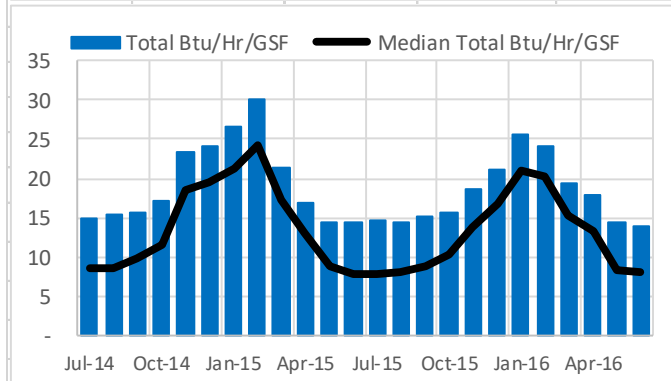
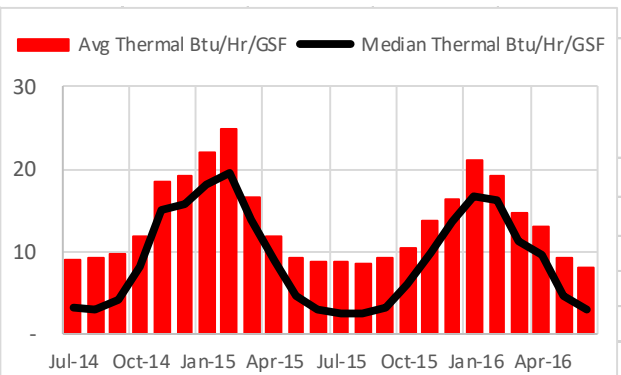
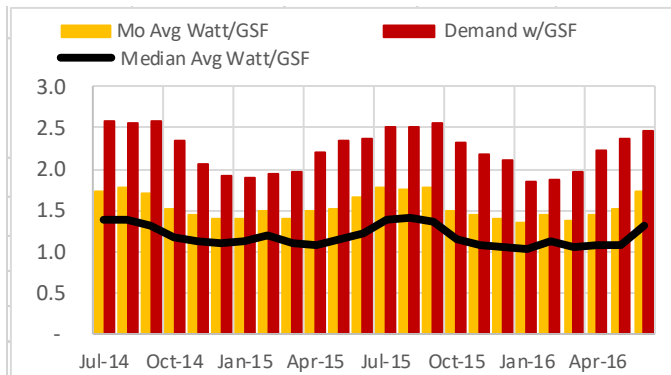
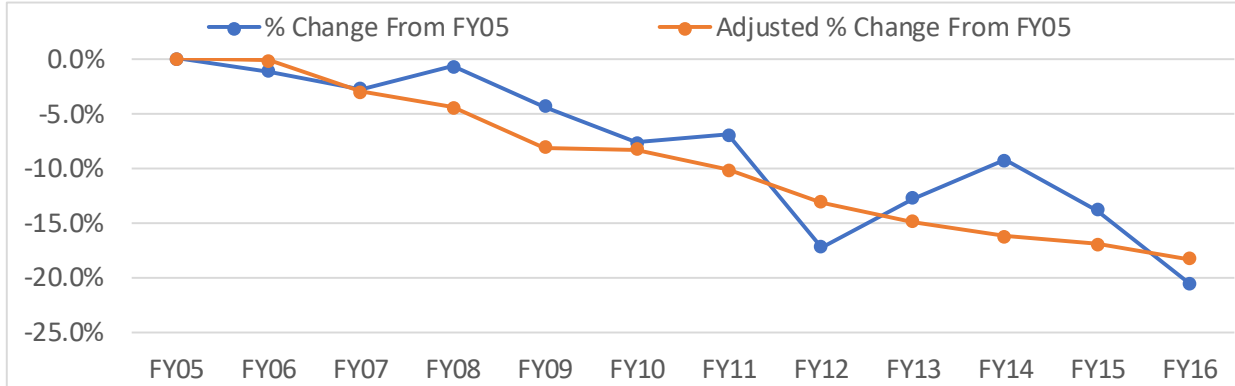


Wisconsin State Facilities									
State Facilities Total									
Fiscal Year	GSF	BTU/GSF				Weather-Adjusted			
		Thermal	Electricity	Total	% Change From FY05	Thermal Adjusted to FY05	Electric Adjusted to FY05	Total Adjusted Btu/GSF	Adjusted % Change From FY05
FY05	64,904,994	148,411	49,738	198,149	0.0%	100.0%	100.0%	198,149	0.0%
FY06	65,557,377	144,841	51,120	195,961	-1.1%	101.5%	99.4%	197,805	-0.2%
FY07	66,603,743	141,986	50,722	192,708	-2.7%	99.7%	99.8%	192,208	-3.0%
FY08	67,798,147	146,081	50,656	196,737	-0.7%	95.0%	99.5%	189,229	-4.5%
FY09	68,281,718	139,973	49,501	189,474	-4.4%	94.6%	100.0%	181,969	-8.2%
FY10	68,089,730	133,659	49,205	182,864	-7.7%	99.0%	100.3%	181,653	-8.3%
FY11	68,970,208	134,297	50,113	184,410	-6.9%	95.3%	99.5%	177,897	-10.2%
FY12	70,715,804	114,442	49,439	163,881	-17.3%	107.8%	98.5%	172,067	-13.2%
FY13	71,956,028	125,077	47,725	172,802	-12.8%	96.8%	99.6%	168,563	-14.9%
FY14	72,793,718	132,478	47,210	179,688	-9.3%	89.7%	99.6%	165,835	-16.3%
FY15	73,033,272	124,493	46,154	170,647	-13.9%	95.0%	100.1%	164,474	-17.0%
FY16	73,573,331	111,375	46,097	157,472	-20.5%	104.2%	99.4%	161,862	-18.3%



### Fiscal Year 2016 State Facilities Energy Report - State Agency Total

Electric kwh/GSF = 13.51		Therm/GSF = 1.11		Total Btu/GSF = 157,472					
Electric \$/GSF = \$ 1.20		Thermal \$/GSF = \$ 0.44		Energy \$/GSF = \$ 1.64					
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05	Weather Thermal Adjusted to FY05	Weather Electric Adjusted to FY05	Total Weather Adjusted Btu/GSF	Adjusted % Change From FY05
FY05	64,904,994	148,411	49,738	198,149	0.0%	100.0%	100.0%	198,149	0.0%
FY06	65,557,377	144,841	51,120	195,961	-1.1%	101.5%	99.4%	197,805	-0.2%
FY07	66,603,743	141,986	50,722	192,708	-2.7%	99.7%	99.8%	192,208	-3.0%
FY08	67,798,147	146,081	50,656	196,737	-0.7%	95.0%	99.5%	189,229	-4.5%
FY09	68,281,718	139,973	49,501	189,474	-4.4%	94.6%	100.0%	181,969	-8.2%
FY10	68,089,730	133,659	49,205	182,864	-7.7%	99.0%	100.3%	181,653	-8.3%
FY11	68,970,208	134,297	50,113	184,410	-6.9%	95.3%	99.5%	177,897	-10.2%
FY12	70,715,804	114,442	49,439	163,881	-17.3%	107.8%	98.5%	172,067	-13.2%
FY13	71,956,028	125,077	47,725	172,802	-12.8%	96.8%	99.6%	168,563	-14.9%
FY14	72,793,718	132,478	47,210	179,688	-9.3%	89.7%	99.6%	165,835	-16.3%
FY15	73,033,272	124,493	46,154	170,647	-13.9%	95.0%	100.1%	164,474	-17.0%
FY16	73,573,331	111,375	46,097	157,472	-20.5%	104.2%	99.4%	161,862	-18.3%



# Agency Energy Use Summary

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## SCOPE

Includes 13-four year university campuses: Eau Claire; Green Bay; La Crosse; Madison; Milwaukee; Oshkosh; Parkside; Platteville; River Falls; Stevens Point; Stout; Superior; and Whitewater.

Also, includes 13 two-year college campuses: Baraboo/Sauk County; Barron County; Fond du Lac; Fox Valley; Manitowoc; Marathon County; Marinette; Marshfield/Wood County; Richland; Rock County; Sheboygan; Washington County; and Waukesha.

## ENERGY CONSUMPTION

**Total Change from Base - Weather Adjusted: 21.1 percent decrease.**

Energy use (BTU/GSF/Yr) for FY16 was 21.1 percent lower than in the base fiscal year, FY05.

**Latest Year Change - Weather Adjusted: 2.5 percent decrease.**

Energy use (BTU/GSF/Yr) for FY16 decreased 2.5 percent from the previous fiscal year.

***Average Annual Change - Weather Adjusted: 1.9 percent decrease per year.***

On average, energy use (BTU/GSF/Yr) has decreased 1.9 percent since the base year, FY05.

## GSF AND CONSUMPTION STATISTICS

***GSF Change from Base: 19.5 percent Increase.***

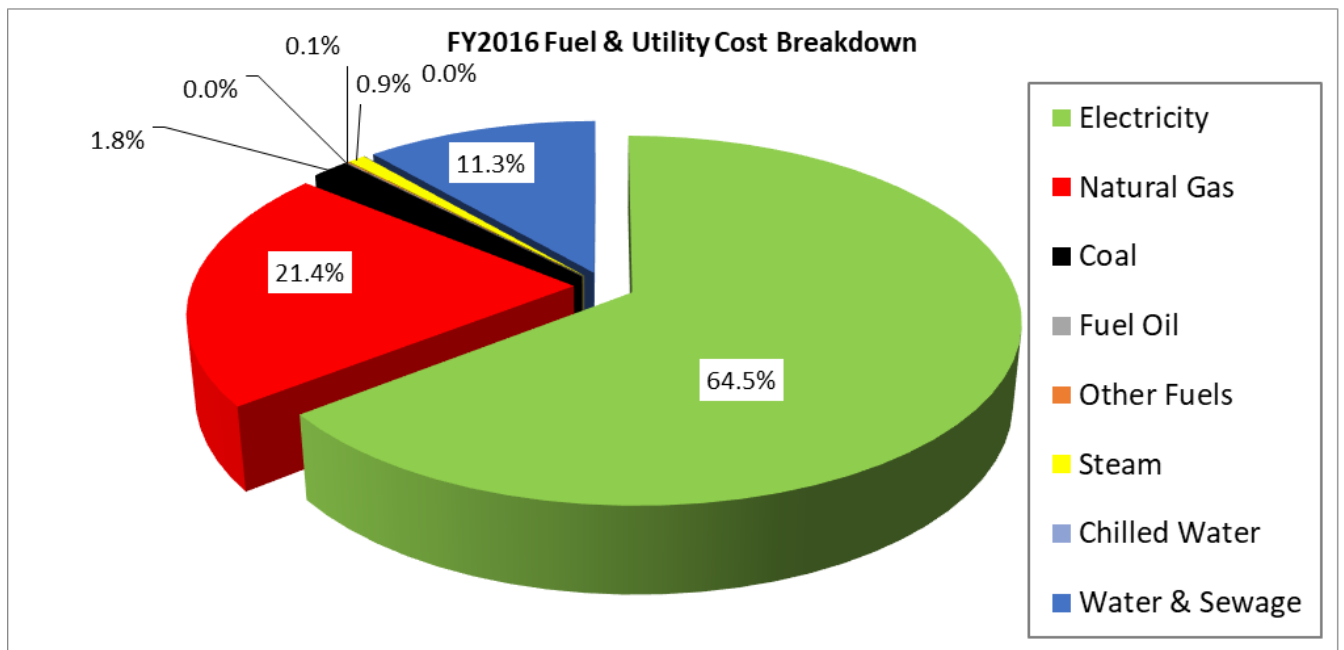
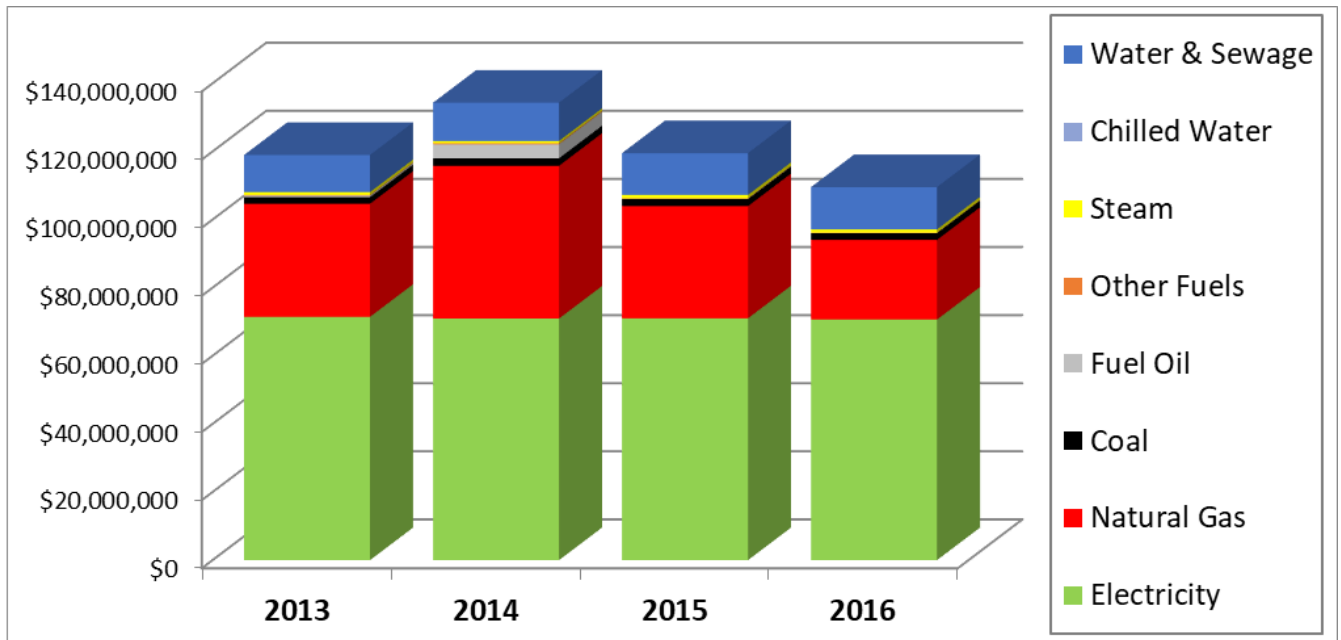
Gross square footage has increased 19.5% from the base fiscal year, FY05.

***Consumption Change from Base: 8.1 percent decrease.***

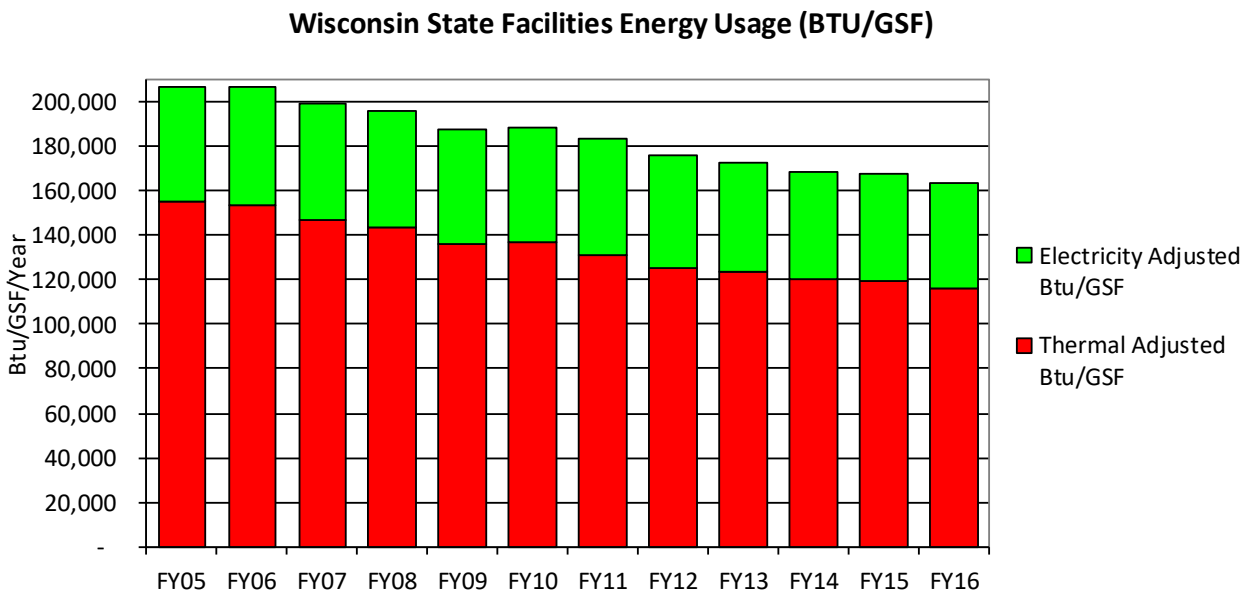
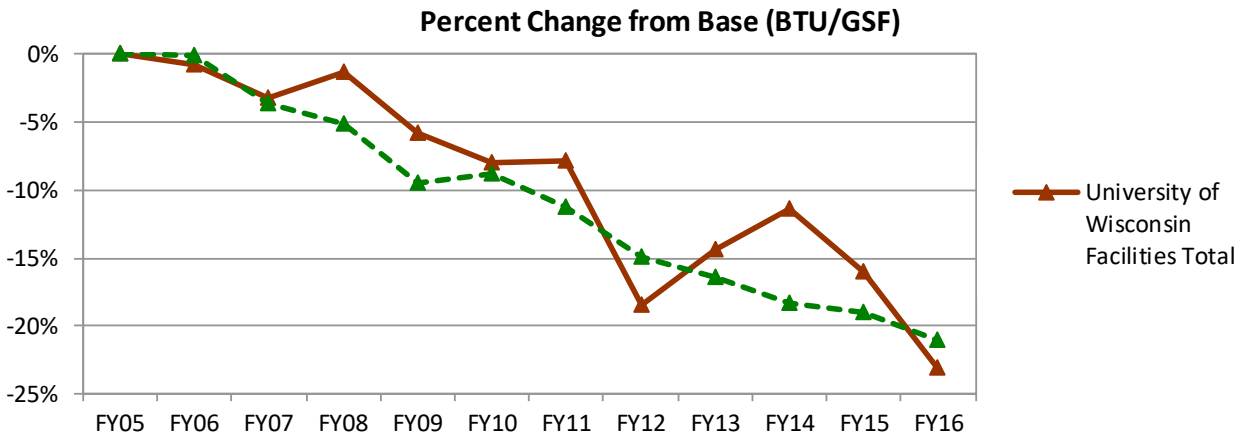
Total consumption was 8.1 percent less when compared to FY05. Total energy (million BTU) purchases in FY16 were 5.7 percent less than in the base year when adjusted for weather compared to FY05.

### University of Wisconsin System Fuel & Utilities Expenditures

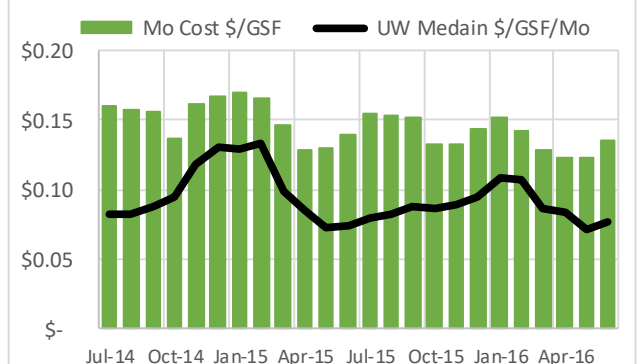
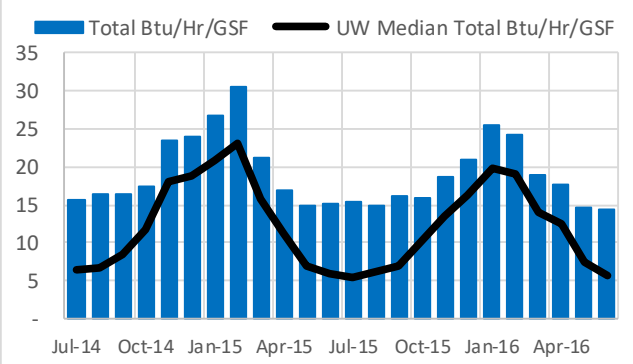
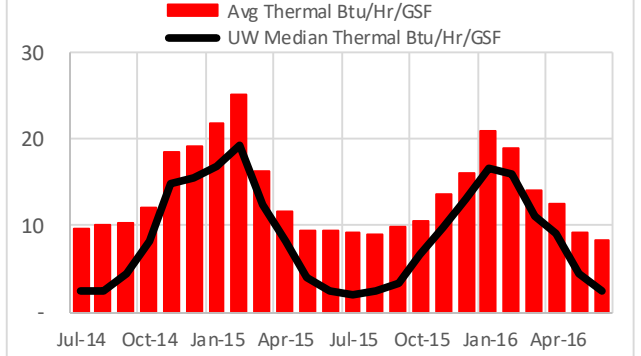
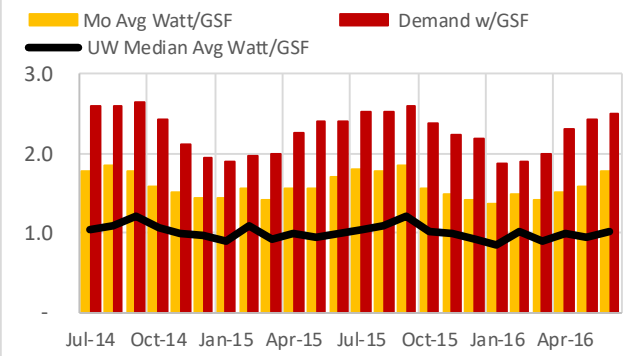
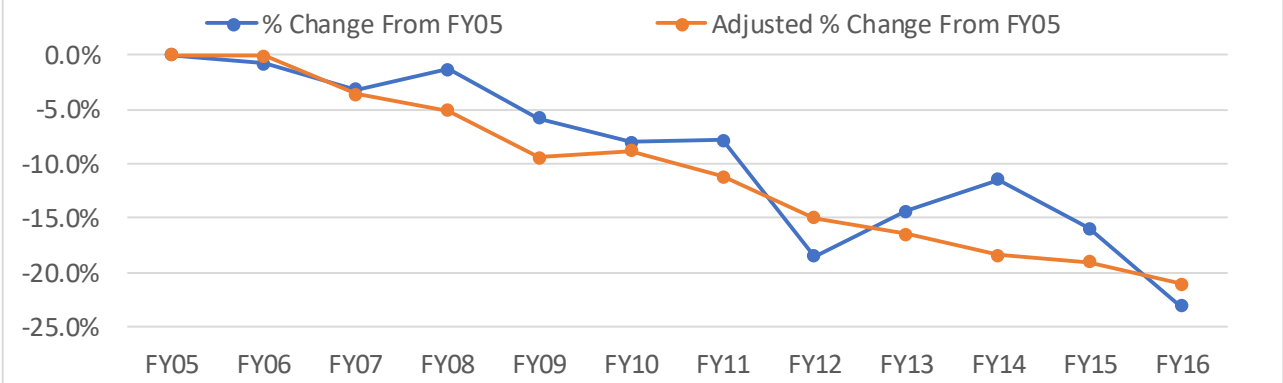
Subcategory Name	Fiscal Year 2013	Fiscal Year 2014	Fiscal Year 2015	Fiscal Year 2016
Electricity	\$ 71,452,078	\$ 70,940,350	\$ 71,026,570	\$ 70,646,301
Natural Gas	\$ 33,201,249	\$ 44,858,638	\$ 32,932,026	\$ 23,391,625
Coal	\$ 1,928,245	\$ 2,199,837	\$ 2,069,954	\$ 1,982,375
Fuel Oil	\$ 456,205	\$ 4,119,186	\$ 87,613	\$ 44,893
Other Fuels	\$ 193,237	\$ 304,984	\$ 139,659	\$ 93,336
Steam	\$ 829,289	\$ 658,197	\$ 976,461	\$ 948,502
Chilled Water	\$ -	\$ -	\$ -	\$ -
Water & Sewage	\$ 10,900,725	\$ 11,241,372	\$ 12,280,336	\$ 12,419,301
<b>Total:</b>	<b>\$ 118,961,028</b>	<b>\$ 134,322,565</b>	<b>\$ 119,512,618</b>	<b>\$ 109,526,334</b>



Wisconsin State Facilities									
University of Wisconsin Facilities Total									
Fiscal Year	GSF	BTU/GSF				Weather-Adjusted			
		Thermal	Electricity	Total	% Change From FY05	Thermal Adjusted to FY05	Electric Adjusted to FY05	Total Adjusted Btu/GSF	Adjusted % Change From FY05
FY05	46,655,255	155,225	51,490	206,715	0.0%	100.0%	100.0%	206,715	0.0%
FY06	47,261,328	151,762	53,242	205,004	-0.8%	101.2%	99.4%	206,533	-0.1%
FY07	48,307,694	147,250	52,867	200,117	-3.2%	99.5%	99.8%	199,345	-3.6%
FY08	49,502,098	151,385	52,653	204,038	-1.3%	95.0%	99.7%	196,247	-5.1%
FY09	50,134,229	143,364	51,396	194,760	-5.8%	94.6%	100.2%	187,147	-9.5%
FY10	49,843,245	138,445	51,641	190,086	-8.0%	98.8%	100.3%	188,585	-8.8%
FY11	50,695,697	137,930	52,610	190,540	-7.8%	95.1%	99.7%	183,556	-11.2%
FY12	52,550,736	116,872	51,625	168,497	-18.5%	106.9%	98.3%	175,729	-15.0%
FY13	53,733,978	127,535	49,572	177,107	-14.3%	96.7%	99.6%	172,719	-16.4%
FY14	54,819,116	134,356	48,697	183,053	-11.4%	89.4%	99.7%	168,723	-18.4%
FY15	55,192,743	126,042	47,674	173,716	-16.0%	94.9%	100.2%	167,387	-19.0%
FY16	55,732,802	111,358	47,594	158,951	-23.1%	104.1%	99.3%	163,139	-21.1%

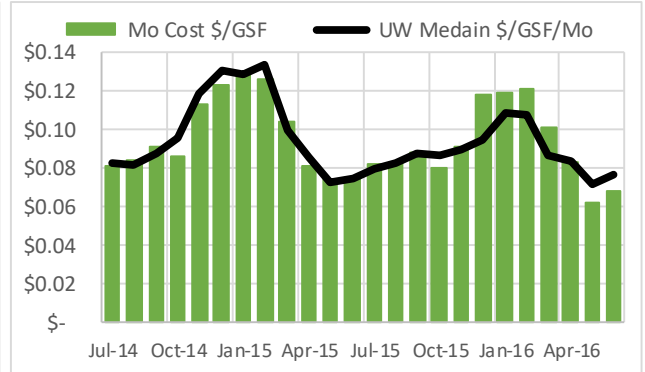
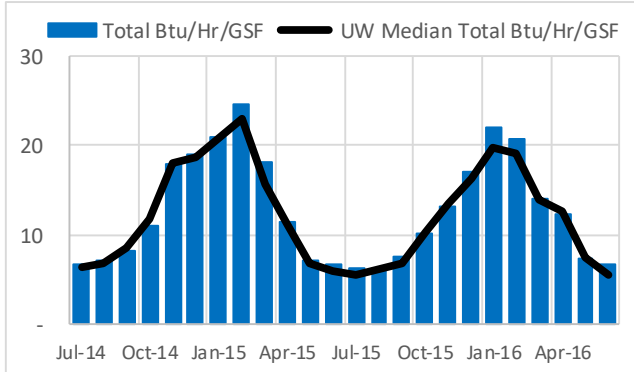
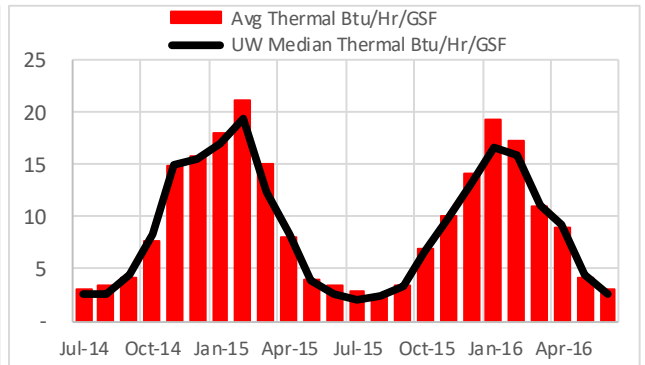
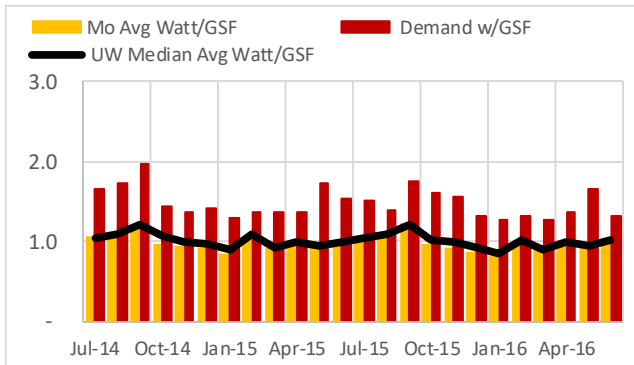
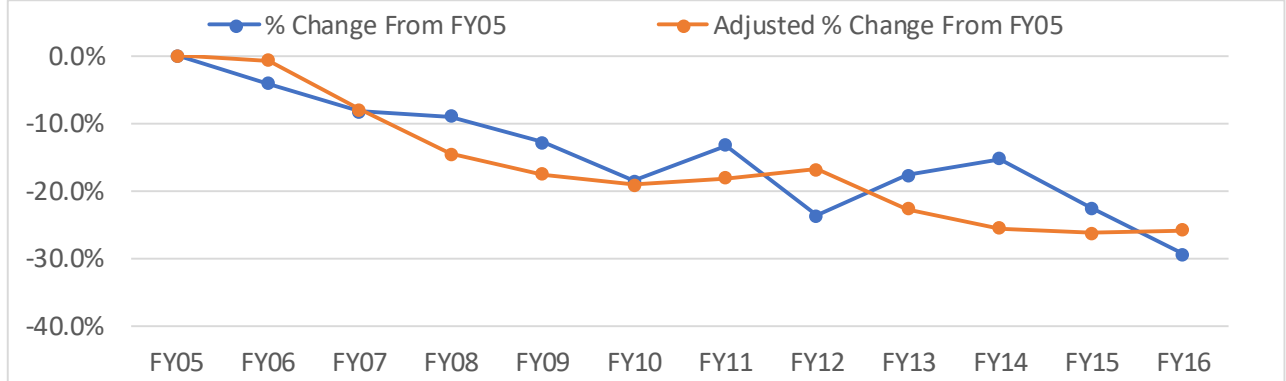


Fiscal Year 2016 State Facilities Energy Report - UW System Total										
Electric kwh/GSF =		13.94		Therm/GSF =		1.11		Total Btu/GSF =		158,951
Electric \$/GSF =		\$ 1.23		Thermal \$/GSF =		\$ 0.45		Energy \$/GSF =		\$ 1.67
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05	Weather Thermal Adjusted to FY05	Weather Electric Adjusted to FY05	Total Weather Adjusted Btu/GSF	Adjusted % Change From FY05	
FY05	46,655,255	155,225	51,490	206,715	0.0%	100.0%	100.0%	206,715	0.0%	
FY06	47,261,328	151,762	53,242	205,004	-0.8%	101.2%	99.4%	206,533	-0.1%	
FY07	48,307,694	147,250	52,867	200,117	-3.2%	99.5%	99.8%	199,345	-3.6%	
FY08	49,502,098	151,385	52,653	204,038	-1.3%	95.0%	99.7%	196,247	-5.1%	
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FY10	49,843,245	138,445	51,641	190,086	-8.0%	98.8%	100.3%	188,585	-8.8%	
FY11	50,695,697	137,930	52,610	190,540	-7.8%	95.1%	99.7%	183,556	-11.2%	
FY12	52,550,736	116,872	51,625	168,497	-18.5%	106.9%	98.3%	175,729	-15.0%	
FY13	53,733,978	127,535	49,572	177,107	-14.3%	96.7%	99.6%	172,719	-16.4%	
FY14	54,819,116	134,356	48,697	183,053	-11.4%	89.4%	99.7%	168,723	-18.4%	
FY15	55,192,743	126,042	47,674	173,716	-16.0%	94.9%	100.2%	167,387	-19.0%	
FY16	55,732,802	111,358	47,594	158,951	-23.1%	104.1%	99.3%	163,139	-21.1%	



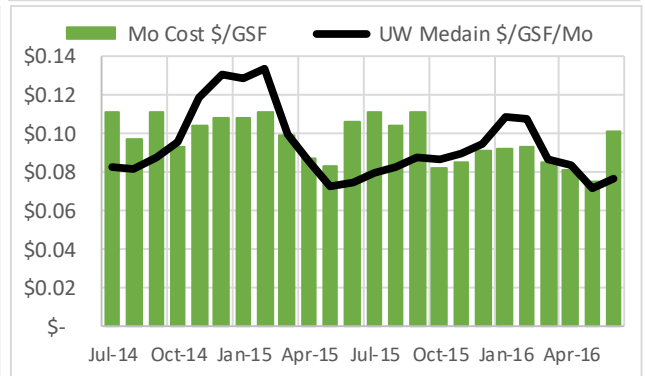
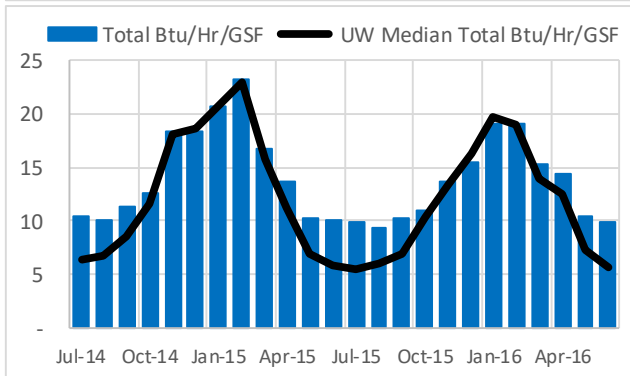
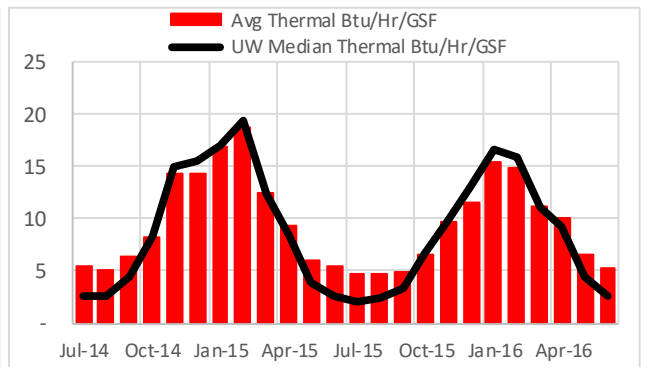
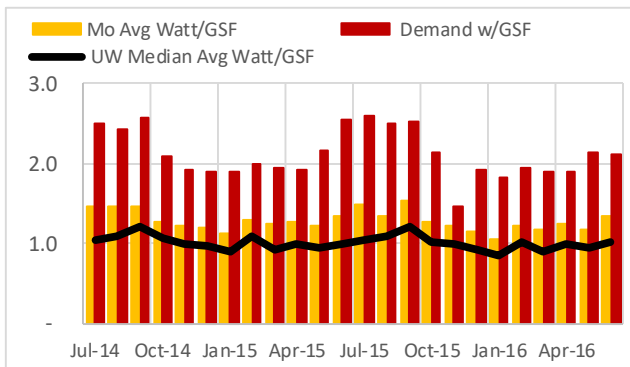
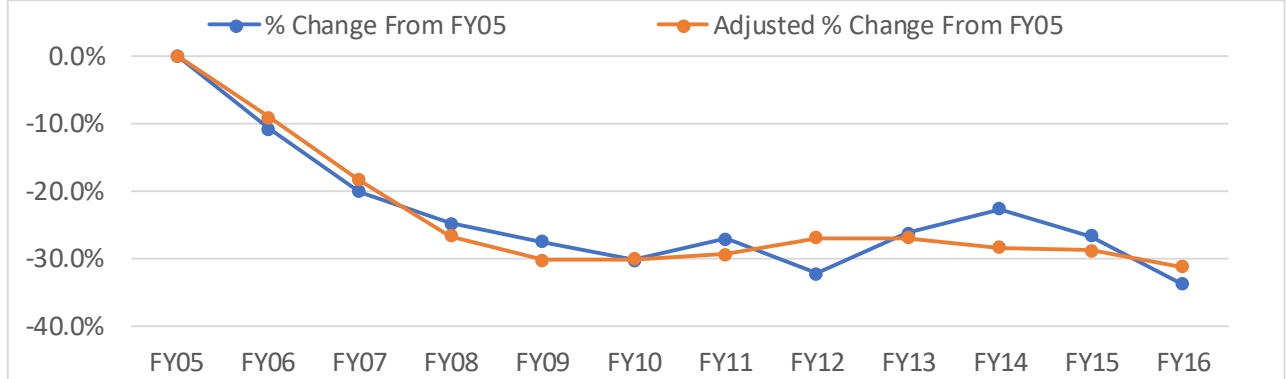
### Fiscal Year 2016 State Facilities Energy Report - UW\_Eau Claire

Electric kwh/GSF =		8.52		Therm/GSF =		0.76		Total Btu/GSF =		105,108	
Electric \$/GSF =		\$ 0.71		Thermal \$/GSF =		\$ 0.39		Energy \$/GSF =		\$ 1.10	
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05	Weather Thermal Adjusted to FY05	Weather Electric Adjusted to FY05	Total Weather Adjusted Btu/GSF	Adjusted % Change From FY05		
FY05	2,438,217	108,640	40,508	149,148	0.0%	100.0%	100.0%	149,148	0.0%		
FY06	2,436,936	100,153	42,818	142,972	-4.1%	105.5%	99.0%	148,043	-0.7%		
FY07	2,436,936	98,235	38,579	136,814	-8.3%	100.7%	99.4%	137,238	-8.0%		
FY08	2,436,936	98,592	37,164	135,756	-9.0%	91.7%	99.6%	127,455	-14.5%		
FY09	2,436,936	95,121	34,913	130,033	-12.8%	92.4%	100.4%	122,894	-17.6%		
FY10	2,436,963	88,749	32,720	121,470	-18.6%	98.9%	100.1%	120,521	-19.2%		
FY11	2,436,963	95,979	33,367	129,346	-13.3%	92.6%	99.9%	122,152	-18.1%		
FY12	2,452,457	79,834	33,875	113,709	-23.8%	113.1%	99.4%	123,927	-16.9%		
FY13	2,452,457	90,372	32,263	122,635	-17.8%	91.9%	100.0%	115,317	-22.7%		
FY14	2,634,457	95,483	30,862	126,345	-15.3%	84.1%	99.3%	110,921	-25.6%		
FY15	2,634,457	86,137	29,408	115,545	-22.5%	93.3%	100.1%	109,806	-26.4%		
FY16	2,634,457	76,042	29,066	105,108	-29.5%	107.4%	99.4%	110,543	-25.9%		



### Fiscal Year 2016 State Facilities Energy Report - UW\_Green Bay

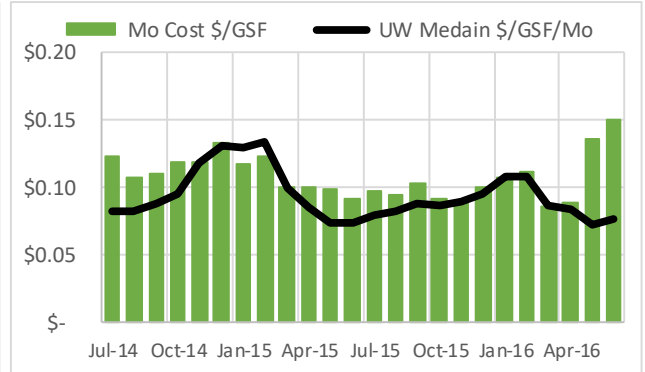
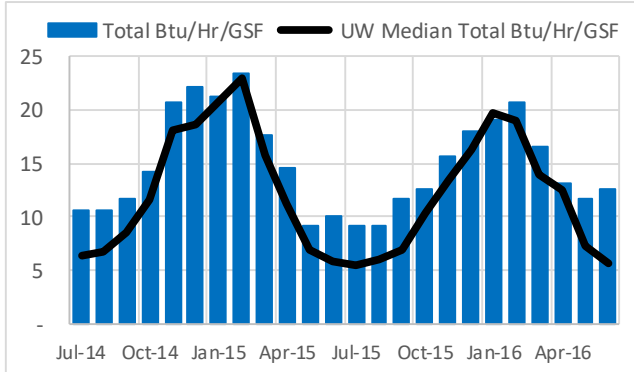
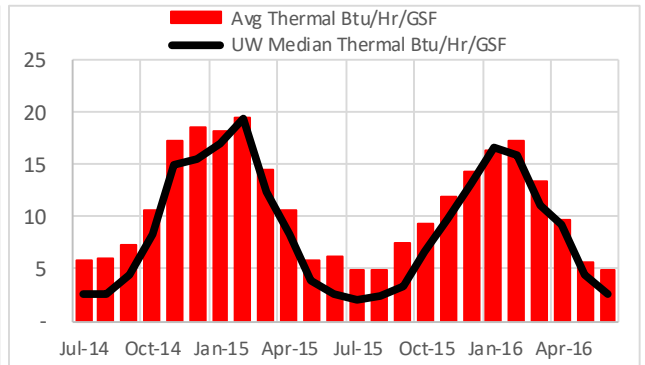
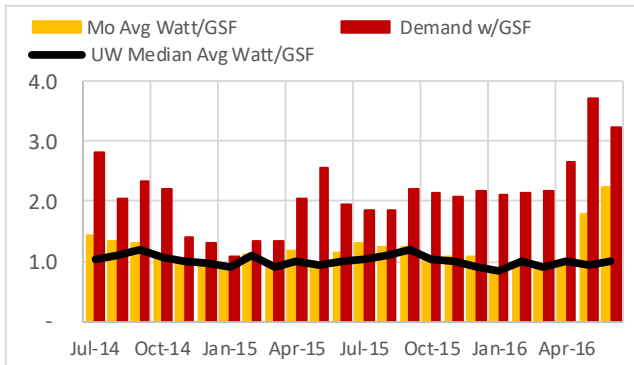
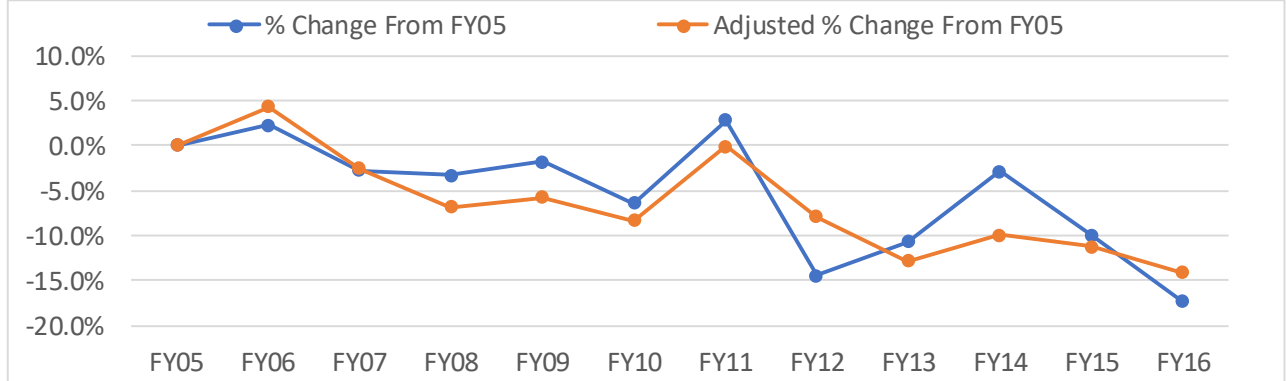
Electric kwh/GSF =		11.13		Therm/GSF =		0.77		Total Btu/GSF =		115,265	
Electric \$/GSF =		\$ 0.85		Thermal \$/GSF =		\$ 0.26		Energy \$/GSF =		\$ 1.11	
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05	Weather Thermal Adjusted to FY05	Weather Electric Adjusted to FY05	Total Weather Adjusted Btu/GSF	Adjusted % Change From FY05		
FY05	1,157,746	120,311	54,211	174,522	0.0%	100.0%	100.0%	174,522	0.0%		
FY06	1,179,796	103,003	52,689	155,692	-10.8%	103.3%	99.0%	158,555	-9.1%		
FY07	1,179,796	89,260	49,961	139,222	-20.2%	103.6%	99.9%	142,415	-18.4%		
FY08	1,386,055	85,323	45,712	131,035	-24.9%	96.5%	99.6%	127,858	-26.7%		
FY09	1,386,055	82,101	44,231	126,332	-27.6%	93.9%	100.5%	121,566	-30.3%		
FY10	1,386,055	79,218	42,285	121,502	-30.4%	100.3%	100.3%	121,870	-30.2%		
FY11	1,386,055	84,331	42,679	127,010	-27.2%	95.6%	99.6%	123,122	-29.5%		
FY12	1,386,055	75,586	42,479	118,065	-32.3%	113.1%	98.6%	127,353	-27.0%		
FY13	1,386,055	86,895	41,790	128,685	-26.3%	98.4%	99.9%	127,268	-27.1%		
FY14	1,386,055	94,549	40,324	134,874	-22.7%	89.5%	99.7%	124,830	-28.5%		
FY15	1,386,055	89,115	38,829	127,944	-26.7%	95.4%	100.3%	124,000	-28.9%		
FY16	1,386,055	77,285	37,980	115,265	-34.0%	106.4%	99.3%	119,960	-31.3%		





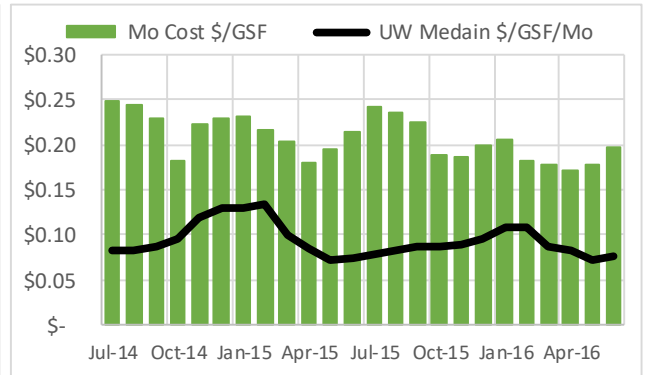
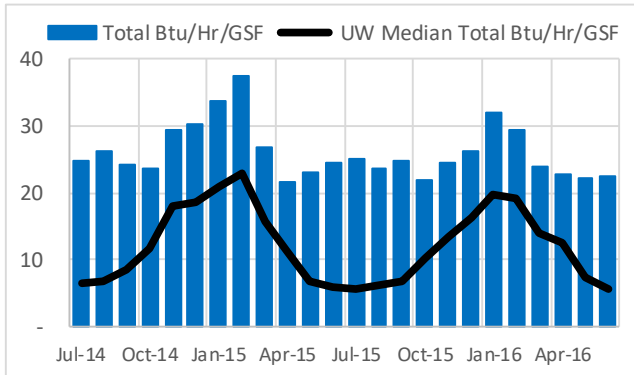
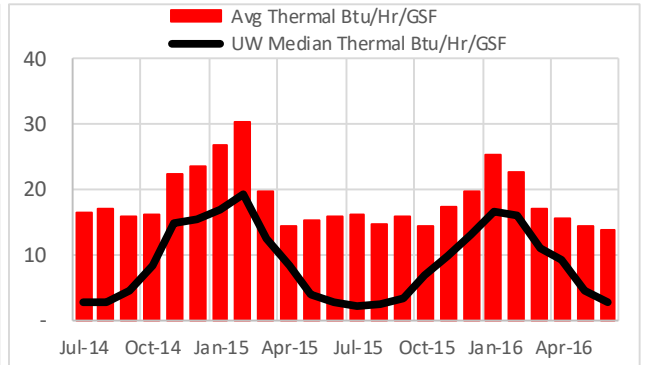
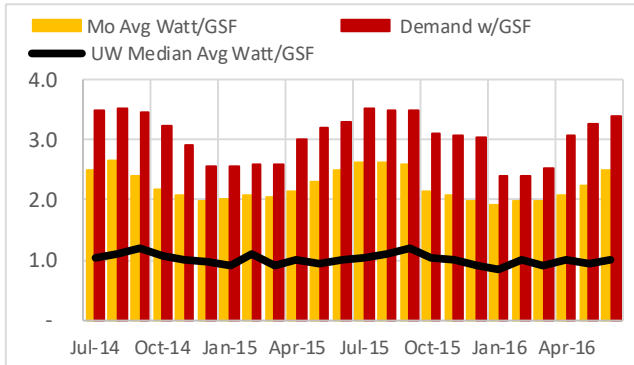
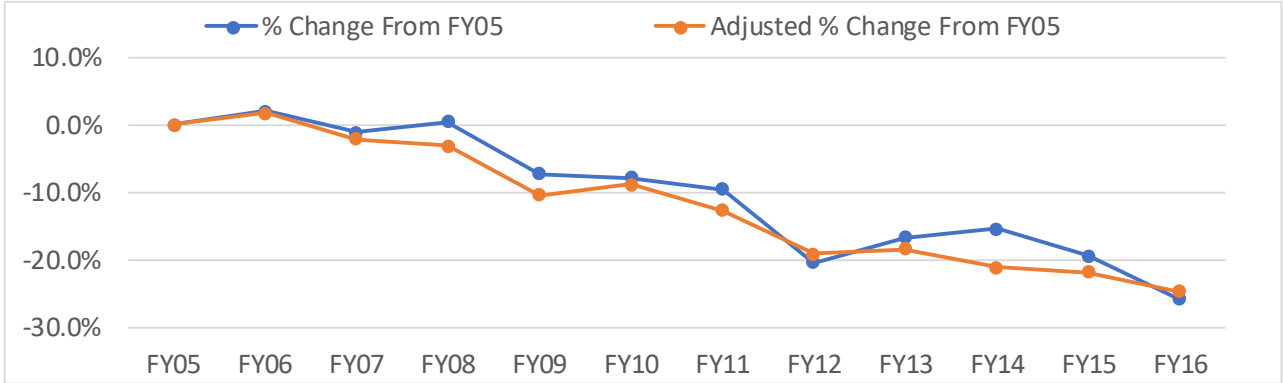
### Fiscal Year 2016 State Facilities Energy Report - UW\_La Crosse

Electric kwh/GSF =		10.72		Therm/GSF =		0.88		Total Btu/GSF =		124,358	
Electric \$/GSF =		\$ 0.92		Thermal \$/GSF =		\$ 0.34		Energy \$/GSF =		\$ 1.25	
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05	Weather Thermal Adjusted to FY05	Weather Electric Adjusted to FY05	Total Weather Adjusted Btu/GSF	Adjusted % Change From FY05		
FY05	2,260,874	111,932	38,509	150,442	0.0%	100.0%	100.0%	150,442	0.0%		
FY06	2,206,741	112,859	41,060	153,918	2.3%	103.1%	98.9%	156,994	4.4%		
FY07	2,371,272	106,564	39,666	146,230	-2.8%	100.5%	99.6%	146,603	-2.6%		
FY08	2,371,272	107,435	38,037	145,472	-3.3%	95.0%	100.2%	140,209	-6.8%		
FY09	2,371,272	109,799	37,932	147,731	-1.8%	94.3%	100.8%	141,783	-5.8%		
FY10	2,261,088	105,044	35,731	140,775	-6.4%	97.3%	100.2%	137,957	-8.3%		
FY11	2,261,088	114,130	40,565	154,696	2.8%	96.3%	99.7%	150,330	-0.1%		
FY12	2,677,906	92,097	36,609	128,706	-14.4%	111.5%	98.0%	138,538	-7.9%		
FY13	2,677,906	99,742	34,662	134,404	-10.7%	96.7%	99.9%	131,030	-12.9%		
FY14	2,677,906	109,817	36,240	146,057	-2.9%	90.7%	99.0%	135,455	-10.0%		
FY15	2,797,642	102,174	33,283	135,457	-10.0%	98.3%	99.5%	133,518	-11.2%		
FY16	3,008,972	87,787	36,571	124,358	-17.3%	106.4%	97.7%	129,129	-14.2%		



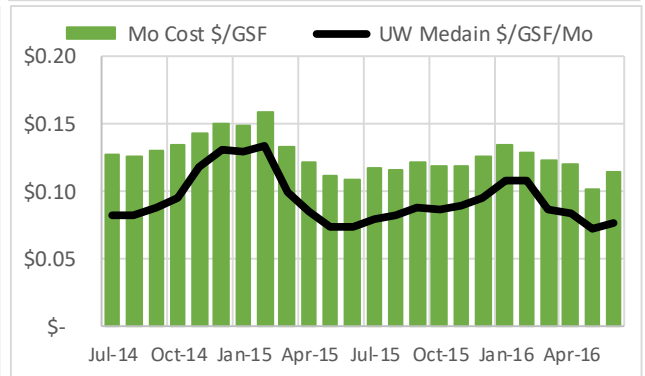
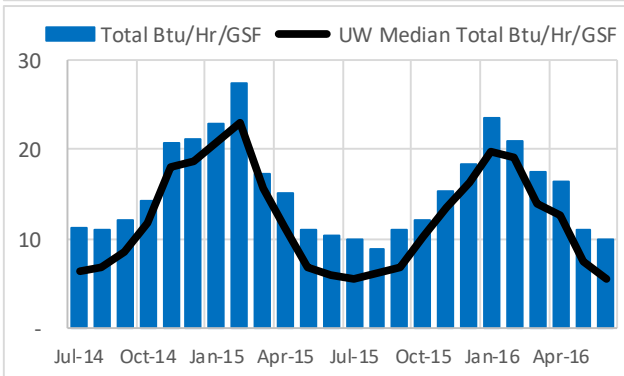
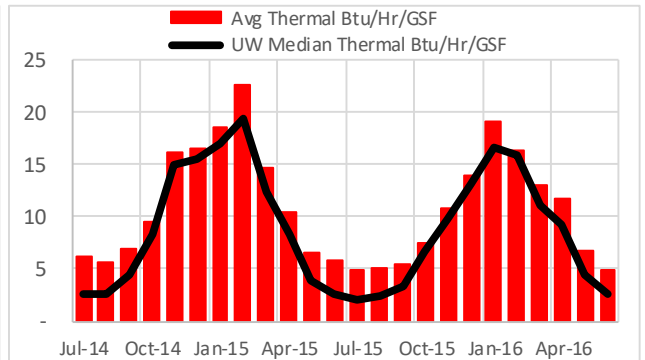
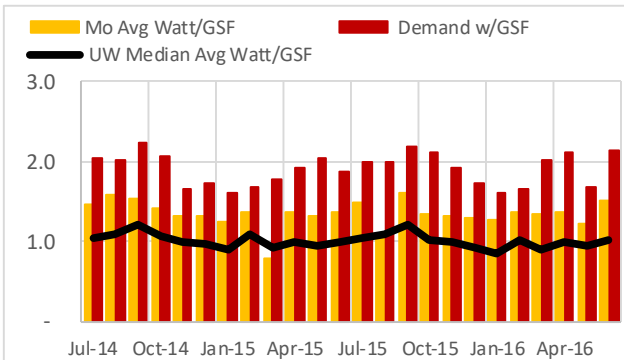
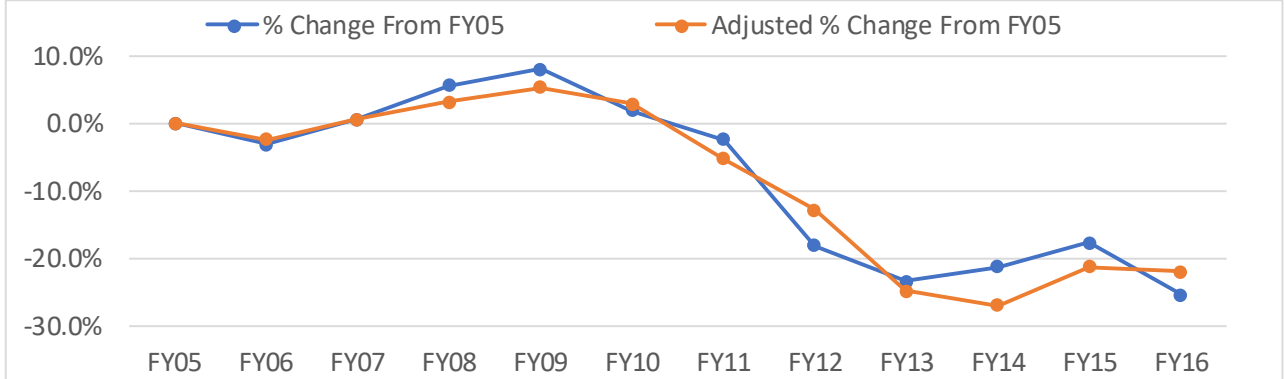
### Fiscal Year 2016 State Facilities Energy Report - UW\_Madison

Electric kwh/GSF = 19.62		Therm/GSF = 1.51		Total Btu/GSF = 218,395					
Electric \$/GSF = \$ 1.76		Thermal \$/GSF = \$ 0.63		Energy \$/GSF = \$ 2.39					
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05	Weather Thermal Adjusted to FY05	Weather Electric Adjusted to FY05	Total Weather Adjusted Btu/GSF	Adjusted % Change From FY05
FY05	19,207,711	226,083	68,693	294,776	0.0%	100.0%	100.0%	294,776	0.0%
FY06	19,361,692	228,039	72,458	300,497	1.9%	99.8%	99.5%	299,691	1.7%
FY07	19,913,817	219,108	72,444	291,552	-1.1%	98.7%	99.9%	288,631	-2.1%
FY08	20,578,984	223,776	72,402	296,178	0.5%	95.3%	99.6%	285,316	-3.2%
FY09	20,979,443	202,914	70,317	273,232	-7.3%	95.5%	100.0%	264,026	-10.4%
FY10	20,678,457	199,722	71,666	271,388	-7.9%	98.5%	100.5%	268,655	-8.9%
FY11	21,120,379	192,529	73,773	266,301	-9.7%	95.4%	99.6%	257,112	-12.8%
FY12	22,153,550	162,222	72,184	234,406	-20.5%	103.3%	98.0%	238,414	-19.1%
FY13	22,362,671	176,114	69,427	245,541	-16.7%	97.2%	99.6%	240,336	-18.5%
FY14	23,070,777	181,286	68,048	249,334	-15.4%	90.8%	99.8%	232,525	-21.1%
FY15	23,199,509	170,304	67,088	237,391	-19.5%	95.8%	100.2%	230,294	-21.9%
FY16	23,274,382	151,423	66,972	218,395	-25.9%	102.5%	99.3%	221,643	-24.8%



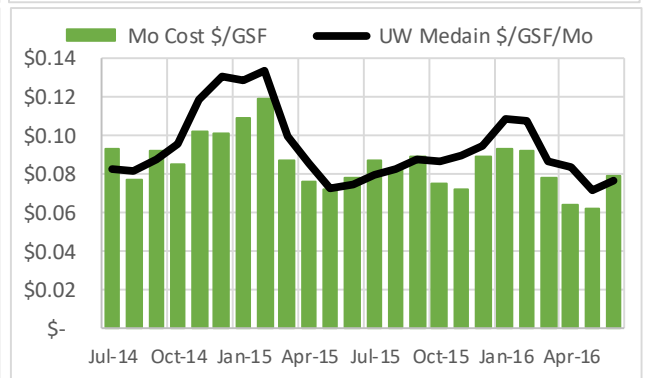
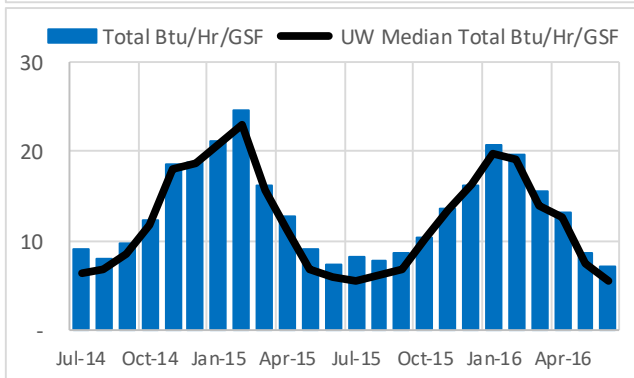
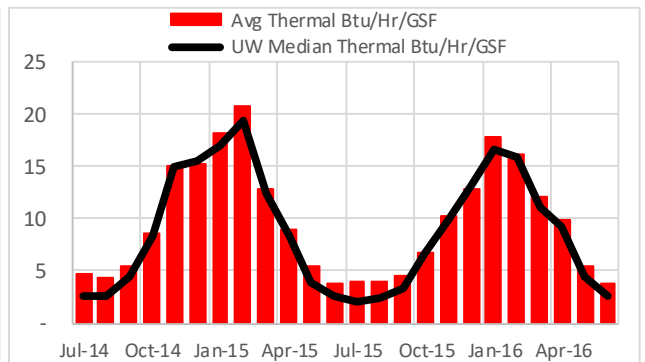
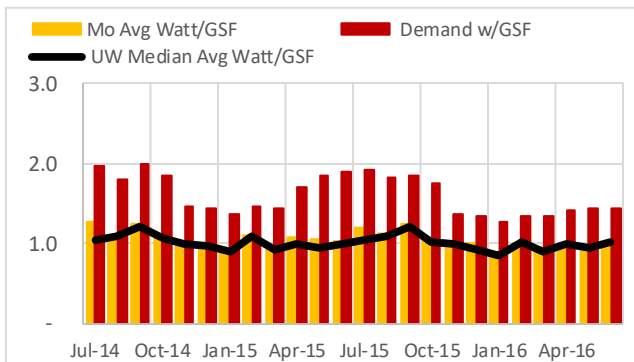
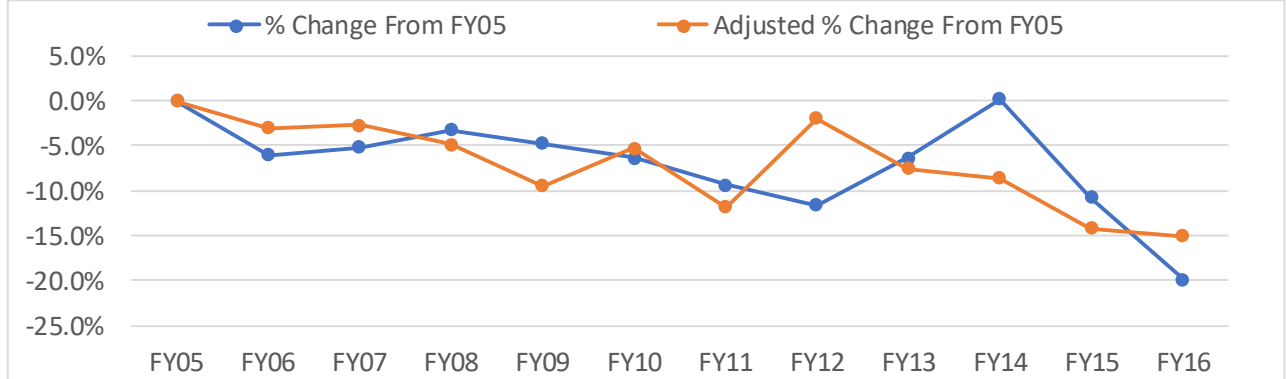
### Fiscal Year 2016 State Facilities Energy Report - UW\_Milwaukee

Electric kwh/GSF =		11.87		Therm/GSF =		0.88		Total Btu/GSF =		128,034	
Electric \$/GSF =		\$ 1.13		Thermal \$/GSF =		\$ 0.31		Energy \$/GSF =		\$ 1.44	
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05	Weather Thermal Adjusted to FY05	Weather Electric Adjusted to FY05	Total Weather Adjusted Btu/GSF	Adjusted % Change From FY05		
FY05	4,190,131	120,968	50,959	171,927	0.0%	100.0%	100.0%	171,927	0.0%		
FY06	4,190,131	113,043	53,589	166,632	-3.1%	101.5%	99.0%	167,746	-2.4%		
FY07	4,324,831	118,950	53,955	172,905	0.6%	100.2%	99.6%	172,894	0.6%		
FY08	4,320,806	126,609	54,956	181,564	5.6%	97.0%	99.4%	177,428	3.2%		
FY09	4,344,925	131,382	54,261	185,643	8.0%	96.5%	100.1%	181,096	5.3%		
FY10	4,344,925	121,653	53,409	175,062	1.8%	101.5%	99.8%	176,750	2.8%		
FY11	4,344,925	116,806	50,947	167,753	-2.4%	96.1%	99.4%	162,840	-5.3%		
FY12	4,344,925	92,379	48,350	140,729	-18.1%	110.8%	98.3%	149,882	-12.8%		
FY13	5,189,880	89,109	42,571	131,680	-23.4%	97.6%	99.2%	129,222	-24.8%		
FY14	5,195,749	94,234	40,931	135,166	-21.4%	89.7%	99.7%	125,397	-27.1%		
FY15	5,195,749	101,480	40,047	141,528	-17.7%	93.6%	100.4%	135,195	-21.4%		
FY16	5,279,687	87,509	40,525	128,034	-25.5%	107.1%	99.8%	134,112	-22.0%		



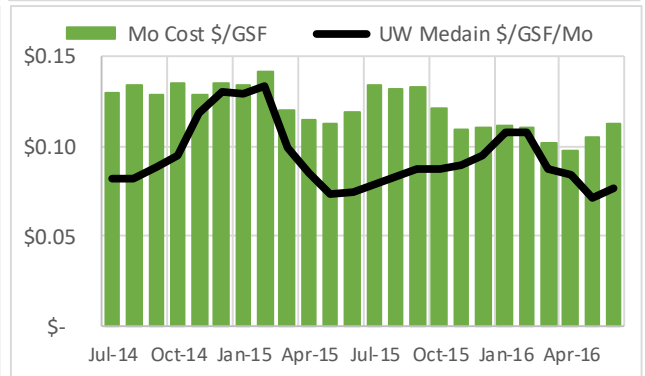
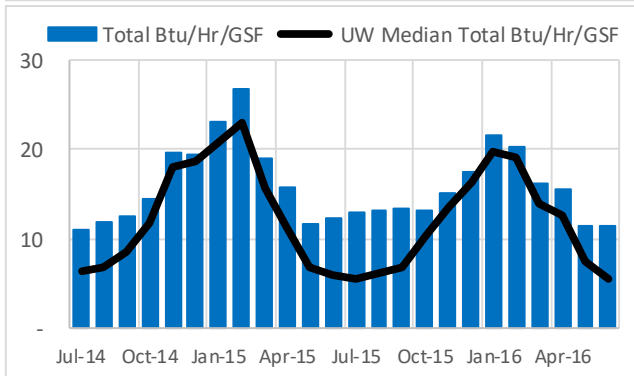
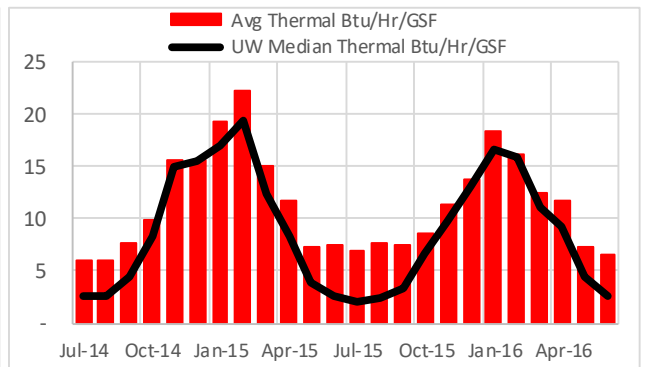
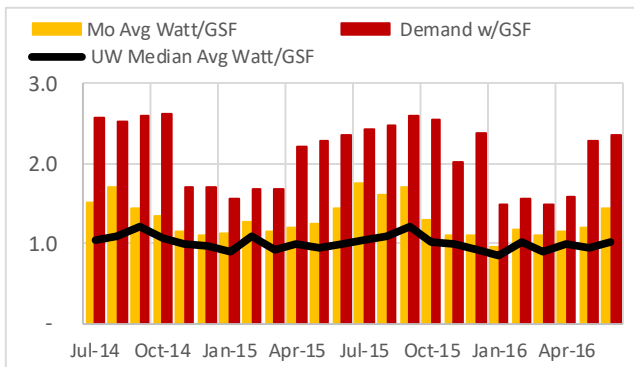
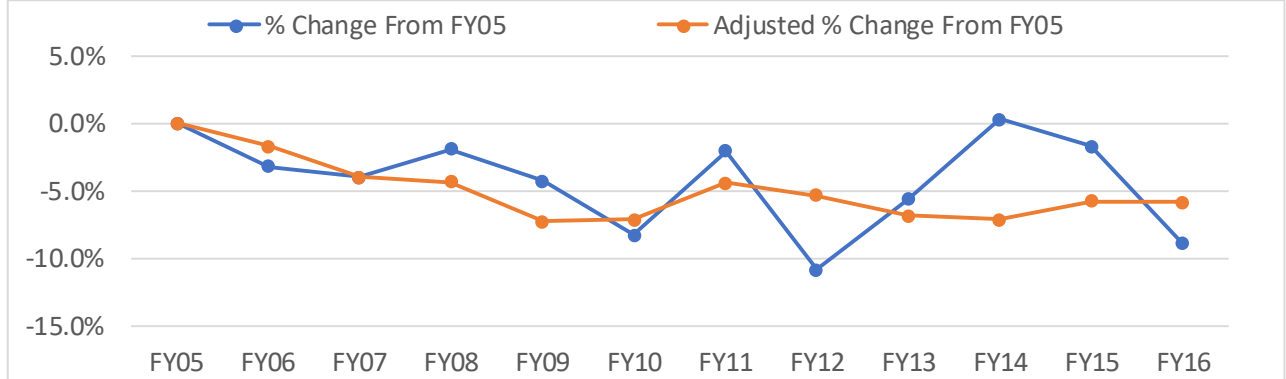
### Fiscal Year 2016 State Facilities Energy Report - UW\_Oshkosh

Electric kwh/GSF =		8.97		Therm/GSF =		0.79		Total Btu/GSF =		109,306	
Electric \$/GSF =		\$ 0.67		Thermal \$/GSF =		\$ 0.29		Energy \$/GSF =		\$ 0.96	
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05	Weather Thermal Adjusted to FY05	Weather Electric Adjusted to FY05	Total Weather Adjusted Btu/GSF	Adjusted % Change From FY05		
FY05	2,674,233	97,371	39,080	136,452	0.0%	100.0%	100.0%	136,452	0.0%		
FY06	2,746,643	90,160	38,047	128,207	-6.0%	104.8%	99.3%	132,250	-3.1%		
FY07	2,753,951	92,028	37,296	129,324	-5.2%	103.8%	99.8%	132,737	-2.7%		
FY08	2,889,527	96,011	36,061	132,072	-3.2%	97.5%	100.5%	129,871	-4.8%		
FY09	2,855,351	94,812	35,226	130,038	-4.7%	92.9%	100.6%	123,494	-9.5%		
FY10	2,826,573	92,436	35,384	127,820	-6.3%	101.5%	100.2%	129,260	-5.3%		
FY11	2,892,390	89,695	33,923	123,619	-9.4%	96.1%	100.4%	120,234	-11.9%		
FY12	2,892,390	85,067	35,571	120,638	-11.6%	116.1%	98.6%	133,842	-1.9%		
FY13	3,001,171	92,892	34,815	127,707	-6.4%	98.3%	100.0%	126,174	-7.5%		
FY14	3,001,171	102,450	34,326	136,776	0.2%	88.0%	100.5%	124,702	-8.6%		
FY15	3,126,330	89,692	32,045	121,737	-10.8%	94.7%	100.3%	117,077	-14.2%		
FY16	3,259,189	78,674	30,631	109,306	-19.9%	108.6%	99.3%	115,877	-15.1%		



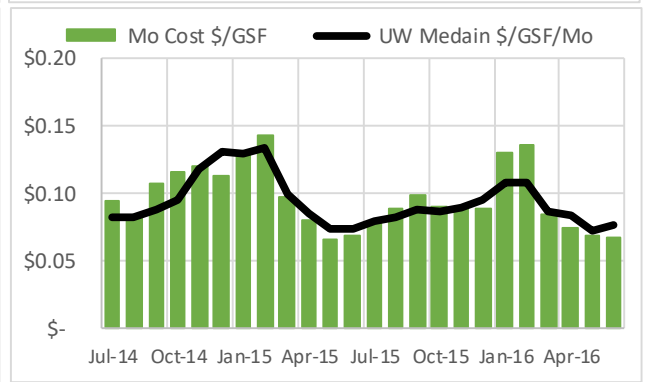
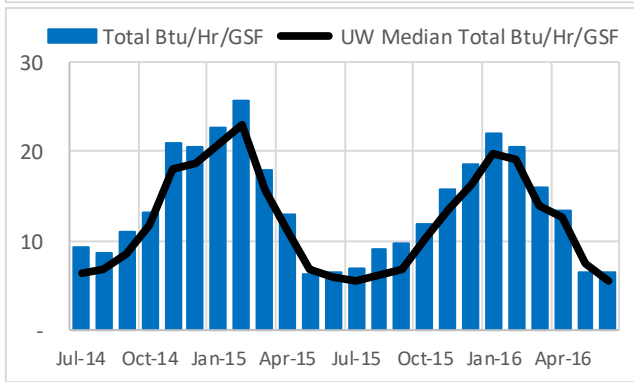
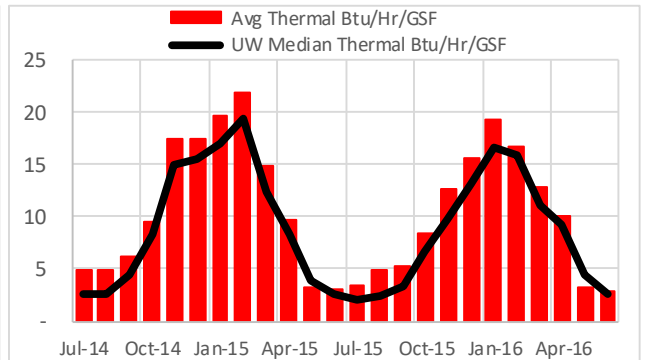
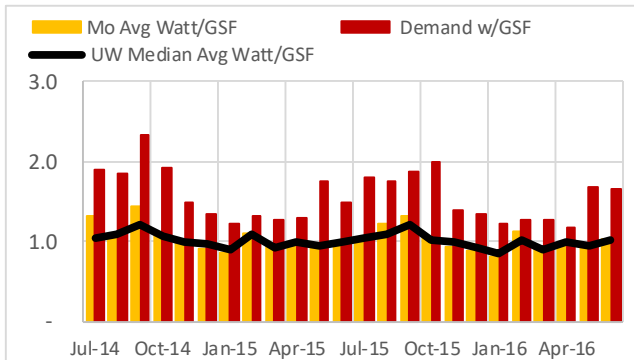
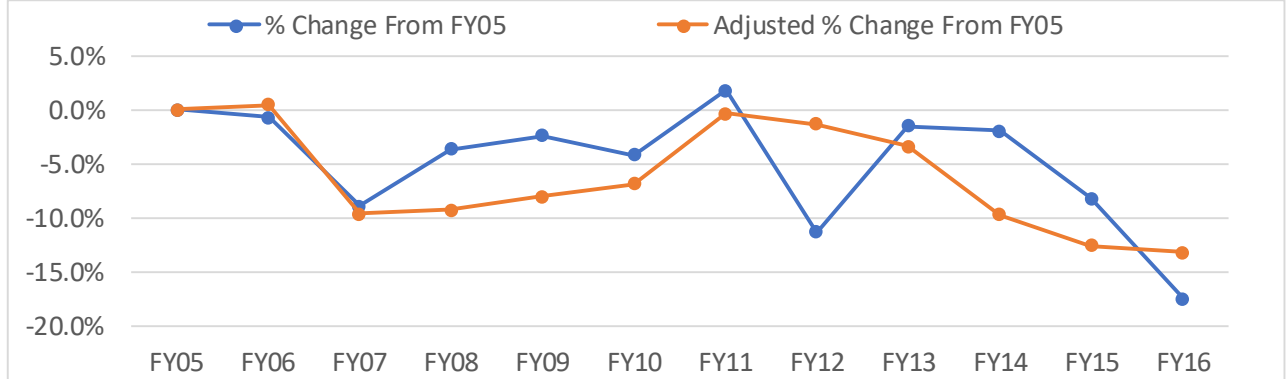
### Fiscal Year 2016 State Facilities Energy Report - UW\_Parkside

Electric kwh/GSF =		11.37		Therm/GSF =		0.94		Total Btu/GSF =		133,005	
Electric \$/GSF =		\$ 1.04		Thermal \$/GSF =		\$ 0.34		Energy \$/GSF =		\$ 1.38	
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05	Weather Thermal Adjusted to FY05	Weather Electric Adjusted to FY05	Total Weather Adjusted Btu/GSF	Adjusted % Change From FY05		
FY05	1,132,766	97,238	48,885	146,123	0.0%	100.0%	100.0%	146,123	0.0%		
FY06	1,135,611	92,933	48,494	141,428	-3.2%	103.3%	98.2%	143,591	-1.7%		
FY07	1,135,611	92,812	47,413	140,224	-4.0%	100.5%	99.1%	140,275	-4.0%		
FY08	1,135,611	96,311	47,038	143,349	-1.9%	96.8%	98.9%	139,757	-4.4%		
FY09	1,191,207	95,784	44,059	139,843	-4.3%	95.7%	99.4%	135,432	-7.3%		
FY10	1,190,505	91,337	42,696	134,033	-8.3%	101.8%	99.8%	135,620	-7.2%		
FY11	1,190,505	99,535	43,573	143,108	-2.1%	97.2%	98.5%	139,670	-4.4%		
FY12	1,262,322	86,719	43,465	130,183	-10.9%	110.6%	97.5%	138,317	-5.3%		
FY13	1,262,322	97,434	40,419	137,853	-5.7%	98.6%	99.0%	136,081	-6.9%		
FY14	1,262,322	106,314	40,203	146,517	0.3%	90.2%	99.0%	135,691	-7.1%		
FY15	1,262,322	104,554	39,040	143,595	-1.7%	94.0%	100.8%	137,637	-5.8%		
FY16	1,262,322	94,192	38,812	133,005	-9.0%	105.5%	98.4%	137,557	-5.9%		



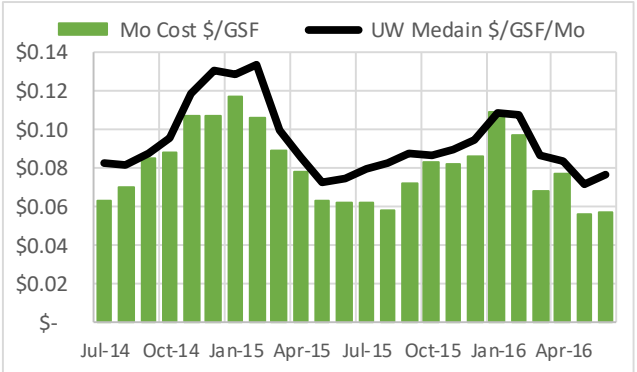
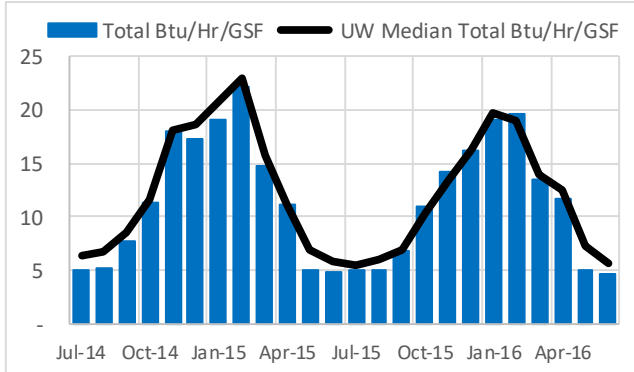
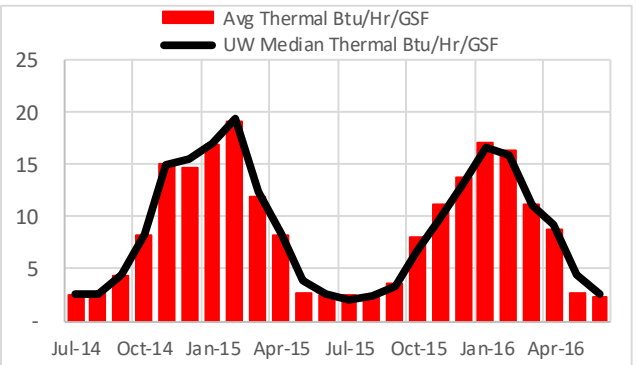
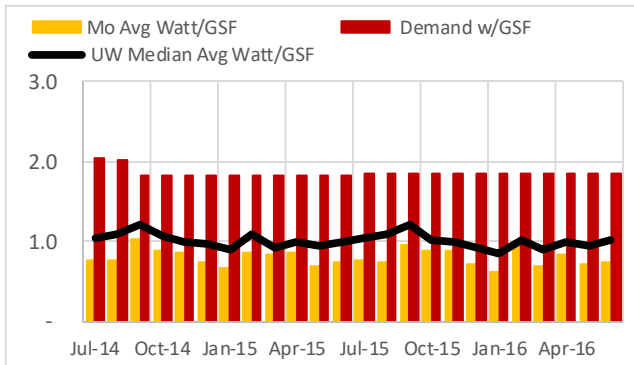
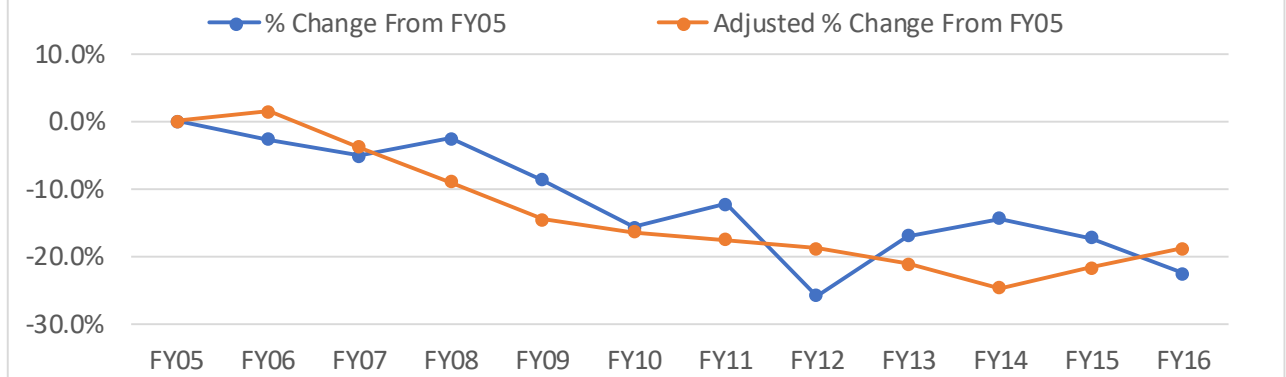
### Fiscal Year 2016 State Facilities Energy Report - UW\_Platteville

Electric kwh/GSF =		8.94		Therm/GSF =		0.84		Total Btu/GSF =		114,766	
Electric \$/GSF =		\$ 0.73		Thermal \$/GSF =		\$ 0.36		Energy \$/GSF =		\$ 1.09	
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05	Weather Thermal Adjusted to FY05	Weather Electric Adjusted to FY05	Total Weather Adjusted Btu/GSF	Adjusted % Change From FY05		
FY05	1,767,380	103,200	36,016	139,216	0.0%	100.0%	100.0%	139,216	0.0%		
FY06	1,754,450	101,158	37,098	138,256	-0.7%	101.7%	99.8%	139,881	0.5%		
FY07	1,905,950	91,622	35,117	126,739	-9.0%	99.0%	99.9%	125,826	-9.6%		
FY08	1,951,401	98,076	36,032	134,108	-3.7%	92.1%	100.0%	126,325	-9.3%		
FY09	2,051,105	99,652	36,238	135,890	-2.4%	92.0%	100.3%	128,011	-8.0%		
FY10	2,051,105	95,342	37,995	133,337	-4.2%	95.9%	100.5%	129,598	-6.9%		
FY11	2,070,851	103,837	37,815	141,652	1.8%	97.3%	99.7%	138,718	-0.4%		
FY12	2,070,851	88,288	35,073	123,361	-11.4%	116.8%	97.8%	137,404	-1.3%		
FY13	2,070,851	103,588	33,516	137,104	-1.5%	97.8%	98.8%	134,435	-3.4%		
FY14	2,244,485	104,542	31,937	136,478	-2.0%	90.0%	99.0%	125,703	-9.7%		
FY15	2,244,485	96,423	31,305	127,728	-8.3%	93.5%	100.3%	121,604	-12.7%		
FY16	2,244,485	84,267	30,498	114,766	-17.6%	107.4%	99.2%	120,726	-13.3%		



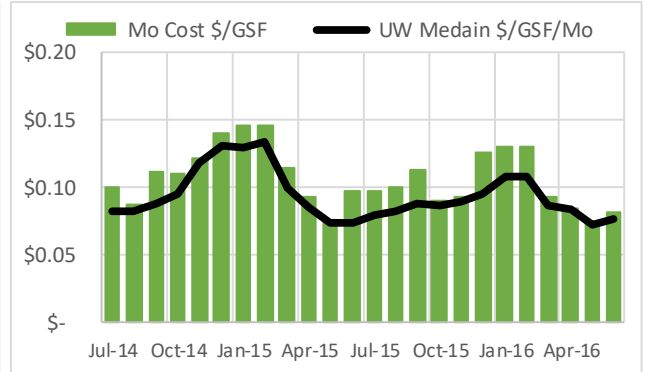
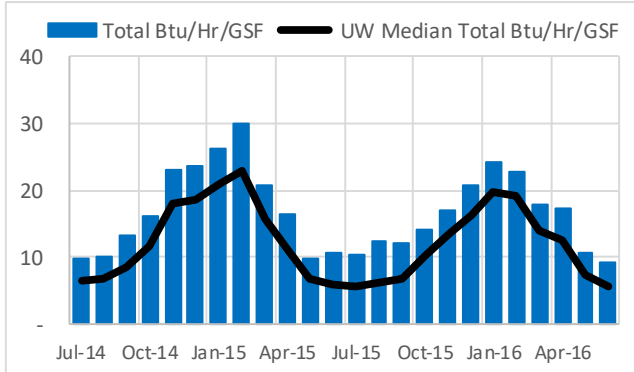
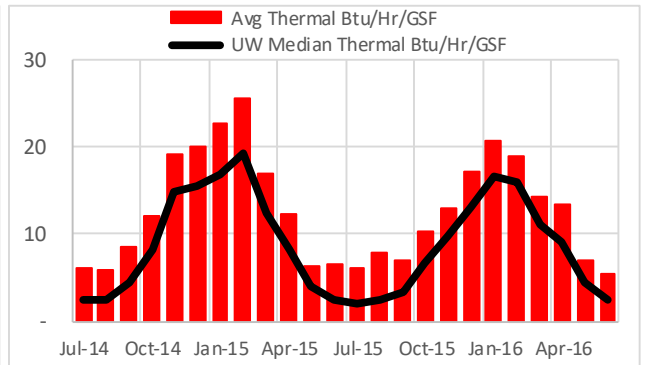
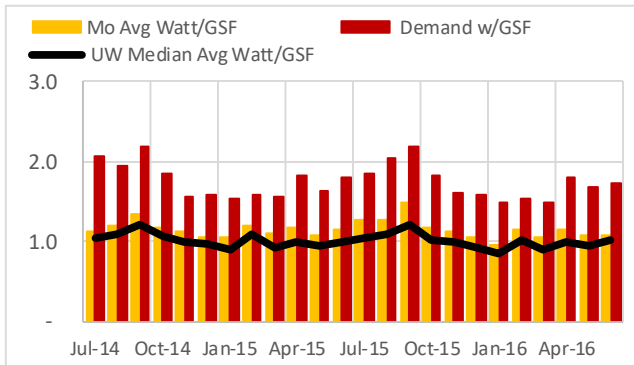
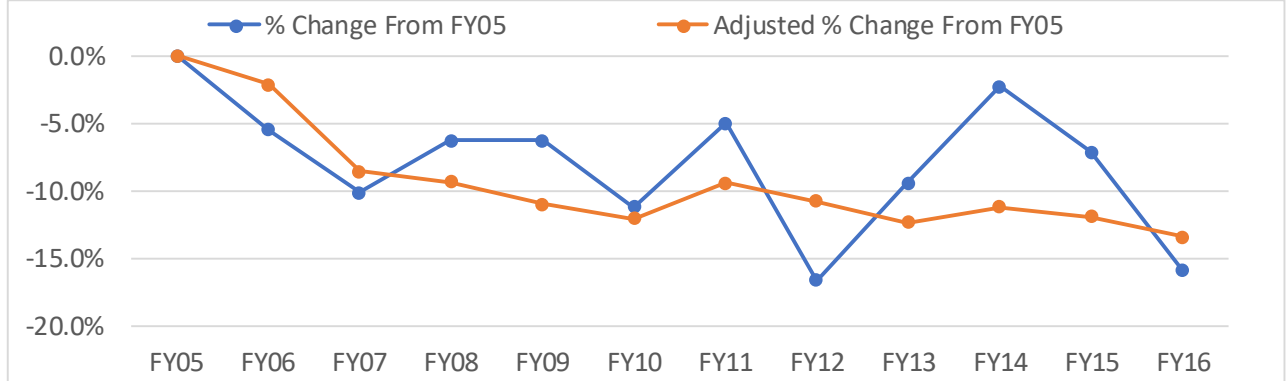
### Fiscal Year 2016 State Facilities Energy Report - UW\_River Falls

Electric kwh/GSF =		6.89		Therm/GSF =		0.73		Total Btu/GSF =		96,413	
Electric \$/GSF =		\$ 0.63		Thermal \$/GSF =		\$ 0.27		Energy \$/GSF =		\$ 0.91	
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05	Weather Thermal Adjusted to FY05	Weather Electric Adjusted to FY05	Total Weather Adjusted Btu/GSF	Adjusted % Change From FY05		
FY05	1,493,198	92,456	32,102	124,558	0.0%	100.0%	100.0%	124,558	0.0%		
FY06	1,539,790	89,293	31,876	121,169	-2.7%	105.9%	99.7%	126,331	1.4%		
FY07	1,685,846	87,694	30,484	118,178	-5.1%	101.7%	100.1%	119,669	-3.9%		
FY08	1,683,720	91,485	29,871	121,356	-2.6%	91.1%	100.6%	113,394	-9.0%		
FY09	1,686,708	85,604	28,108	113,712	-8.7%	91.0%	101.3%	106,399	-14.6%		
FY10	1,686,708	78,074	26,846	104,920	-15.8%	98.8%	100.1%	104,008	-16.5%		
FY11	1,686,708	82,623	26,635	109,259	-12.3%	91.5%	101.2%	102,548	-17.7%		
FY12	1,766,458	66,615	25,643	92,258	-25.9%	113.5%	99.4%	101,074	-18.9%		
FY13	1,769,312	77,503	25,774	103,277	-17.1%	93.3%	100.4%	98,206	-21.2%		
FY14	1,769,312	81,313	25,204	106,516	-14.5%	83.8%	101.3%	93,647	-24.8%		
FY15	1,769,312	78,935	24,038	102,973	-17.3%	92.9%	100.5%	97,469	-21.7%		
FY16	1,769,312	72,883	23,530	96,413	-22.6%	106.4%	99.6%	100,979	-18.9%		



### Fiscal Year 2016 State Facilities Energy Report - UW\_Stevens Point

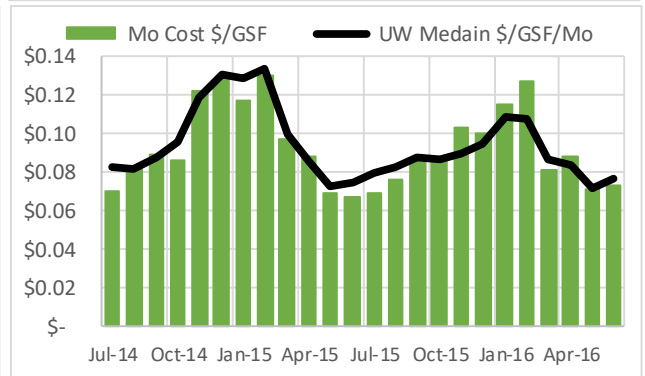
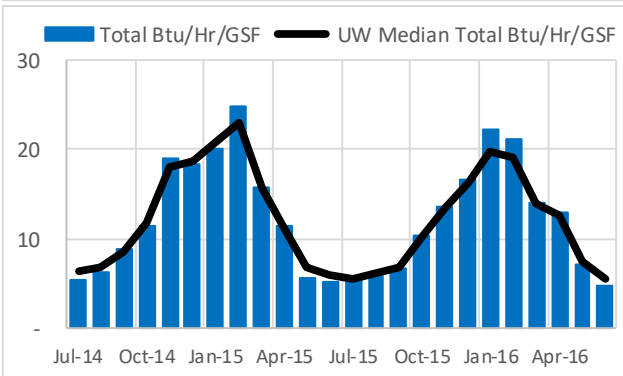
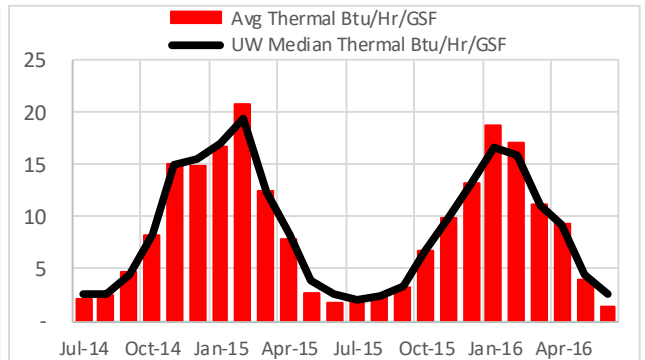
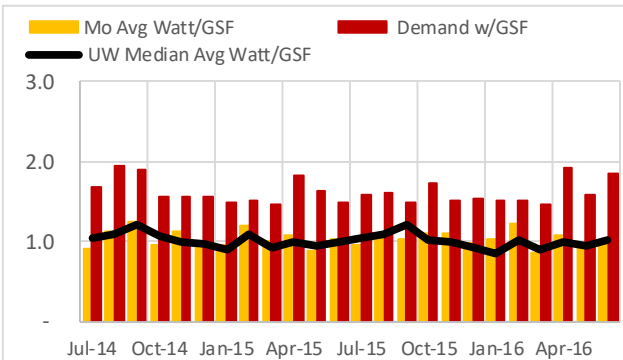
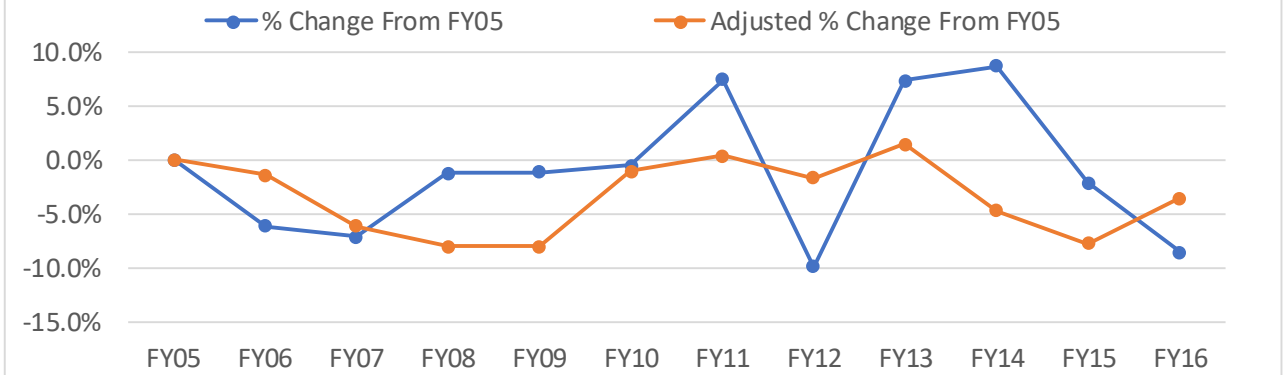
Electric kwh/GSF = 10.11		Therm/GSF = 1.03		Total Btu/GSF = 137,961					
Electric \$/GSF = \$ 0.72		Thermal \$/GSF = \$ 0.48		Energy \$/GSF = \$ 1.21					
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05	Weather Thermal Adjusted to FY05	Weather Electric Adjusted to FY05	Total Weather Adjusted Btu/GSF	Adjusted % Change From FY05
FY05	2,335,965	128,082	36,054	164,136	0.0%	100.0%	100.0%	164,136	0.0%
FY06	2,460,496	119,379	35,690	155,069	-5.5%	104.7%	99.7%	160,596	-2.2%
FY07	2,460,496	113,304	34,134	147,438	-10.2%	102.4%	99.9%	150,076	-8.6%
FY08	2,493,729	118,947	34,919	153,866	-6.3%	95.6%	100.3%	148,746	-9.4%
FY09	2,493,729	119,936	33,824	153,759	-6.3%	93.3%	100.9%	146,070	-11.0%
FY10	2,453,362	111,437	34,311	145,749	-11.2%	98.7%	100.1%	144,303	-12.1%
FY11	2,463,548	119,930	36,059	155,989	-5.0%	93.6%	100.7%	148,615	-9.5%
FY12	2,629,769	101,883	34,846	136,730	-16.7%	110.0%	98.6%	146,430	-10.8%
FY13	2,629,769	114,526	34,093	148,618	-9.5%	95.7%	100.3%	143,772	-12.4%
FY14	2,629,769	125,931	34,522	160,454	-2.2%	88.3%	100.2%	145,753	-11.2%
FY15	2,629,769	118,090	34,294	152,384	-7.2%	93.3%	100.3%	144,570	-11.9%
FY16	2,629,769	103,469	34,492	137,961	-15.9%	104.1%	99.6%	142,087	-13.4%





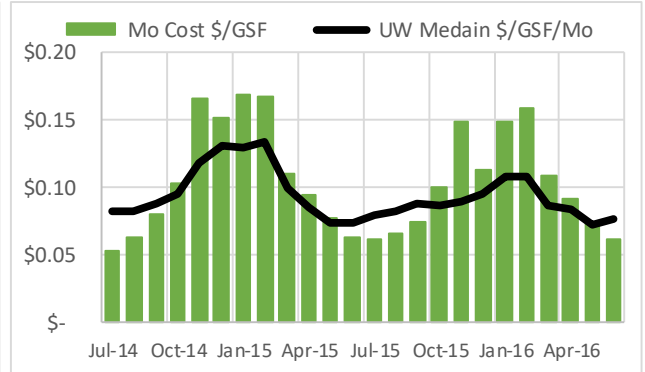
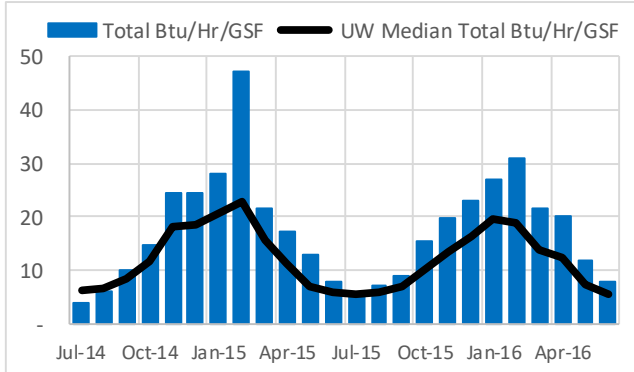
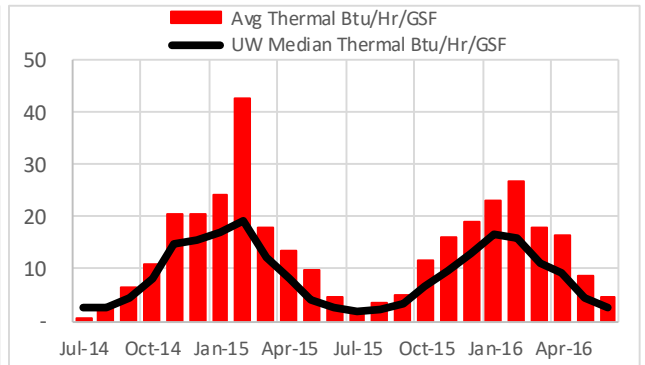
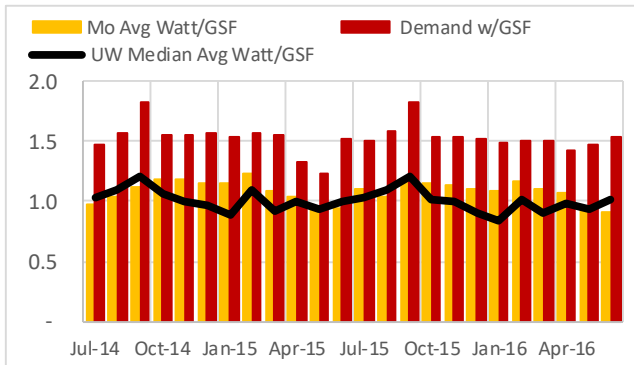
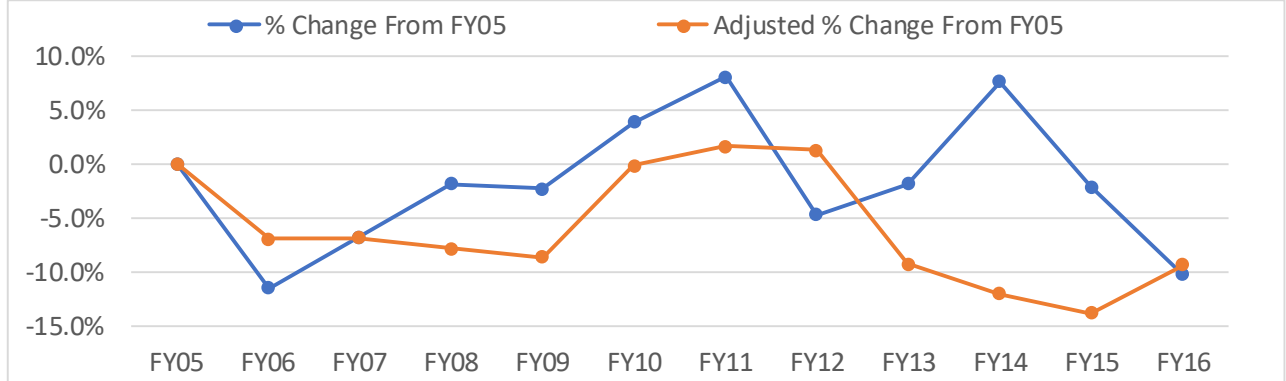
### Fiscal Year 2016 State Facilities Energy Report - UW\_Stout

Electric kwh/GSF =		9.02		Therm/GSF =		0.73		Total Btu/GSF =		103,300	
Electric \$/GSF =		\$ 0.76		Thermal \$/GSF =		\$ 0.31		Energy \$/GSF =		\$ 1.08	
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05	Weather Thermal Adjusted to FY05	Weather Electric Adjusted to FY05	Total Weather Adjusted Btu/GSF	Adjusted % Change From FY05		
FY05	2,162,886	80,464	32,598	113,062	0.0%	100.0%	100.0%	113,062	0.0%		
FY06	2,307,775	73,849	32,191	106,040	-6.2%	107.4%	99.9%	111,458	-1.4%		
FY07	2,308,975	74,375	30,537	104,912	-7.2%	101.6%	100.0%	106,123	-6.1%		
FY08	2,308,426	81,706	29,957	111,663	-1.2%	90.5%	100.1%	103,917	-8.1%		
FY09	2,326,439	81,821	29,965	111,787	-1.1%	90.2%	100.5%	103,919	-8.1%		
FY10	2,326,439	80,831	31,640	112,471	-0.5%	99.2%	100.0%	111,832	-1.1%		
FY11	2,433,320	90,058	31,345	121,403	7.4%	91.1%	100.3%	113,442	0.3%		
FY12	2,443,351	70,805	31,036	101,842	-9.9%	113.1%	100.2%	111,155	-1.7%		
FY13	2,446,059	88,850	32,537	121,387	7.4%	92.6%	99.7%	114,719	1.5%		
FY14	2,448,864	92,099	30,742	122,841	8.6%	84.2%	97.8%	107,657	-4.8%		
FY15	2,448,864	79,516	31,070	110,586	-2.2%	92.3%	99.3%	104,233	-7.8%		
FY16	2,452,414	72,518	30,781	103,300	-8.6%	107.7%	100.3%	108,977	-3.6%		



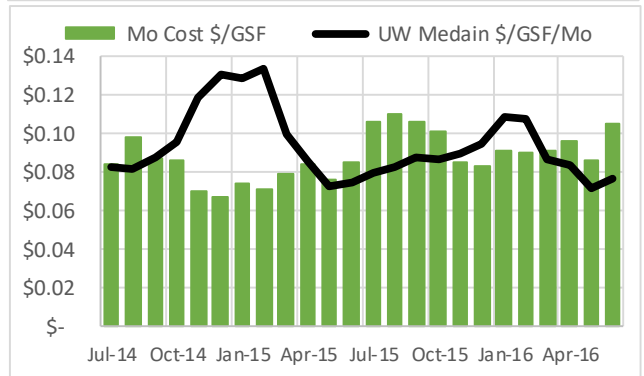
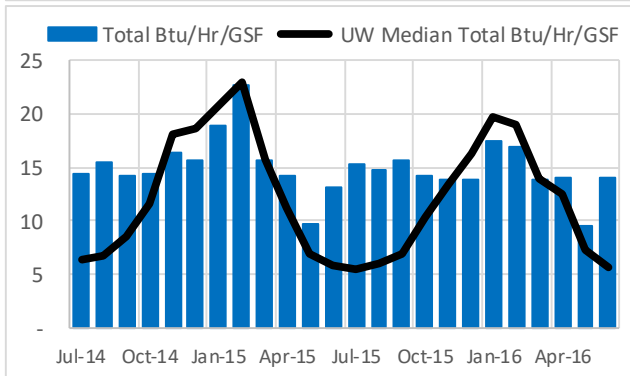
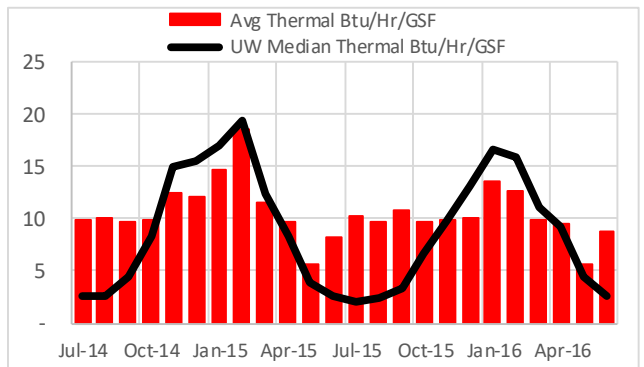
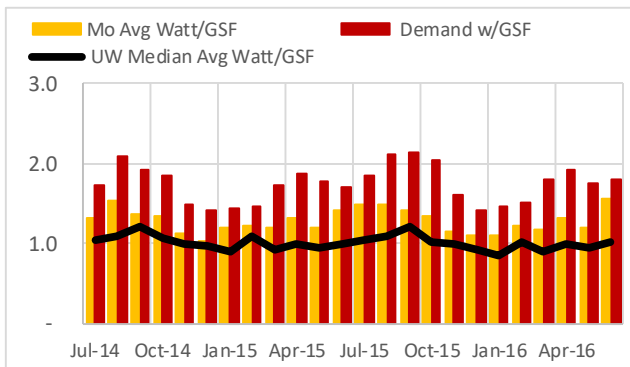
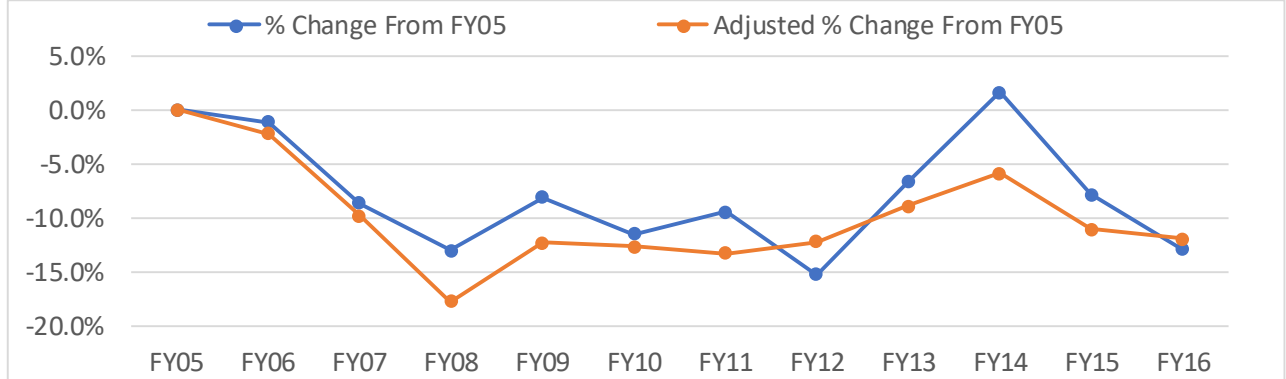
### Fiscal Year 2016 State Facilities Energy Report - UW\_Superior

Electric kwh/GSF =		9.53		Therm/GSF =		1.13		Total Btu/GSF =		145,328	
Electric \$/GSF =		\$ 0.67		Thermal \$/GSF =		\$ 0.54		Energy \$/GSF =		\$ 1.20	
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05	Weather Thermal Adjusted to FY05	Weather Electric Adjusted to FY05	Total Weather Adjusted Btu/GSF	Adjusted % Change From FY05		
FY05	1,076,728	131,188	30,821	162,010	0.0%	100.0%	100.0%	162,010	0.0%		
FY06	1,100,416	113,499	29,731	143,231	-11.6%	106.4%	100.8%	150,759	-6.9%		
FY07	1,100,416	121,638	29,318	150,955	-6.8%	99.9%	100.0%	150,879	-6.9%		
FY08	1,100,416	128,998	29,891	158,890	-1.9%	92.7%	99.5%	149,284	-7.9%		
FY09	1,100,416	127,933	30,306	158,239	-2.3%	92.1%	99.2%	147,955	-8.7%		
FY10	1,032,741	134,981	33,276	168,257	3.9%	95.4%	99.1%	161,679	-0.2%		
FY11	1,032,741	142,386	32,616	175,002	8.0%	92.9%	99.3%	164,611	1.6%		
FY12	1,086,193	119,692	34,618	154,310	-4.8%	107.9%	100.7%	163,972	1.2%		
FY13	1,088,749	125,807	33,202	159,009	-1.9%	90.6%	99.1%	146,921	-9.3%		
FY14	1,101,473	143,147	31,176	174,323	7.6%	77.9%	99.1%	142,449	-12.1%		
FY15	1,101,473	125,867	32,585	158,452	-2.2%	85.3%	98.9%	139,588	-13.8%		
FY16	1,120,382	112,817	32,511	145,328	-10.3%	101.3%	100.1%	146,835	-9.4%		



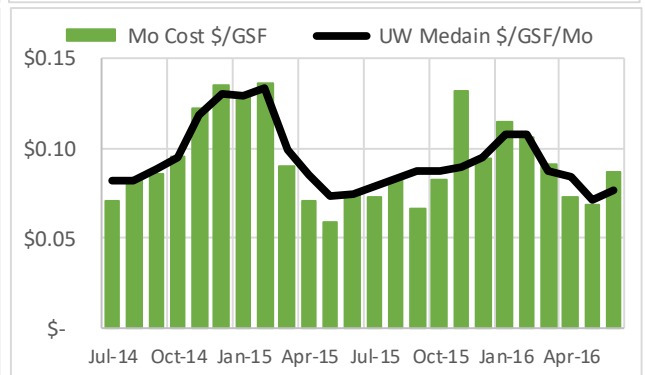
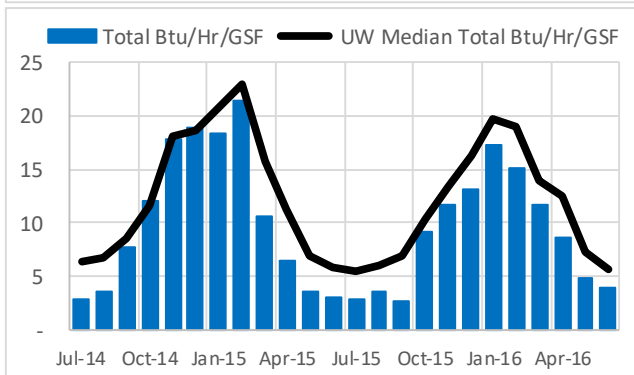
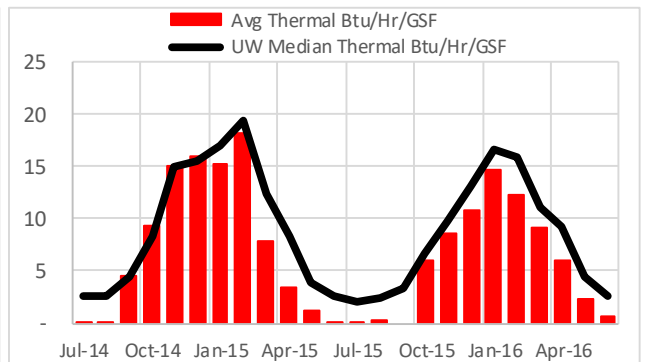
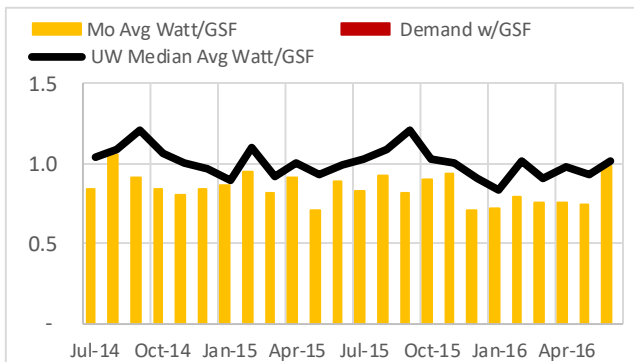
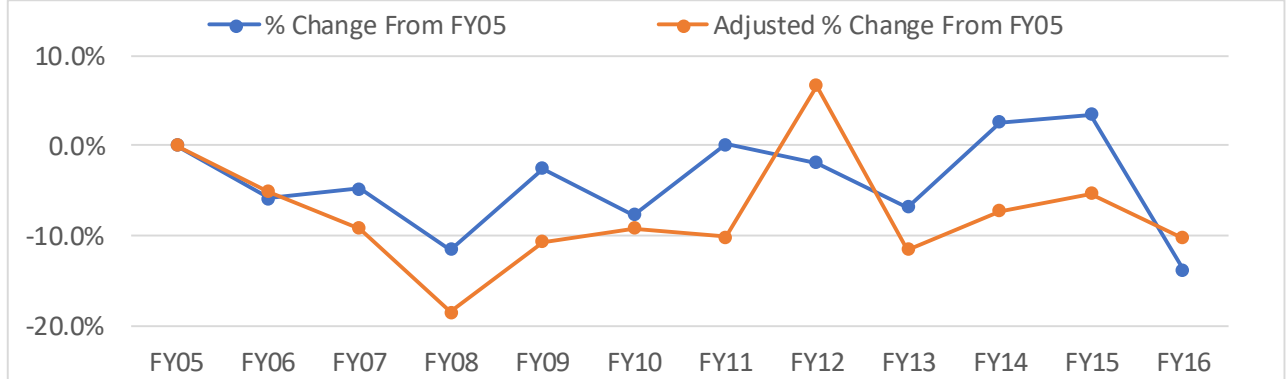
### Fiscal Year 2016 State Facilities Energy Report - UW\_Whitewater

Electric kwh/GSF = 11.41		Therm/GSF = 0.88		Total Btu/GSF = 126,940					
Electric \$/GSF = \$ 0.98		Thermal \$/GSF = \$ 0.17		Energy \$/GSF = \$ 1.15					
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05	Weather Thermal Adjusted to FY05	Weather Electric Adjusted to FY05	Total Weather Adjusted Btu/GSF	Adjusted % Change From FY05
FY05	2,558,663	110,212	35,656	145,867	0.0%	100.0%	100.0%	145,867	0.0%
FY06	2,642,094	108,536	35,654	144,190	-1.2%	98.5%	100.1%	142,650	-2.2%
FY07	2,531,040	94,691	38,580	133,272	-8.6%	98.1%	100.1%	131,534	-9.8%
FY08	2,535,623	88,592	38,164	126,756	-13.1%	92.5%	99.6%	119,956	-17.8%
FY09	2,535,623	95,991	37,999	133,991	-8.1%	93.6%	100.0%	127,817	-12.4%
FY10	2,714,423	90,988	38,106	129,094	-11.5%	98.0%	100.4%	127,394	-12.7%
FY11	2,922,323	93,720	38,257	131,976	-9.5%	94.2%	99.9%	126,464	-13.3%
FY12	2,930,608	85,675	37,935	123,611	-15.3%	105.6%	98.7%	127,960	-12.3%
FY13	2,942,875	98,566	37,566	136,132	-6.7%	96.6%	100.1%	132,847	-8.9%
FY14	2,942,875	109,922	38,307	148,229	1.6%	90.2%	99.6%	137,310	-5.9%
FY15	2,942,875	96,322	38,031	134,352	-7.9%	95.1%	100.1%	129,650	-11.1%
FY16	2,942,875	87,999	38,941	126,940	-13.0%	101.9%	99.4%	128,359	-12.0%



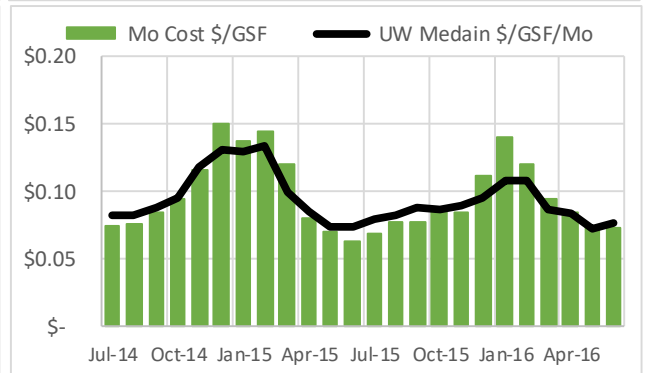
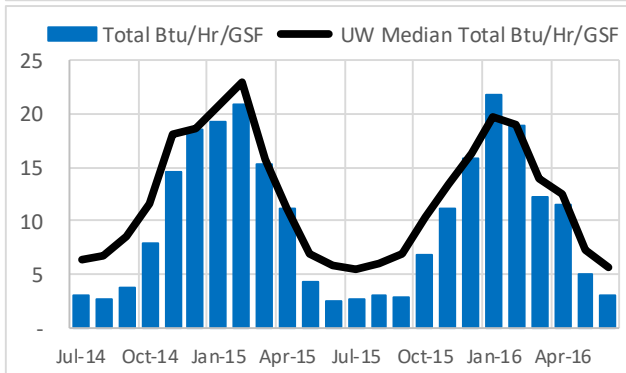
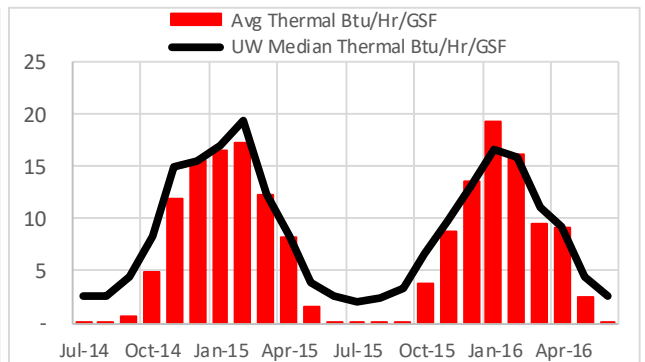
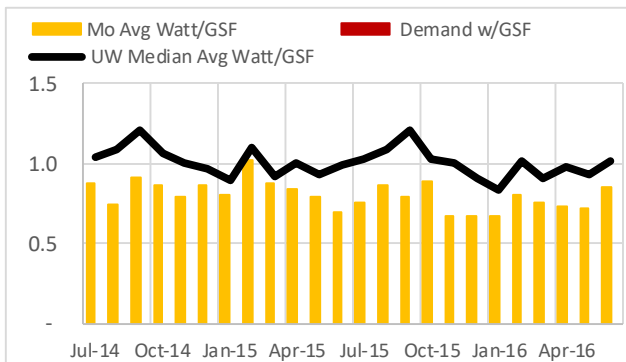
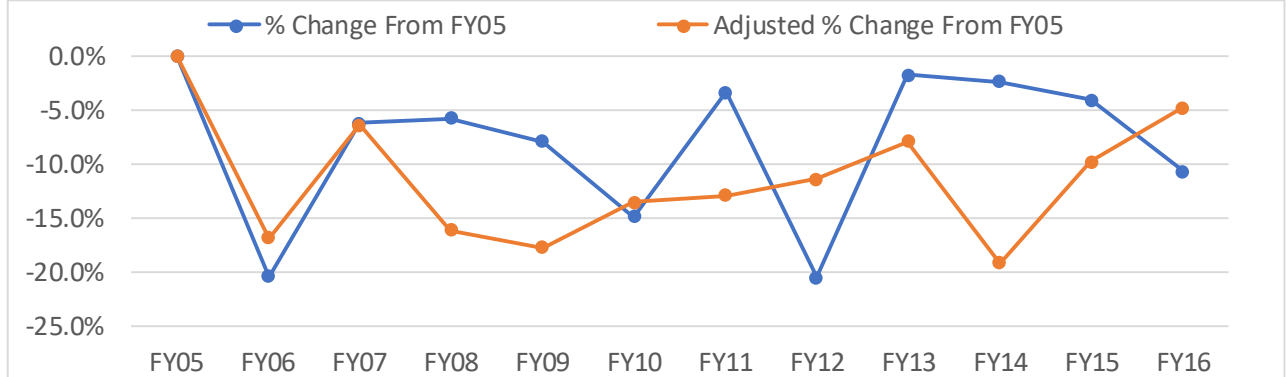
### Fiscal Year 2016 State Facilities Energy Report - UW\_Baraboo

Electric kwh/GSF =		7.23		Therm/GSF =		0.52		Total Btu/GSF =		76,524	
Electric \$/GSF =		\$ 0.81		Thermal \$/GSF =		\$ 0.26		Energy \$/GSF =		\$ 1.07	
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05	Weather Thermal Adjusted to FY05	Weather Electric Adjusted to FY05	Total Weather Adjusted Btu/GSF	Adjusted % Change From FY05		
FY05	150,015	60,075	28,748	88,823	0.0%	100.0%	100.0%	88,823	0.0%		
FY06	150,015	54,757	28,857	83,615	-5.9%	101.6%	99.2%	84,238	-5.2%		
FY07	150,015	57,135	27,415	84,550	-4.8%	93.3%	99.7%	80,653	-9.2%		
FY08	150,015	48,670	29,922	78,592	-11.5%	87.3%	99.9%	72,381	-18.5%		
FY09	150,015	56,230	30,295	86,525	-2.6%	87.1%	100.2%	79,357	-10.7%		
FY10	151,015	52,354	29,593	81,947	-7.7%	97.5%	100.1%	80,652	-9.2%		
FY11	151,015	55,820	33,110	88,929	0.1%	84.6%	98.3%	79,780	-10.2%		
FY12	151,015	52,615	34,488	87,103	-1.9%	115.3%	98.9%	94,782	6.7%		
FY13	151,015	53,076	29,661	82,736	-6.9%	92.7%	98.9%	78,512	-11.6%		
FY14	151,015	65,370	25,787	91,157	2.6%	86.5%	100.1%	82,333	-7.3%		
FY15	151,015	65,936	25,972	91,909	3.5%	88.5%	99.2%	84,124	-5.3%		
FY16	165,615	51,856	24,668	76,524	-13.8%	106.3%	99.5%	79,679	-10.3%		



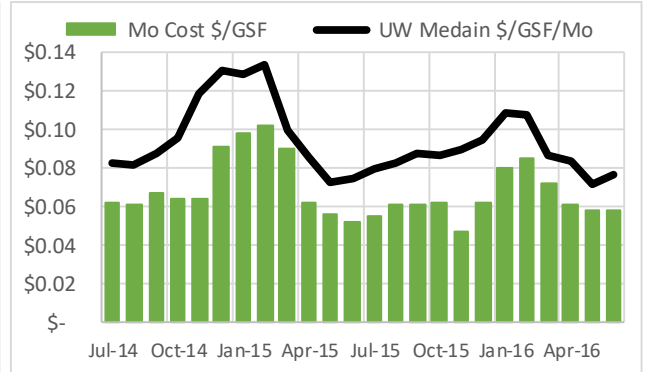
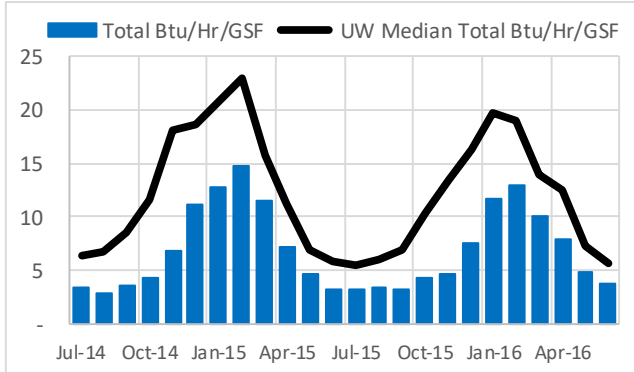
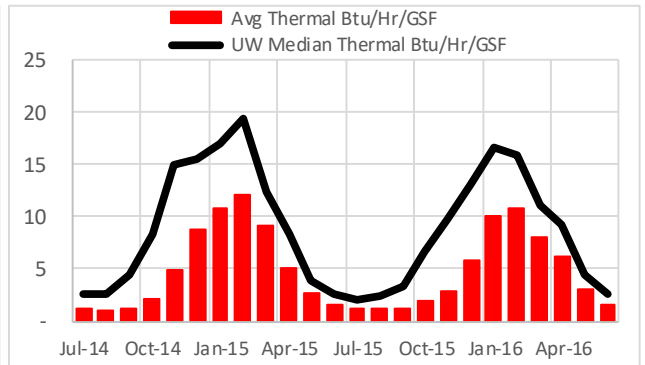
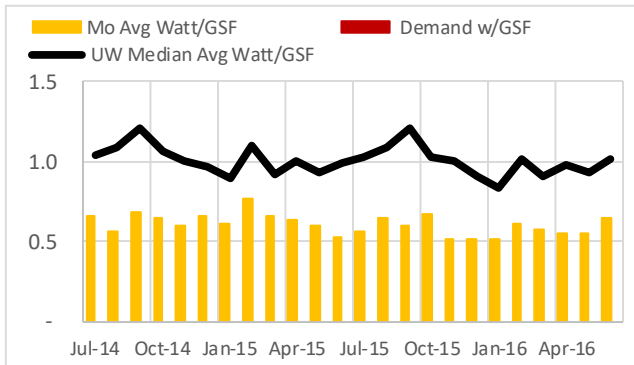
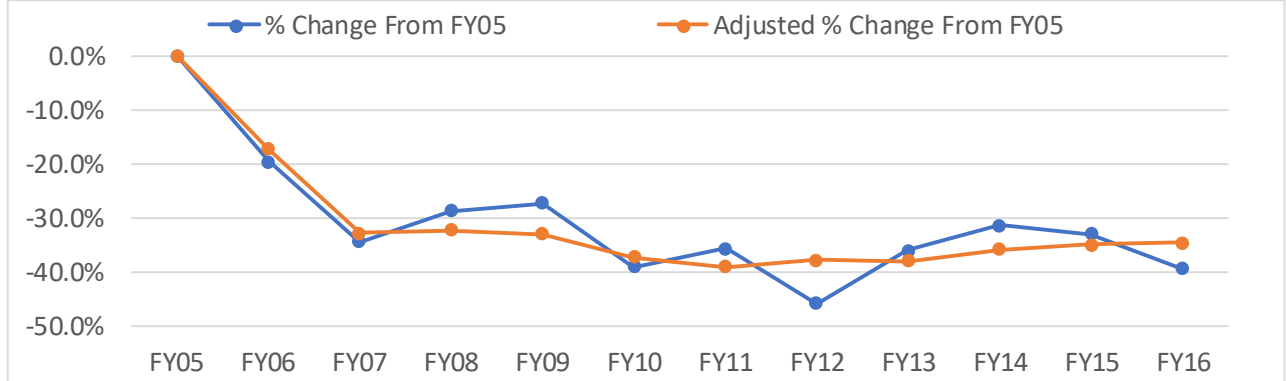
### Fiscal Year 2016 State Facilities Energy Report - UW\_Barron

Electric kwh/GSF =		6.71		Therm/GSF =		0.61		Total Btu/GSF =		83,872	
Electric \$/GSF =		\$ 0.74		Thermal \$/GSF =		\$ 0.35		Energy \$/GSF =		\$ 1.09	
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05	Weather Thermal Adjusted to FY05	Weather Electric Adjusted to FY05	Total Weather Adjusted Btu/GSF	Adjusted % Change From FY05		
FY05	146,683	68,961	24,959	93,920	0.0%	100.0%	100.0%	93,920	0.0%		
FY06	146,683	50,219	24,449	74,668	-20.5%	105.9%	101.8%	78,062	-16.9%		
FY07	146,683	59,577	28,442	88,019	-6.3%	99.5%	100.7%	87,917	-6.4%		
FY08	146,683	62,206	26,231	88,437	-5.8%	83.8%	101.3%	78,739	-16.2%		
FY09	146,683	60,882	25,582	86,463	-7.9%	84.7%	100.5%	77,250	-17.7%		
FY10	146,683	55,335	24,564	79,899	-14.9%	102.3%	99.8%	81,121	-13.6%		
FY11	146,683	65,691	25,032	90,723	-3.4%	86.4%	99.8%	81,752	-13.0%		
FY12	146,683	50,835	23,808	74,642	-20.5%	116.6%	100.6%	83,207	-11.4%		
FY13	146,683	69,539	22,747	92,286	-1.7%	91.8%	99.6%	86,458	-7.9%		
FY14	146,683	68,763	22,880	91,642	-2.4%	76.9%	100.5%	75,833	-19.3%		
FY15	146,683	64,978	25,062	90,040	-4.1%	92.0%	99.3%	84,662	-9.9%		
FY16	146,683	60,959	22,912	83,872	-10.7%	109.2%	99.6%	89,401	-4.8%		



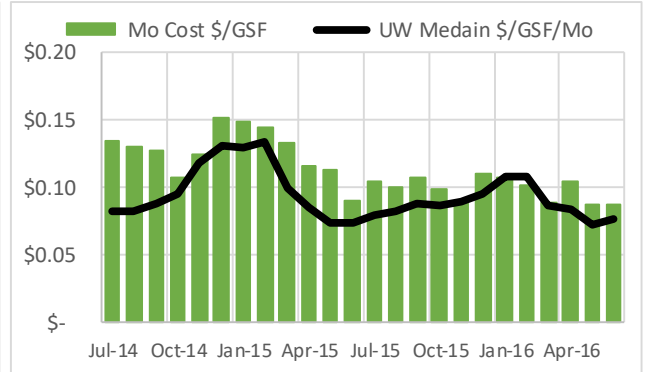
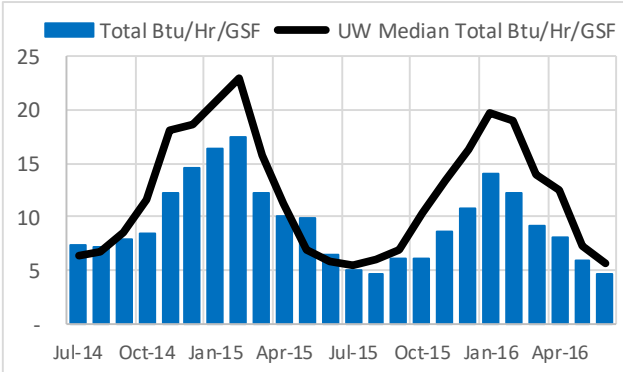
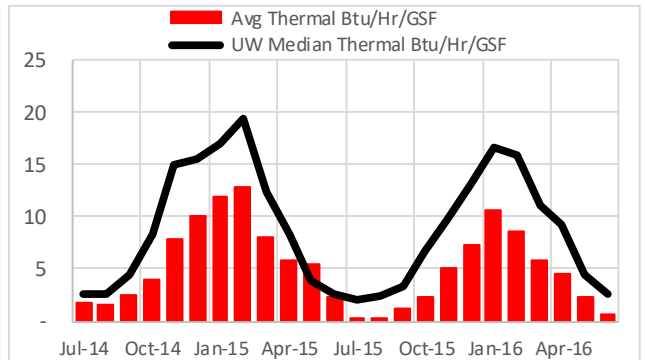
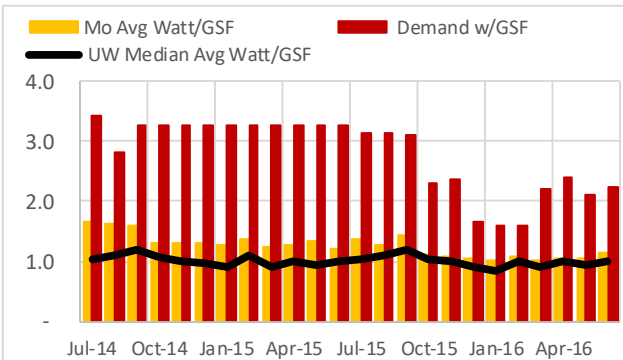
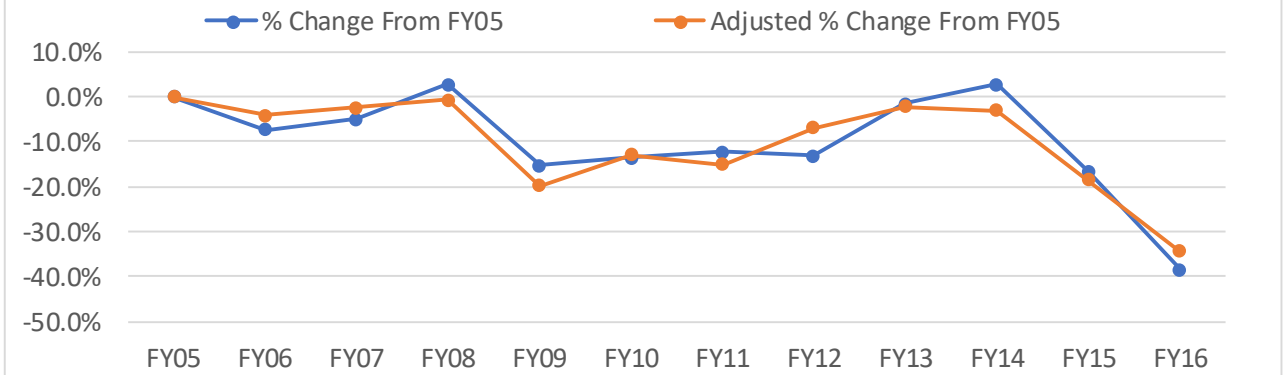
### Fiscal Year 2016 State Facilities Energy Report - UW\_Fond du Lac

Electric kwh/GSF =		5.07		Therm/GSF =		0.40		Total Btu/GSF =		56,833	
Electric \$/GSF =		\$ 0.56		Thermal \$/GSF =		\$ 0.20		Energy \$/GSF =		\$ 0.76	
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05	Weather Thermal Adjusted to FY05	Weather Electric Adjusted to FY05	Total Weather Adjusted Btu/GSF	Adjusted % Change From FY05		
FY05	194,077	57,697	36,356	94,053	0.0%	100.0%	100.0%	94,053	0.0%		
FY06	194,077	44,930	30,608	75,537	-19.7%	105.7%	98.9%	77,775	-17.3%		
FY07	194,077	36,836	24,766	61,603	-34.5%	103.9%	100.2%	63,087	-32.9%		
FY08	194,077	41,626	25,281	66,908	-28.9%	92.1%	99.7%	63,551	-32.4%		
FY09	194,077	42,786	25,535	68,320	-27.4%	87.9%	99.5%	63,019	-33.0%		
FY10	194,077	36,351	20,926	57,277	-39.1%	104.6%	99.7%	58,888	-37.4%		
FY11	194,077	39,422	21,010	60,433	-35.7%	92.0%	99.9%	57,248	-39.1%		
FY12	194,077	31,245	19,651	50,896	-45.9%	124.7%	99.0%	58,411	-37.9%		
FY13	194,077	40,447	19,644	60,091	-36.1%	95.7%	99.7%	58,276	-38.0%		
FY14	194,077	44,739	19,695	64,434	-31.5%	90.1%	101.1%	60,221	-36.0%		
FY15	194,077	44,074	18,942	63,016	-33.0%	95.7%	99.4%	61,020	-35.1%		
FY16	194,077	39,516	17,317	56,833	-39.6%	111.8%	99.6%	61,432	-34.7%		



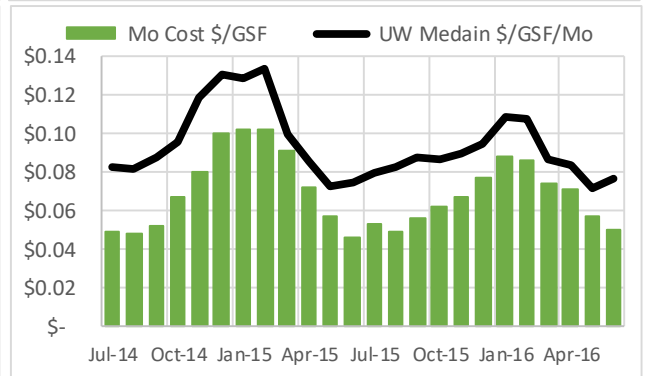
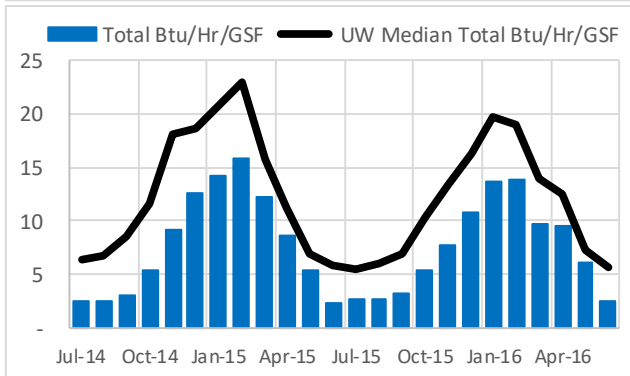
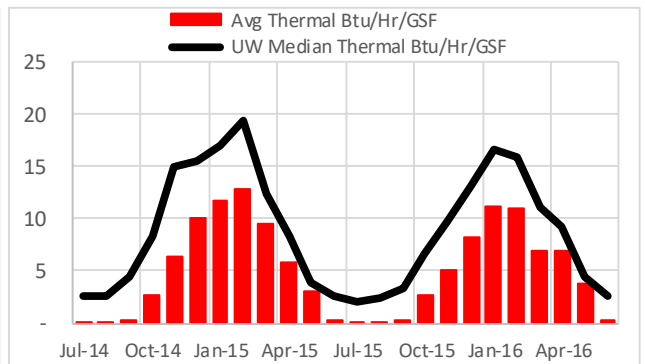
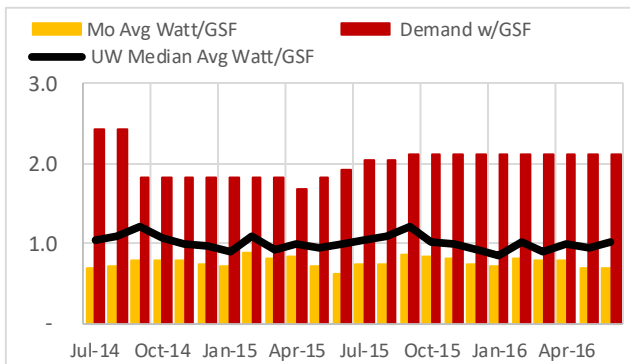
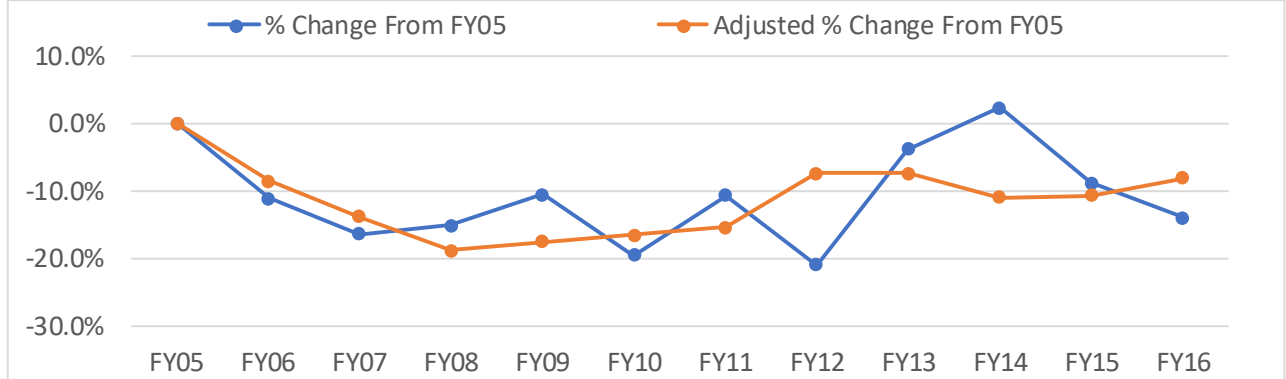
### Fiscal Year 2016 State Facilities Energy Report - UW\_Fox Valley

Electric kwh/GSF = 10.01		Therm/GSF = 0.36		Total Btu/GSF = 70,014					
Electric \$/GSF = \$ 1.06		Thermal \$/GSF = \$ 0.12		Energy \$/GSF = \$ 1.19					
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05	Weather Thermal Adjusted to FY05	Weather Electric Adjusted to FY05	Total Weather Adjusted Btu/GSF	Adjusted % Change From FY05
FY05	203,270	80,764	33,160	113,923	0.0%	100.0%	100.0%	113,923	0.0%
FY06	203,270	65,846	39,731	105,577	-7.3%	105.9%	99.2%	109,118	-4.2%
FY07	203,270	68,865	39,388	108,253	-5.0%	104.3%	99.9%	111,164	-2.4%
FY08	202,478	74,578	42,567	117,146	2.8%	94.5%	100.2%	113,159	-0.7%
FY09	272,978	59,785	36,633	96,419	-15.4%	90.7%	101.3%	91,326	-19.8%
FY10	274,078	56,536	41,976	98,513	-13.5%	101.0%	100.4%	99,271	-12.9%
FY11	274,078	57,431	42,594	100,025	-12.2%	94.4%	99.6%	96,657	-15.2%
FY12	274,078	54,816	44,063	98,879	-13.2%	114.7%	98.0%	106,057	-6.9%
FY13	274,078	65,656	46,393	112,049	-1.6%	99.2%	99.9%	111,467	-2.2%
FY14	274,078	69,664	47,498	117,161	2.8%	90.7%	99.5%	110,441	-3.1%
FY15	274,078	53,826	41,276	95,102	-16.5%	95.6%	100.0%	92,738	-18.6%
FY16	274,078	35,864	34,150	70,014	-38.5%	113.1%	99.6%	74,597	-34.5%



### Fiscal Year 2016 State Facilities Energy Report - UW\_Manitowoc

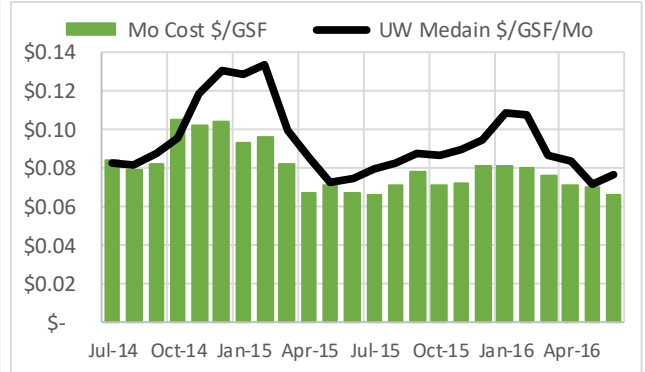
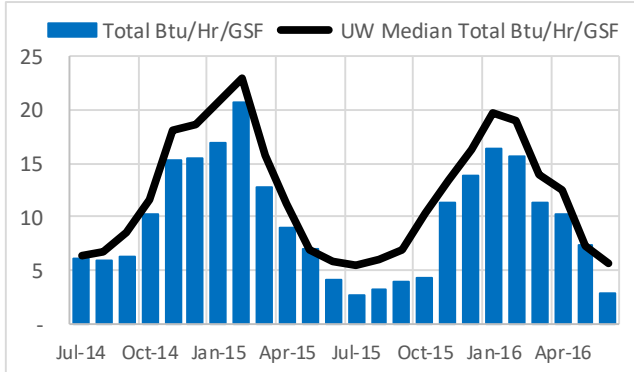
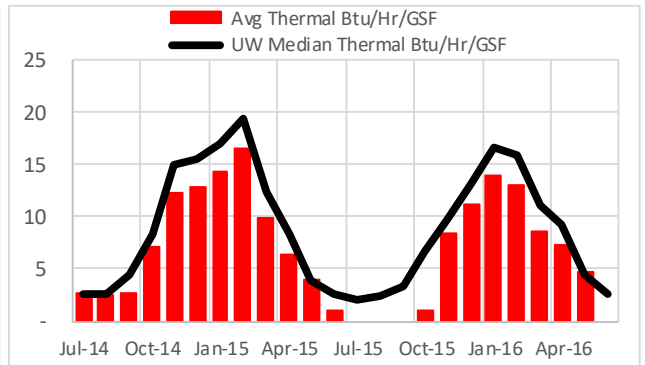
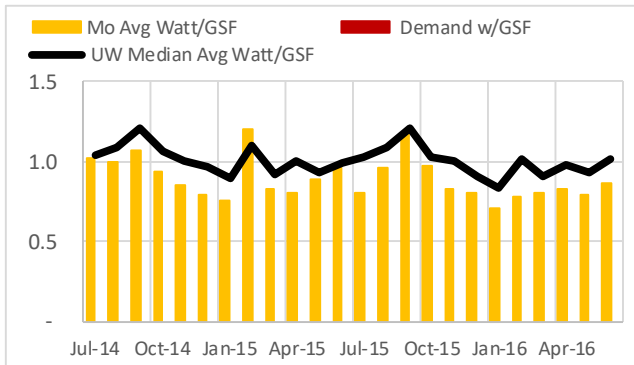
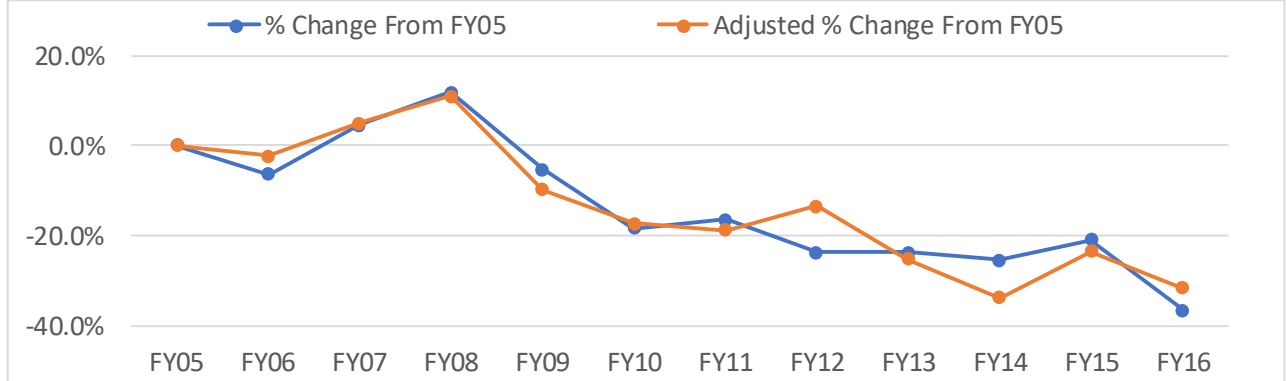
Electric kwh/GSF =		6.73		Therm/GSF =		0.42		Total Btu/GSF =		64,516	
Electric \$/GSF =		\$ 0.58		Thermal \$/GSF =		\$ 0.21		Energy \$/GSF =		\$ 0.79	
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05	Weather Thermal Adjusted to FY05	Weather Electric Adjusted to FY05	Total Weather Adjusted Btu/GSF	Adjusted % Change From FY05		
FY05	125,045	48,682	26,306	74,988	0.0%	100.0%	100.0%	74,988	0.0%		
FY06	125,045	42,486	24,105	66,591	-11.2%	104.6%	100.1%	68,578	-8.5%		
FY07	125,045	40,784	21,881	62,665	-16.4%	104.6%	100.2%	64,581	-13.9%		
FY08	125,045	41,371	22,197	63,568	-15.2%	92.8%	101.2%	60,870	-18.8%		
FY09	125,045	44,475	22,531	67,006	-10.6%	88.2%	100.4%	61,834	-17.5%		
FY10	125,045	38,761	21,552	60,313	-19.6%	106.4%	98.7%	62,513	-16.6%		
FY11	125,045	43,806	23,147	66,953	-10.7%	91.4%	101.0%	63,409	-15.4%		
FY12	125,045	35,601	23,632	59,232	-21.0%	128.4%	100.2%	69,399	-7.5%		
FY13	125,045	48,234	23,881	72,115	-3.8%	94.4%	99.8%	69,355	-7.5%		
FY14	125,045	52,936	23,815	76,751	2.4%	81.2%	99.6%	66,689	-11.1%		
FY15	125,045	45,771	22,589	68,359	-8.8%	97.0%	99.7%	66,941	-10.7%		
FY16	125,045	41,535	22,980	64,516	-14.0%	110.6%	99.7%	68,843	-8.2%		





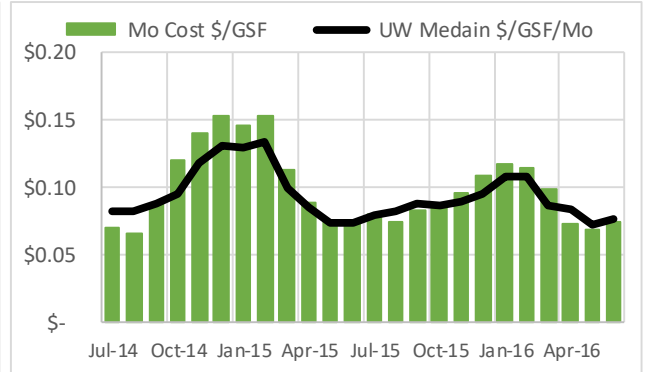
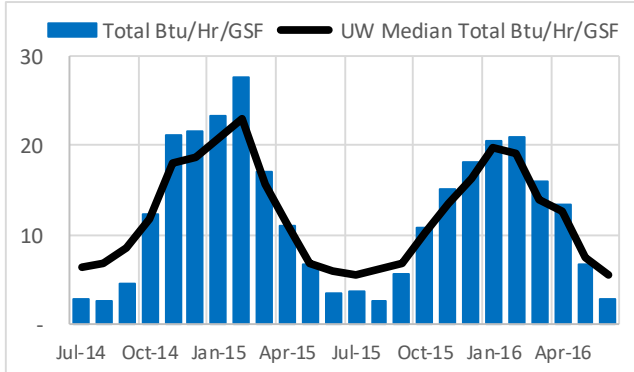
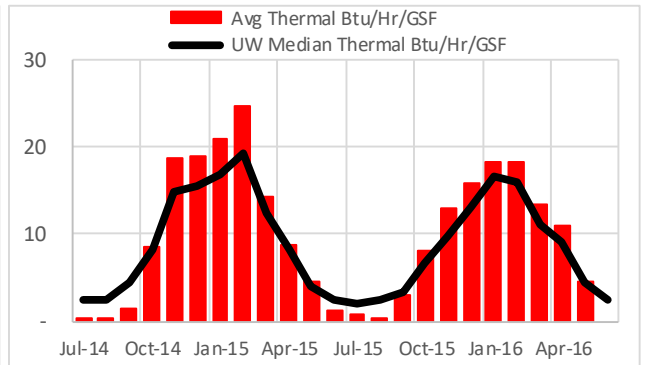
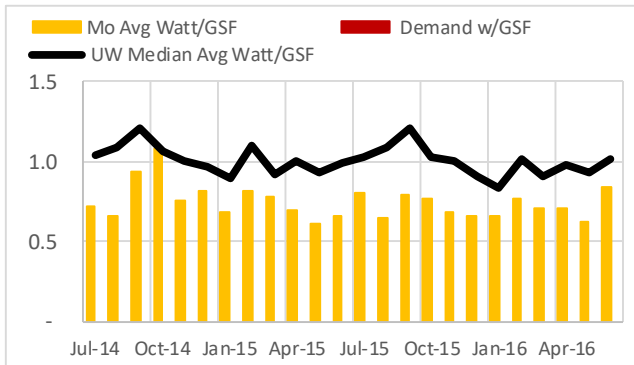
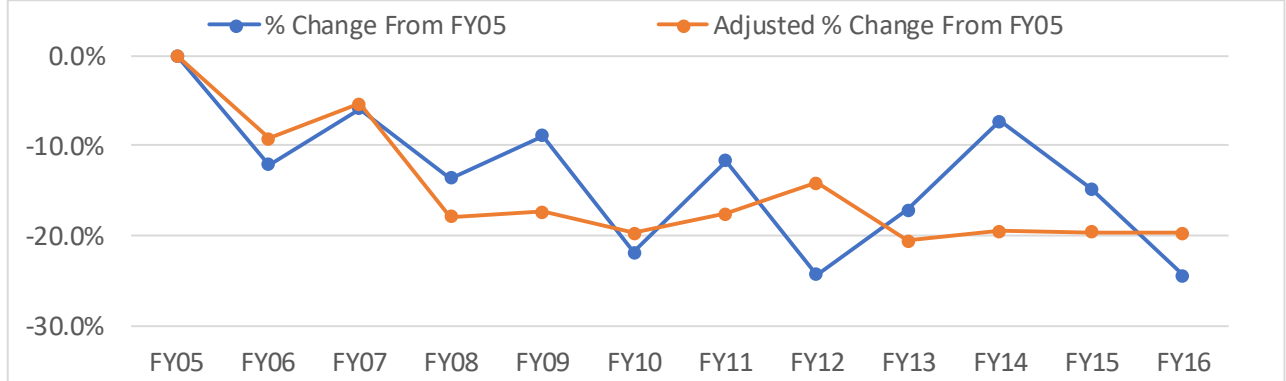
### Fiscal Year 2016 State Facilities Energy Report - UW\_Marathon

Electric kwh/GSF =		7.56		Therm/GSF =		0.50		Total Btu/GSF =		75,626	
Electric \$/GSF =		\$ 0.70		Thermal \$/GSF =		\$ 0.18		Energy \$/GSF =		\$ 0.88	
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05	Weather Thermal Adjusted to FY05	Weather Electric Adjusted to FY05	Total Weather Adjusted Btu/GSF	Adjusted % Change From FY05		
FY05	286,421	83,471	36,007	119,478	0.0%	100.0%	100.0%	119,478	0.0%		
FY06	286,421	75,819	35,945	111,764	-6.5%	106.8%	99.5%	116,694	-2.3%		
FY07	286,421	82,286	42,725	125,011	4.6%	100.5%	99.8%	125,354	4.9%		
FY08	290,650	98,146	35,457	133,604	11.8%	99.0%	99.9%	132,612	11.0%		
FY09	290,650	79,697	33,568	113,265	-5.2%	93.3%	99.5%	107,729	-9.8%		
FY10	327,695	66,441	31,002	97,443	-18.4%	101.8%	100.1%	98,664	-17.4%		
FY11	327,695	69,285	30,634	99,919	-16.4%	95.5%	100.9%	97,034	-18.8%		
FY12	327,695	59,969	31,194	91,164	-23.7%	121.5%	97.9%	103,407	-13.5%		
FY13	327,695	64,326	26,851	91,177	-23.7%	96.9%	100.0%	89,208	-25.3%		
FY14	327,695	62,455	26,642	89,097	-25.4%	83.9%	99.5%	78,905	-34.0%		
FY15	327,695	66,883	27,637	94,520	-20.9%	95.5%	99.2%	91,292	-23.6%		
FY16	327,695	49,833	25,793	75,626	-36.7%	112.6%	98.7%	81,554	-31.7%		



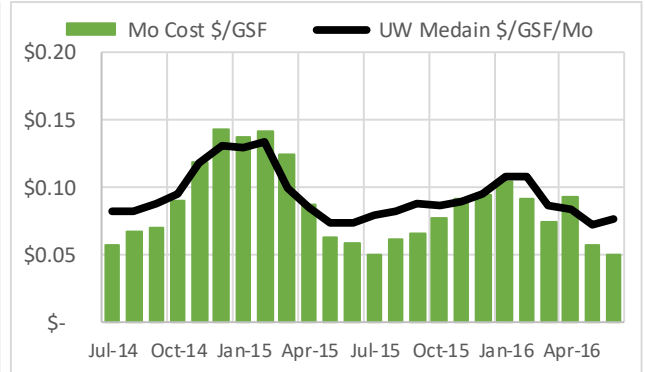
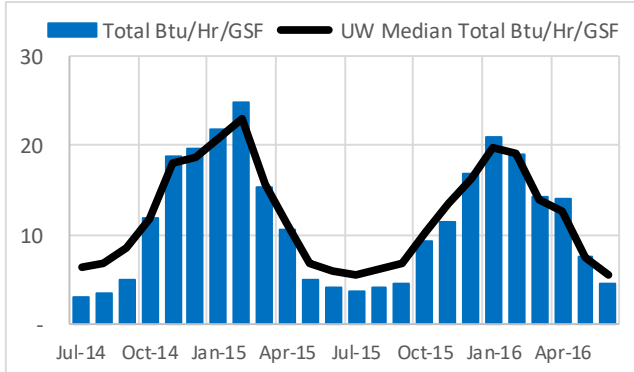
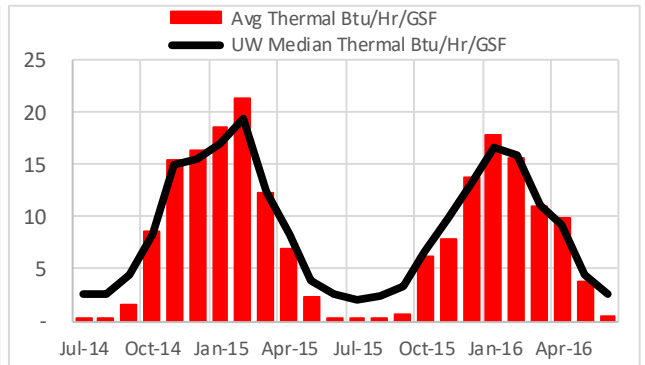
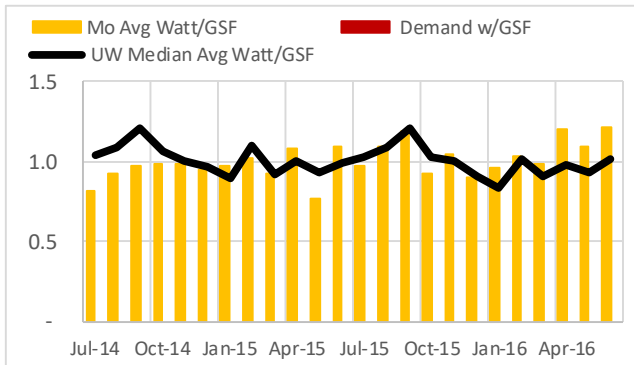
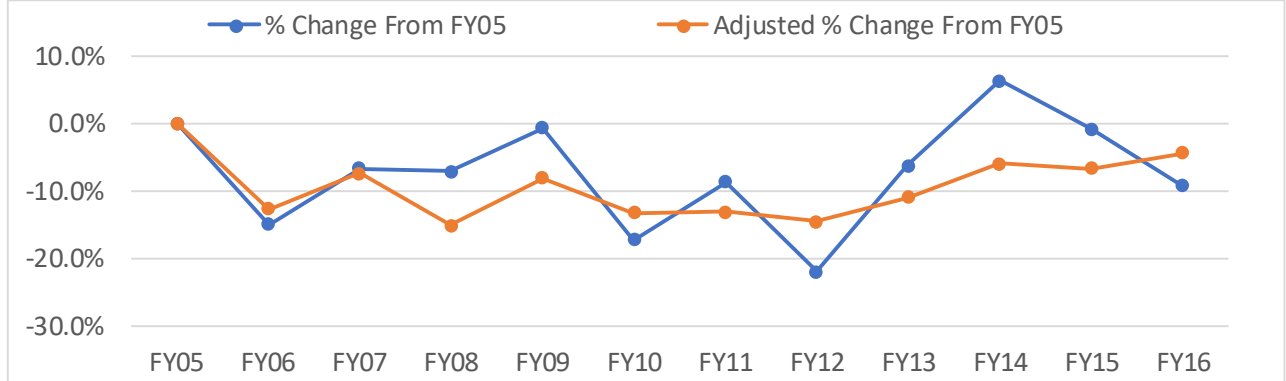
### Fiscal Year 2016 State Facilities Energy Report - UW\_Marinette

Electric kwh/GSF =		6.33		Therm/GSF =		0.78		Total Btu/GSF =		99,388	
Electric \$/GSF =		\$ 0.71		Thermal \$/GSF =		\$ 0.37		Energy \$/GSF =		\$ 1.08	
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05	Weather Thermal Adjusted to FY05	Weather Electric Adjusted to FY05	Total Weather Adjusted Btu/GSF	Adjusted % Change From FY05		
FY05	103,778	97,916	33,580	131,496	0.0%	100.0%	100.0%	131,496	0.0%		
FY06	103,778	84,635	30,881	115,517	-12.2%	104.6%	100.2%	119,444	-9.2%		
FY07	103,778	86,211	37,586	123,797	-5.9%	101.2%	99.2%	124,526	-5.3%		
FY08	102,740	82,819	30,750	113,569	-13.6%	93.5%	99.4%	107,970	-17.9%		
FY09	102,740	89,463	30,381	119,843	-8.9%	87.6%	99.5%	108,635	-17.4%		
FY10	107,988	74,977	27,787	102,764	-21.8%	104.0%	99.2%	105,504	-19.8%		
FY11	107,988	87,316	28,818	116,134	-11.7%	91.1%	99.9%	108,359	-17.6%		
FY12	107,988	71,455	28,073	99,528	-24.3%	118.0%	101.7%	112,866	-14.2%		
FY13	107,988	80,514	28,424	108,938	-17.2%	94.5%	99.5%	104,394	-20.6%		
FY14	107,988	95,636	26,299	121,935	-7.3%	83.7%	98.0%	105,804	-19.5%		
FY15	107,988	89,052	22,949	112,001	-14.8%	92.9%	100.2%	105,720	-19.6%		
FY16	107,988	77,780	21,608	99,388	-24.4%	107.9%	99.9%	105,541	-19.7%		



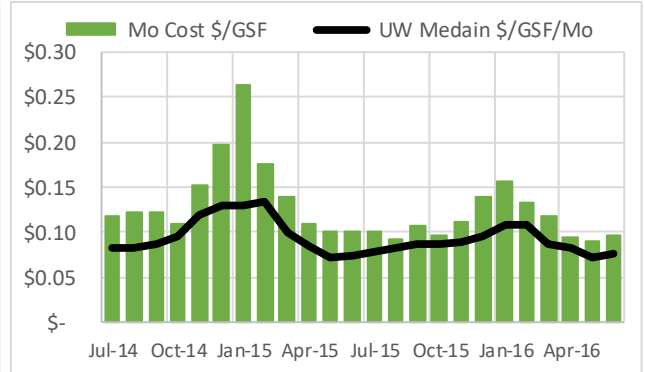
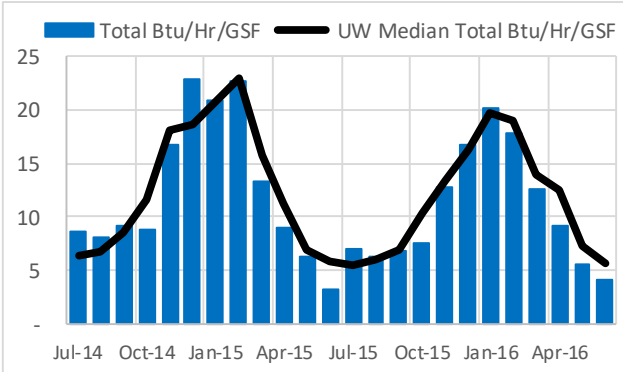
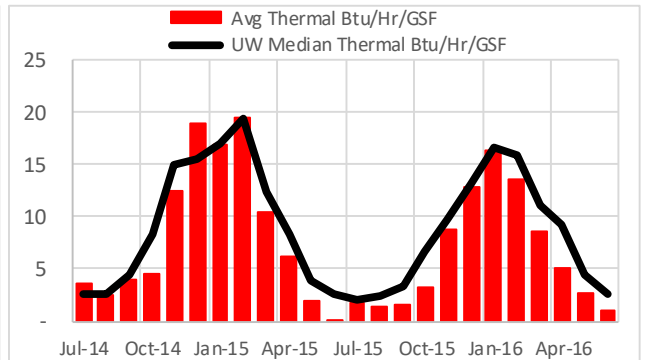
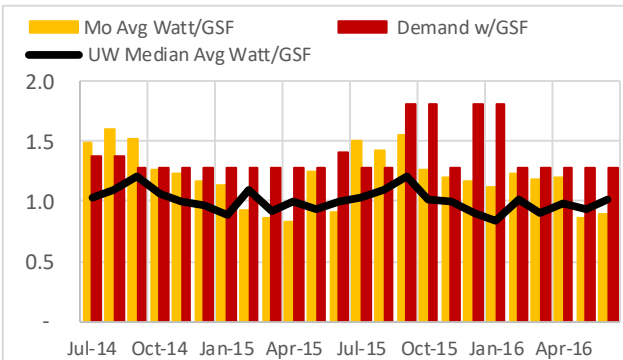
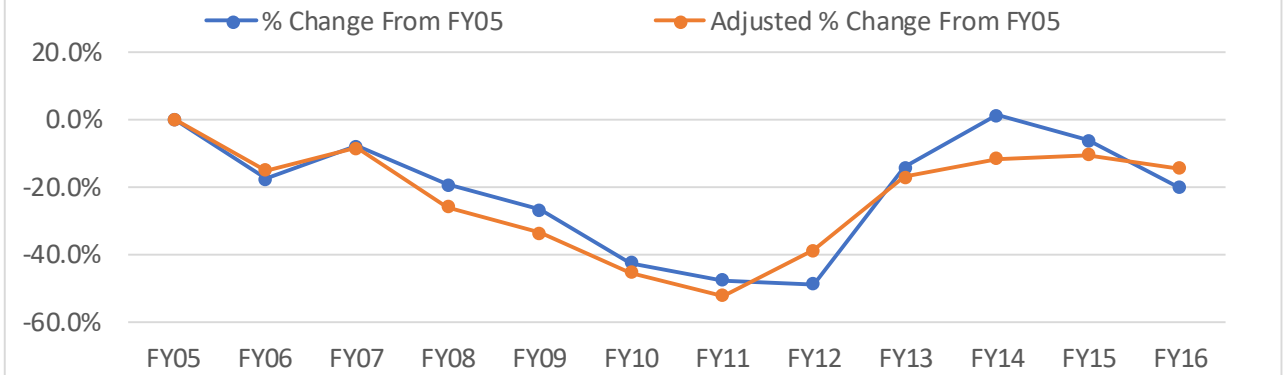
### Fiscal Year 2016 State Facilities Energy Report - UW\_Marshfield

Electric kwh/GSF =		9.23		Therm/GSF =		0.64		Total Btu/GSF =		95,255	
Electric \$/GSF =		\$ 0.62		Thermal \$/GSF =		\$ 0.29		Energy \$/GSF =		\$ 0.91	
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05	Weather Thermal Adjusted to FY05	Weather Electric Adjusted to FY05	Total Weather Adjusted Btu/GSF	Adjusted % Change From FY05		
FY05	145,016	74,182	30,918	105,100	0.0%	100.0%	100.0%	105,100	0.0%		
FY06	145,016	58,572	30,750	89,322	-15.0%	104.3%	99.6%	91,736	-12.7%		
FY07	145,016	68,277	29,734	98,011	-6.7%	98.9%	99.9%	97,236	-7.5%		
FY08	141,598	69,599	27,941	97,540	-7.2%	87.8%	100.4%	89,129	-15.2%		
FY09	136,616	73,370	30,941	104,311	-0.8%	89.3%	100.4%	96,593	-8.1%		
FY10	149,996	59,028	27,930	86,958	-17.3%	107.2%	99.5%	91,070	-13.3%		
FY11	149,996	67,684	28,222	95,906	-8.7%	93.3%	99.9%	91,312	-13.1%		
FY12	149,996	54,485	27,409	81,894	-22.1%	114.4%	99.9%	89,739	-14.6%		
FY13	149,996	68,181	30,344	98,525	-6.3%	92.6%	100.3%	93,589	-11.0%		
FY14	149,996	81,584	30,211	111,795	6.4%	83.9%	100.4%	98,821	-6.0%		
FY15	149,996	75,601	28,584	104,186	-0.9%	92.0%	99.8%	98,074	-6.7%		
FY16	149,996	63,764	31,491	95,255	-9.4%	108.3%	99.5%	100,372	-4.5%		



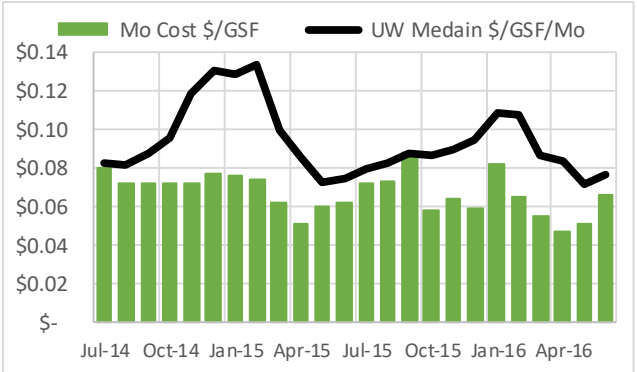
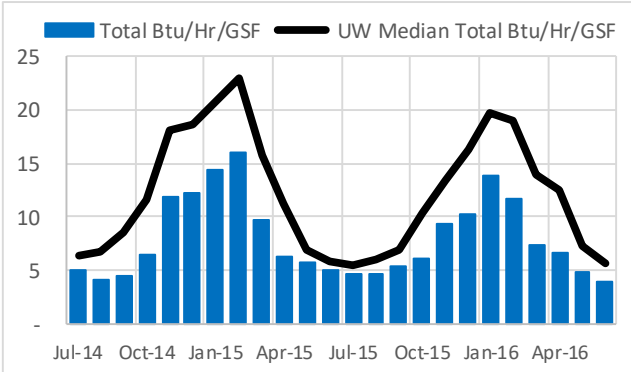
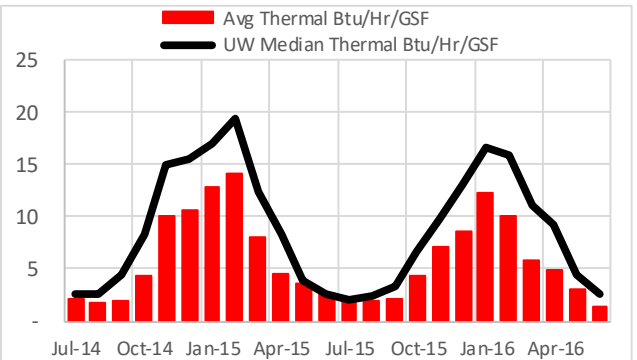
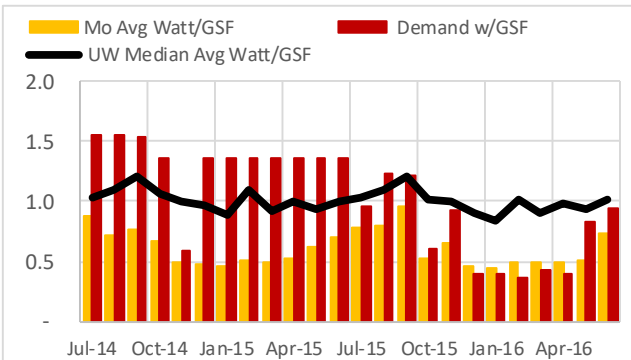
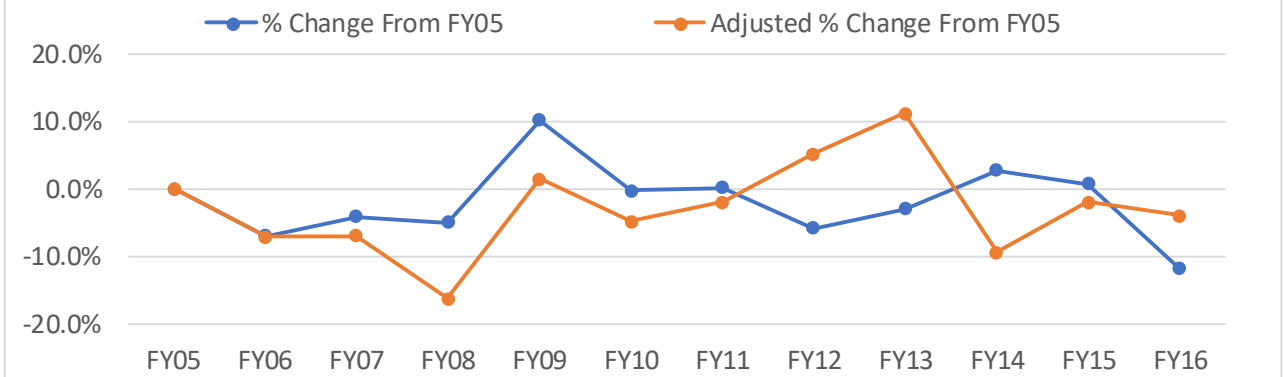
### Fiscal Year 2016 State Facilities Energy Report - UW\_Richland

Electric kwh/GSF = 10.71		Therm/GSF = 0.56		Total Btu/GSF = 92,733					
Electric \$/GSF = \$ 0.99		Thermal \$/GSF = \$ 0.34		Energy \$/GSF = \$ 1.34					
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05	Weather Thermal Adjusted to FY05	Weather Electric Adjusted to FY05	Total Weather Adjusted Btu/GSF	Adjusted % Change From FY05
FY05	95,461	84,023	32,229	116,252	0.0%	100.0%	100.0%	116,252	0.0%
FY06	95,461	61,755	33,997	95,752	-17.6%	105.1%	99.3%	98,654	-15.1%
FY07	95,461	73,106	33,885	106,991	-8.0%	99.7%	99.0%	106,436	-8.4%
FY08	101,990	63,338	30,431	93,768	-19.3%	88.4%	98.7%	86,002	-26.0%
FY09	101,900	66,571	18,400	84,971	-26.9%	88.1%	99.2%	76,901	-33.8%
FY10	108,760	49,298	17,232	66,530	-42.8%	93.7%	100.0%	63,443	-45.4%
FY11	108,760	43,371	17,330	60,701	-47.8%	88.2%	98.8%	55,380	-52.4%
FY12	108,760	41,968	17,345	59,313	-49.0%	127.9%	100.5%	71,099	-38.8%
FY13	108,760	60,556	39,069	99,626	-14.3%	95.2%	98.9%	96,299	-17.2%
FY14	108,760	78,408	39,020	117,429	1.0%	82.1%	97.8%	102,553	-11.8%
FY15	108,760	73,526	35,442	108,968	-6.3%	92.7%	100.4%	103,777	-10.7%
FY16	108,760	56,166	36,567	92,733	-20.2%	111.9%	99.7%	99,315	-14.6%



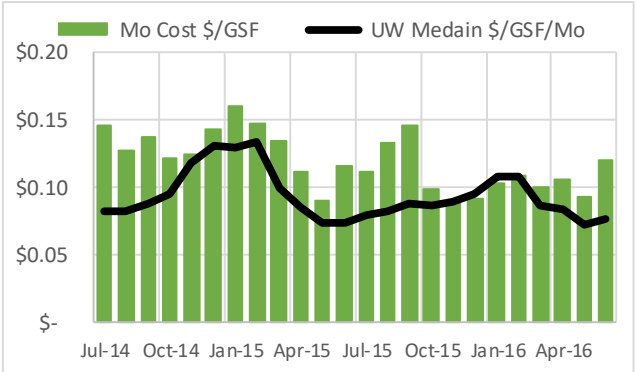
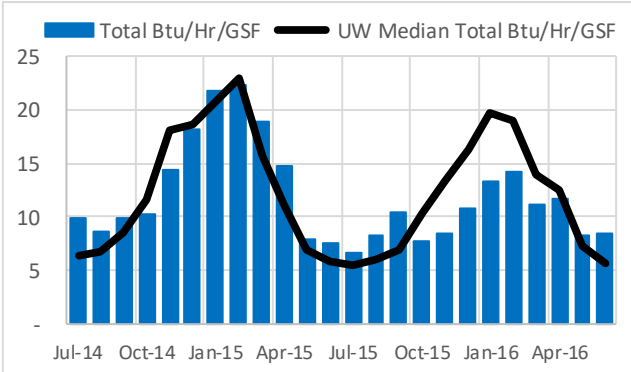
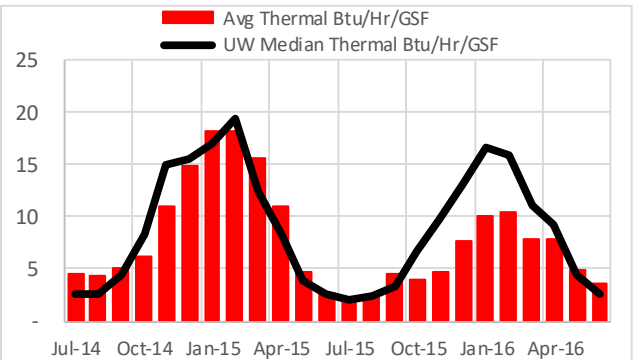
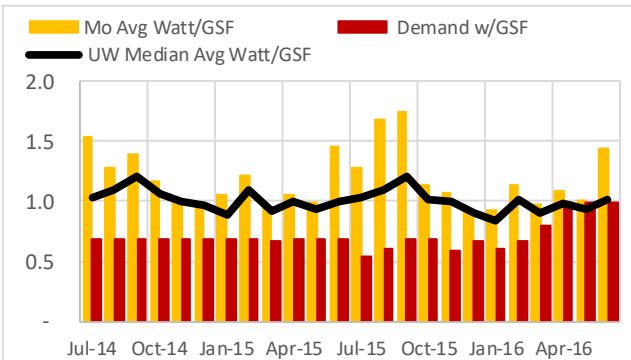
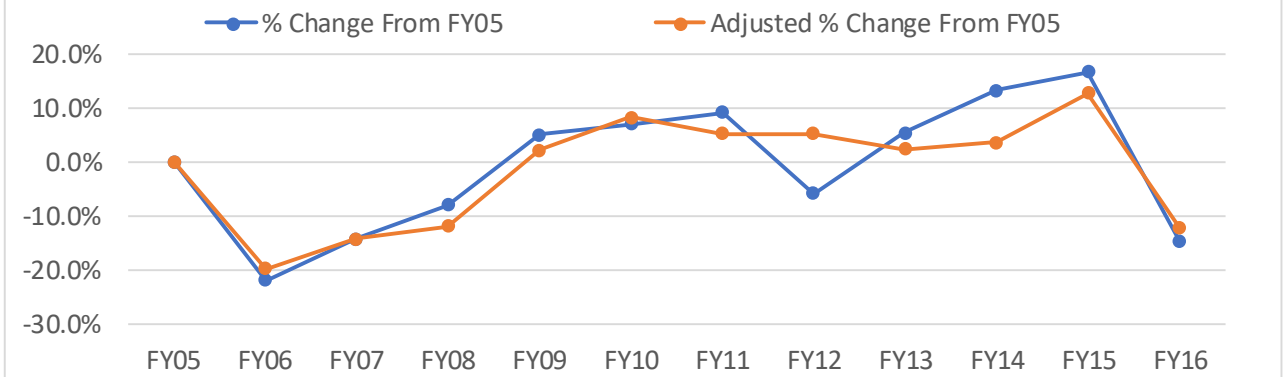
### Fiscal Year 2016 State Facilities Energy Report - UW\_Rock

Electric kwh/GSF =		5.38		Therm/GSF =		0.46		Total Btu/GSF =		64,741	
Electric \$/GSF =		\$ 0.59		Thermal \$/GSF =		\$ 0.19		Energy \$/GSF =		\$ 0.78	
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05	Weather Thermal Adjusted to FY05	Weather Electric Adjusted to FY05	Total Weather Adjusted Btu/GSF	Adjusted % Change From FY05		
FY05	145,560	48,489	24,956	73,445	0.0%	100.0%	100.0%	73,445	0.0%		
FY06	145,560	43,901	24,404	68,306	-7.0%	100.0%	99.5%	68,210	-7.1%		
FY07	145,560	45,778	24,629	70,407	-4.1%	95.5%	99.6%	68,234	-7.1%		
FY08	185,625	48,518	21,252	69,770	-5.0%	83.6%	98.0%	61,405	-16.4%		
FY09	185,625	61,813	19,134	80,947	10.2%	89.3%	100.8%	74,505	1.4%		
FY10	191,592	53,702	19,567	73,268	-0.2%	93.4%	100.4%	69,818	-4.9%		
FY11	191,592	55,115	18,398	73,513	0.1%	97.7%	98.1%	71,925	-2.1%		
FY12	191,592	49,687	19,441	69,128	-5.9%	117.5%	96.8%	77,212	5.1%		
FY13	191,592	52,582	18,632	71,214	-3.0%	120.9%	96.9%	81,612	11.1%		
FY14	191,592	56,742	18,717	75,459	2.7%	84.6%	98.8%	66,464	-9.5%		
FY15	191,592	55,612	18,293	73,905	0.6%	96.6%	100.0%	71,999	-2.0%		
FY16	191,592	46,394	18,347	64,741	-11.9%	113.3%	97.6%	70,463	-4.1%		



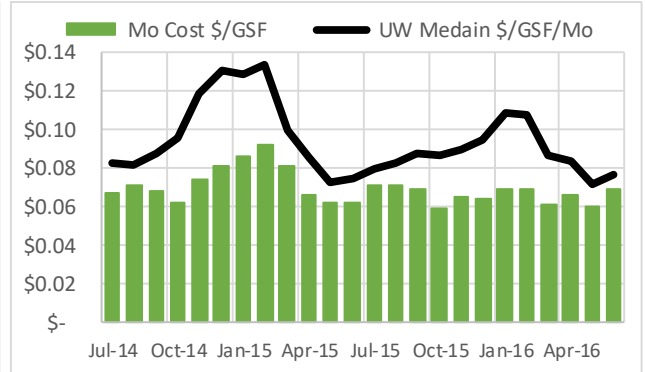
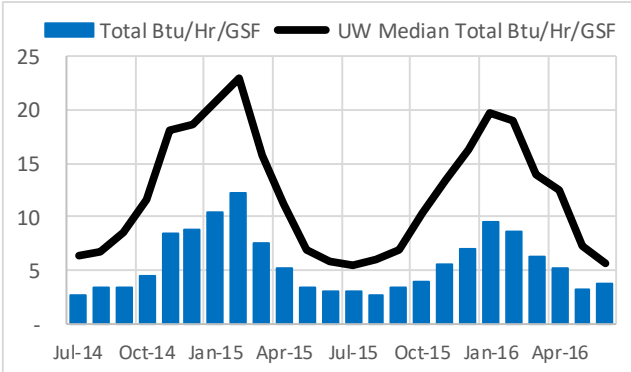
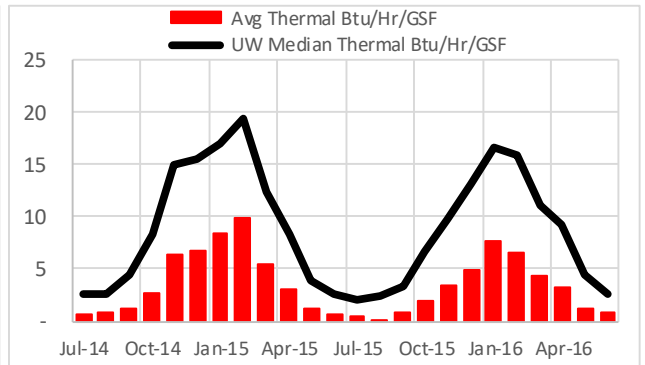
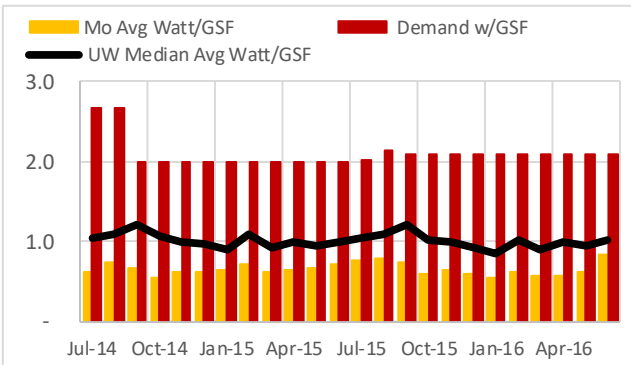
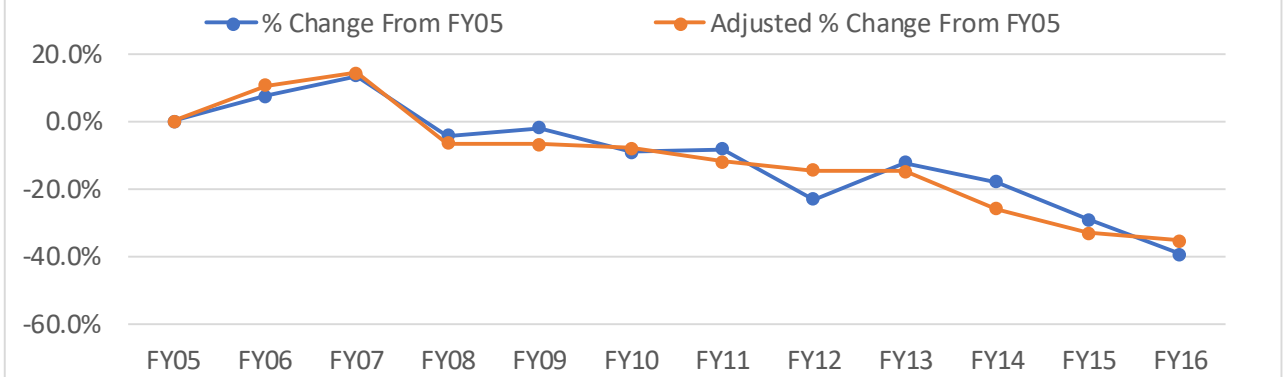
### Fiscal Year 2016 State Facilities Energy Report - UW\_Sheboygan

Electric kwh/GSF = 10.54		Therm/GSF = 0.52		Total Btu/GSF = 87,473					
Electric \$/GSF = \$ 1.06		Thermal \$/GSF = \$ 0.24		Energy \$/GSF = \$ 1.30					
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05	Weather Thermal Adjusted to FY05	Weather Electric Adjusted to FY05	Total Weather Adjusted Btu/GSF	Adjusted % Change From FY05
FY05	170,927	72,172	30,582	102,754	0.0%	100.0%	100.0%	102,754	0.0%
FY06	170,927	52,365	27,815	80,180	-22.0%	105.1%	98.3%	82,395	-19.8%
FY07	170,927	58,093	30,011	88,104	-14.3%	99.7%	100.1%	87,944	-14.4%
FY08	197,727	64,566	29,819	94,385	-8.1%	94.3%	99.1%	90,445	-12.0%
FY09	197,727	74,774	33,178	107,952	5.1%	96.1%	99.8%	104,969	2.2%
FY10	200,918	73,373	36,485	109,858	6.9%	102.0%	99.8%	111,235	8.3%
FY11	200,918	77,654	34,410	112,065	9.1%	96.6%	96.4%	108,152	5.3%
FY12	200,918	63,854	32,782	96,637	-6.0%	118.5%	98.6%	108,002	5.1%
FY13	200,918	74,154	34,185	108,339	5.4%	96.2%	98.7%	105,096	2.3%
FY14	200,918	83,874	32,470	116,345	13.2%	89.1%	97.4%	106,344	3.5%
FY15	200,918	84,688	35,146	119,834	16.6%	94.7%	101.0%	115,716	12.6%
FY16	200,918	51,512	35,961	87,473	-14.9%	105.9%	98.6%	90,024	-12.4%



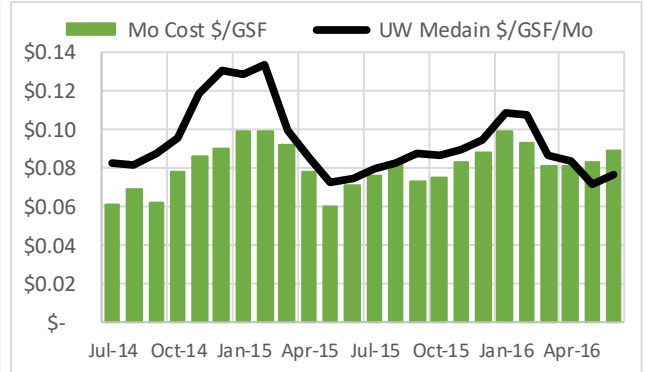
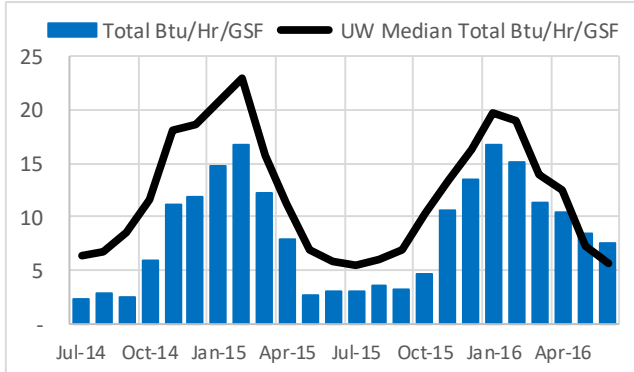
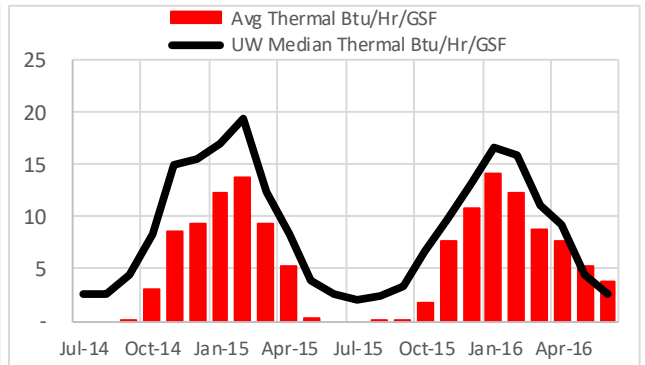
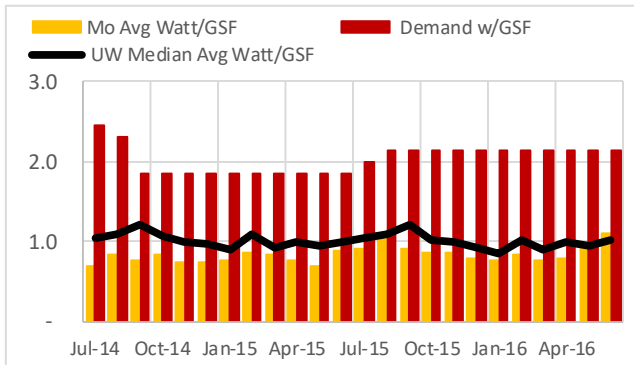
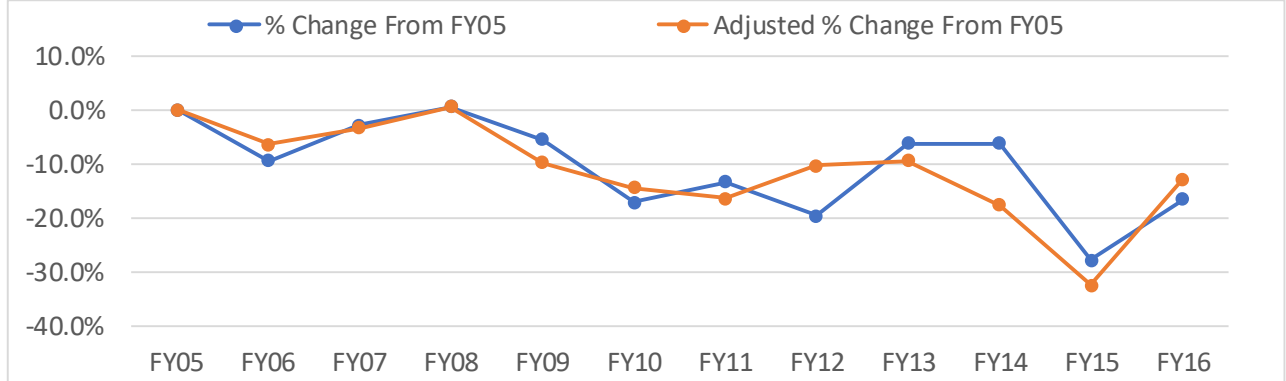
### Fiscal Year 2016 State Facilities Energy Report - UW\_Washington

Electric kwh/GSF =		5.77		Therm/GSF =		0.26		Total Btu/GSF =		45,636	
Electric \$/GSF =		\$ 0.67		Thermal \$/GSF =		\$ 0.12		Energy \$/GSF =		\$ 0.79	
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05	Weather Thermal Adjusted to FY05	Weather Electric Adjusted to FY05	Total Weather Adjusted Btu/GSF	Adjusted % Change From FY05		
FY05	169,454	42,195	33,126	75,321	0.0%	100.0%	100.0%	75,321	0.0%		
FY06	169,454	46,780	34,158	80,938	7.5%	106.4%	98.1%	83,264	10.5%		
FY07	169,454	50,861	34,547	85,408	13.4%	102.1%	99.0%	86,148	14.4%		
FY08	198,558	42,876	29,150	72,025	-4.4%	96.6%	99.7%	70,471	-6.4%		
FY09	198,558	44,340	29,522	73,862	-1.9%	91.2%	100.7%	70,159	-6.9%		
FY10	199,038	40,945	27,554	68,499	-9.1%	102.0%	99.9%	69,317	-8.0%		
FY11	199,038	41,534	27,541	69,075	-8.3%	93.1%	99.8%	66,177	-12.1%		
FY12	199,038	30,582	27,342	57,924	-23.1%	122.0%	99.1%	64,424	-14.5%		
FY13	199,038	38,382	27,744	66,127	-12.2%	94.8%	100.0%	64,125	-14.9%		
FY14	199,038	41,719	20,034	61,753	-18.0%	86.3%	98.7%	55,771	-26.0%		
FY15	199,038	34,038	19,362	53,400	-29.1%	90.8%	99.9%	50,256	-33.3%		
FY16	199,038	25,957	19,679	45,636	-39.4%	111.8%	99.0%	48,505	-35.6%		



### Fiscal Year 2016 State Facilities Energy Report - UW\_Waukesha

Electric kwh/GSF =		7.68		Therm/GSF =		0.53		Total Btu/GSF =		79,005	
Electric \$/GSF =		\$ 0.80		Thermal \$/GSF =		\$ 0.20		Energy \$/GSF =		\$ 1.00	
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05	Weather Thermal Adjusted to FY05	Weather Electric Adjusted to FY05	Total Weather Adjusted Btu/GSF	Adjusted % Change From FY05		
FY05	263,050	59,760	34,992	94,752	0.0%	100.0%	100.0%	94,752	0.0%		
FY06	263,050	52,661	33,092	85,753	-9.5%	106.3%	98.8%	88,662	-6.4%		
FY07	263,050	55,815	36,245	92,059	-2.8%	99.6%	99.4%	91,615	-3.3%		
FY08	272,406	58,675	36,652	95,326	0.6%	99.6%	100.4%	95,259	0.5%		
FY09	272,406	53,629	35,933	89,562	-5.5%	92.4%	99.8%	85,397	-9.9%		
FY10	277,016	45,765	32,703	78,468	-17.2%	105.7%	99.8%	81,022	-14.5%		
FY11	277,016	49,128	32,983	82,111	-13.3%	94.6%	99.3%	79,235	-16.4%		
FY12	277,016	42,752	33,404	76,156	-19.6%	121.5%	98.9%	85,007	-10.3%		
FY13	277,016	53,059	35,698	88,757	-6.3%	94.9%	99.3%	85,802	-9.4%		
FY14	277,016	59,934	28,837	88,771	-6.3%	82.7%	98.5%	77,955	-17.7%		
FY15	277,016	44,801	23,490	68,292	-27.9%	90.3%	99.7%	63,858	-32.6%		
FY16	277,016	52,792	26,213	79,005	-16.6%	107.2%	99.1%	82,592	-12.8%		





# Agency Energy Use Summary

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## SCOPE

CAPITOL COMPLEX - Capitol Heat & Power Plant, Dept. of Administration Office Building; Dept. of Health Services Office Building; Risser Justice Center; GEF 1, 2 and 3; and Wisconsin State Capitol

HILL FARMS COMPLEX - Hill Farms D/E/L; and State Transportation Building

SEPARATED FACILITIES - Badger Road Office Building; Eau Claire Office Building; Green Bay Office Building; La Crosse Office Building; Milwaukee Office Building; Milwaukee SE Crime Lab; State Agriculture Building; State Revenue Building; Waukesha Office Building; Wisconsin Public Broadcasting Center Building; Wisconsin Rapids Office Building; Air Services; and Executive Residence.

## ENERGY CONSUMPTION

**Total Change from Base - Weather Adjusted: 31.6 percent decrease.**

Energy use (BTU/GSF/Yr) for FY16 was 31.6 percent lower than in the base fiscal year, FY05.

**Latest Year Change - Weather Adjusted: 0.4 percent decrease.**

Energy use (BTU/GSF/Yr) for FY16 decreased 0.4 percent from the previous fiscal year.

***Average Annual Change - Weather Adjusted: 2.9 percent decrease per year.***

On average, energy use (BTU/GSF/Yr) has decreased 2.9 percent since the base year, FY05.

## GSF AND CONSUMPTION STATISTICS

***GSF Change from Base: -1.6 percent.***

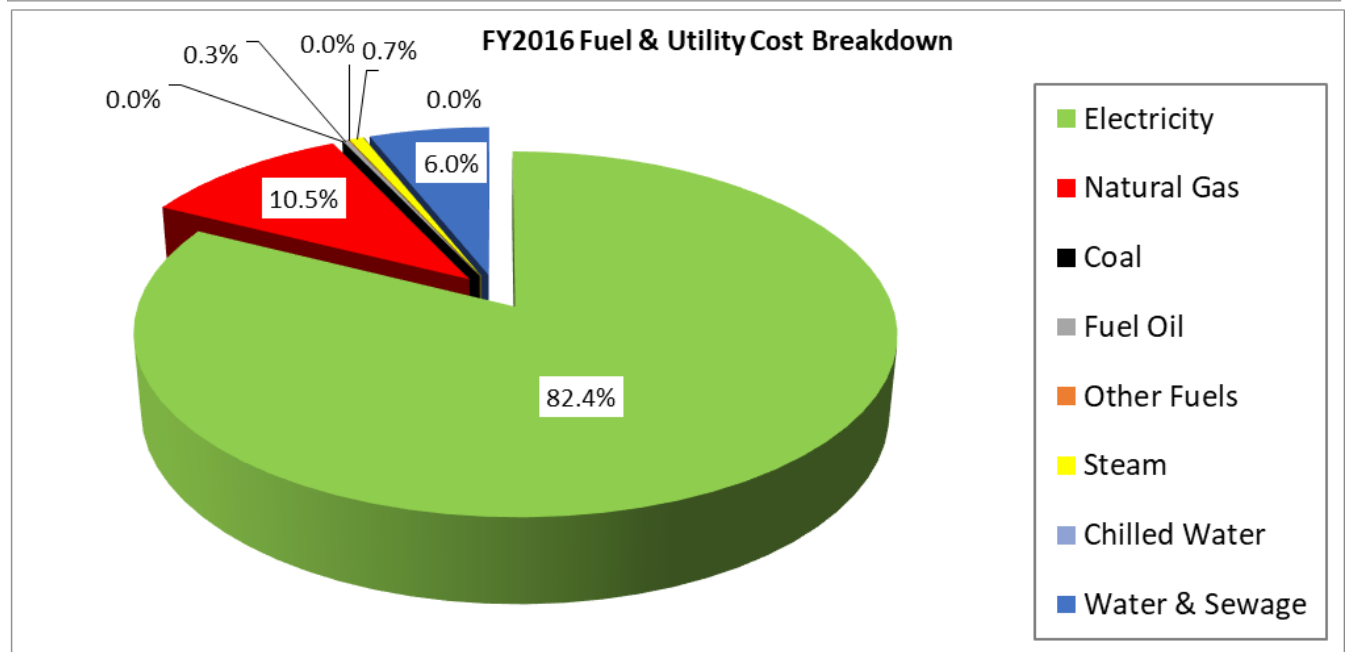
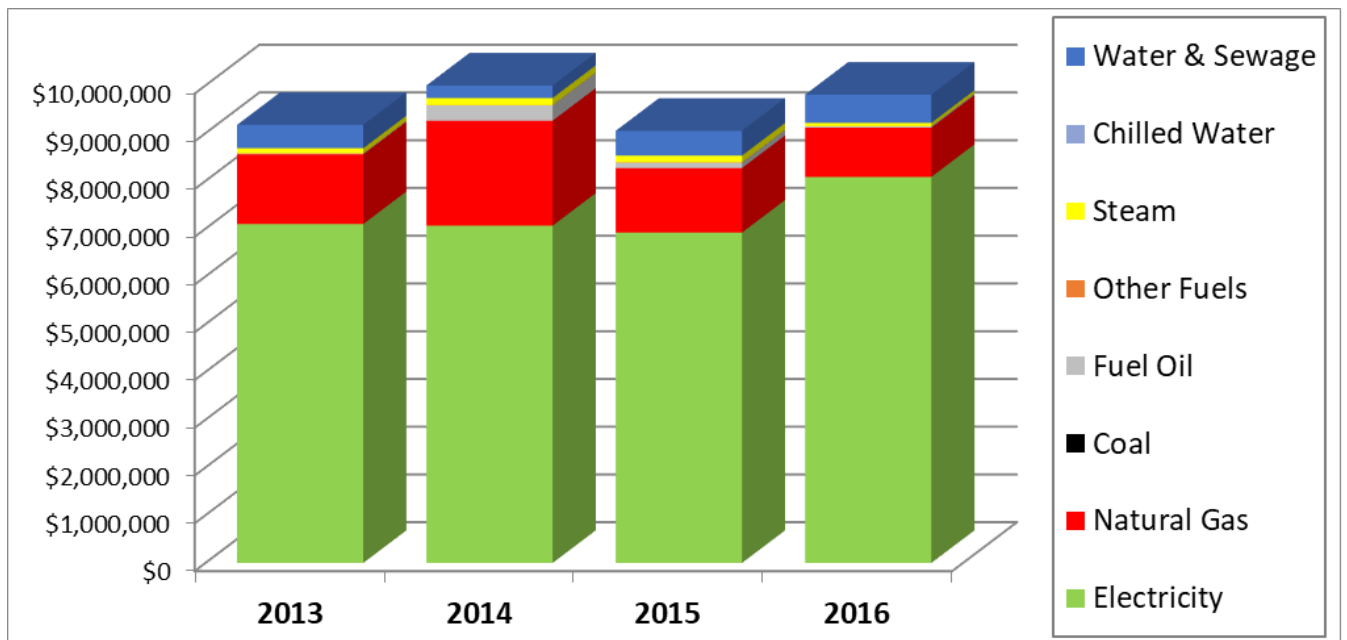
Gross square footage has decreased 1.6% from the base fiscal year, FY05.

***Consumption Change from Base: 34.6 percent decrease.***

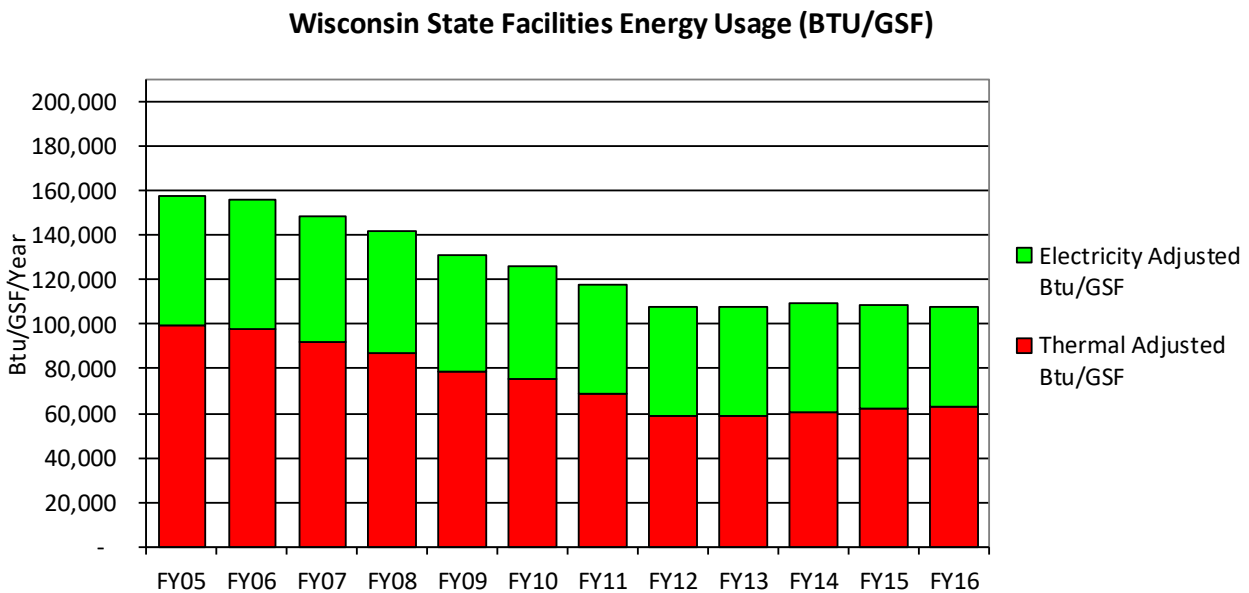
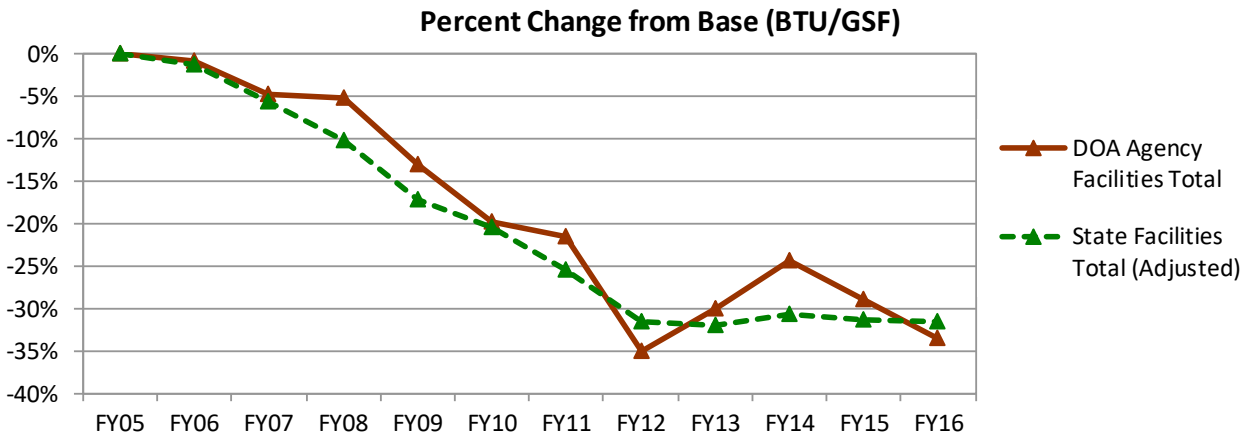
Total consumption was 34.6 percent less when compared to FY05. Total energy (million BTU) purchases in FY16 were 32.7 percent less than in the base year when adjusted for weather compared to FY05.

### Department of Administration Fuel & Utilities Expenditures

Subcategory Name	Fiscal Year 2013	Fiscal Year 2014	Fiscal Year 2015	Fiscal Year 2016
Electricity	\$ 7,098,934	\$ 7,064,672	\$ 6,919,979	\$ 8,085,753
Natural Gas	\$ 1,459,297	\$ 2,197,741	\$ 1,350,999	\$ 1,031,160
Coal	\$ -	\$ -	\$ -	\$ -
Fuel Oil	\$ 15,413	\$ 322,361	\$ 112,501	\$ 26,841
Other Fuels	\$ 4,786	\$ 4,692	\$ 6,266	\$ 3,590
Steam	\$ 107,008	\$ 148,991	\$ 142,001	\$ 69,393
Chilled Water	\$ -	\$ -	\$ -	\$ -
Water & Sewage	\$ 488,972	\$ 452,921	\$ 519,341	\$ 591,684
<b>Total:</b>	<b>\$ 9,174,410</b>	<b>\$ 10,191,378</b>	<b>\$ 9,051,087</b>	<b>\$ 9,808,420</b>

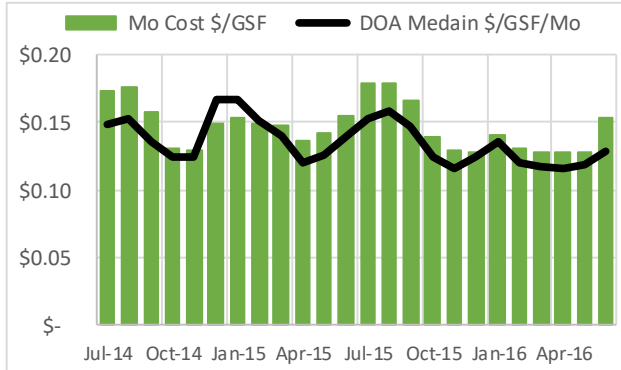
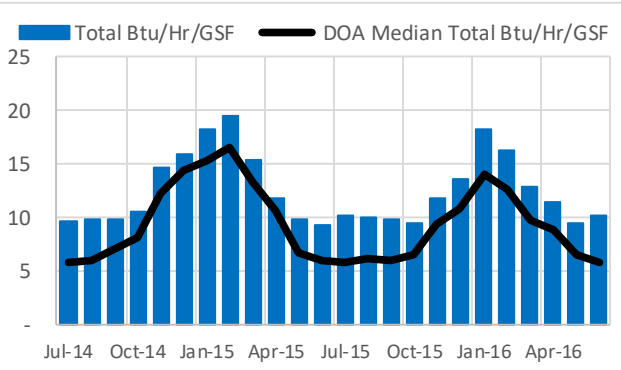
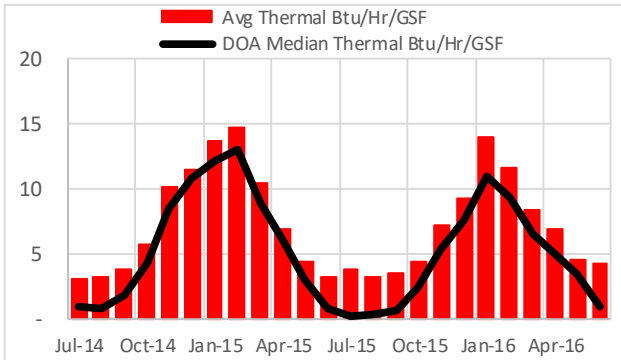
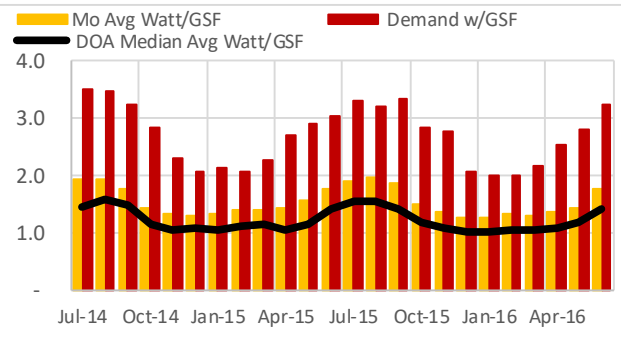
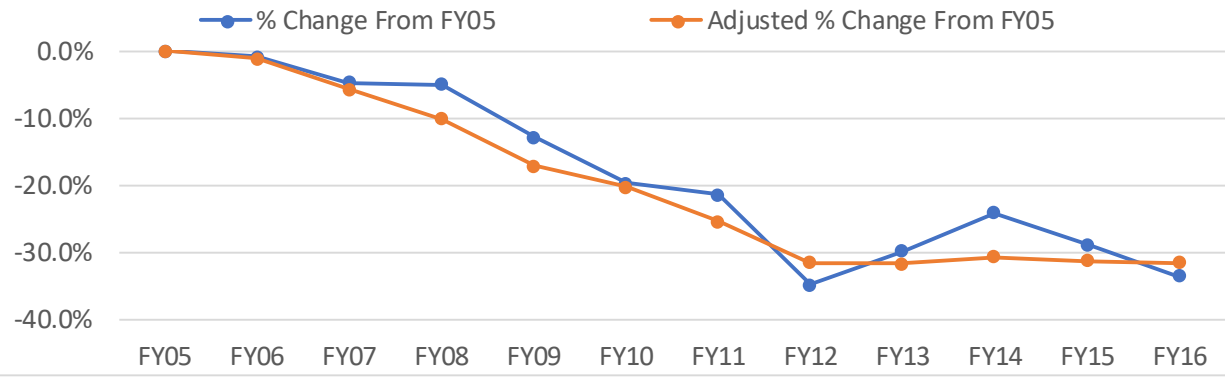


Department of Administration Facilities Energy									
DOA Agency Facilities Total									
Fiscal Year	GSF	BTU/GSF				Weather-Adjusted			
		Thermal	Electricity	Total	% Change From FY05	Thermal Adjusted to FY05	Electric Adjusted to FY05	Total Adjusted Btu/GSF	Adjusted % Change From FY05
FY05	4,027,132	99,221	58,619	157,840	0.0%	100.0%	100.0%	157,840	0.0%
FY06	4,027,132	97,337	59,097	156,433	-0.9%	100.1%	99.2%	156,053	-1.1%
FY07	4,027,132	93,316	57,035	150,351	-4.7%	98.6%	99.7%	148,897	-5.7%
FY08	4,027,132	94,217	55,669	149,886	-5.0%	92.0%	98.9%	141,749	-10.2%
FY09	4,027,132	84,926	52,508	137,433	-12.9%	92.6%	99.2%	130,689	-17.2%
FY10	4,027,132	76,500	50,105	126,604	-19.8%	98.7%	100.4%	125,818	-20.3%
FY11	4,027,132	74,298	49,641	123,939	-21.5%	92.5%	98.7%	117,724	-25.4%
FY12	4,027,132	52,632	50,058	102,690	-34.9%	111.8%	98.3%	108,046	-31.5%
FY13	4,027,132	61,386	49,253	110,639	-29.9%	95.7%	99.2%	107,605	-31.8%
FY14	4,109,971	70,414	49,176	119,590	-24.2%	86.1%	99.2%	109,389	-30.7%
FY15	3,962,271	65,894	46,228	112,122	-29.0%	94.2%	100.3%	108,398	-31.3%
FY16	3,962,271	59,039	45,825	104,864	-33.6%	106.0%	99.1%	107,966	-31.6%



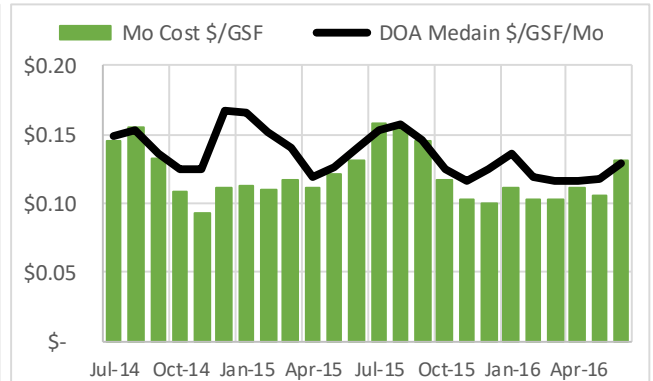
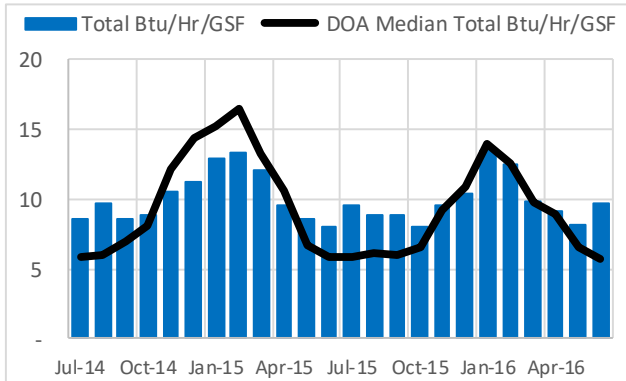
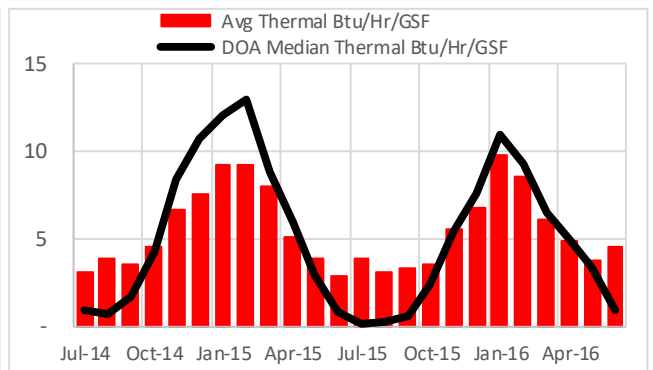
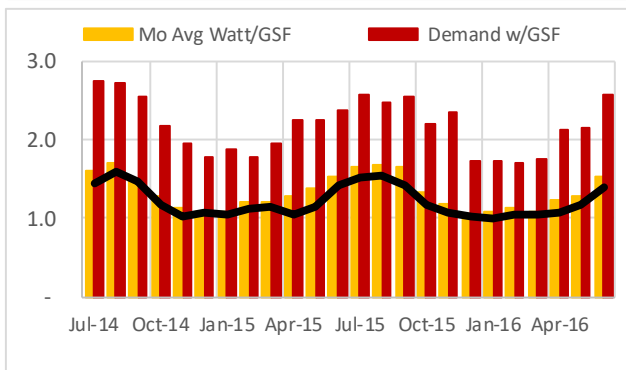
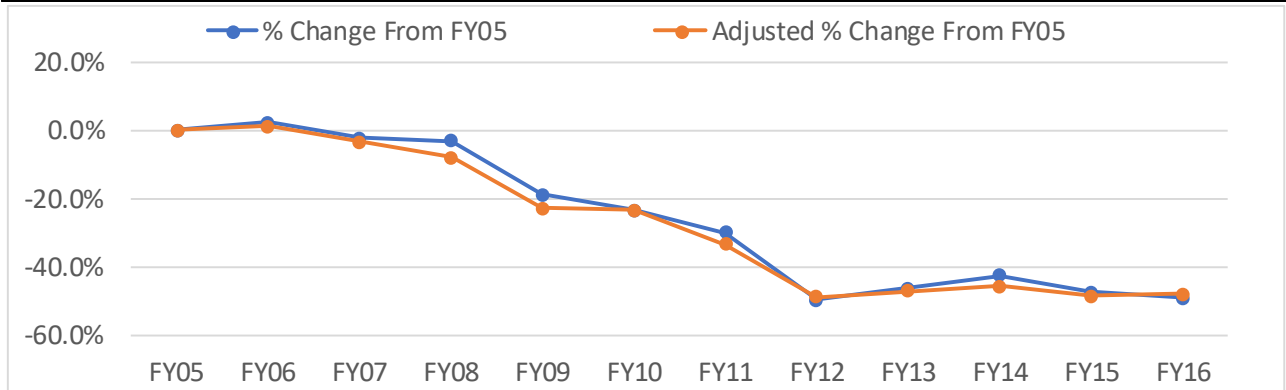
### Fiscal Year 2016 DOA Facilities Energy Report - DOA Total

Electric kwh/GSF = 13.43		Therm/GSF = 0.59		Total Btu/GSF = 104,864					
Electric \$/GSF = \$ 1.50		Thermal \$/GSF = \$ 0.23		Energy \$/GSF = \$ 1.73					
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05	Weather Thermal Adjusted to FY05	Weather Electric Adjusted to FY05	Total Weather Adjusted Btu/GSF	Adjusted % Change From FY05
FY05	4,027,132	99,221	58,619	157,840	0.0%	100.0%	100.0%	157,840	0.0%
FY06	4,027,132	97,337	59,097	156,433	-0.9%	100.1%	99.2%	156,053	-1.1%
FY07	4,027,132	93,316	57,035	150,351	-4.7%	98.6%	99.7%	148,897	-5.7%
FY08	4,027,132	94,217	55,669	149,886	-5.0%	92.0%	98.9%	141,749	-10.2%
FY09	4,027,132	84,926	52,508	137,433	-12.9%	92.6%	99.2%	130,689	-17.2%
FY10	4,027,132	76,500	50,105	126,604	-19.8%	98.7%	100.4%	125,818	-20.3%
FY11	4,027,132	74,298	49,641	123,939	-21.5%	92.5%	98.7%	117,724	-25.4%
FY12	4,027,132	52,632	50,058	102,690	-34.9%	111.8%	98.3%	108,046	-31.5%
FY13	4,027,132	61,386	49,253	110,639	-29.9%	95.7%	99.2%	107,605	-31.8%
FY14	4,109,971	70,414	49,176	119,590	-24.2%	86.1%	99.2%	109,389	-30.7%
FY15	3,962,271	65,894	46,228	112,122	-29.0%	94.2%	100.3%	108,398	-31.3%
FY16	3,962,271	59,039	45,825	104,864	-33.6%	106.0%	99.1%	107,966	-31.6%



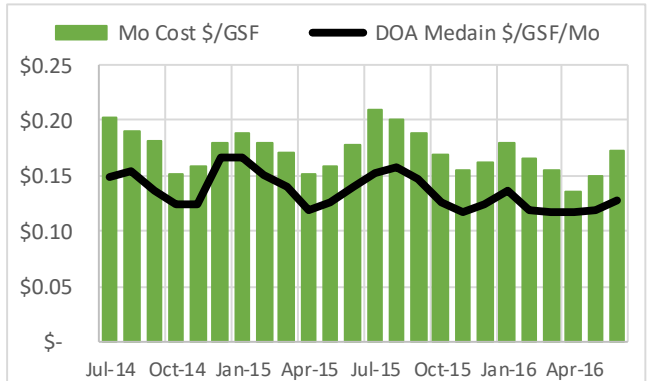
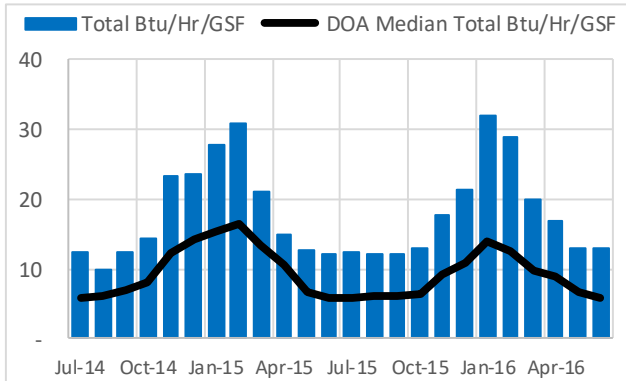
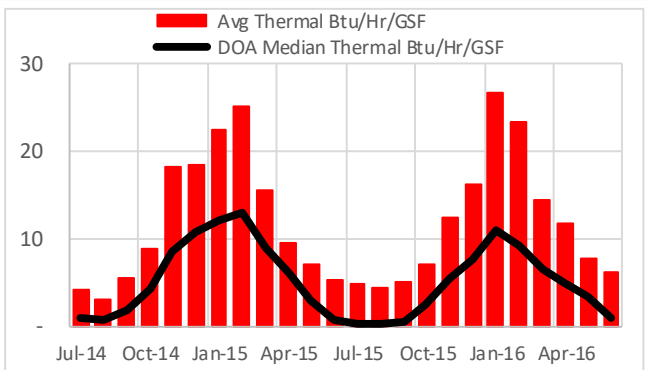
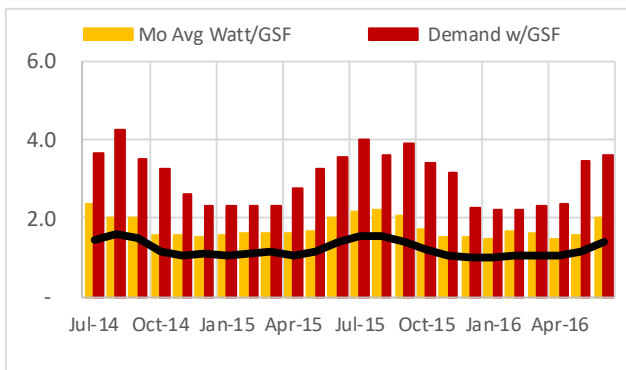
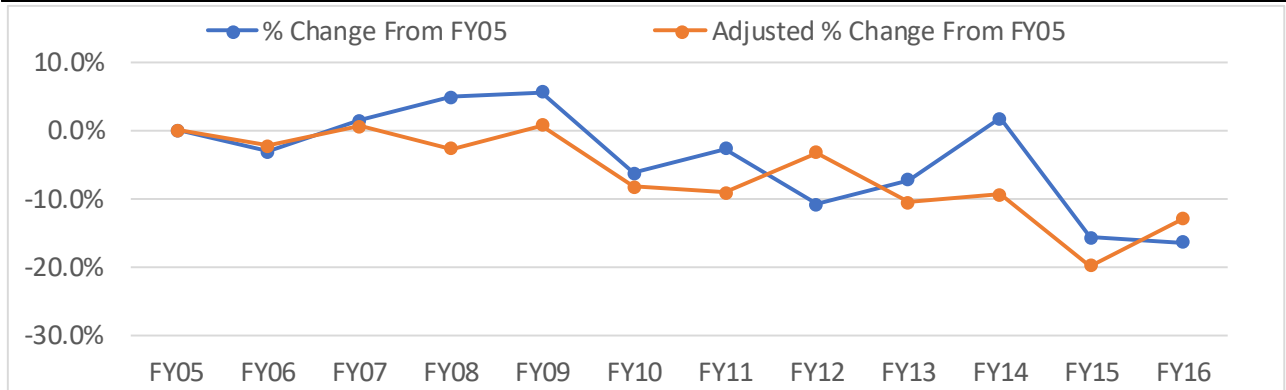
### Fiscal Year 2016 State Facilities Energy Report - DOA\_Capitol Complex

Electric kwh/GSF = 11.66		Therm/GSF = 0.47		Total Btu/GSF = 86,401					
Electric \$/GSF = \$ 1.29		Thermal \$/GSF = \$ 0.15		Energy \$/GSF = \$ 1.44					
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05	Weather Thermal Adjusted to FY05	Weather Electric Adjusted to FY05	Total Weather Adjusted Btu/GSF	Adjusted % Change From FY05
FY05	2,013,307	112,981	56,846	169,826	0.0%	100.0%	100.0%	169,826	0.0%
FY06	2,013,307	116,427	57,203	173,630	2.2%	98.6%	99.5%	171,749	1.1%
FY07	2,013,307	109,507	56,231	165,738	-2.4%	98.6%	99.8%	164,099	-3.4%
FY08	2,013,307	110,539	53,818	164,357	-3.2%	93.0%	99.3%	156,236	-8.0%
FY09	2,013,307	89,085	48,538	137,622	-19.0%	92.9%	99.1%	130,883	-22.9%
FY10	2,013,307	82,641	47,512	130,154	-23.4%	99.5%	100.2%	129,825	-23.6%
FY11	2,013,307	73,324	45,361	118,686	-30.1%	93.1%	98.9%	113,101	-33.4%
FY12	2,013,307	38,392	46,699	85,091	-49.9%	106.6%	98.3%	86,864	-48.9%
FY13	2,013,307	45,317	45,833	91,150	-46.3%	97.1%	99.0%	89,390	-47.4%
FY14	2,013,307	51,410	46,061	97,471	-42.6%	90.4%	99.2%	92,151	-45.7%
FY15	2,013,307	49,116	39,905	89,021	-47.6%	96.2%	100.4%	87,317	-48.6%
FY16	2,013,307	46,596	39,805	86,401	-49.1%	104.8%	98.9%	88,236	-48.0%



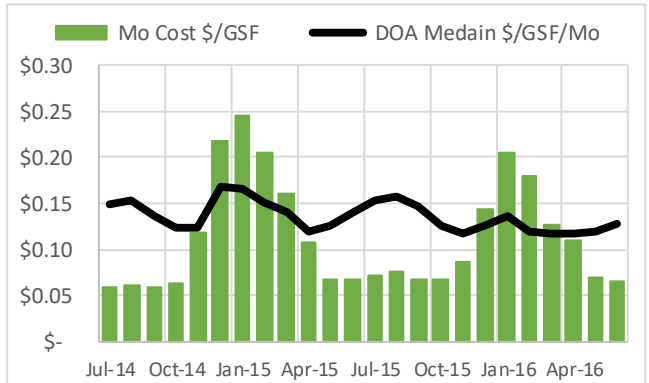
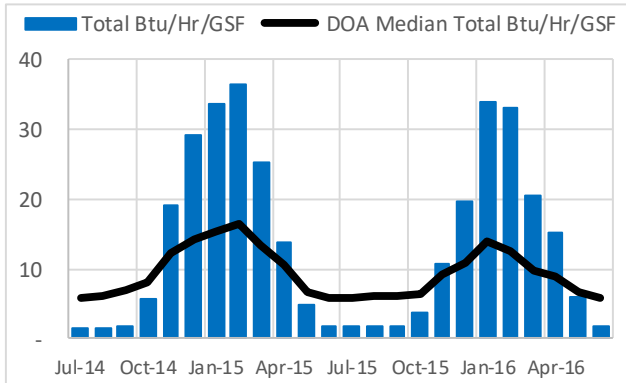
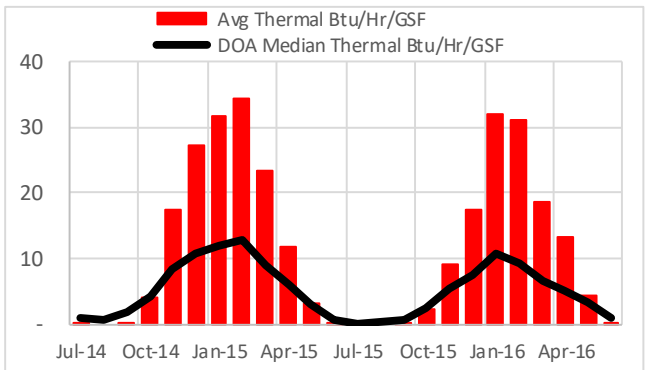
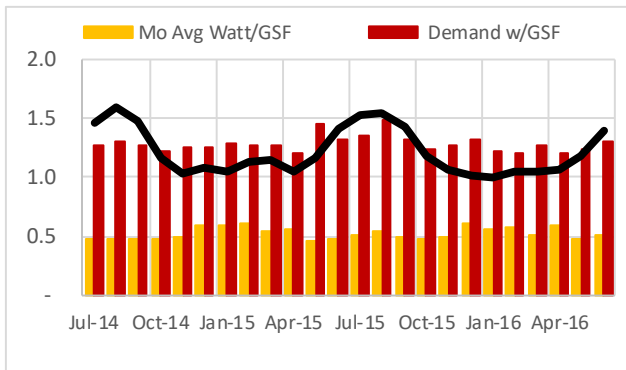
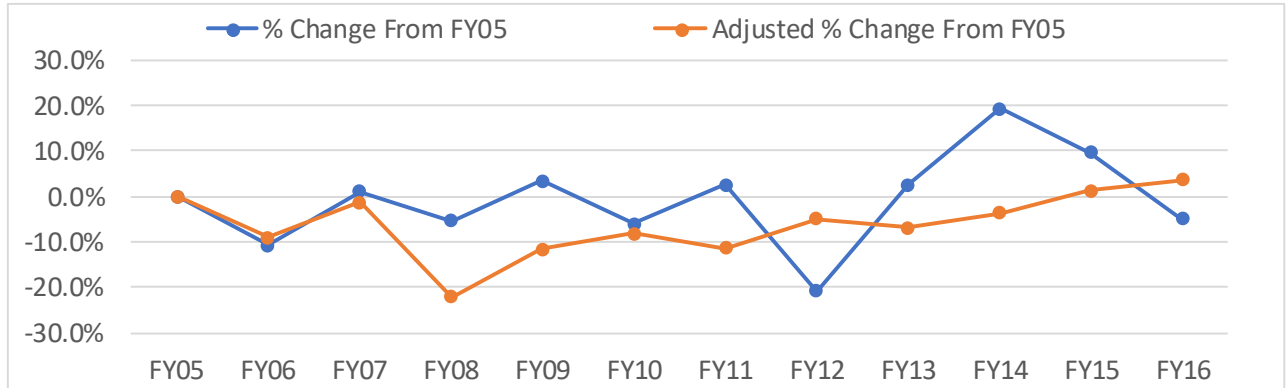
### Fiscal Year 2016 State Facilities Energy Report - DOA\_Hill Farms

Electric kwh/GSF = 15.48		Therm/GSF = 1.02		Total Btu/GSF = 155,158					
Electric \$/GSF = \$ 1.69		Thermal \$/GSF = \$ 0.35		Energy \$/GSF = \$ 2.04					
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05	Weather Thermal Adjusted to FY05	Weather Electric Adjusted to FY05	Total Weather Adjusted Btu/GSF	Adjusted % Change From FY05
FY05	644,904	119,925	65,950	185,875	0.0%	100.0%	100.0%	185,875	0.0%
FY06	644,904	113,539	66,474	180,014	-3.2%	102.1%	99.0%	181,722	-2.2%
FY07	644,904	124,466	63,980	188,446	1.4%	98.9%	99.8%	186,972	0.6%
FY08	644,904	128,346	66,554	194,900	4.9%	90.0%	98.3%	180,906	-2.7%
FY09	644,904	130,840	65,380	196,219	5.6%	93.6%	99.0%	187,201	0.7%
FY10	644,904	114,947	59,120	174,068	-6.4%	96.7%	100.5%	170,531	-8.3%
FY11	644,904	117,923	62,926	180,849	-2.7%	90.9%	97.9%	168,825	-9.2%
FY12	644,904	102,704	62,968	165,671	-10.9%	114.7%	98.3%	179,757	-3.3%
FY13	644,904	112,742	59,692	172,434	-7.2%	94.8%	99.2%	166,074	-10.7%
FY14	644,904	131,537	57,500	189,038	1.7%	84.4%	99.8%	168,448	-9.4%
FY15	644,904	103,574	53,048	156,622	-15.7%	92.5%	100.1%	148,920	-19.9%
FY16	644,904	102,309	52,849	155,158	-16.5%	106.8%	99.3%	161,790	-13.0%



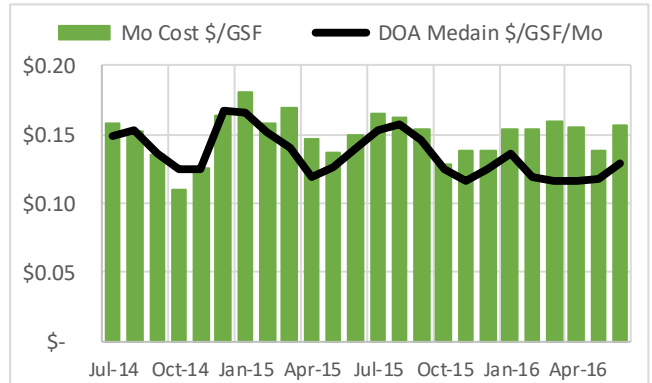
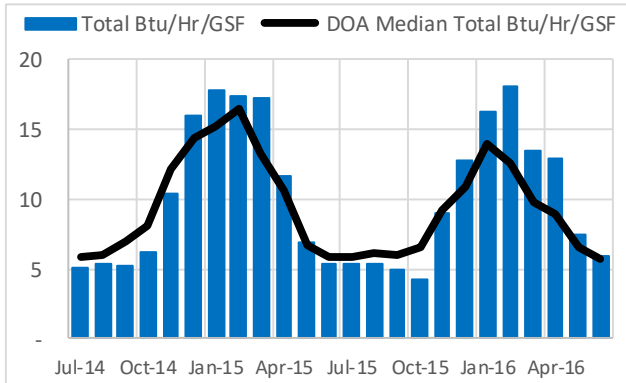
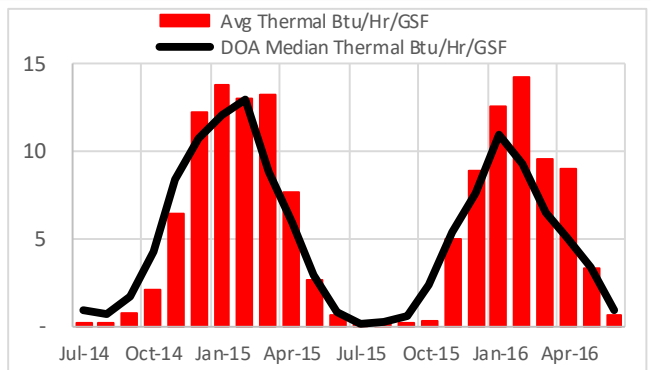
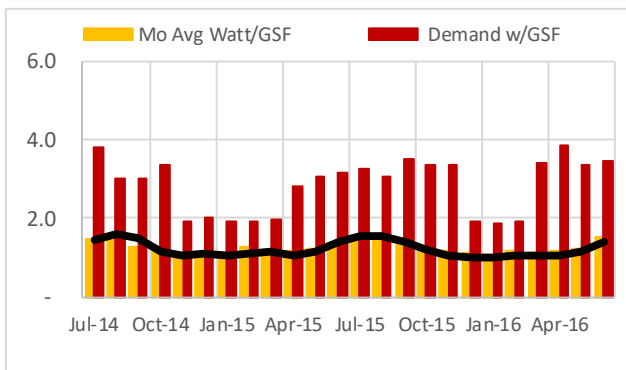
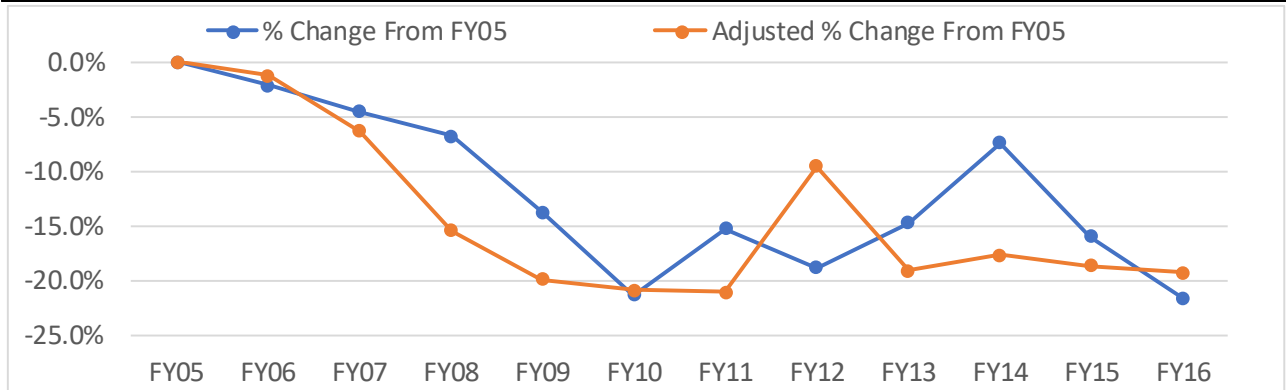
### Fiscal Year 2016 State Facilities Energy Report - DOA\_Air Services

Electric kwh/GSF = 4.65		Therm/GSF = 0.94		Total Btu/GSF = 109,453					
Electric \$/GSF = \$ 0.75		Thermal \$/GSF = \$ 0.52		Energy \$/GSF = \$ 1.27					
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05	Weather Thermal Adjusted to FY05	Weather Electric Adjusted to FY05	Total Weather Adjusted Btu/GSF	Adjusted % Change From FY05
FY05	17,898	96,324	18,938	115,262	0.0%	100.0%	100.0%	115,262	0.0%
FY06	17,898	84,250	18,673	102,922	-10.7%	102.1%	100.1%	104,714	-9.2%
FY07	17,898	98,195	18,172	116,368	1.0%	97.4%	99.5%	113,741	-1.3%
FY08	17,898	90,479	18,641	109,121	-5.3%	78.9%	98.7%	89,738	-22.1%
FY09	17,898	101,235	17,950	119,184	3.4%	83.1%	98.7%	101,793	-11.7%
FY10	17,898	90,703	17,575	108,277	-6.1%	97.5%	99.6%	105,893	-8.1%
FY11	17,898	99,598	18,691	118,289	2.6%	83.9%	98.6%	102,024	-11.5%
FY12	17,898	73,394	17,939	91,332	-20.8%	124.5%	101.4%	109,532	-5.0%
FY13	17,898	99,302	18,995	118,297	2.6%	89.2%	99.1%	107,367	-6.8%
FY14	17,898	119,835	17,712	137,547	19.3%	78.0%	99.4%	111,088	-3.6%
FY15	17,898	110,975	15,412	126,387	9.7%	91.4%	98.9%	116,664	1.2%
FY16	17,898	93,582	15,871	109,453	-5.0%	110.5%	100.6%	119,369	3.6%



### Fiscal Year 2016 State Facilities Energy Report - DOA\_Badger Road

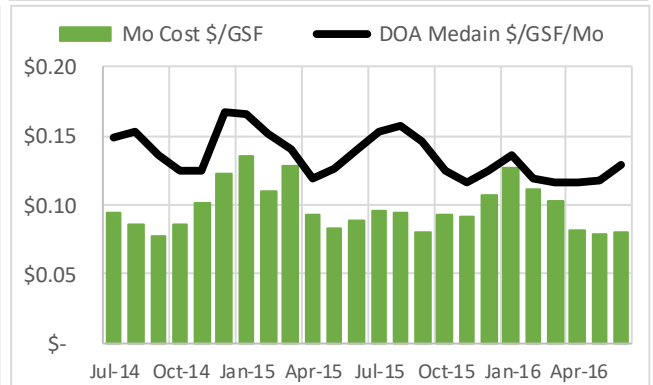
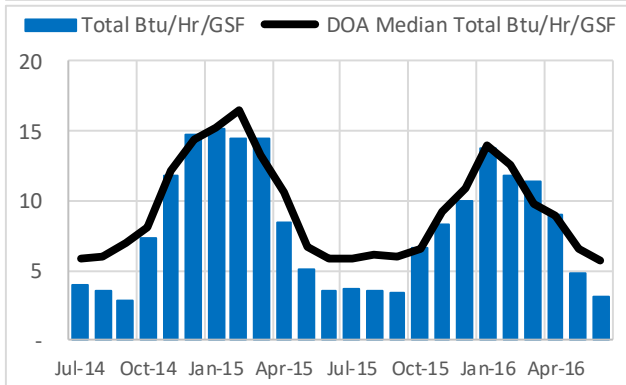
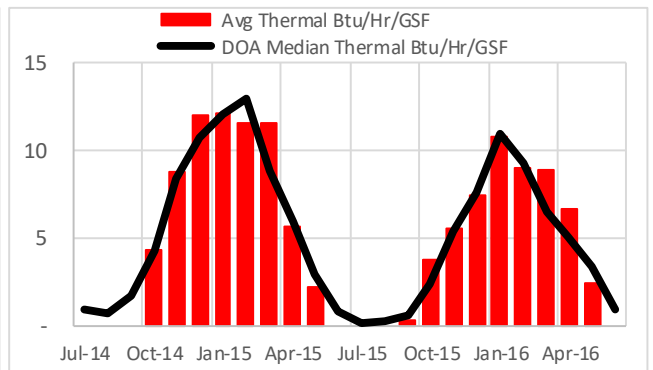
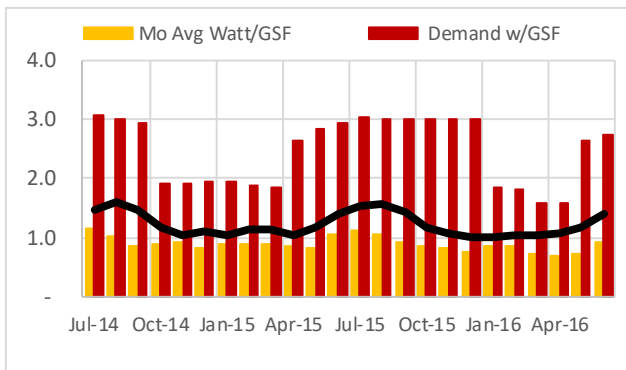
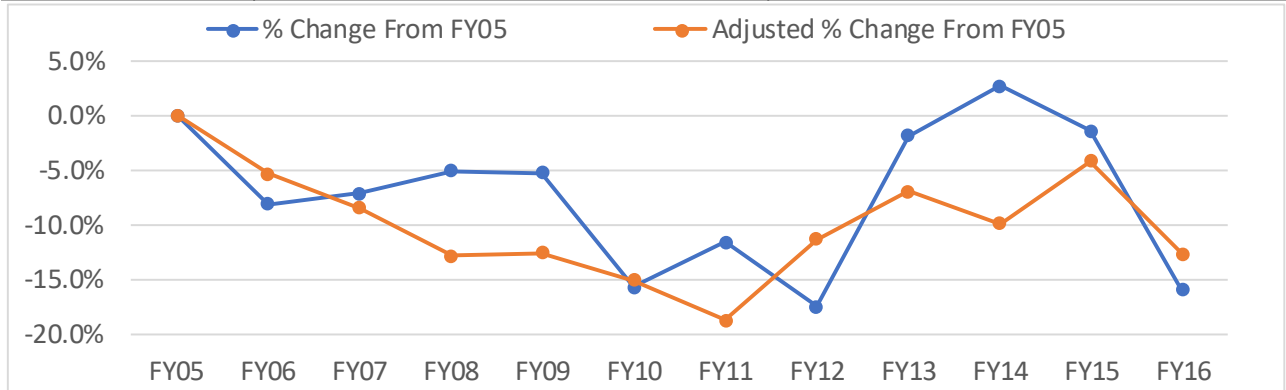
Electric kwh/GSF = 11.17		Therm/GSF = 0.47		Total Btu/GSF = 84,633					
Electric \$/GSF = \$ 1.55		Thermal \$/GSF = \$ 0.25		Energy \$/GSF = \$ 1.80					
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05	Weather Thermal Adjusted to FY05	Weather Electric Adjusted to FY05	Total Weather Adjusted Btu/GSF	Adjusted % Change From FY05
FY05	50,842	50,468	57,475	107,943	0.0%	100.0%	100.0%	107,943	0.0%
FY06	50,842	51,428	54,174	105,602	-2.2%	102.5%	99.5%	106,644	-1.2%
FY07	50,842	54,172	48,882	103,054	-4.5%	97.7%	98.6%	101,090	-6.3%
FY08	50,842	58,031	42,583	100,614	-6.8%	85.2%	98.3%	91,289	-15.4%
FY09	50,842	52,040	41,016	93,056	-13.8%	87.8%	99.1%	86,376	-20.0%
FY10	50,842	45,016	39,848	84,864	-21.4%	100.6%	100.5%	85,312	-21.0%
FY11	50,842	50,446	40,973	91,419	-15.3%	88.6%	98.7%	85,133	-21.1%
FY12	50,842	45,590	41,985	87,575	-18.9%	123.7%	98.1%	97,592	-9.6%
FY13	50,842	51,959	40,069	92,028	-14.7%	91.9%	98.7%	87,322	-19.1%
FY14	50,842	59,784	40,184	99,968	-7.4%	82.9%	97.9%	88,882	-17.7%
FY15	50,842	52,915	37,791	90,706	-16.0%	94.7%	99.7%	87,760	-18.7%
FY16	50,842	46,527	38,106	84,633	-21.6%	105.8%	99.4%	87,080	-19.3%



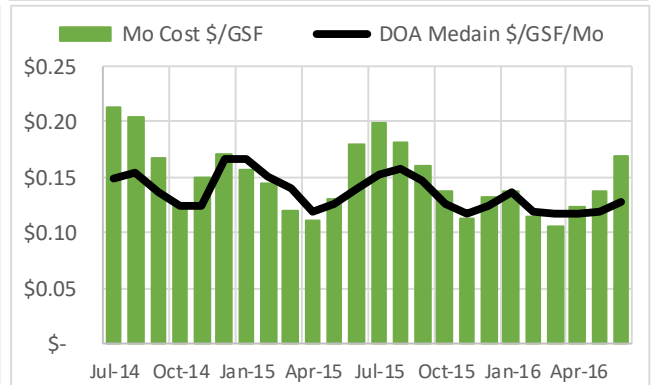
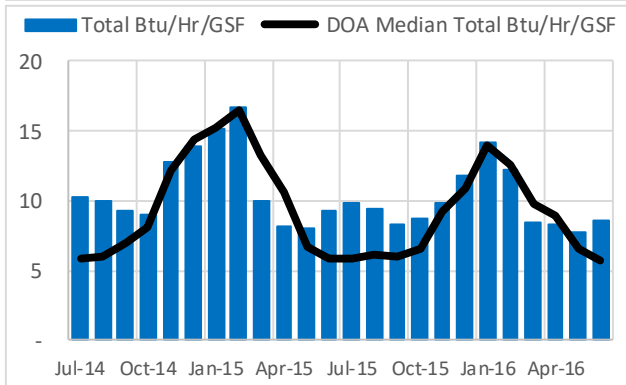
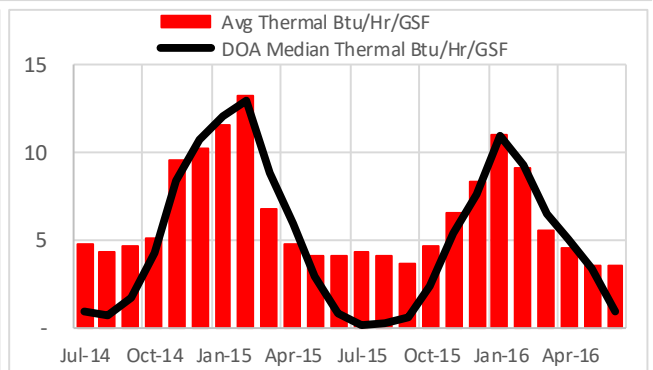
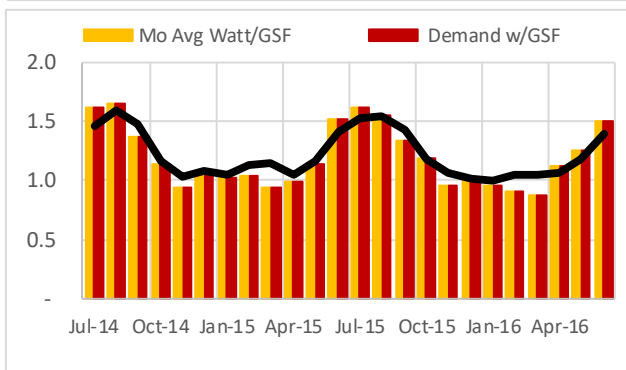
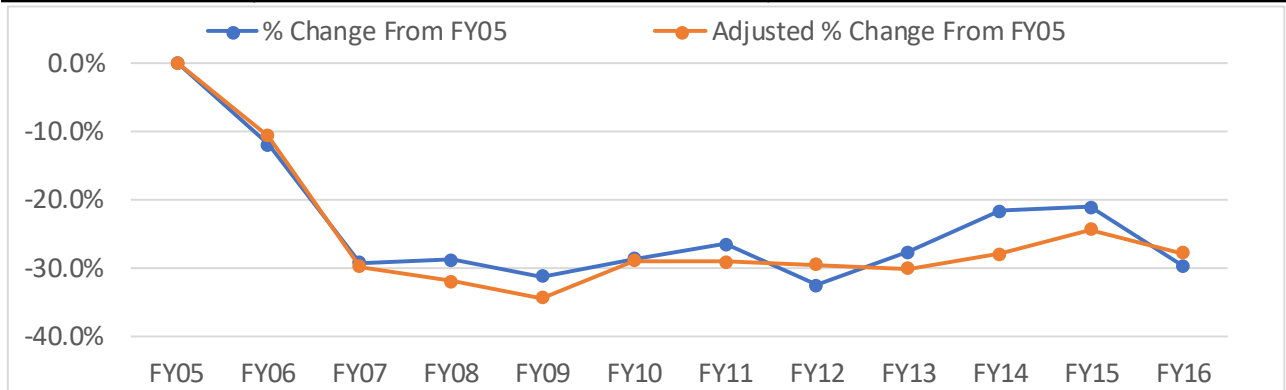


### Fiscal Year 2016 State Facilities Energy Report - DOA\_Eau Claire SOB

Electric kwh/GSF = 7.47		Therm/GSF = 0.40		Total Btu/GSF = 65,476					
Electric \$/GSF = \$ 0.84		Thermal \$/GSF = \$ 0.31		Energy \$/GSF = \$ 1.14					
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05	Weather Thermal Adjusted to FY05	Weather Electric Adjusted to FY05	Total Weather Adjusted Btu/GSF	Adjusted % Change From FY05
FY05	56,206	37,587	40,349	77,936	0.0%	100.0%	100.0%	77,936	0.0%
FY06	56,206	32,196	39,397	71,593	-8.1%	108.2%	98.7%	73,750	-5.4%
FY07	56,206	34,060	38,328	72,388	-7.1%	98.7%	98.4%	71,306	-8.5%
FY08	56,206	37,252	36,735	73,987	-5.1%	85.1%	98.6%	67,922	-12.8%
FY09	56,206	37,854	35,948	73,802	-5.3%	85.3%	99.6%	68,099	-12.6%
FY10	56,206	32,479	33,179	65,658	-15.8%	101.5%	100.1%	66,174	-15.1%
FY11	56,206	37,056	31,790	68,846	-11.7%	86.0%	98.9%	63,287	-18.8%
FY12	56,206	31,945	32,305	64,250	-17.6%	115.8%	99.4%	69,093	-11.3%
FY13	56,206	45,261	31,187	76,448	-1.9%	91.9%	99.2%	72,528	-6.9%
FY14	56,206	49,631	30,410	80,041	2.7%	81.3%	98.0%	70,169	-10.0%
FY15	56,206	49,416	27,443	76,858	-1.4%	95.7%	99.8%	74,686	-4.2%
FY16	56,206	39,969	25,508	65,476	-16.0%	106.2%	100.4%	68,055	-12.7%

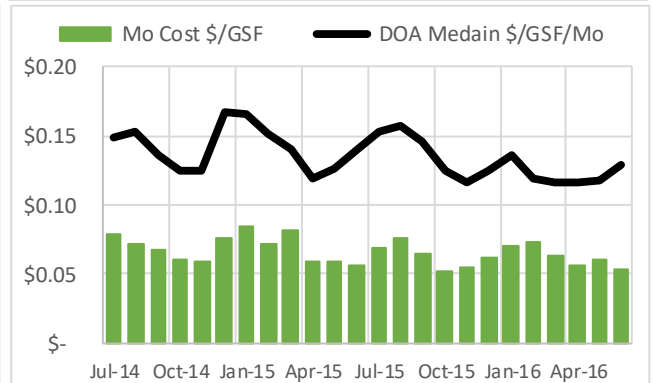
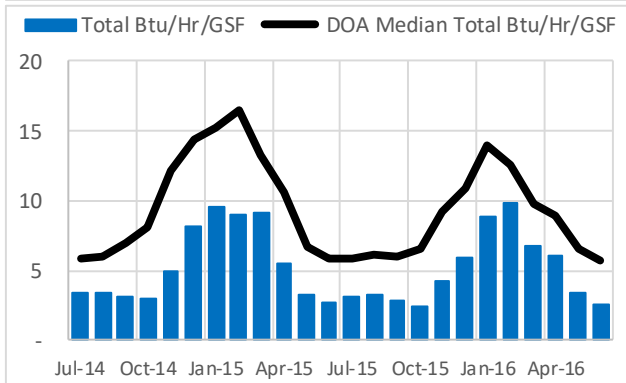
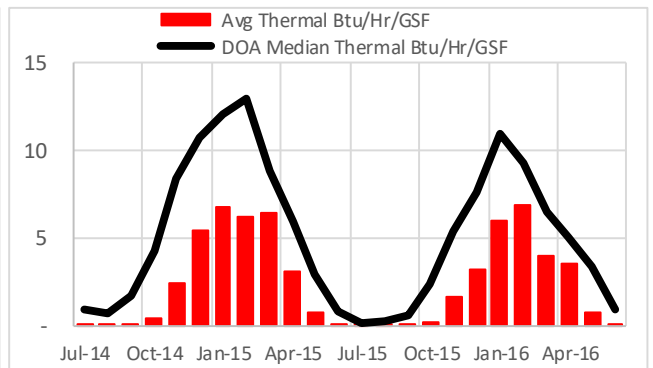
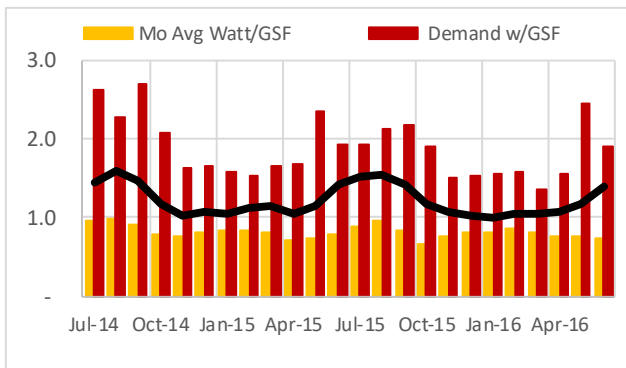
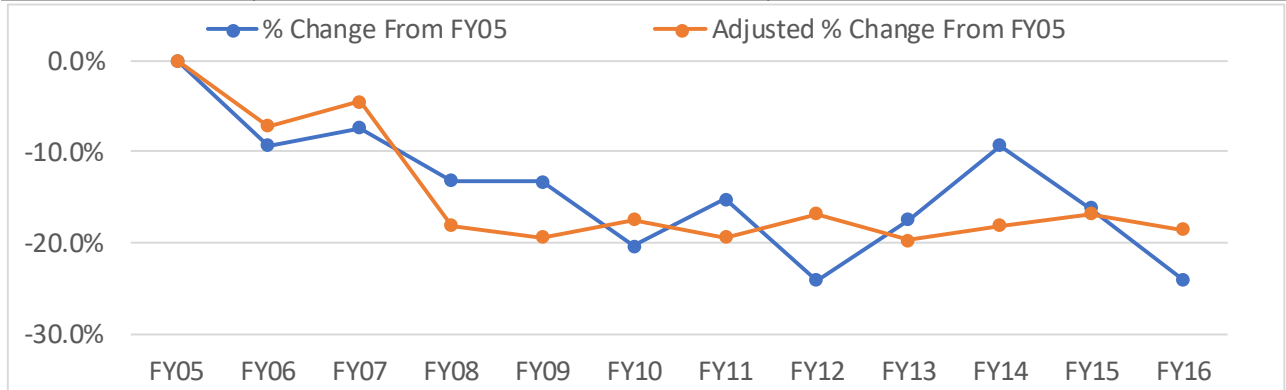


Fiscal Year 2016 State Facilities Energy Report - DOA_Executive Residence										
Electric kwh/GSF =		10.44		Therm/GSF =		0.50		Total Btu/GSF =		85,895
Electric \$/GSF =		\$ 1.47		Thermal \$/GSF =		\$ 0.24		Energy \$/GSF =		\$ 1.71
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05	Weather Thermal Adjusted to FY05	Weather Electric Adjusted to FY05	Total Weather Adjusted Btu/GSF	Adjusted % Change From FY05	
FY05	23,455	89,090	33,078	122,168	0.0%	100.0%	100.0%	122,168	0.0%	
FY06	23,455	74,824	32,752	107,576	-11.9%	102.5%	99.1%	109,152	-10.7%	
FY07	23,455	55,242	31,175	86,417	-29.3%	98.8%	99.8%	85,700	-29.9%	
FY08	23,455	56,001	30,866	86,867	-28.9%	93.8%	98.7%	82,967	-32.1%	
FY09	23,455	54,509	29,463	83,972	-31.3%	93.2%	99.2%	80,001	-34.5%	
FY10	23,455	56,321	30,779	87,099	-28.7%	98.7%	100.8%	86,635	-29.1%	
FY11	23,455	57,779	31,877	89,656	-26.6%	95.0%	99.3%	86,548	-29.2%	
FY12	23,455	49,196	33,081	82,277	-32.7%	108.7%	98.1%	85,959	-29.6%	
FY13	23,455	52,147	36,166	88,313	-27.7%	95.3%	98.3%	85,255	-30.2%	
FY14	23,455	58,460	37,178	95,637	-21.7%	89.0%	96.3%	87,828	-28.1%	
FY15	23,455	60,392	35,975	96,367	-21.1%	93.2%	100.0%	92,239	-24.5%	
FY16	23,455	50,278	35,617	85,895	-29.7%	105.3%	98.8%	88,137	-27.9%	



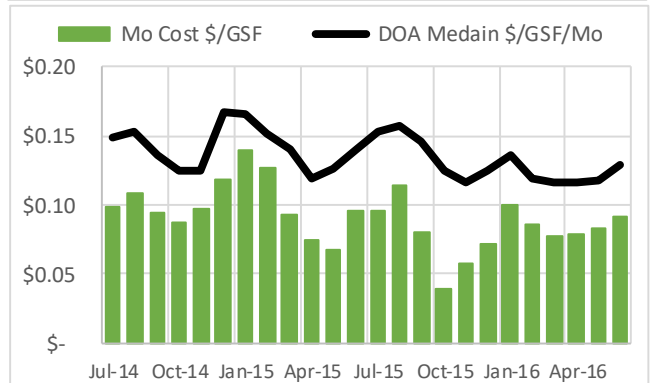
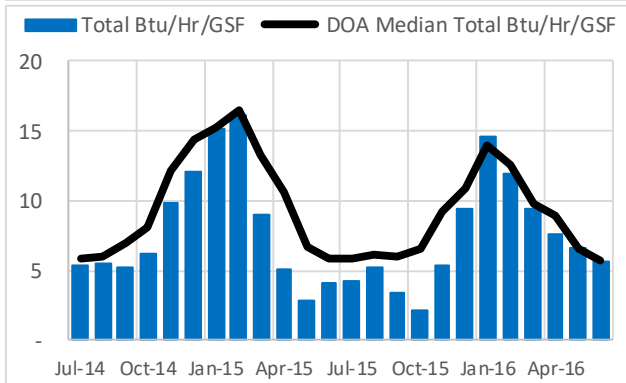
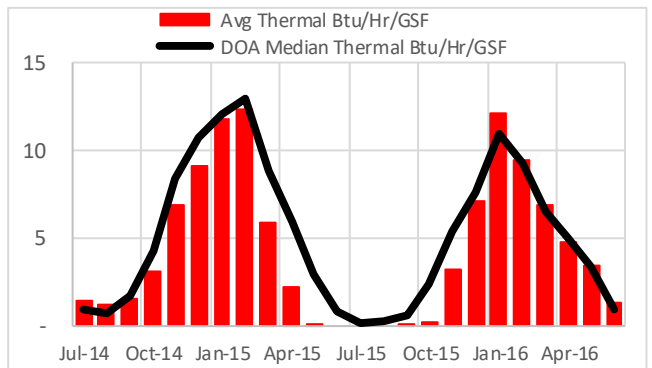
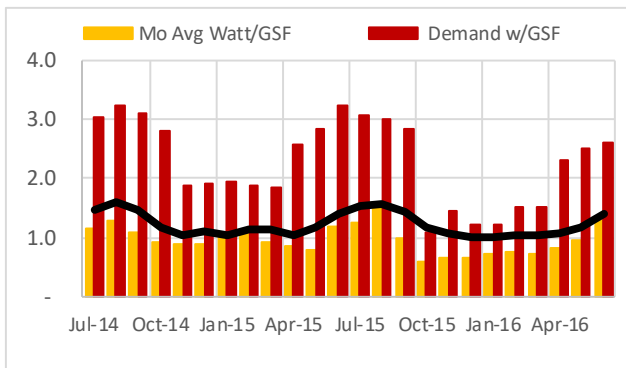
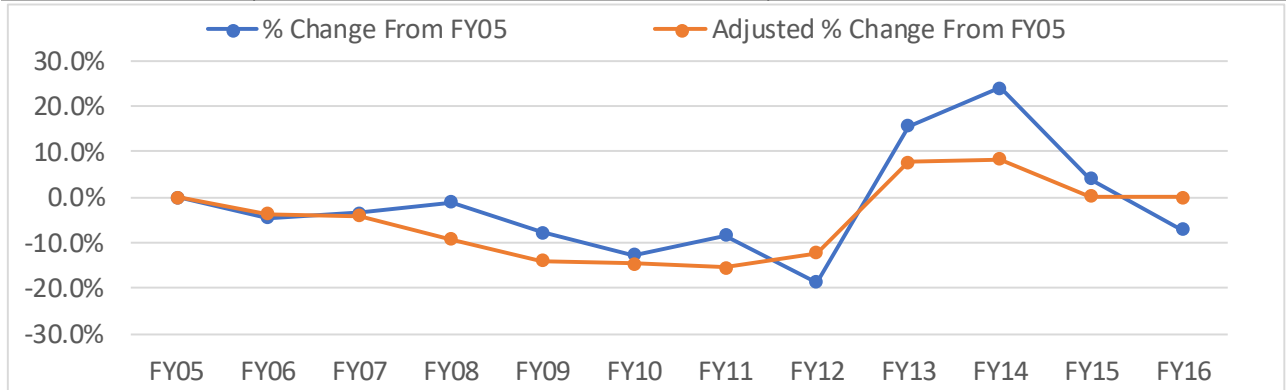
### Fiscal Year 2016 State Facilities Energy Report - DOA\_Green Bay SOB

Electric kwh/GSF = 7.10		Therm/GSF = 0.19		Total Btu/GSF = 43,375					
Electric \$/GSF = \$ 0.66		Thermal \$/GSF = \$ 0.10		Energy \$/GSF = \$ 0.76					
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05	Weather Thermal Adjusted to FY05	Weather Electric Adjusted to FY05	Total Weather Adjusted Btu/GSF	Adjusted % Change From FY05
FY05	69,206	25,116	31,967	57,083	0.0%	100.0%	100.0%	57,083	0.0%
FY06	69,206	17,639	34,117	51,756	-9.3%	107.9%	99.5%	52,976	-7.2%
FY07	69,206	22,474	30,409	52,883	-7.4%	107.2%	100.1%	54,527	-4.5%
FY08	69,206	19,469	30,073	49,542	-13.2%	88.1%	98.4%	46,753	-18.1%
FY09	69,206	22,037	27,430	49,467	-13.3%	86.1%	98.5%	45,999	-19.4%
FY10	69,206	18,068	27,351	45,419	-20.4%	107.9%	100.9%	47,090	-17.5%
FY11	69,206	20,849	27,519	48,368	-15.3%	90.6%	98.4%	45,969	-19.5%
FY12	69,206	16,866	26,453	43,320	-24.1%	121.6%	101.9%	47,459	-16.9%
FY13	69,206	20,019	27,095	47,114	-17.5%	94.3%	99.5%	45,837	-19.7%
FY14	69,206	25,164	26,603	51,767	-9.3%	82.4%	97.7%	46,711	-18.2%
FY15	69,206	22,995	24,819	47,814	-16.2%	98.7%	99.8%	47,459	-16.9%
FY16	69,206	19,149	24,227	43,375	-24.0%	115.4%	100.8%	46,520	-18.5%



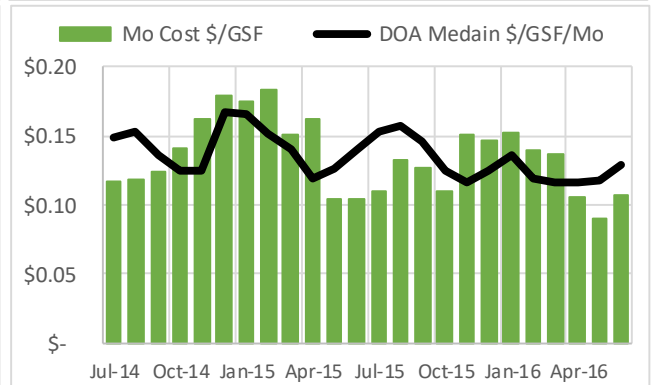
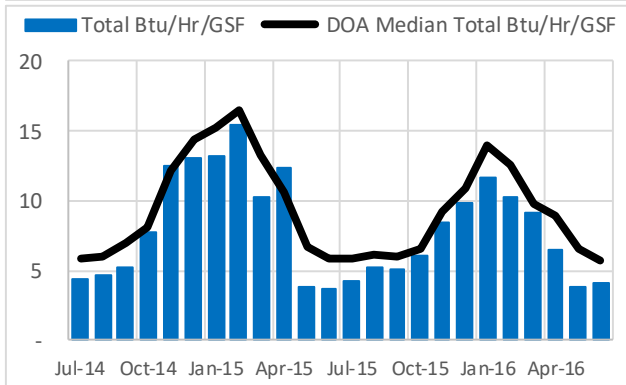
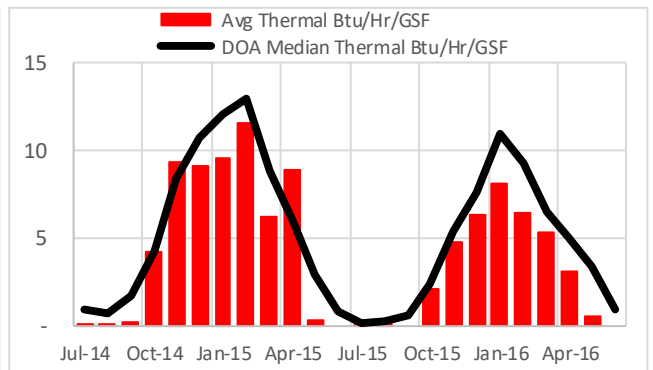
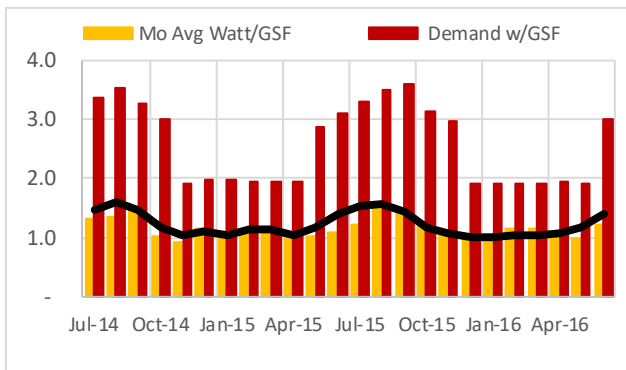
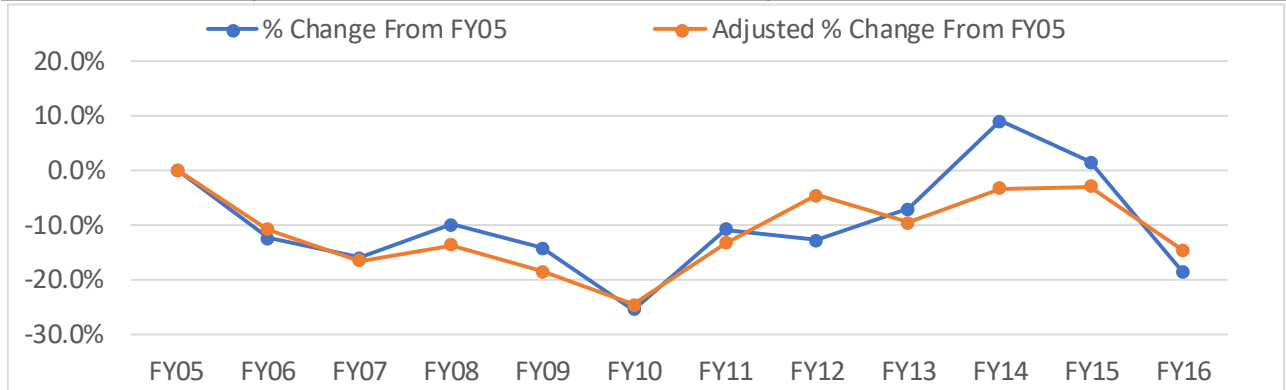
### Fiscal Year 2016 State Facilities Energy Report - DOA\_La Crosse SOB

Electric kwh/GSF =		8.00		Therm/GSF =		0.35		Total Btu/GSF =		62,708	
Electric \$/GSF =		\$ 0.78		Thermal \$/GSF =		\$ 0.20		Energy \$/GSF =		\$ 0.98	
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05	Weather Thermal Adjusted to FY05	Weather Electric Adjusted to FY05	Total Weather Adjusted Btu/GSF	Adjusted % Change From FY05		
FY05	45,965	34,964	32,505	67,468	0.0%	100.0%	100.0%	67,468	0.0%		
FY06	45,965	28,585	35,819	64,404	-4.5%	103.2%	98.9%	64,924	-3.8%		
FY07	45,965	29,512	35,552	65,064	-3.6%	99.5%	99.2%	64,643	-4.2%		
FY08	45,965	30,993	35,730	66,723	-1.1%	85.4%	97.3%	61,234	-9.2%		
FY09	45,965	29,773	32,487	62,259	-7.7%	86.8%	99.0%	58,002	-14.0%		
FY10	45,965	27,401	31,435	58,837	-12.8%	95.7%	99.8%	57,594	-14.6%		
FY11	45,965	30,778	30,972	61,750	-8.5%	86.9%	97.9%	57,071	-15.4%		
FY12	45,965	23,611	31,222	54,833	-18.7%	119.1%	99.7%	59,246	-12.2%		
FY13	45,965	45,670	32,309	77,978	15.6%	89.0%	99.1%	72,658	7.7%		
FY14	45,965	51,560	32,126	83,685	24.0%	81.7%	96.5%	73,141	8.4%		
FY15	45,965	40,100	30,047	70,147	4.0%	94.9%	98.5%	67,658	0.3%		
FY16	45,965	35,412	27,296	62,708	-7.1%	114.8%	98.1%	67,422	-0.1%		



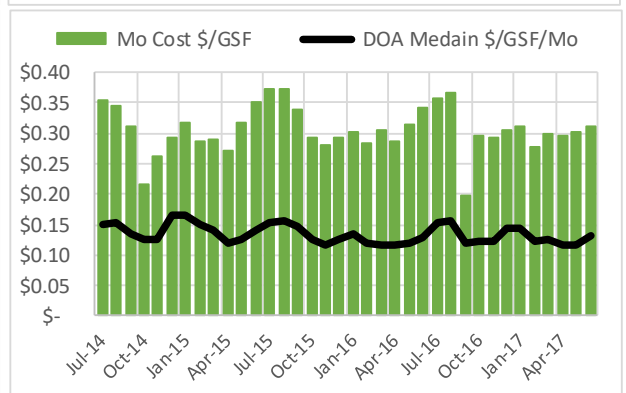
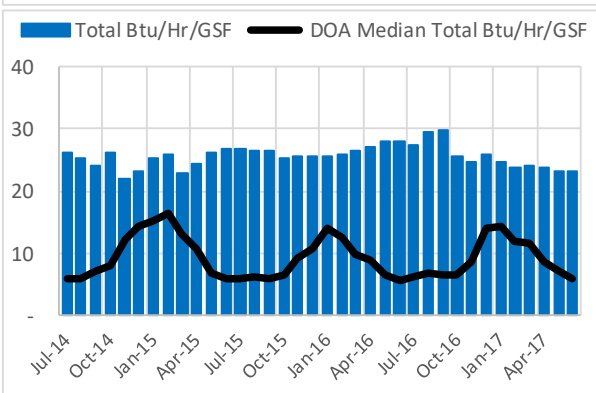
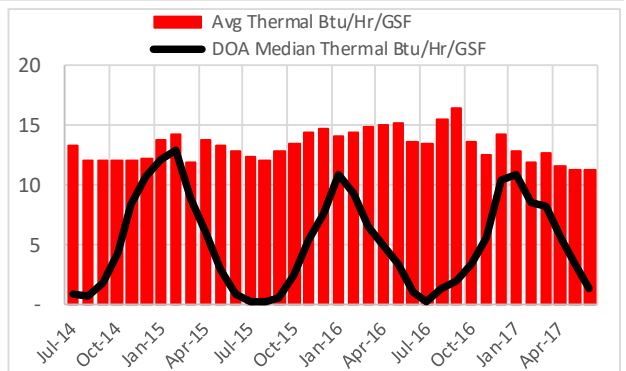
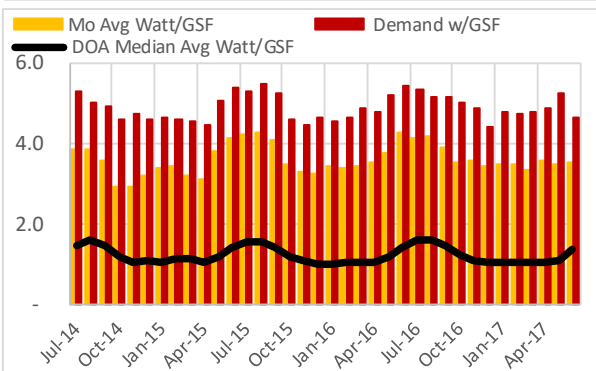
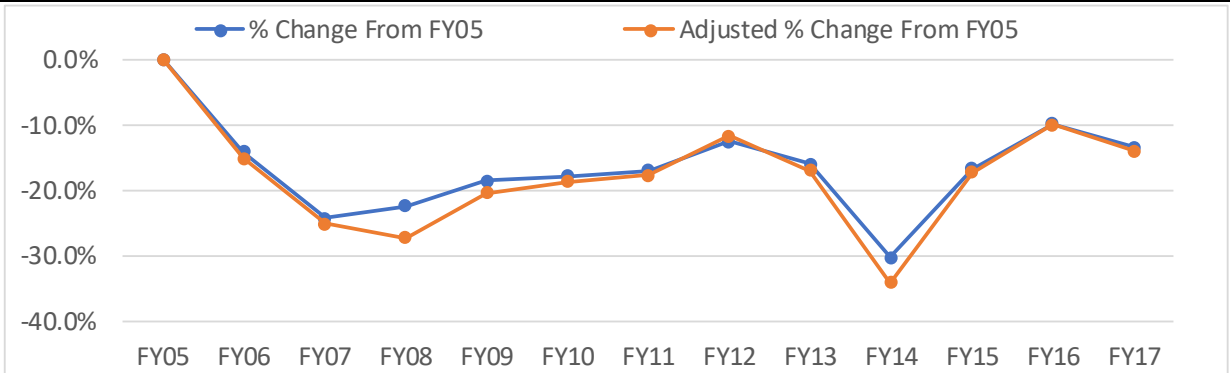
### Fiscal Year 2016 State Facilities Energy Report - DOA\_Milwaukee SOB

Electric kwh/GSF = 10.30		Therm/GSF = 0.27		Total Btu/GSF = 61,884					
Electric \$/GSF = \$ 1.20		Thermal \$/GSF = \$ 0.31		Energy \$/GSF = \$ 1.51					
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05	Weather Thermal Adjusted to FY05	Weather Electric Adjusted to FY05	Total Weather Adjusted Btu/GSF	Adjusted % Change From FY05
FY05	201,200	37,712	38,403	76,115	0.0%	100.0%	100.0%	76,115	0.0%
FY06	201,200	30,068	36,524	66,591	-12.5%	106.1%	98.3%	67,824	-10.9%
FY07	201,200	26,487	37,372	63,859	-16.1%	100.0%	98.9%	63,443	-16.6%
FY08	201,200	33,774	34,693	68,467	-10.0%	93.3%	98.2%	65,572	-13.9%
FY09	201,200	29,957	35,221	65,178	-14.4%	90.5%	98.8%	61,893	-18.7%
FY10	201,200	24,808	31,817	56,624	-25.6%	103.0%	99.9%	57,350	-24.7%
FY11	201,200	32,655	35,188	67,844	-10.9%	94.5%	99.5%	65,851	-13.5%
FY12	201,200	29,479	36,783	66,263	-12.9%	122.4%	99.1%	72,524	-4.7%
FY13	201,200	34,379	36,228	70,607	-7.2%	95.4%	99.1%	68,696	-9.7%
FY14	201,200	46,853	36,023	82,875	8.9%	82.0%	97.4%	73,499	-3.4%
FY15	201,200	43,010	34,206	77,216	1.4%	91.8%	100.4%	73,826	-3.0%
FY16	201,200	26,727	35,157	61,884	-18.7%	112.0%	99.4%	64,870	-14.8%



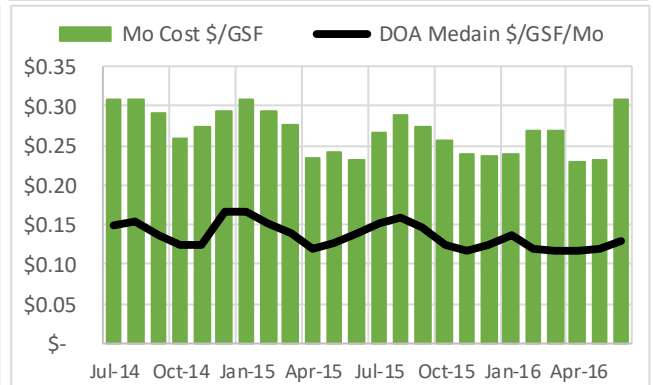
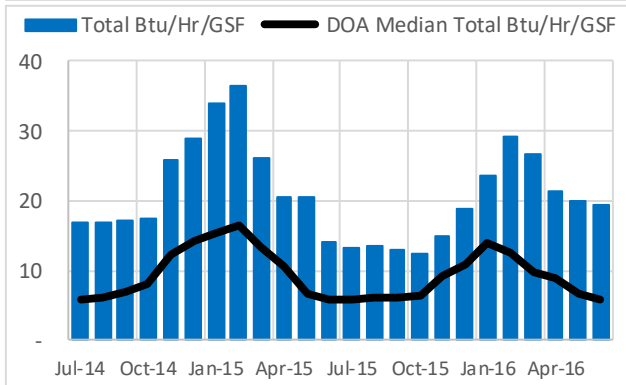
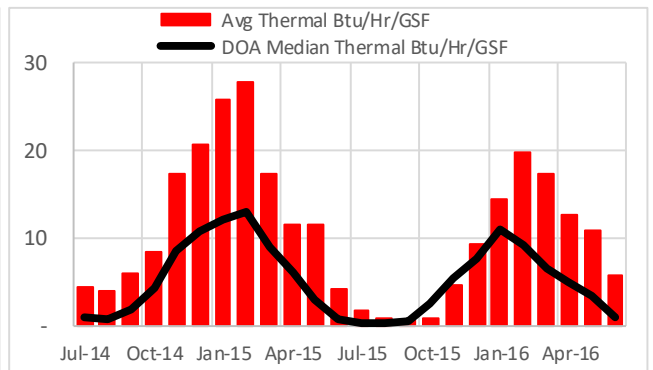
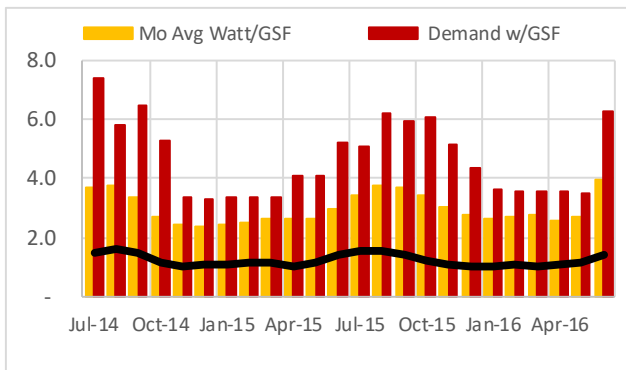
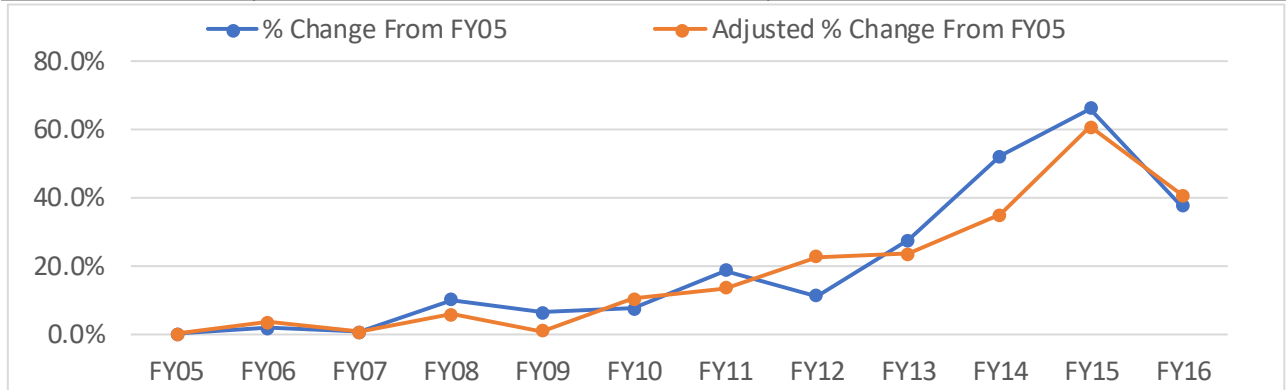
### Fiscal Year 2017 State Facilities Energy Report - DOA\_Public Broadcasting

Electric kwh/GSF =		31.84		Therm/GSF =		1.15		Total Btu/GSF =		223,480	
Electric \$/GSF =		\$ 3.03		Thermal \$/GSF =		\$ 0.58		Energy \$/GSF =		\$ 3.61	
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05	Weather Thermal Adjusted to FY05	Weather Electric Adjusted to FY05	Total Weather Adjusted Btu/GSF	Adjusted % Change From FY05		
FY05	48,246	128,605	129,746	258,351	0.0%	100.0%	100.0%	258,351	0.0%		
FY06	48,246	98,018	123,853	221,871	-14.1%	99.0%	98.7%	219,243	-15.1%		
FY07	48,246	95,086	100,630	195,716	-24.2%	98.1%	99.3%	193,206	-25.2%		
FY08	48,246	97,915	102,515	200,430	-22.4%	91.1%	96.3%	187,897	-27.3%		
FY09	48,246	105,107	105,091	210,198	-18.6%	97.1%	98.5%	205,534	-20.4%		
FY10	48,246	107,512	104,616	212,128	-17.9%	97.9%	100.0%	209,885	-18.8%		
FY11	48,246	111,323	102,905	214,228	-17.1%	100.6%	97.7%	212,488	-17.8%		
FY12	48,246	122,323	103,573	225,896	-12.6%	102.3%	99.6%	228,267	-11.6%		
FY13	48,246	112,353	104,457	216,810	-16.1%	100.0%	97.7%	214,409	-17.0%		
FY14	48,246	84,388	95,518	179,907	-30.4%	95.0%	94.2%	170,140	-34.1%		
FY15	48,246	111,889	103,084	214,973	-16.8%	99.3%	99.5%	213,681	-17.3%		
FY16	48,246	122,171	110,776	232,947	-9.8%	100.1%	99.5%	232,509	-10.0%		
FY17	48,246	114,796	108,685	223,480	-13.5%	99.4%	99.4%	222,118	-14.0%		



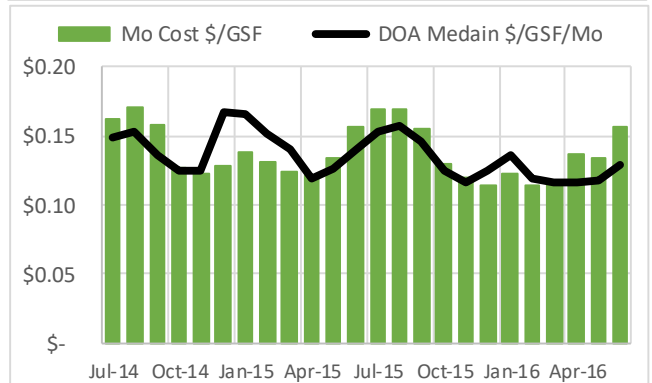
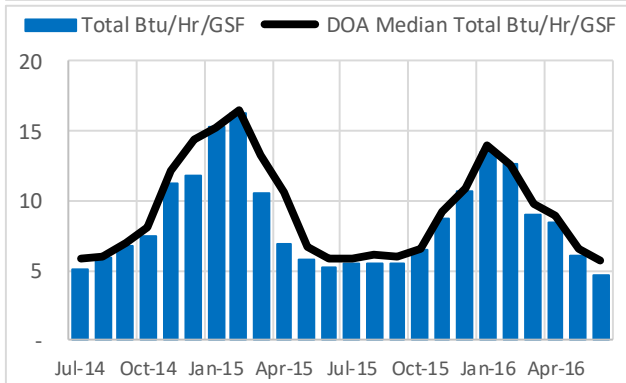
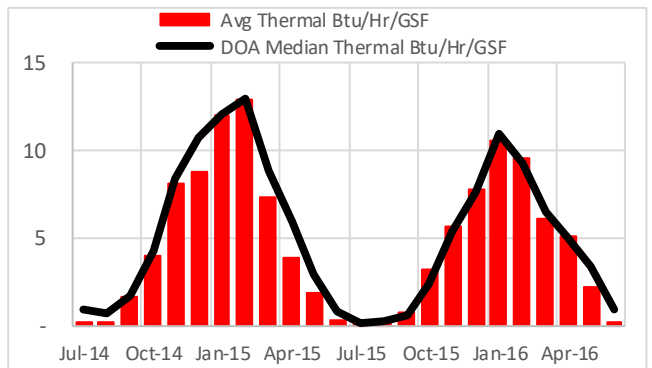
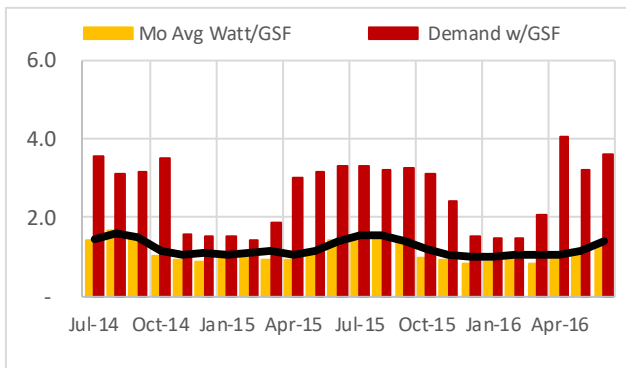
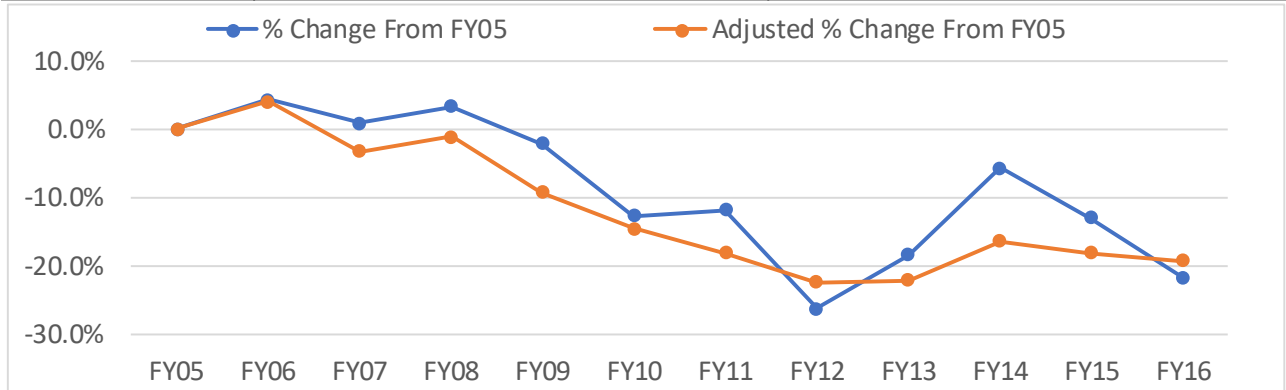
### Fiscal Year 2016 State Facilities Energy Report - DOA\_SE Crime Lab

Electric kwh/GSF = 27.44		Therm/GSF = 0.72		Total Btu/GSF = 165,530					
Electric \$/GSF = \$ 2.66		Thermal \$/GSF = \$ 0.44		Energy \$/GSF = \$ 3.10					
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05	Weather Thermal Adjusted to FY05	Weather Electric Adjusted to FY05	Total Weather Adjusted Btu/GSF	Adjusted % Change From FY05
FY05	43,935	51,334	69,155	120,490	0.0%	100.0%	100.0%	120,490	0.0%
FY06	43,935	52,546	69,997	122,543	1.7%	107.0%	97.5%	124,465	3.3%
FY07	43,935	54,697	66,429	121,126	0.5%	100.7%	99.0%	120,865	0.3%
FY08	43,935	63,698	68,578	132,276	9.8%	93.8%	98.6%	127,399	5.7%
FY09	43,935	61,753	66,044	127,797	6.1%	90.3%	99.5%	121,492	0.8%
FY10	43,935	63,506	65,705	129,211	7.2%	105.7%	99.8%	132,697	10.1%
FY11	43,935	72,182	70,595	142,778	18.5%	93.1%	98.4%	136,664	13.4%
FY12	43,935	60,698	73,242	133,940	11.2%	125.2%	97.8%	147,639	22.5%
FY13	43,935	82,143	71,309	153,451	27.4%	95.1%	99.1%	148,749	23.5%
FY14	43,935	107,693	75,420	183,112	52.0%	80.8%	100.0%	162,378	34.8%
FY15	43,935	115,140	84,814	199,955	66.0%	93.5%	101.1%	193,406	60.5%
FY16	43,935	71,882	93,648	165,530	37.4%	106.6%	98.9%	169,252	40.5%



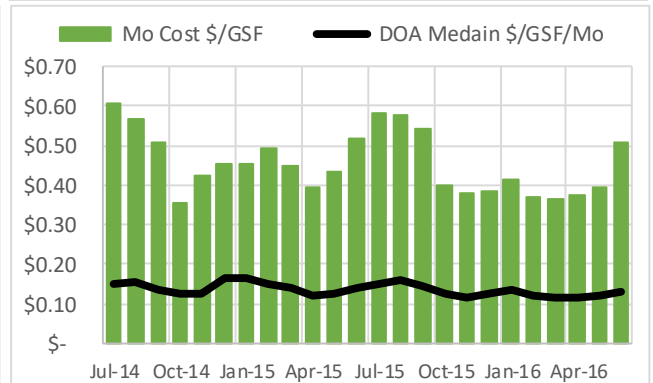
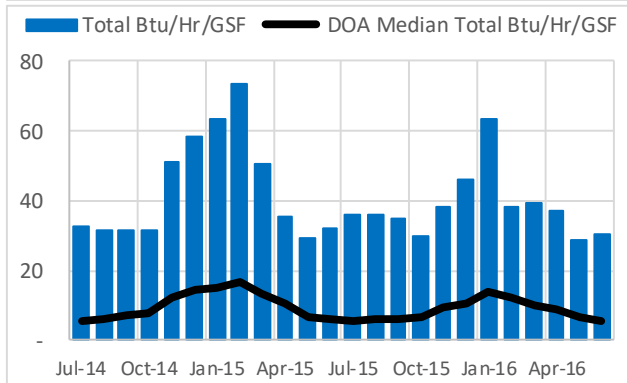
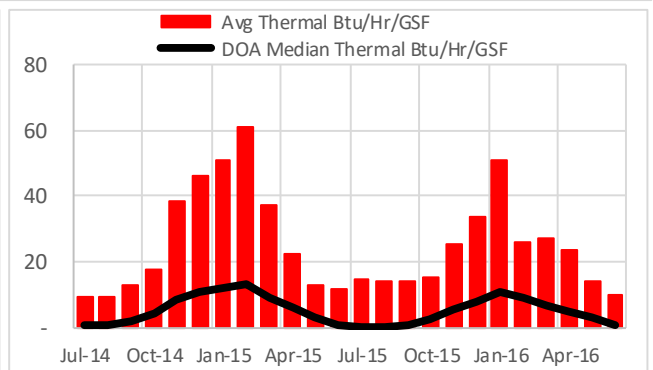
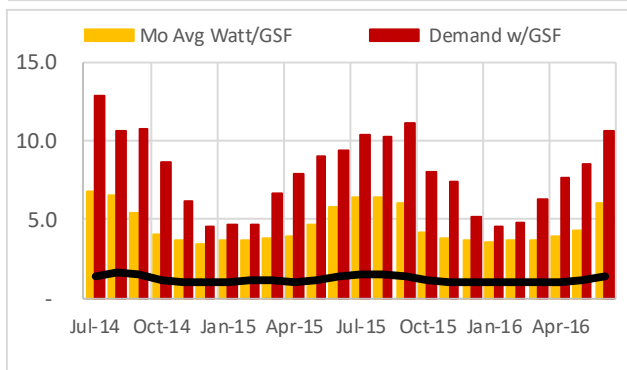
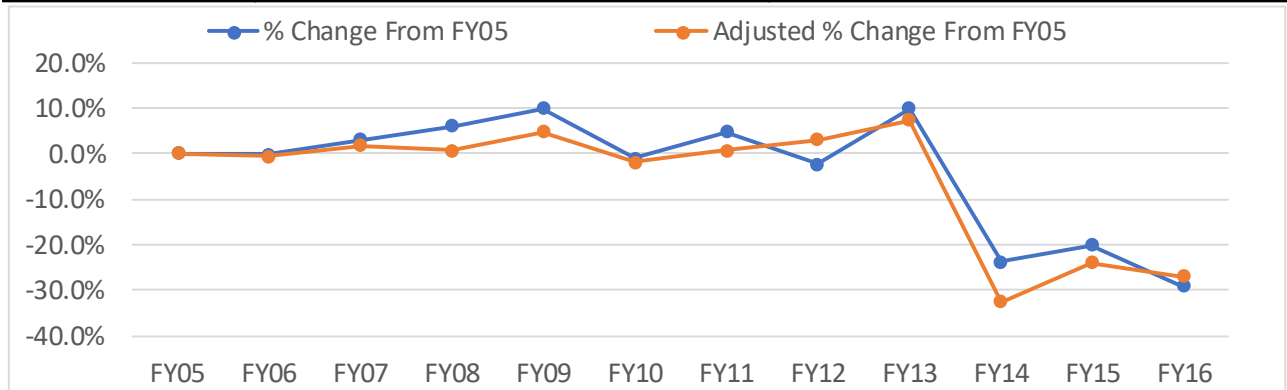
### Fiscal Year 2016 State Facilities Energy Report - DOA\_State Ag

Electric kwh/GSF =		9.74		Therm/GSF =		0.38		Total Btu/GSF =		70,790	
Electric \$/GSF =		\$ 1.46		Thermal \$/GSF =		\$ 0.17		Energy \$/GSF =		\$ 1.63	
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05	Weather Thermal Adjusted to FY05	Weather Electric Adjusted to FY05	Total Weather Adjusted Btu/GSF	Adjusted % Change From FY05		
FY05	118,011	44,767	45,771	90,538	0.0%	100.0%	100.0%	90,538	0.0%		
FY06	118,011	46,996	47,488	94,484	4.4%	100.7%	98.7%	94,229	4.1%		
FY07	118,011	45,919	45,363	91,283	0.8%	92.5%	99.3%	87,520	-3.3%		
FY08	118,011	50,343	43,200	93,542	3.3%	93.0%	98.9%	89,517	-1.1%		
FY09	118,011	48,159	40,397	88,556	-2.2%	86.8%	99.6%	82,058	-9.4%		
FY10	118,011	39,881	39,166	79,047	-12.7%	95.0%	100.8%	77,351	-14.6%		
FY11	118,011	41,563	38,225	79,788	-11.9%	88.4%	97.8%	74,132	-18.1%		
FY12	118,011	31,247	35,444	66,692	-26.3%	114.0%	97.3%	70,128	-22.5%		
FY13	118,011	38,563	35,237	73,799	-18.5%	92.5%	98.6%	70,415	-22.2%		
FY14	118,011	49,736	35,596	85,332	-5.8%	81.7%	98.2%	75,610	-16.5%		
FY15	118,011	44,184	34,587	78,771	-13.0%	89.3%	100.1%	74,056	-18.2%		
FY16	118,011	37,539	33,251	70,790	-21.8%	107.1%	98.7%	73,017	-19.4%		



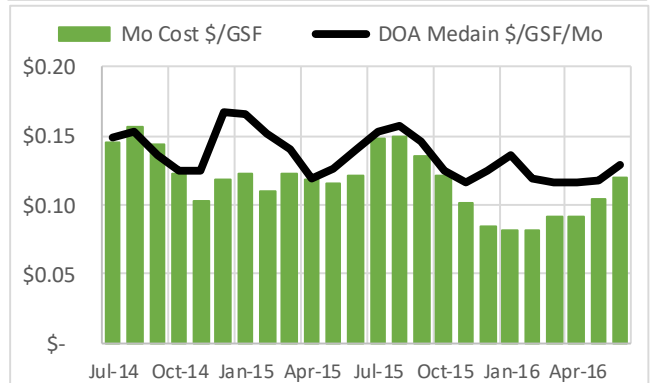
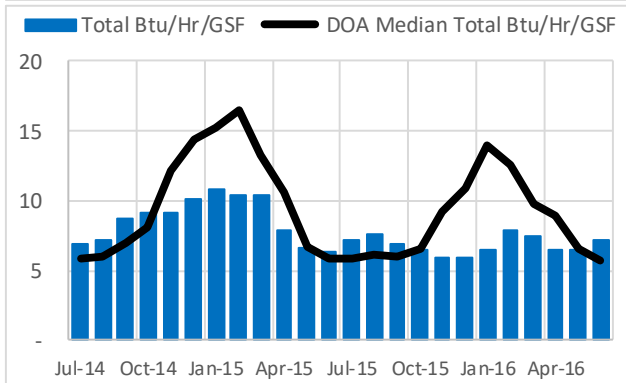
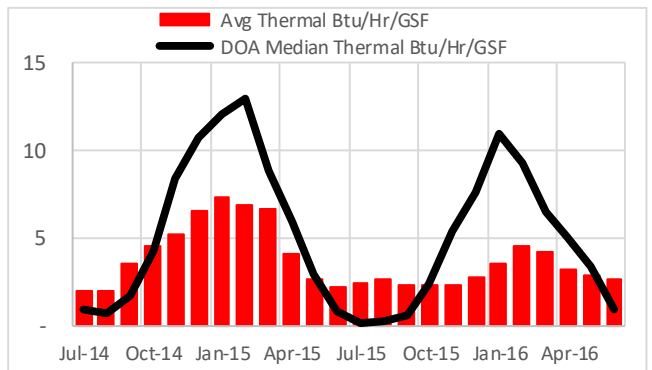
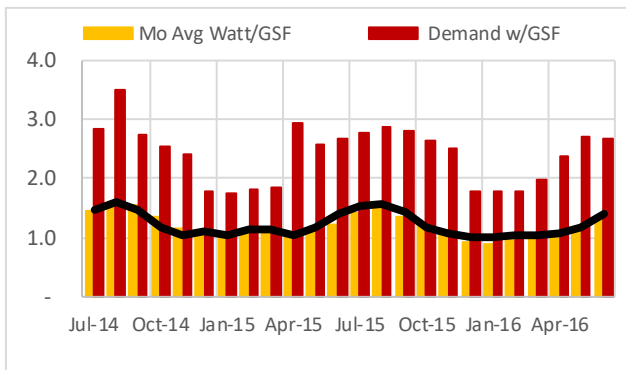
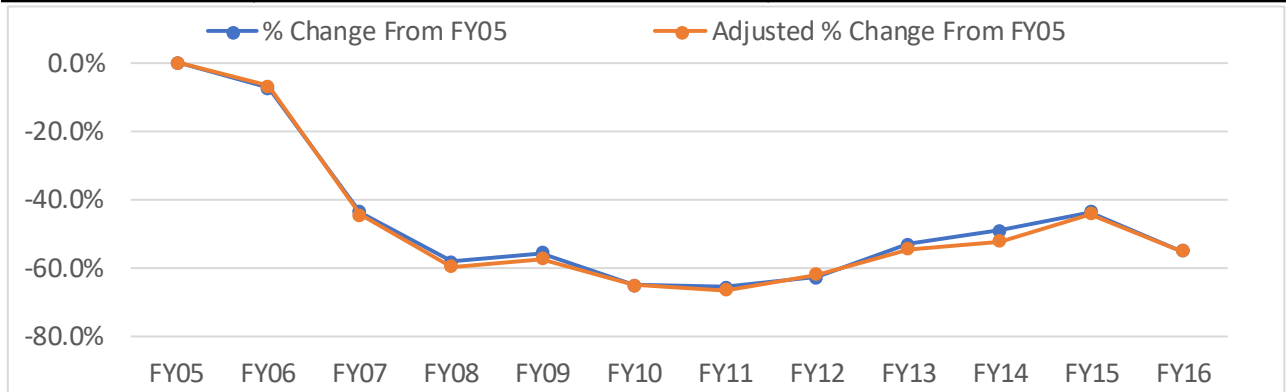


Fiscal Year 2016 State Facilities Energy Report - DOA_State Hygiene Lab										
Electric kwh/GSF =		40.80		Therm/GSF =		1.97		Total Btu/GSF =		335,769
Electric \$/GSF =		\$ 4.46		Thermal \$/GSF =		\$ 0.82		Energy \$/GSF =		\$ 5.29
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05	Weather Thermal Adjusted to FY05	Weather Electric Adjusted to FY05	Total Weather Adjusted Btu/GSF	Adjusted % Change From FY05	
FY05	77,505	297,710	176,259	473,969	0.0%	100.0%	100.0%	473,969	0.0%	
FY06	77,505	280,021	192,880	472,900	-0.2%	100.2%	98.9%	471,385	-0.5%	
FY07	77,505	298,923	189,399	488,322	3.0%	98.3%	99.6%	482,676	1.8%	
FY08	77,505	310,741	192,525	503,266	6.2%	92.3%	99.3%	477,776	0.8%	
FY09	77,505	326,824	194,168	520,992	9.9%	92.6%	100.1%	496,888	4.8%	
FY10	77,505	279,681	189,726	469,408	-1.0%	97.8%	100.8%	464,835	-1.9%	
FY11	77,505	300,107	196,508	496,615	4.8%	94.5%	98.6%	477,438	0.7%	
FY12	77,505	293,462	170,051	463,514	-2.2%	110.3%	96.9%	488,483	3.1%	
FY13	77,505	345,524	175,931	521,455	10.0%	96.4%	100.1%	509,180	7.4%	
FY14	160,344	229,182	132,158	361,340	-23.8%	81.9%	99.5%	319,171	-32.7%	
FY15	160,344	239,461	139,247	378,709	-20.1%	92.2%	100.4%	360,488	-23.9%	
FY16	160,344	196,523	139,246	335,769	-29.2%	106.2%	98.8%	346,200	-27.0%	



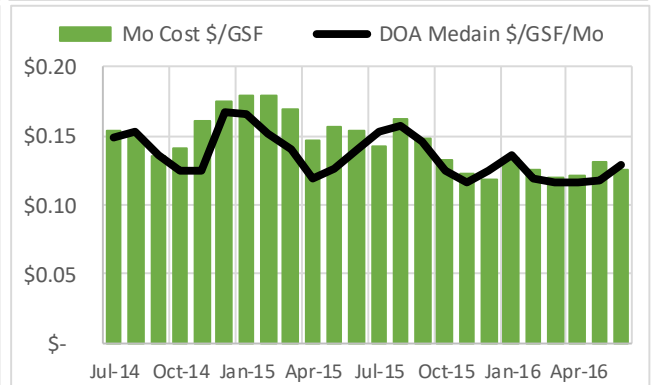
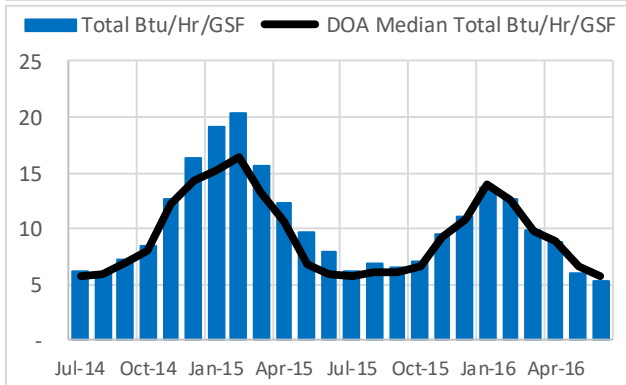
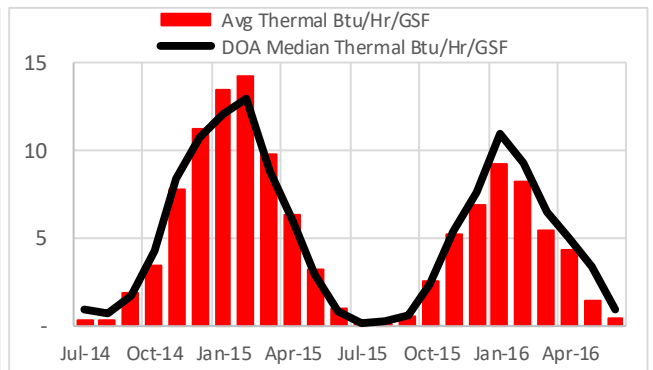
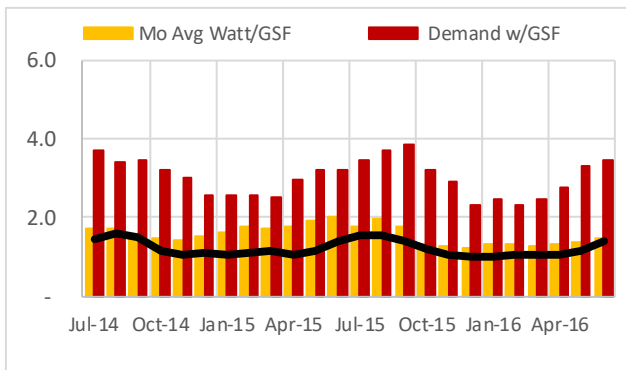
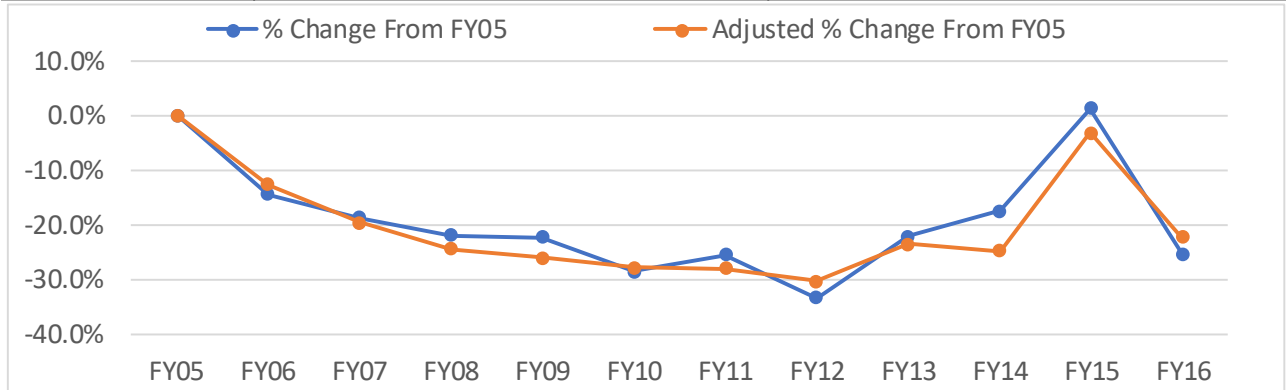
### Fiscal Year 2016 State Facilities Energy Report - DOA\_State Revenue

Electric kwh/GSF = 10.03		Therm/GSF = 0.26		Total Btu/GSF = 60,375					
Electric \$/GSF = \$ 1.25		Thermal \$/GSF = \$ 0.06		Energy \$/GSF = \$ 1.31					
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05	Weather Thermal Adjusted to FY05	Weather Electric Adjusted to FY05	Total Weather Adjusted Btu/GSF	Adjusted % Change From FY05
FY05	247,224	73,435	61,299	134,734	0.0%	100.0%	100.0%	134,734	0.0%
FY06	247,224	62,497	62,098	124,595	-7.5%	102.5%	98.7%	125,382	-6.9%
FY07	247,224	24,015	51,677	75,692	-43.8%	96.0%	100.0%	74,718	-44.5%
FY08	247,224	11,651	44,492	56,143	-58.3%	84.6%	99.5%	54,117	-59.8%
FY09	247,224	15,938	43,465	59,402	-55.9%	88.0%	99.9%	57,422	-57.4%
FY10	247,224	10,088	36,696	46,784	-65.3%	98.6%	100.6%	46,874	-65.2%
FY11	247,224	12,179	33,817	45,996	-65.9%	88.6%	101.2%	45,001	-66.6%
FY12	247,224	12,714	37,133	49,847	-63.0%	115.3%	97.9%	51,014	-62.1%
FY13	247,224	25,960	36,911	62,871	-53.3%	93.2%	99.8%	61,022	-54.7%
FY14	247,224	31,527	36,903	68,430	-49.2%	85.8%	100.4%	64,071	-52.4%
FY15	247,224	38,988	36,705	75,694	-43.8%	97.1%	100.7%	74,848	-44.4%
FY16	247,224	26,141	34,235	60,375	-55.2%	101.7%	98.8%	60,407	-55.2%



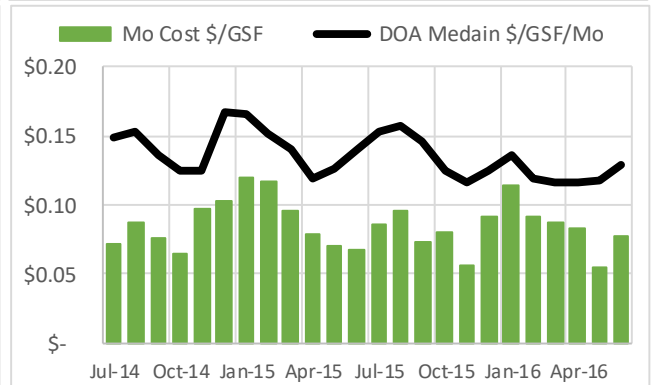
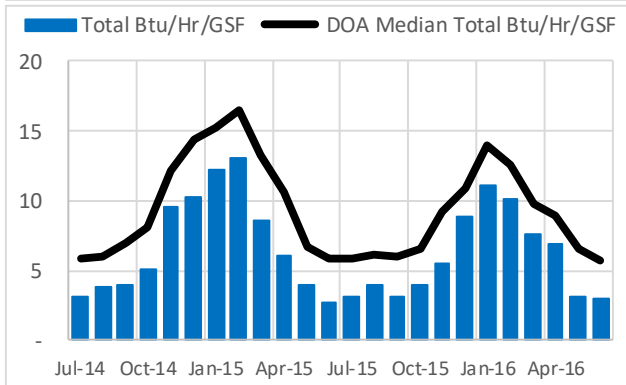
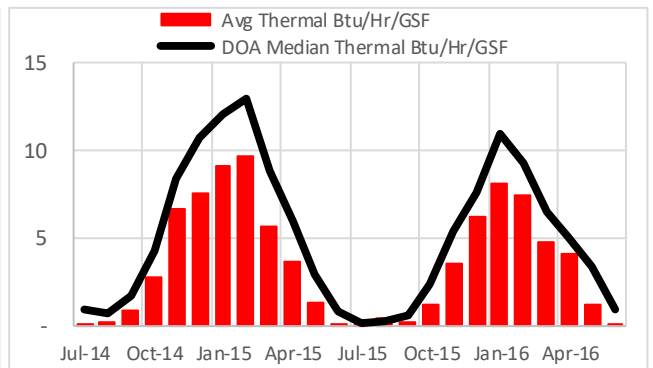
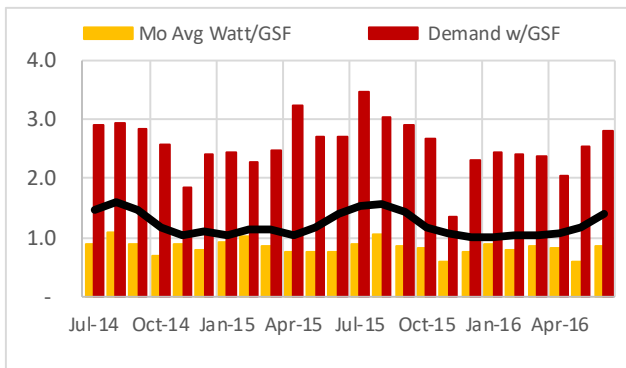
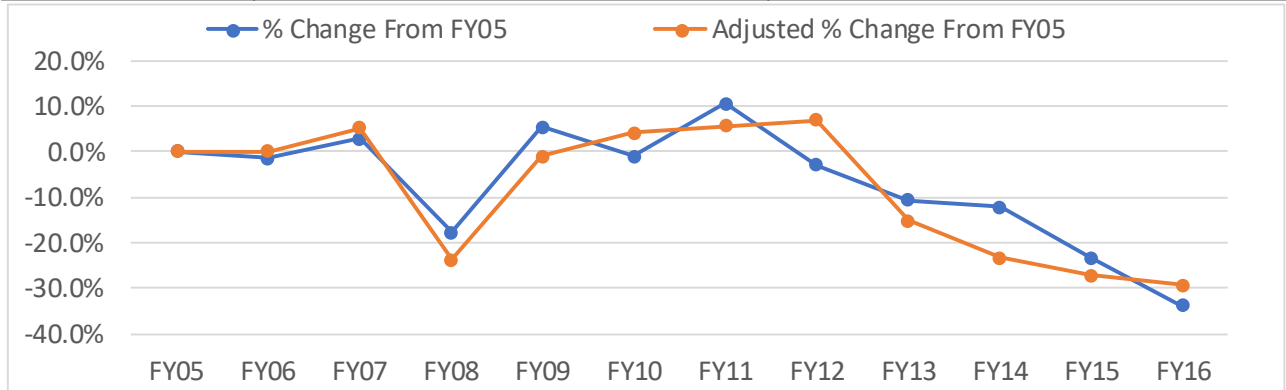
### Fiscal Year 2016 State Facilities Energy Report - DOA\_Waukesha SOB

Electric kwh/GSF = 12.78		Therm/GSF = 0.32		Total Btu/GSF = 75,883					
Electric \$/GSF = \$ 1.45		Thermal \$/GSF = \$ 0.13		Energy \$/GSF = \$ 1.58					
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05	Weather Thermal Adjusted to FY05	Weather Electric Adjusted to FY05	Total Weather Adjusted Btu/GSF	Adjusted % Change From FY05
FY05	169,976	44,800	56,937	101,737	0.0%	100.0%	100.0%	101,737	0.0%
FY06	169,976	36,390	50,590	86,981	-14.5%	106.8%	98.7%	88,784	-12.7%
FY07	169,976	32,300	50,248	82,549	-18.9%	98.9%	99.2%	81,774	-19.6%
FY08	169,976	28,465	50,841	79,306	-22.0%	93.7%	98.7%	76,859	-24.5%
FY09	169,976	28,974	49,954	78,928	-22.4%	89.8%	98.5%	75,224	-26.1%
FY10	169,976	24,756	47,896	72,652	-28.6%	102.8%	100.2%	73,428	-27.8%
FY11	169,976	28,687	47,106	75,793	-25.5%	93.0%	98.5%	73,095	-28.2%
FY12	169,976	19,840	47,771	67,611	-33.5%	118.7%	98.8%	70,747	-30.5%
FY13	169,976	27,911	51,217	79,128	-22.2%	96.6%	99.0%	77,699	-23.6%
FY14	169,976	37,456	46,445	83,901	-17.5%	81.8%	98.6%	76,448	-24.9%
FY15	169,976	52,758	50,340	103,098	1.3%	90.9%	100.2%	98,383	-3.3%
FY16	169,976	32,248	43,635	75,883	-25.4%	110.4%	99.3%	78,927	-22.4%



### Fiscal Year 2016 State Facilities Energy Report - DOA\_WI Rapids SOB

Electric kwh/GSF =		7.18		Therm/GSF =		0.27		Total Btu/GSF =		51,665	
Electric \$/GSF =		\$ 0.82		Thermal \$/GSF =		\$ 0.17		Energy \$/GSF =		\$ 0.99	
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05	Weather Thermal Adjusted to FY05	Weather Electric Adjusted to FY05	Total Weather Adjusted Btu/GSF	Adjusted % Change From FY05		
FY05	51,552	50,308	27,827	78,136	0.0%	100.0%	100.0%	78,136	0.0%		
FY06	51,552	42,140	34,877	77,017	-1.4%	103.3%	99.5%	78,244	0.1%		
FY07	51,552	39,279	41,063	80,342	2.8%	105.0%	99.8%	82,213	5.2%		
FY08	51,552	23,935	40,359	64,294	-17.7%	80.7%	99.5%	59,477	-23.9%		
FY09	51,552	42,187	40,263	82,450	5.5%	88.8%	99.1%	77,387	-1.0%		
FY10	51,552	39,496	37,848	77,344	-1.0%	109.9%	100.5%	81,457	4.3%		
FY11	51,552	50,138	36,280	86,418	10.6%	92.7%	99.2%	82,500	5.6%		
FY12	51,552	43,331	32,525	75,856	-2.9%	117.9%	99.7%	83,501	6.9%		
FY13	51,552	38,431	31,307	69,738	-10.7%	91.4%	99.6%	66,295	-15.2%		
FY14	51,552	38,735	29,858	68,593	-12.2%	79.4%	97.7%	59,912	-23.3%		
FY15	51,552	34,448	25,424	59,872	-23.4%	92.4%	98.7%	56,897	-27.2%		
FY16	51,552	27,174	24,492	51,665	-33.9%	112.1%	101.1%	55,213	-29.3%		



# Agency Energy Use Summary

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## Department of Corrections



### SCOPE

Facilities Included: Columbia Correctional Institution; Prairie du Chien Correctional; Ethan Allen School to FY14; Racine Correctional Institution; Fox Lake Correctional Institution; Racine Youthful Offender Facility; Green Bay Correctional Institution; Redgranite Correctional Institution; Jackson Correctional Institution; Stanley Correctional Institution; Kettle Moraine Correctional Institution; Sturtevant Transitional Facility; Lincoln Hills School; Taycheedah Correctional Institution; Milwaukee Secure Detention Facility; Waupun Complex, includes - Dodge Correctional Institution and Waupun Correctional Institution; New Lisbon Correctional Institution; Oak Hill Correctional Institution; Oshkosh Correctional Institution; and Wisconsin Secure Program Facility.

### ENERGY CONSUMPTION

**Total Change from Base - Weather Adjusted: 5.6 percent decrease.**

Energy use (BTU/GSF/Yr) for FY16 was 5.6 percent lower than in the base fiscal year, FY05.

**Latest Year Change - Weather Adjusted: 0.29 percent increase.**

Energy use (BTU/GSF/Yr) for FY16 increased 0.29 percent from the previous fiscal year.

**Average Annual Change - Weather Adjusted: 0.5 percent decrease per year.**

On average, energy use (BTU/GSF/Yr) has decreased 0.5 percent since the base year, FY05.

### GSF AND CONSUMPTION STATISTICS

**GSF Change from Base: -3.5 percent Decrease.**

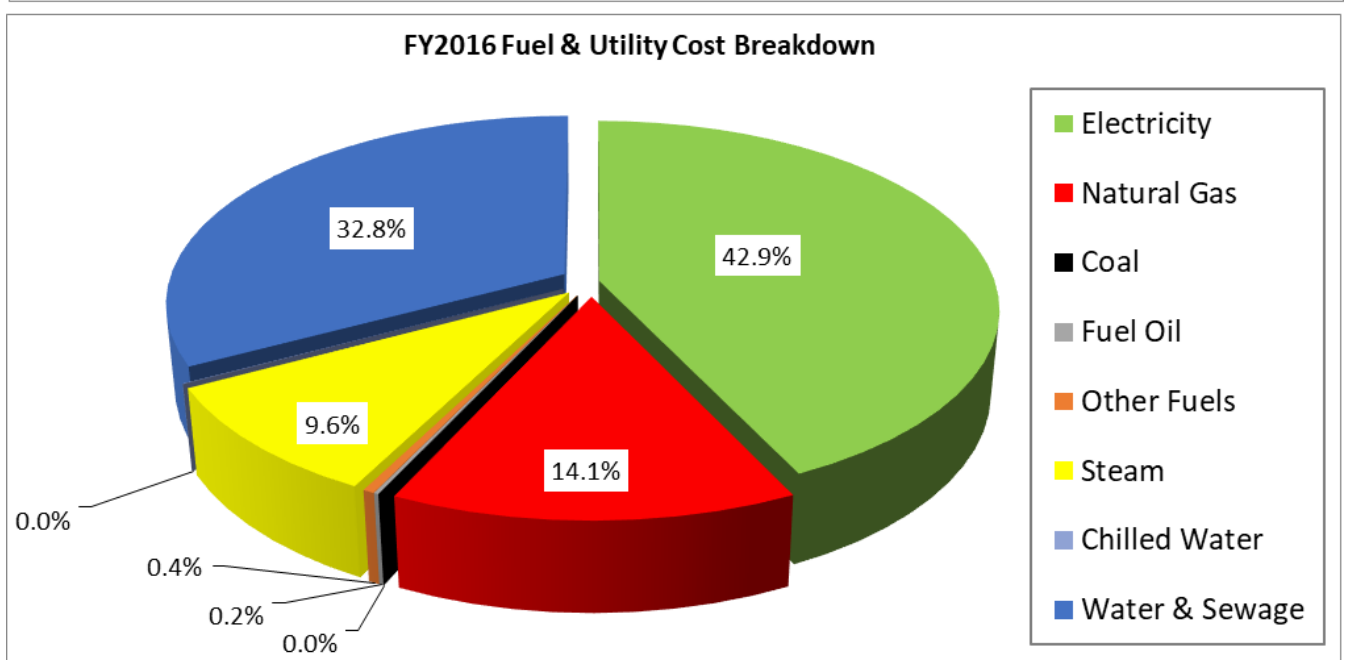
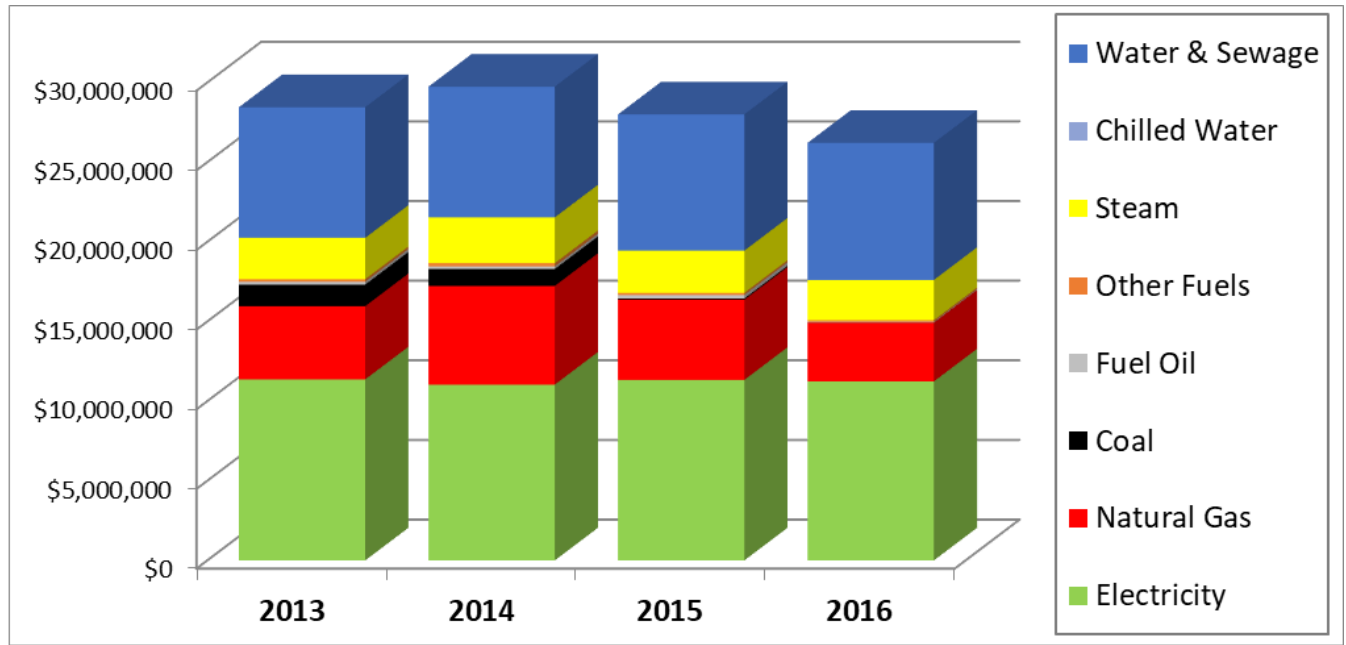
Gross square footage has decreased 3.5% from the base fiscal year, FY05.

**Consumption Change from Base: FY16 actual decreased by 12.3 percent.**

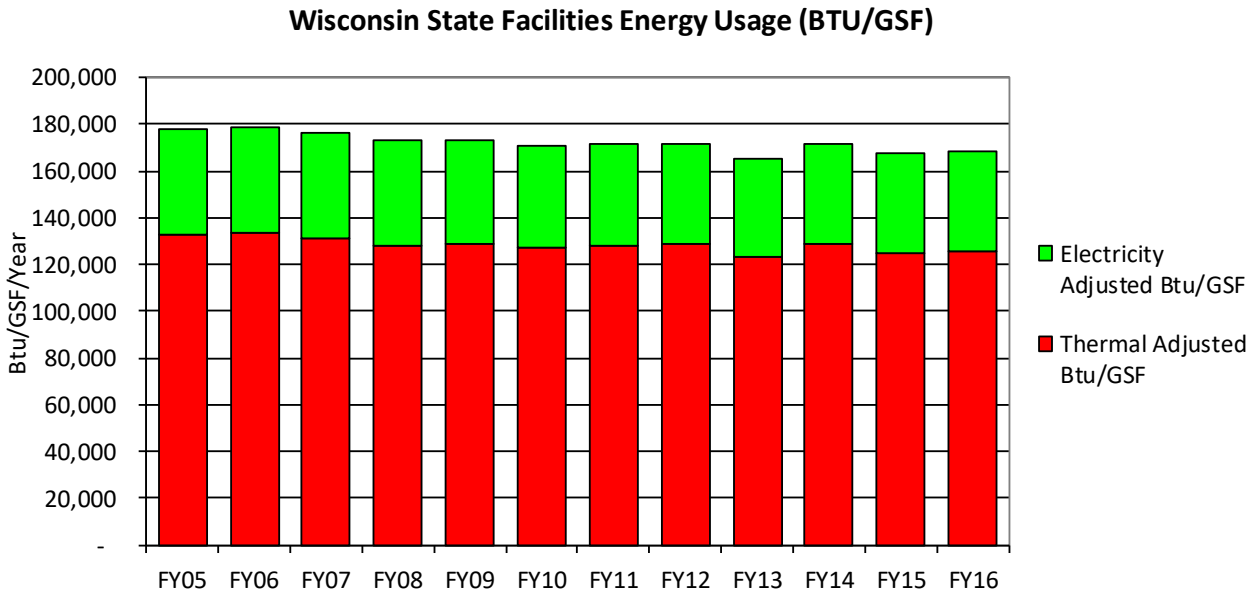
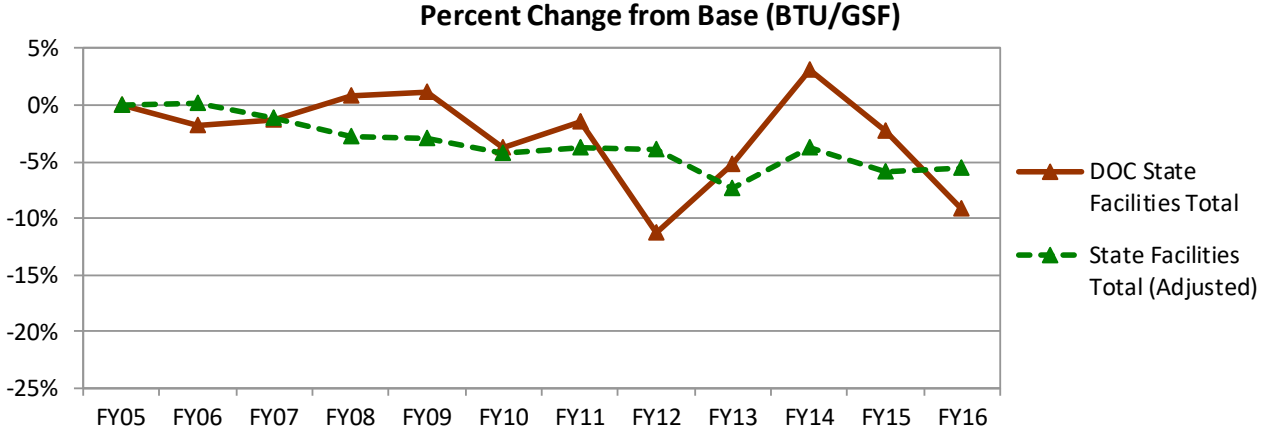
Total consumption was 12.3 percent less when compared to FY05. Total energy (million BTU) purchases in FY16 were 9 percent less than in the base year when adjusted for weather compared to FY05.

### Department of Corrections Fuel & Utilities Expenditures

Subcategory Name	Fiscal Year 2014	Fiscal Year 2015	Fiscal Year 2016	Fiscal Year 2017
Electricity	\$ 11,037,507	\$ 11,332,022	\$ 11,237,603	\$ 10,210,243
Natural Gas	\$ 6,195,229	\$ 5,035,715	\$ 3,693,013	\$ 4,652,544
Coal	\$ 1,060,465	\$ 73,522	\$ 750	\$ 405
Fuel Oil	\$ 162,179	\$ 224,927	\$ 42,910	\$ 265,899
Other Fuels	\$ 204,824	\$ 129,037	\$ 104,655	\$ 163,454
Steam	\$ 2,872,738	\$ 2,652,384	\$ 2,525,088	\$ 2,242,344
Chilled Water	\$ -	\$ -	\$ 8,147	\$ 12,947
Water & Sewage	\$ 8,207,647	\$ 8,551,299	\$ 8,597,686	\$ 8,629,857
<b>Total:</b>	<b>\$ 29,740,589</b>	<b>\$ 27,998,907</b>	<b>\$ 26,209,851</b>	<b>\$ 26,177,692</b>

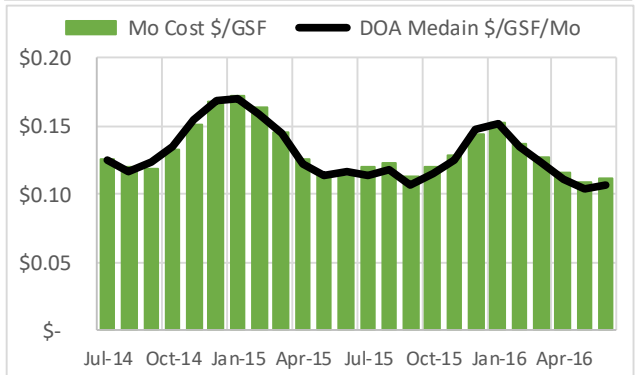
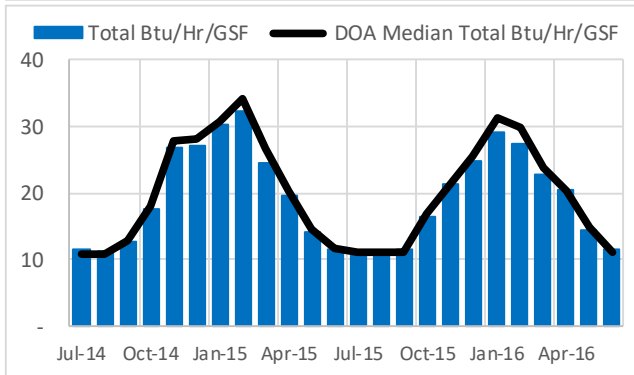
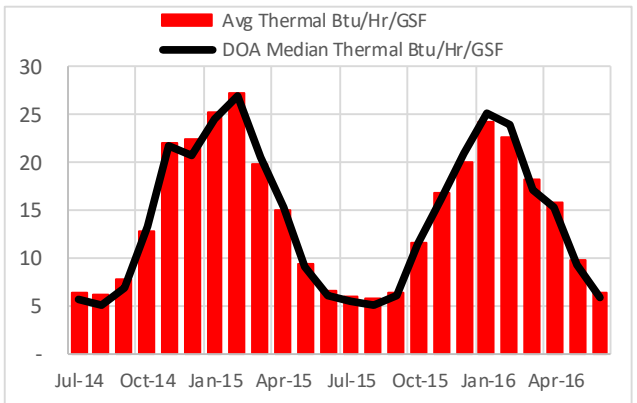
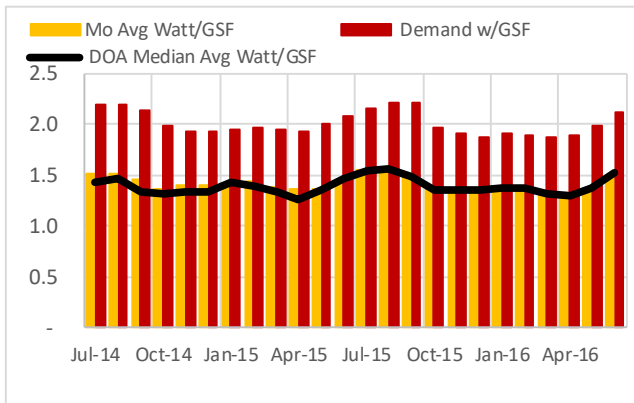
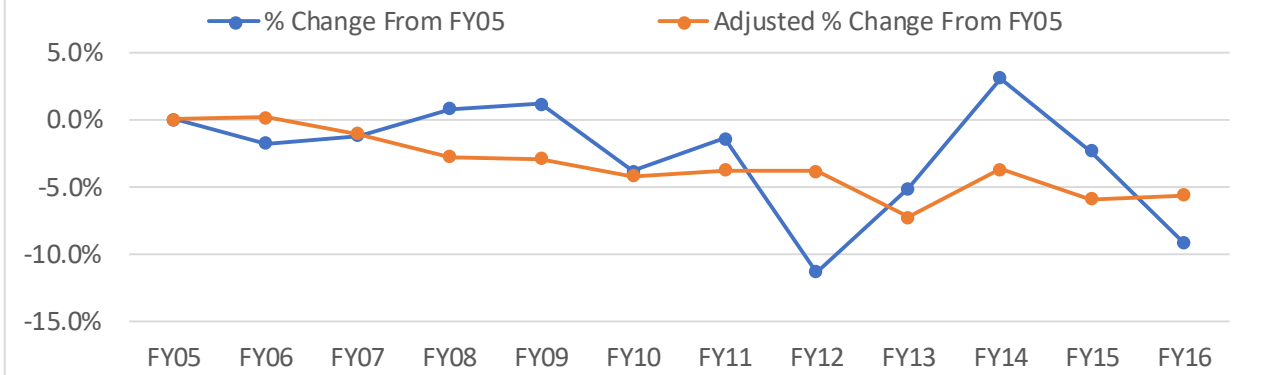


Wisconsin State Facilities DOC State Facilities Total									
Fiscal Year	GSF	BTU/GSF				Weather-Adjusted			
		Thermal	Electricity	Total	% Change From FY05	Thermal Adjusted to FY05	Electric Adjusted to FY05	Total Adjusted Btu/GSF	Adjusted % Change From FY05
FY05	8,230,122	132,660	45,472	178,132	0.0%	100.0%	100.0%	178,132	0.0%
FY06	8,241,872	129,685	45,262	174,947	-1.8%	102.8%	99.7%	178,397	0.1%
FY07	8,241,872	130,889	45,022	175,911	-1.2%	100.3%	99.7%	176,233	-1.1%
FY08	8,241,872	134,139	45,434	179,574	0.8%	95.5%	99.1%	173,112	-2.8%
FY09	8,241,872	135,521	44,649	180,170	1.1%	94.9%	99.3%	172,925	-2.9%
FY10	8,241,872	127,844	43,452	171,295	-3.8%	99.4%	100.0%	170,585	-4.2%
FY11	8,269,898	131,818	43,819	175,636	-1.4%	97.1%	98.8%	171,350	-3.8%
FY12	8,269,898	115,139	42,783	157,922	-11.3%	111.6%	99.9%	171,201	-3.9%
FY13	8,269,898	126,642	42,292	168,934	-5.2%	97.2%	99.4%	165,102	-7.3%
FY14	7,939,611	140,253	43,384	183,637	3.1%	91.7%	98.8%	171,460	-3.7%
FY15	7,939,611	131,434	42,493	173,927	-2.4%	95.3%	99.8%	167,613	-5.9%
FY16	7,939,611	119,703	42,166	161,868	-9.1%	105.2%	100.0%	168,098	-5.6%



### Fiscal Year 2016 State Facilities Energy Report - DOC Total

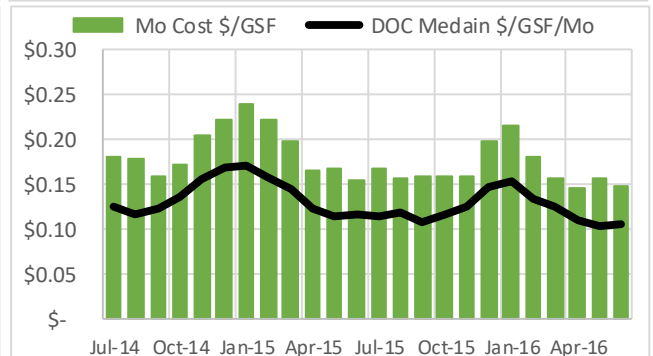
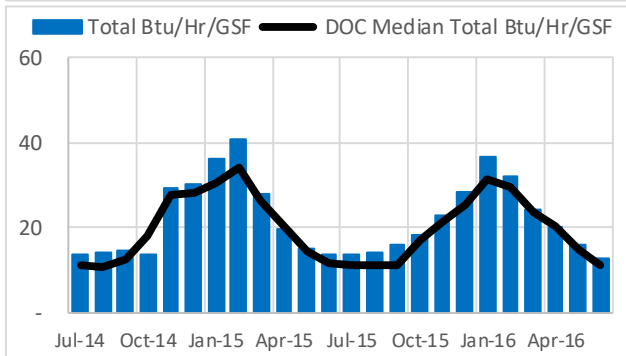
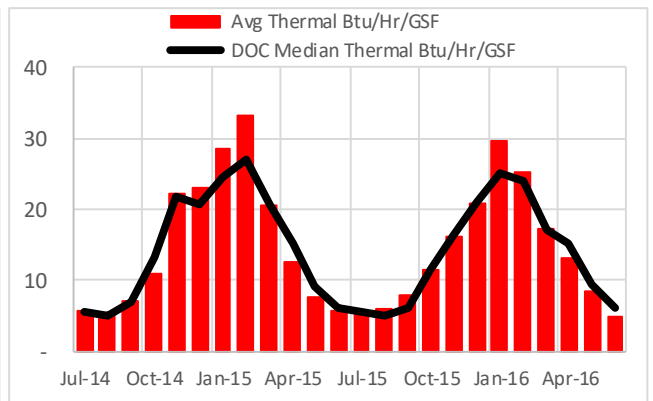
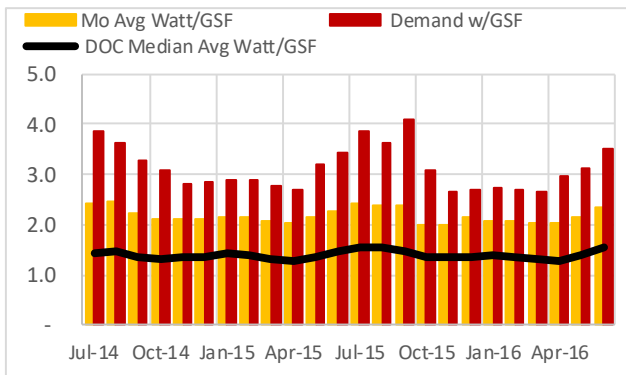
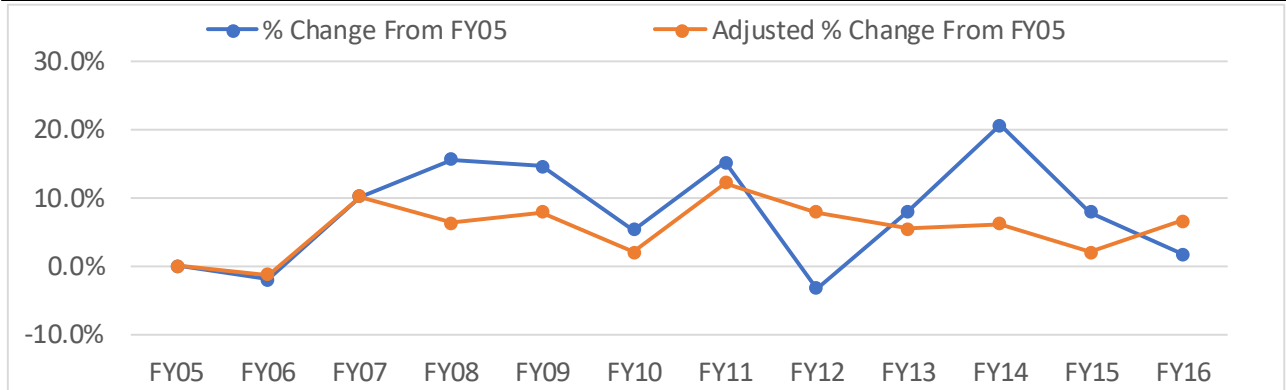
Electric kwh/GSF =		12.35		Therm/GSF =		1.20		Total Btu/GSF =		161,868	
Electric \$/GSF =		\$ 1.05		Thermal \$/GSF =		\$ 0.45		Energy \$/GSF =		\$ 1.50	
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05	Weather Thermal Adjusted to FY05	Weather Electric Adjusted to FY05	Total Weather Adjusted Btu/GSF	Adjusted % Change From FY05		
FY05	8,230,122	132,660	45,472	178,132	0.0%	100.0%	100.0%	178,132	0.0%		
FY06	8,241,872	129,685	45,262	174,947	-1.8%	102.8%	99.7%	178,397	0.1%		
FY07	8,241,872	130,889	45,022	175,911	-1.2%	100.3%	99.7%	176,233	-1.1%		
FY08	8,241,872	134,139	45,434	179,574	0.8%	95.5%	99.1%	173,112	-2.8%		
FY09	8,241,872	135,521	44,649	180,170	1.1%	94.9%	99.3%	172,925	-2.9%		
FY10	8,241,872	127,844	43,452	171,295	-3.8%	99.4%	100.0%	170,585	-4.2%		
FY11	8,269,898	131,818	43,819	175,636	-1.4%	97.1%	98.8%	171,350	-3.8%		
FY12	8,269,898	115,139	42,783	157,922	-11.3%	111.6%	99.9%	171,201	-3.9%		
FY13	8,269,898	126,642	42,292	168,934	-5.2%	97.2%	99.4%	165,102	-7.3%		
FY14	7,939,611	140,253	43,384	183,637	3.1%	91.7%	98.8%	171,460	-3.7%		
FY15	7,939,611	131,434	42,493	173,927	-2.4%	95.3%	99.8%	167,613	-5.9%		
FY16	7,939,611	119,703	42,166	161,868	-9.1%	105.2%	100.0%	168,098	-5.6%		





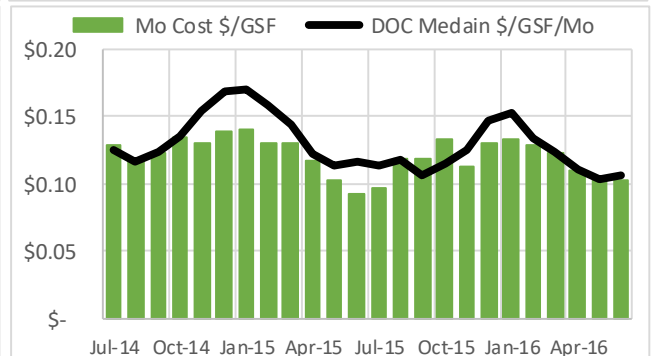
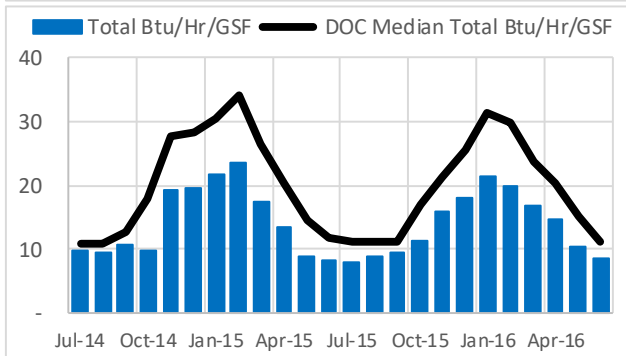
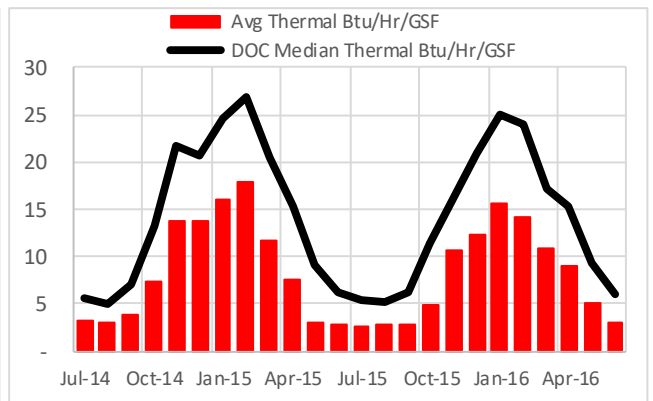
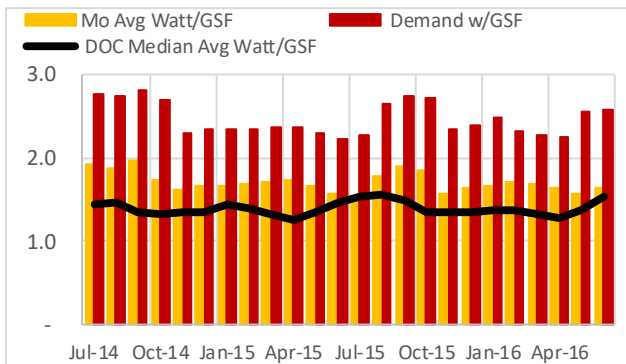
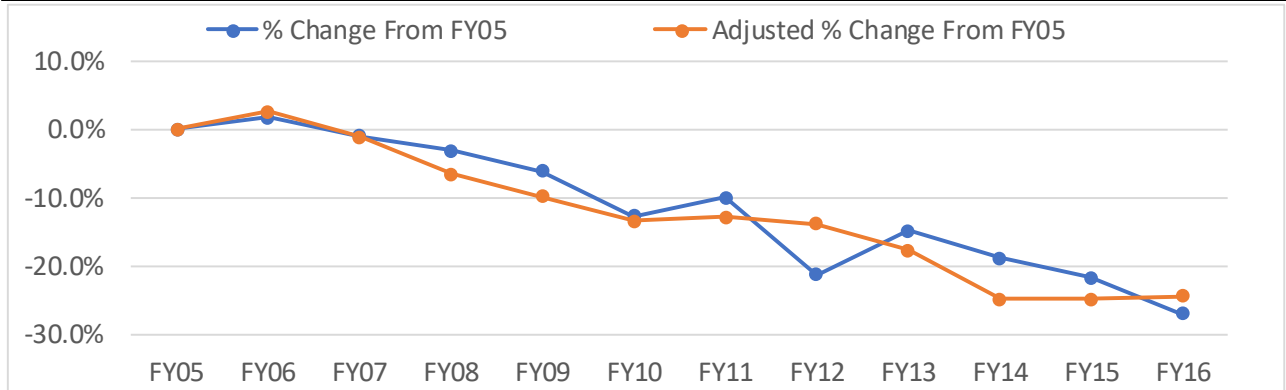
### Fiscal Year 2016 State Facilities Energy Report - DOC\_Boscobel

Electric kwh/GSF = 19.07		Therm/GSF = 1.22		Total Btu/GSF = 186,684					
Electric \$/GSF = \$ 1.48		Thermal \$/GSF = \$ 0.52		Energy \$/GSF = \$ 2.00					
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05	Weather Thermal Adjusted to FY05	Weather Electric Adjusted to FY05	Total Weather Adjusted Btu/GSF	Adjusted % Change From FY05
FY05	195,000	117,908	65,580	183,488	0.0%	100.0%	100.0%	183,488	0.0%
FY06	195,000	110,590	69,209	179,800	-2.0%	101.4%	99.5%	180,992	-1.4%
FY07	195,000	130,509	71,510	202,019	10.1%	100.2%	99.5%	201,943	10.1%
FY08	195,000	140,829	71,092	211,921	15.5%	88.6%	99.0%	195,097	6.3%
FY09	195,000	141,322	68,940	210,262	14.6%	91.3%	99.8%	197,748	7.8%
FY10	195,000	125,478	67,731	193,210	5.3%	95.1%	99.9%	186,996	1.9%
FY11	195,000	142,574	68,570	211,144	15.1%	97.0%	98.2%	205,684	12.1%
FY12	195,000	110,054	67,349	177,403	-3.3%	119.1%	99.0%	197,751	7.8%
FY13	195,000	131,264	66,796	198,059	7.9%	97.1%	98.8%	193,450	5.4%
FY14	195,000	154,267	66,998	221,265	20.6%	83.2%	98.9%	194,649	6.1%
FY15	195,000	132,228	65,530	197,758	7.8%	92.0%	99.8%	187,061	1.9%
FY16	195,000	121,598	65,086	186,684	1.7%	107.5%	99.7%	195,587	6.6%



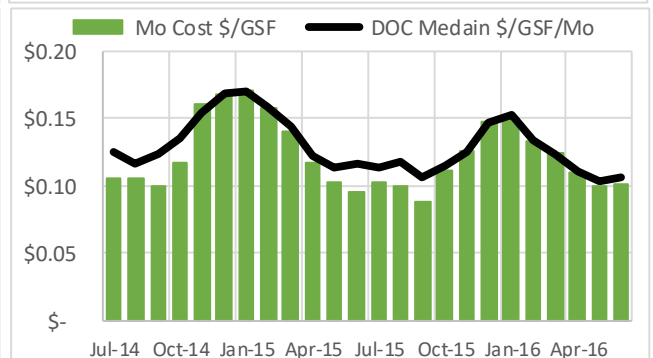
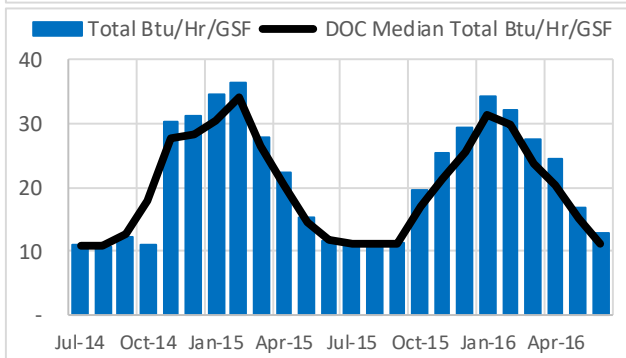
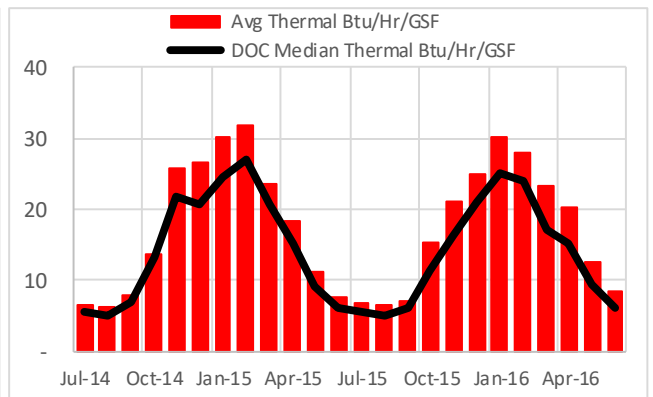
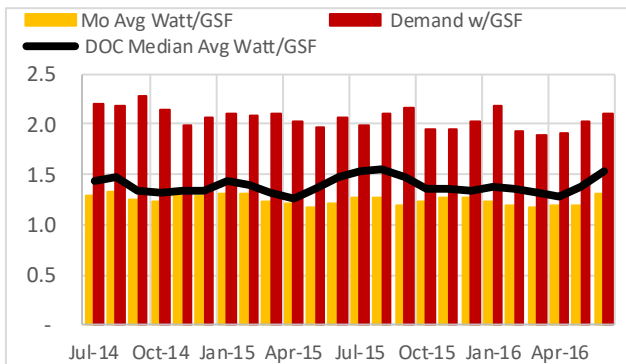
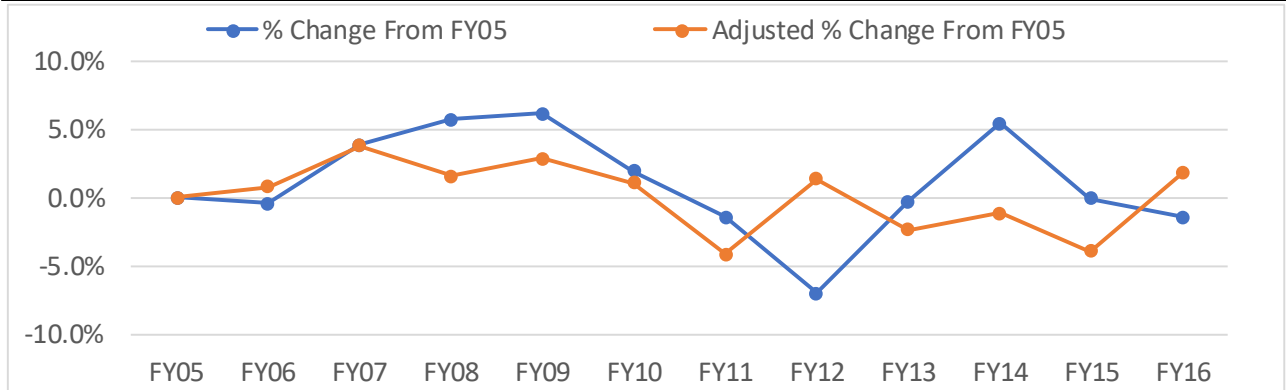
### Fiscal Year 2016 State Facilities Energy Report - DOC\_Columbia

Electric kwh/GSF =		14.76		Therm/GSF =		0.68		Total Btu/GSF =		118,847	
Electric \$/GSF =		\$ 1.15		Thermal \$/GSF =		\$ 0.26		Energy \$/GSF =		\$ 1.41	
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05	Weather Thermal Adjusted to FY05	Weather Electric Adjusted to FY05	Total Weather Adjusted Btu/GSF	Adjusted % Change From FY05		
FY05	330,807	101,211	61,594	162,805	0.0%	100.0%	100.0%	162,805	0.0%		
FY06	330,807	102,969	62,609	165,578	1.7%	101.7%	99.4%	166,972	2.6%		
FY07	330,807	99,321	61,866	161,187	-1.0%	99.9%	99.7%	160,886	-1.2%		
FY08	330,807	96,556	61,086	157,642	-3.2%	94.7%	99.4%	152,184	-6.5%		
FY09	330,807	97,894	54,784	152,678	-6.2%	94.5%	99.2%	146,837	-9.8%		
FY10	330,807	90,489	51,677	142,166	-12.7%	98.6%	100.0%	140,863	-13.5%		
FY11	330,807	93,736	52,754	146,490	-10.0%	95.9%	98.6%	141,943	-12.8%		
FY12	330,807	76,039	52,036	128,074	-21.3%	116.1%	99.7%	140,125	-13.9%		
FY13	330,807	87,419	51,107	138,526	-14.9%	95.5%	98.8%	133,960	-17.7%		
FY14	330,807	79,482	52,584	132,066	-18.9%	88.8%	98.2%	122,209	-24.9%		
FY15	330,807	75,521	51,797	127,318	-21.8%	93.3%	100.1%	122,292	-24.9%		
FY16	330,807	68,488	50,360	118,847	-27.0%	106.0%	100.0%	122,935	-24.5%		



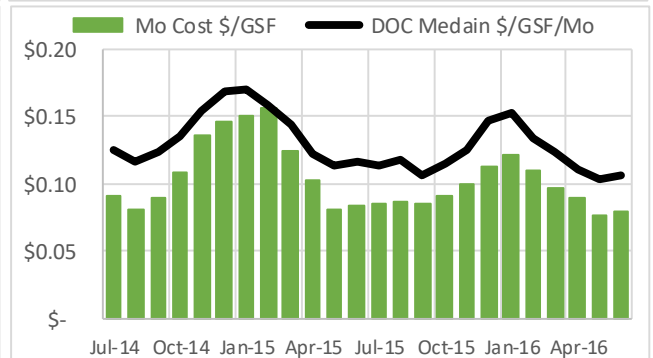
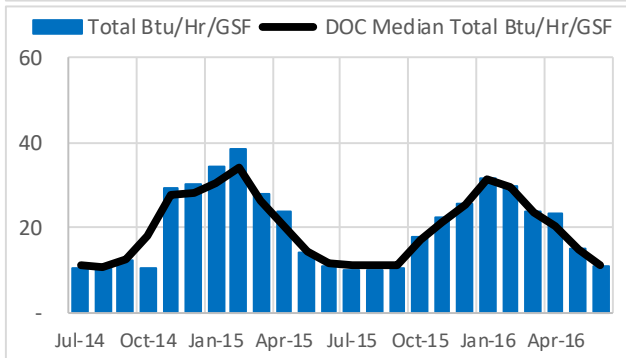
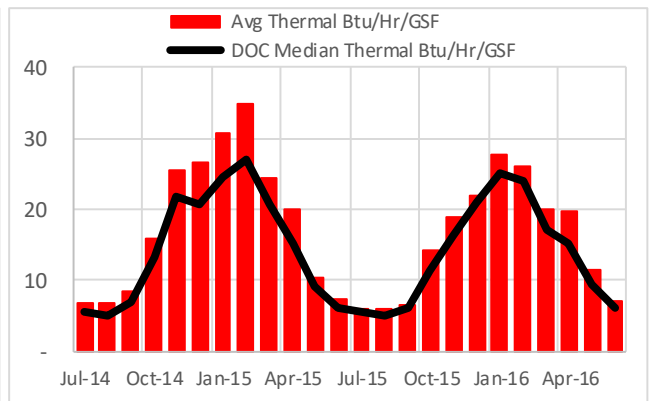
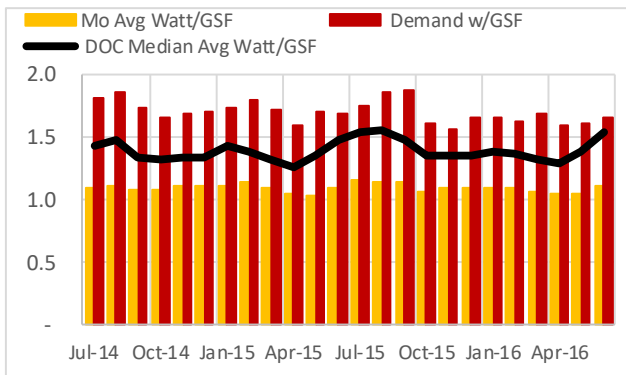
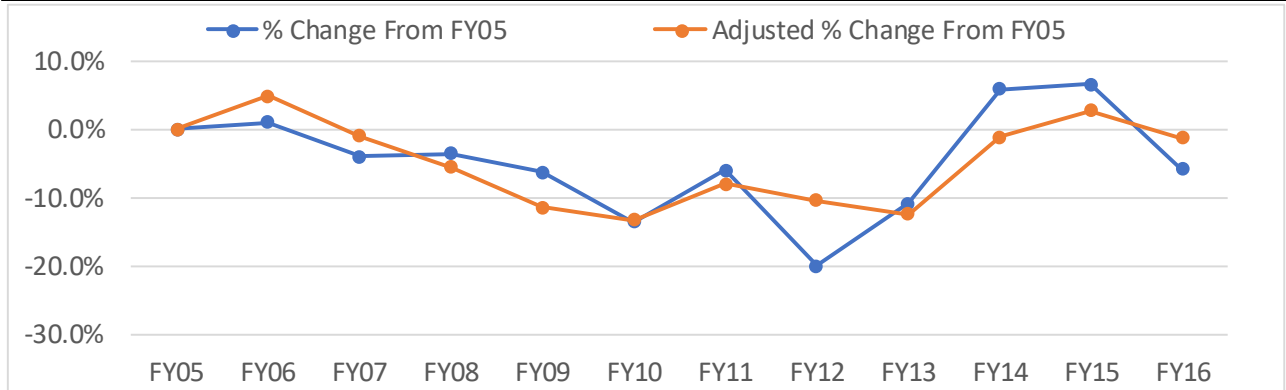
### Fiscal Year 2016 State Facilities Energy Report - DOC\_Fox Lake

Electric kwh/GSF = 10.82		Therm/GSF = 1.50		Total Btu/GSF = 186,639					
Electric \$/GSF = \$ 0.88		Thermal \$/GSF = \$ 0.51		Energy \$/GSF = \$ 1.39					
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05	Weather Thermal Adjusted to FY05	Weather Electric Adjusted to FY05	Total Weather Adjusted Btu/GSF	Adjusted % Change From FY05
FY05	533,407	149,959	39,424	189,382	0.0%	100.0%	100.0%	189,382	0.0%
FY06	533,407	150,044	38,497	188,540	-0.4%	101.6%	99.9%	190,900	0.8%
FY07	533,407	156,180	40,495	196,675	3.9%	100.0%	99.4%	196,500	3.8%
FY08	533,407	158,407	41,802	200,209	5.7%	95.4%	98.8%	192,363	1.6%
FY09	533,407	160,560	40,495	201,055	6.2%	96.4%	99.0%	194,795	2.9%
FY10	533,407	154,130	38,859	192,990	1.9%	99.0%	100.0%	191,428	1.1%
FY11	533,407	146,696	40,023	186,719	-1.4%	96.8%	98.7%	181,462	-4.2%
FY12	533,407	137,316	38,721	176,037	-7.0%	111.5%	100.3%	191,955	1.4%
FY13	533,407	149,603	39,251	188,854	-0.3%	97.6%	99.0%	184,824	-2.4%
FY14	533,407	160,281	39,451	199,732	5.5%	92.5%	98.7%	187,130	-1.2%
FY15	533,407	151,557	37,712	189,268	-0.1%	95.3%	99.5%	181,964	-3.9%
FY16	533,407	149,721	36,919	186,639	-1.4%	104.1%	100.0%	192,767	1.8%



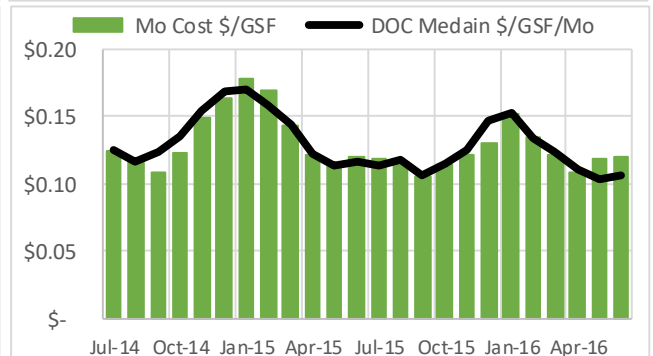
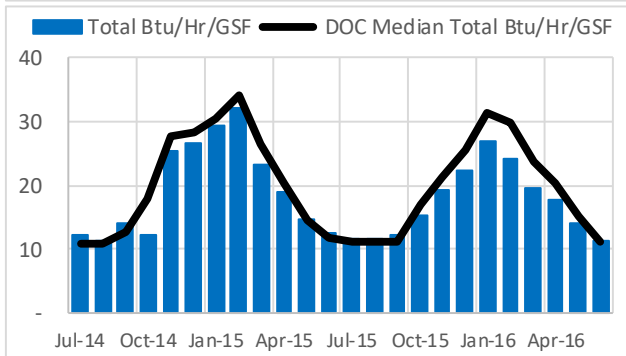
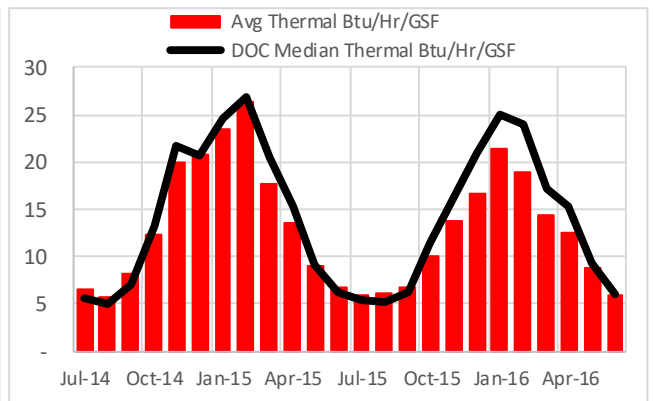
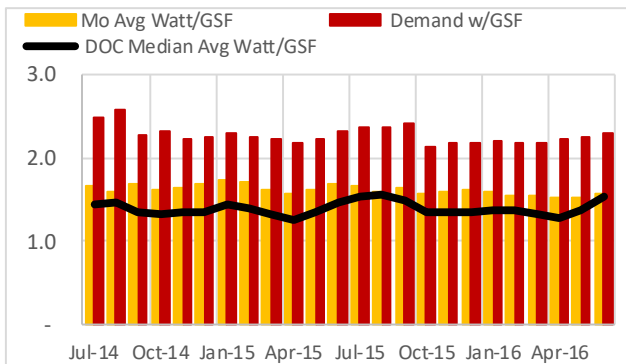
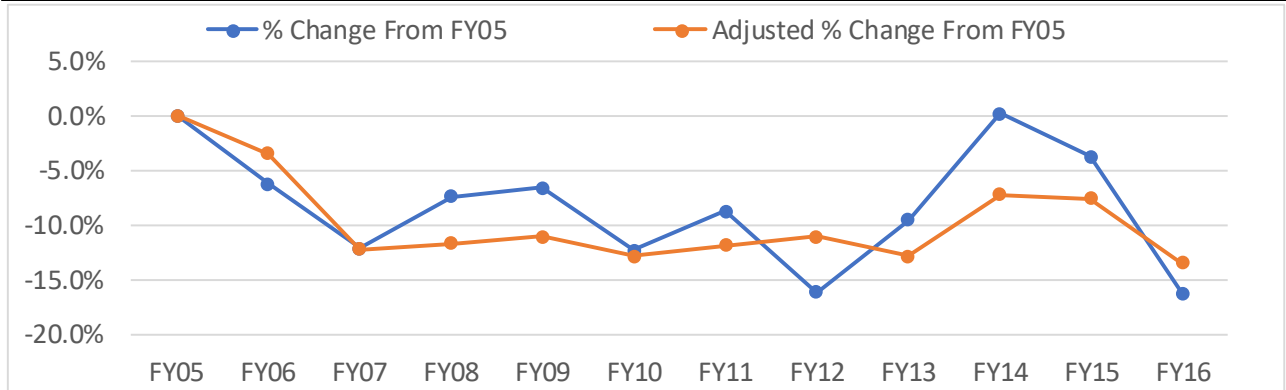
### Fiscal Year 2016 State Facilities Energy Report - DOC\_Green Bay

Electric kwh/GSF =		9.62		Therm/GSF =		1.36		Total Btu/GSF =		168,462	
Electric \$/GSF =		\$ 0.68		Thermal \$/GSF =		\$ 0.45		Energy \$/GSF =		\$ 1.14	
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05	Weather Thermal Adjusted to FY05	Weather Electric Adjusted to FY05	Total Weather Adjusted Btu/GSF	Adjusted % Change From FY05		
FY05	453,750	146,759	32,097	178,856	0.0%	100.0%	100.0%	178,856	0.0%		
FY06	453,750	147,306	33,408	180,714	1.0%	104.6%	100.0%	187,493	4.8%		
FY07	453,750	139,103	32,619	171,722	-4.0%	103.9%	100.1%	177,181	-0.9%		
FY08	453,750	139,251	33,211	172,462	-3.6%	97.6%	99.3%	168,930	-5.5%		
FY09	453,750	135,705	31,831	167,536	-6.3%	93.4%	99.4%	158,439	-11.4%		
FY10	453,750	123,702	30,828	154,531	-13.6%	100.5%	100.2%	155,167	-13.2%		
FY11	453,750	136,752	31,257	168,009	-6.1%	97.5%	99.7%	164,556	-8.0%		
FY12	453,750	112,157	30,945	143,102	-20.0%	115.2%	100.1%	160,189	-10.4%		
FY13	453,750	128,064	31,432	159,496	-10.8%	97.8%	99.8%	156,577	-12.5%		
FY14	453,750	157,043	32,353	189,396	5.9%	92.3%	99.1%	176,935	-1.1%		
FY15	453,750	158,051	32,665	190,716	6.6%	95.7%	99.7%	183,855	2.8%		
FY16	453,750	135,637	32,825	168,462	-5.8%	106.0%	100.2%	176,622	-1.2%		



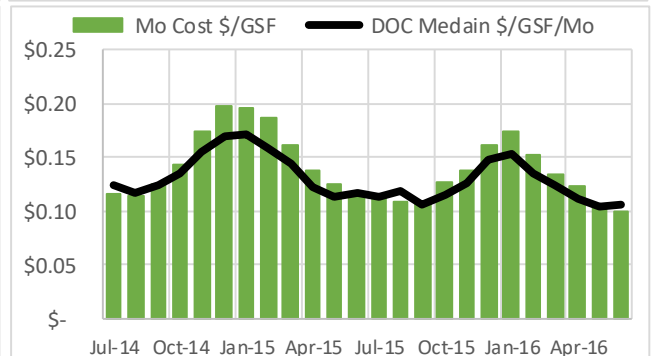
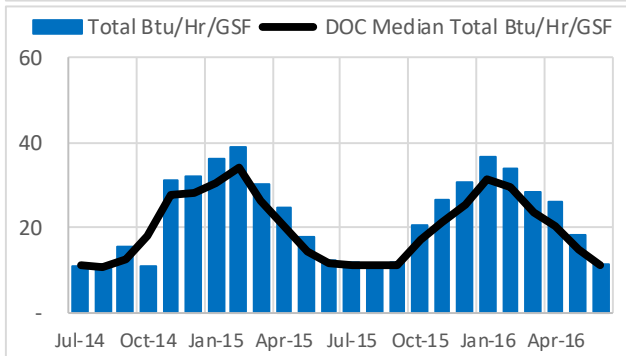
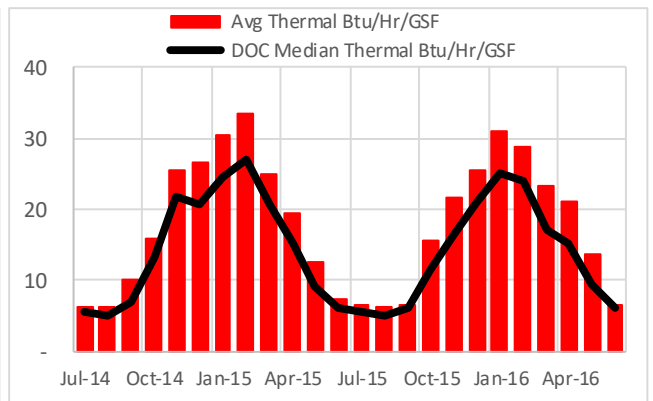
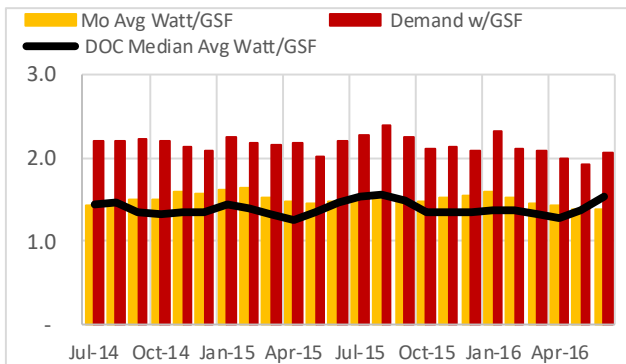
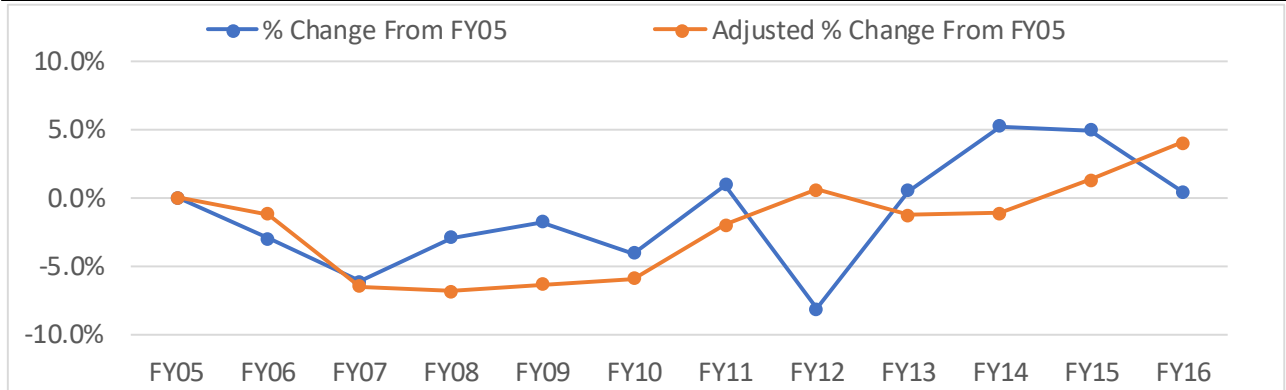
### Fiscal Year 2016 State Facilities Energy Report - DOC\_Jackson

Electric kwh/GSF = 13.89		Therm/GSF = 1.03		Total Btu/GSF = 150,683					
Electric \$/GSF = \$ 1.03		Thermal \$/GSF = \$ 0.43		Energy \$/GSF = \$ 1.46					
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05	Weather Thermal Adjusted to FY05	Weather Electric Adjusted to FY05	Total Weather Adjusted Btu/GSF	Adjusted % Change From FY05
FY05	390,613	120,043	59,864	179,907	0.0%	100.0%	100.0%	179,907	0.0%
FY06	390,613	116,901	51,678	168,579	-6.3%	104.4%	99.8%	173,653	-3.5%
FY07	390,613	106,704	51,339	158,043	-12.2%	100.0%	99.8%	157,902	-12.2%
FY08	390,613	116,608	49,995	166,603	-7.4%	93.6%	99.4%	158,841	-11.7%
FY09	390,613	117,792	50,166	167,959	-6.6%	93.4%	99.5%	159,947	-11.1%
FY10	390,613	109,180	48,546	157,726	-12.3%	99.0%	100.0%	156,695	-12.9%
FY11	390,613	115,370	48,826	164,196	-8.7%	95.2%	99.4%	158,435	-11.9%
FY12	390,613	102,124	48,606	150,730	-16.2%	109.0%	100.2%	159,987	-11.1%
FY13	390,613	113,949	48,803	162,751	-9.5%	94.9%	99.5%	156,681	-12.9%
FY14	390,613	130,328	49,841	180,169	0.1%	90.3%	98.7%	166,895	-7.2%
FY15	390,613	123,806	49,395	173,201	-3.7%	94.5%	99.6%	166,193	-7.6%
FY16	390,613	103,291	47,392	150,683	-16.2%	104.7%	100.1%	155,607	-13.5%



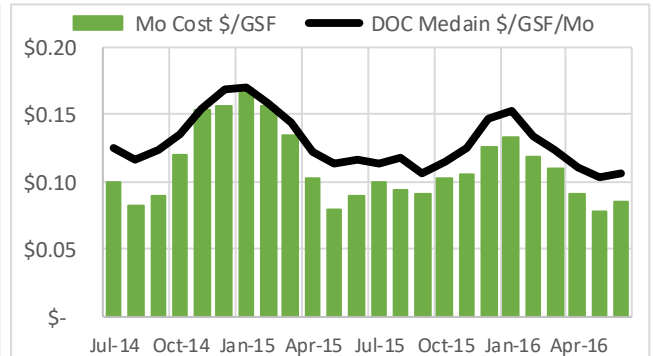
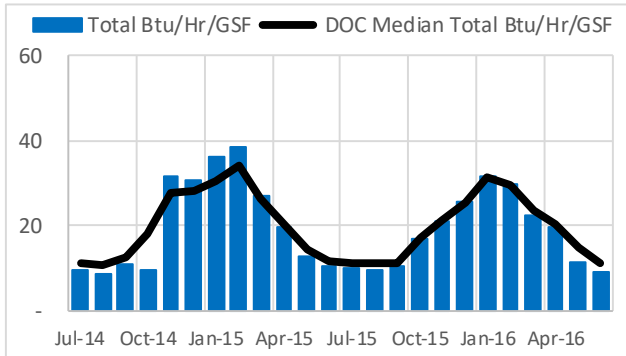
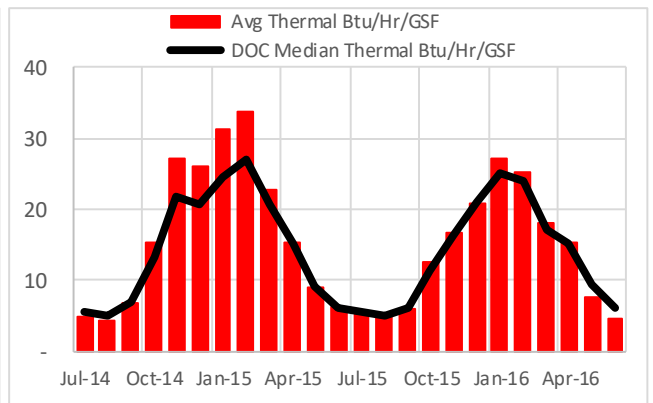
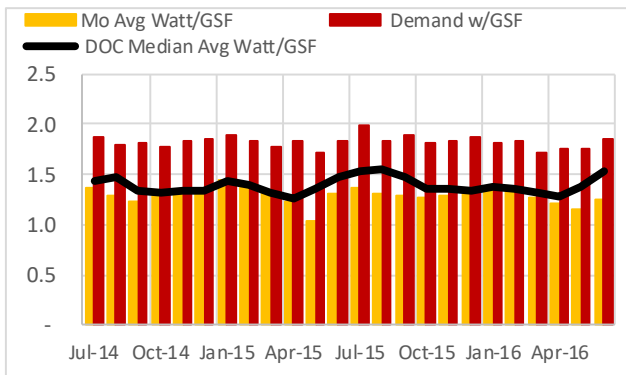
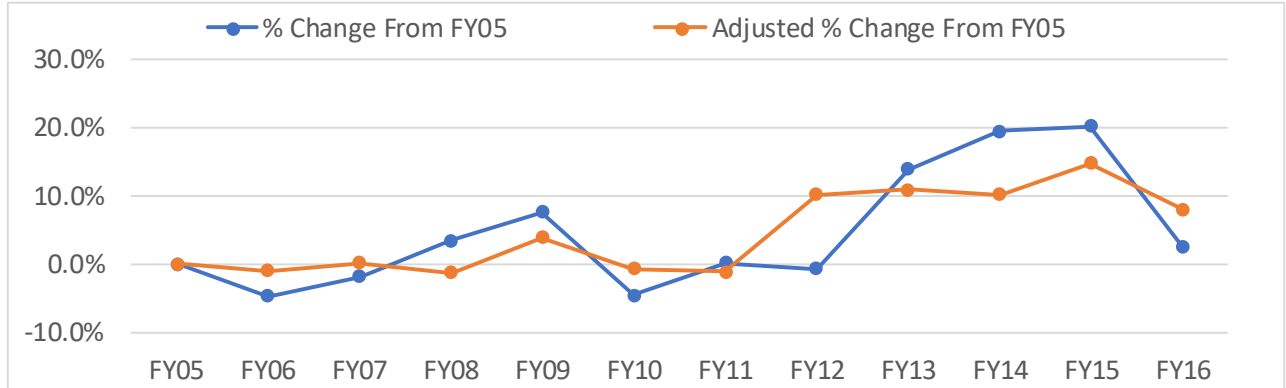
### Fiscal Year 2016 State Facilities Energy Report - DOC\_Kettle Moraine

Electric kwh/GSF = 13.08		Therm/GSF = 1.51		Total Btu/GSF = 195,771					
Electric \$/GSF = \$ 1.03		Thermal \$/GSF = \$ 0.51		Energy \$/GSF = \$ 1.54					
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05	Weather Thermal Adjusted to FY05	Weather Electric Adjusted to FY05	Total Weather Adjusted Btu/GSF	Adjusted % Change From FY05
FY05	361,612	144,408	50,502	194,910	0.0%	100.0%	100.0%	194,910	0.0%
FY06	361,612	138,897	50,138	189,035	-3.0%	102.4%	100.2%	192,460	-1.3%
FY07	361,612	132,421	50,482	182,903	-6.2%	99.6%	99.6%	182,216	-6.5%
FY08	361,612	138,258	50,885	189,143	-3.0%	95.0%	98.8%	181,566	-6.8%
FY09	361,612	140,573	50,817	191,390	-1.8%	94.5%	97.8%	182,536	-6.3%
FY10	361,612	136,537	50,441	186,978	-4.1%	97.5%	99.5%	183,293	-6.0%
FY11	361,612	144,475	52,175	196,650	0.9%	96.8%	98.1%	190,973	-2.0%
FY12	361,612	129,572	49,476	179,049	-8.1%	112.8%	100.9%	196,024	0.6%
FY13	361,612	149,178	46,663	195,841	0.5%	98.0%	99.1%	192,415	-1.3%
FY14	361,612	160,181	44,828	205,009	5.2%	92.8%	98.3%	192,668	-1.2%
FY15	361,612	159,012	45,503	204,515	4.9%	95.7%	99.4%	197,457	1.3%
FY16	361,612	151,142	44,629	195,771	0.4%	104.5%	100.4%	202,725	4.0%



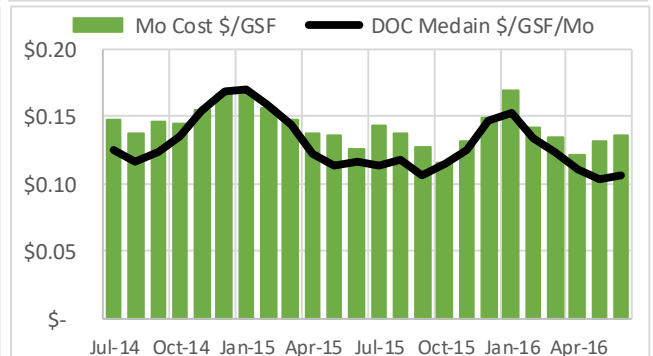
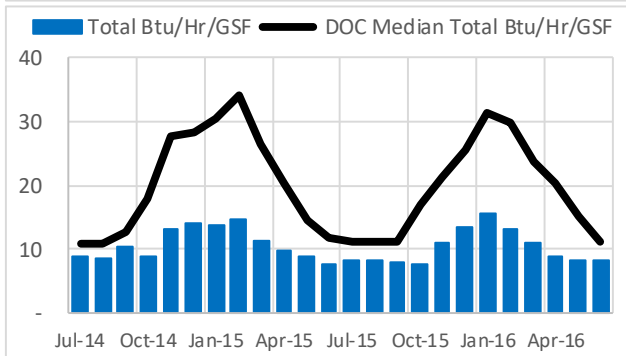
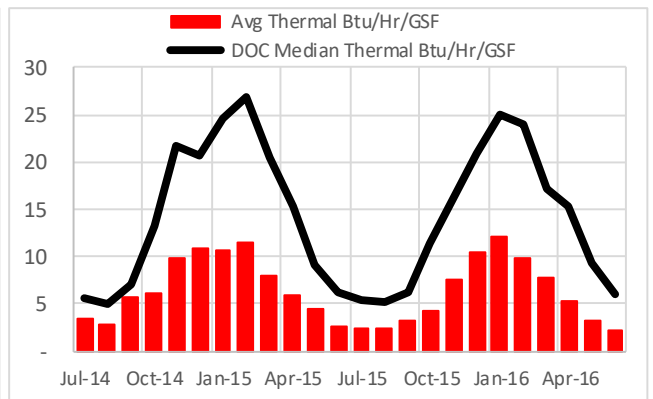
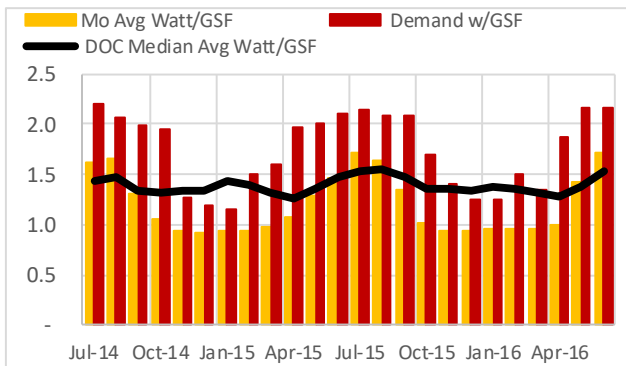
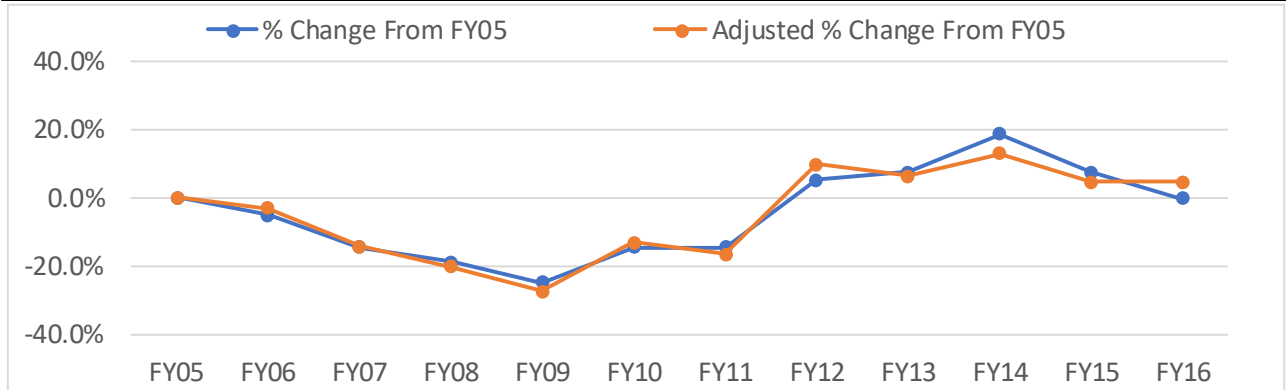
### Fiscal Year 2016 State Facilities Energy Report - DOC\_Lincoln Hills

Electric kwh/GSF = 11.30		Therm/GSF = 1.20		Total Btu/GSF = 158,759					
Electric \$/GSF = \$ 0.81		Thermal \$/GSF = \$ 0.43		Energy \$/GSF = \$ 1.24					
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05	Weather Thermal Adjusted to FY05	Weather Electric Adjusted to FY05	Total Weather Adjusted Btu/GSF	Adjusted % Change From FY05
FY05	249,792	124,056	30,725	154,781	0.0%	100.0%	100.0%	154,781	0.0%
FY06	249,792	118,831	28,501	147,332	-4.8%	104.8%	100.2%	153,158	-1.0%
FY07	249,792	123,766	27,976	151,742	-2.0%	102.6%	99.9%	154,919	0.1%
FY08	249,792	128,636	31,397	160,033	3.4%	94.6%	98.9%	152,735	-1.3%
FY09	249,792	133,673	32,717	166,390	7.5%	95.9%	99.8%	160,810	3.9%
FY10	249,792	117,257	30,441	147,698	-4.6%	105.0%	100.3%	153,628	-0.7%
FY11	249,792	124,713	30,228	154,941	0.1%	98.6%	99.4%	153,048	-1.1%
FY12	249,792	118,982	34,727	153,709	-0.7%	113.8%	100.7%	170,380	10.1%
FY13	249,792	137,976	38,281	176,257	13.9%	96.6%	99.9%	171,522	10.8%
FY14	249,792	146,481	38,382	184,863	19.4%	90.2%	100.0%	170,461	10.1%
FY15	249,792	147,239	38,767	186,006	20.2%	94.4%	99.4%	177,510	14.7%
FY16	249,792	120,206	38,553	158,759	2.6%	106.8%	100.5%	167,100	8.0%



### Fiscal Year 2016 State Facilities Energy Report - DOC\_Milwaukee Secure

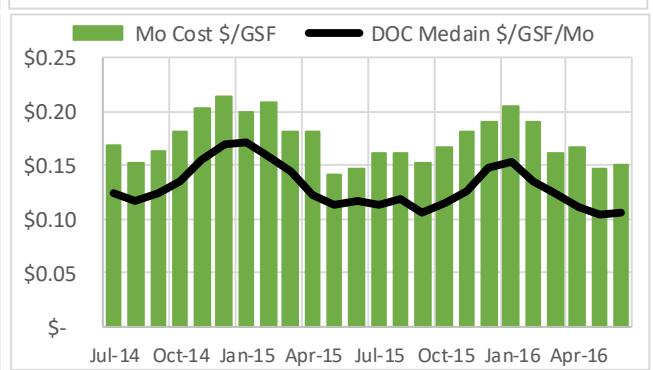
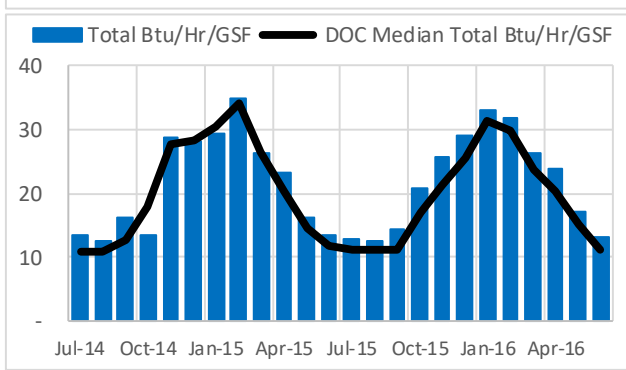
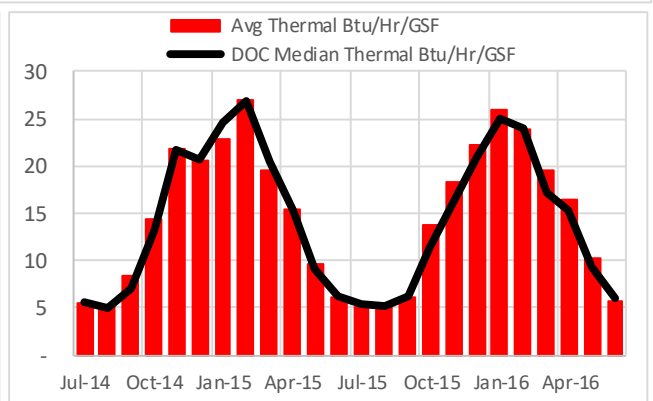
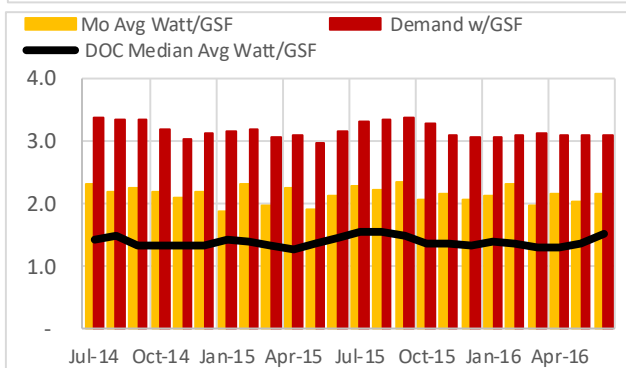
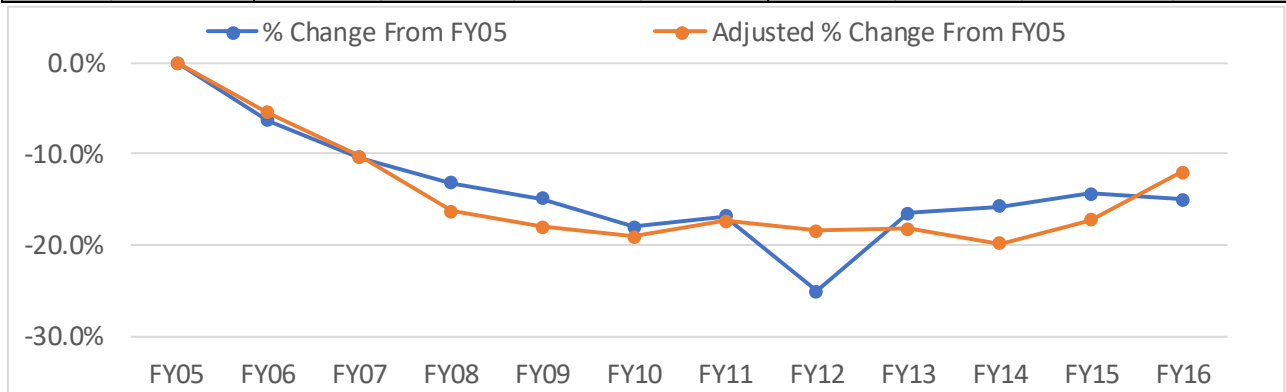
Electric kwh/GSF = 10.71		Therm/GSF = 0.52		Total Btu/GSF = 88,182					
Electric \$/GSF = \$ 1.03		Thermal \$/GSF = \$ 0.61		Energy \$/GSF = \$ 1.64					
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05	Weather Thermal Adjusted to FY05	Weather Electric Adjusted to FY05	Total Weather Adjusted Btu/GSF	Adjusted % Change From FY05
FY05	413,011	54,540	33,939	88,479	0.0%	100.0%	100.0%	88,479	0.0%
FY06	413,011	47,428	36,537	83,964	-5.1%	105.5%	97.6%	85,666	-3.2%
FY07	413,011	37,743	37,680	75,423	-14.8%	101.9%	98.9%	75,720	-14.4%
FY08	413,011	34,956	36,872	71,827	-18.8%	97.2%	98.8%	70,390	-20.4%
FY09	413,011	28,626	37,821	66,446	-24.9%	92.7%	99.5%	64,157	-27.5%
FY10	413,011	36,433	39,180	75,612	-14.5%	103.5%	99.5%	76,674	-13.3%
FY11	413,011	36,722	38,916	75,638	-14.5%	96.5%	98.5%	73,768	-16.6%
FY12	413,011	52,506	40,523	93,029	5.1%	110.8%	96.0%	97,086	9.7%
FY13	413,011	56,572	38,516	95,088	7.5%	98.6%	99.3%	94,033	6.3%
FY14	413,011	66,797	38,107	104,904	18.6%	92.5%	99.8%	99,814	12.8%
FY15	413,011	59,565	35,461	95,026	7.4%	94.8%	101.9%	92,607	4.7%
FY16	413,011	51,612	36,569	88,182	-0.3%	109.5%	98.2%	92,421	4.5%





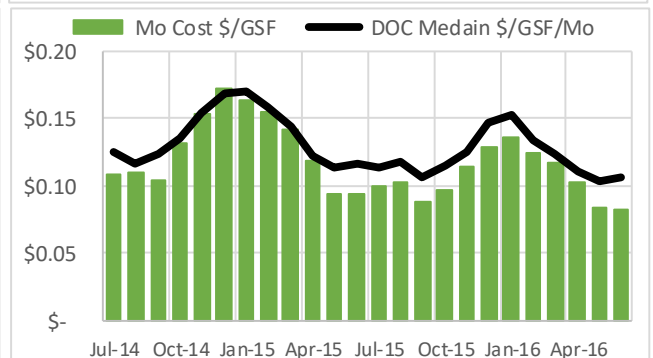
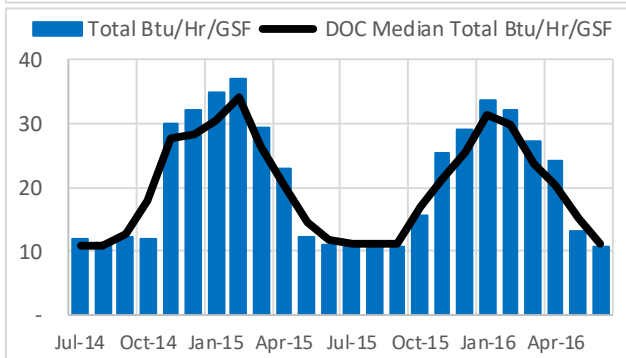
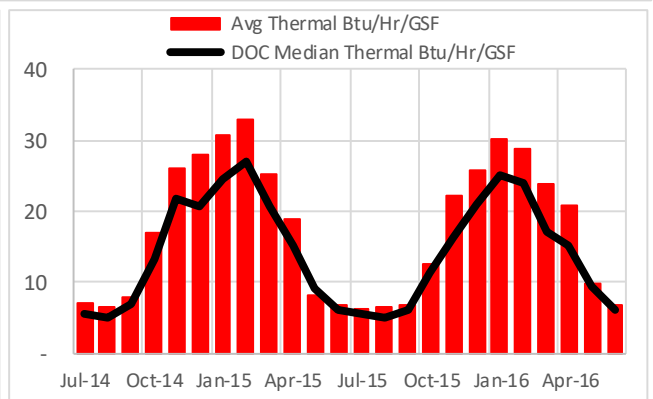
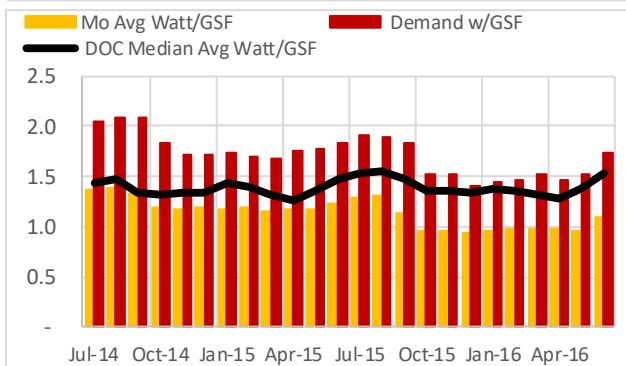
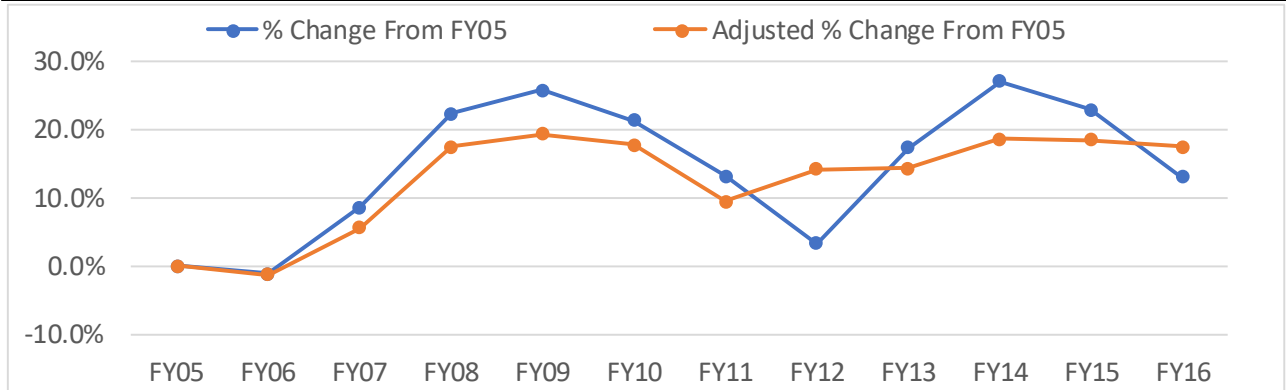
### Fiscal Year 2016 State Facilities Energy Report - DOC\_New Lisbon

Electric kwh/GSF = 18.95		Therm/GSF = 1.26		Total Btu/GSF = 190,565					
Electric \$/GSF = \$ 1.58		Thermal \$/GSF = \$ 0.45		Energy \$/GSF = \$ 2.03					
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05	Weather Thermal Adjusted to FY05	Weather Electric Adjusted to FY05	Total Weather Adjusted Btu/GSF	Adjusted % Change From FY05
FY05	316,878	156,152	68,006	224,158	0.0%	100.0%	100.0%	224,158	0.0%
FY06	316,878	140,266	69,779	210,045	-6.3%	101.3%	100.0%	211,918	-5.5%
FY07	316,878	133,273	67,612	200,885	-10.4%	100.3%	99.7%	201,023	-10.3%
FY08	316,878	128,558	66,143	194,701	-13.1%	94.8%	99.2%	187,515	-16.3%
FY09	316,878	127,214	63,464	190,678	-14.9%	94.7%	99.7%	183,734	-18.0%
FY10	316,878	120,443	63,345	183,788	-18.0%	98.2%	99.7%	181,444	-19.1%
FY11	316,878	122,922	63,509	186,431	-16.8%	99.3%	99.3%	185,111	-17.4%
FY12	316,878	105,377	62,385	167,762	-25.2%	114.2%	100.3%	182,917	-18.4%
FY13	316,878	125,151	62,072	187,223	-16.5%	97.1%	99.5%	183,309	-18.2%
FY14	316,878	126,244	62,653	188,897	-15.7%	93.1%	99.1%	179,586	-19.9%
FY15	316,878	127,977	63,964	191,941	-14.4%	95.1%	99.8%	185,553	-17.2%
FY16	316,878	125,872	64,693	190,565	-15.0%	105.4%	100.0%	197,332	-12.0%



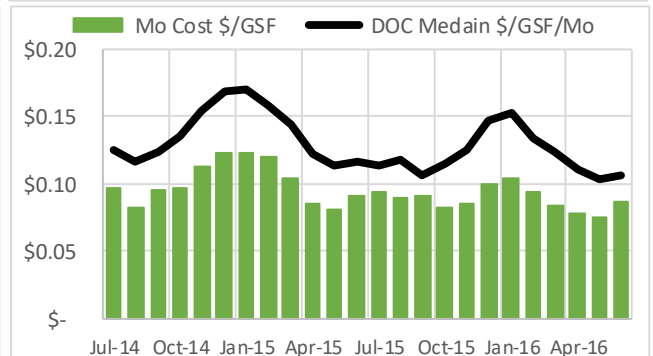
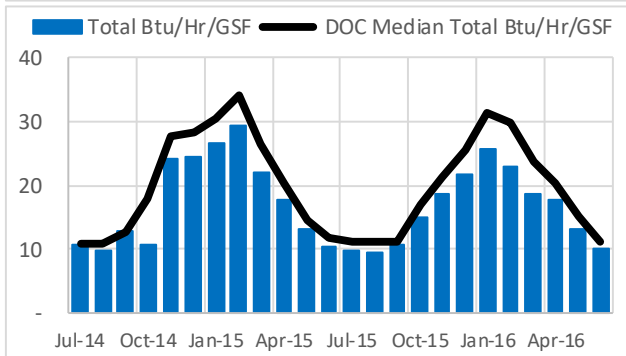
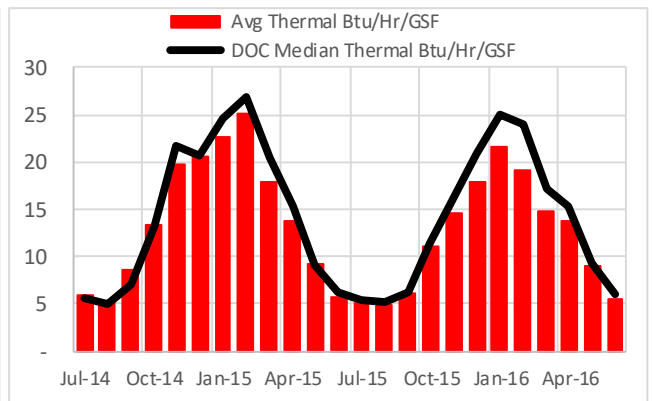
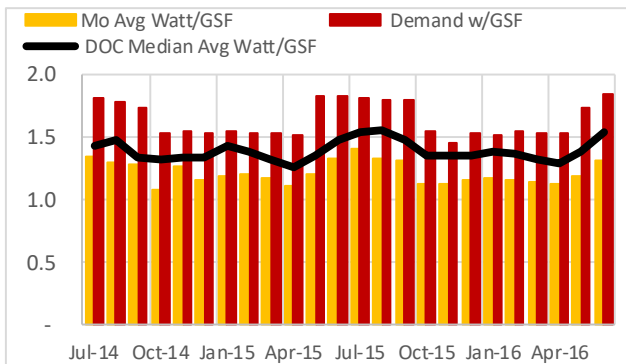
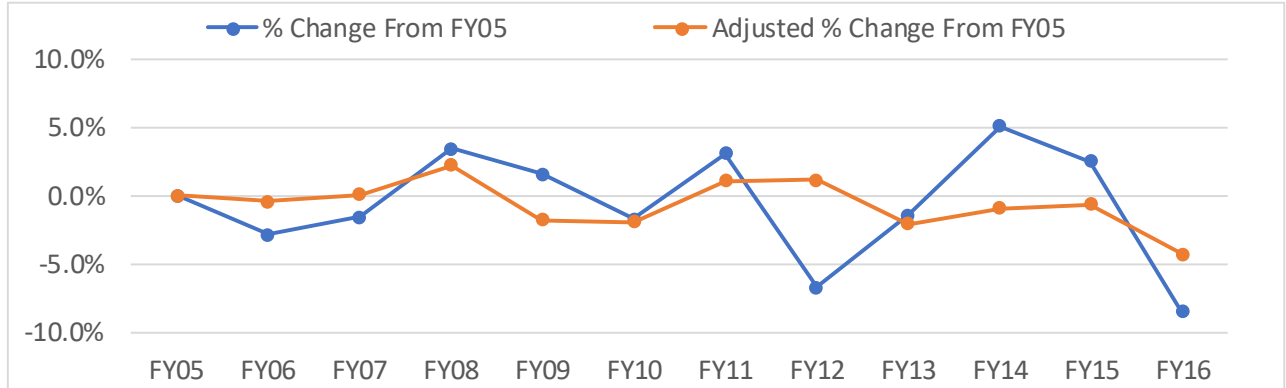
### Fiscal Year 2016 State Facilities Energy Report - DOC\_Oakhill

Electric kwh/GSF = 9.18		Therm/GSF = 1.46		Total Btu/GSF = 177,730					
Electric \$/GSF = \$ 0.74		Thermal \$/GSF = \$ 0.54		Energy \$/GSF = \$ 1.28					
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05	Weather Thermal Adjusted to FY05	Weather Electric Adjusted to FY05	Total Weather Adjusted Btu/GSF	Adjusted % Change From FY05
FY05	319,630	123,588	33,738	157,326	0.0%	100.0%	100.0%	157,326	0.0%
FY06	331,380	120,605	34,859	155,465	-1.2%	99.9%	99.9%	155,279	-1.3%
FY07	331,380	134,930	35,774	170,704	8.5%	96.6%	99.7%	166,071	5.6%
FY08	331,380	155,265	37,158	192,423	22.3%	95.3%	98.7%	184,659	17.4%
FY09	331,380	161,178	36,568	197,746	25.7%	93.9%	99.2%	187,585	19.2%
FY10	331,380	153,778	37,041	190,818	21.3%	96.3%	100.0%	185,161	17.7%
FY11	348,153	141,509	36,421	177,929	13.1%	96.2%	99.0%	172,232	9.5%
FY12	348,153	125,267	37,091	162,358	3.2%	113.8%	99.8%	179,610	14.2%
FY13	348,153	147,566	36,939	184,506	17.3%	97.0%	99.4%	179,863	14.3%
FY14	348,153	162,932	36,966	199,897	27.1%	92.0%	99.3%	186,578	18.6%
FY15	348,153	156,462	36,728	193,190	22.8%	95.6%	99.9%	186,238	18.4%
FY16	348,153	146,394	31,336	177,730	13.0%	104.9%	99.6%	184,828	17.5%



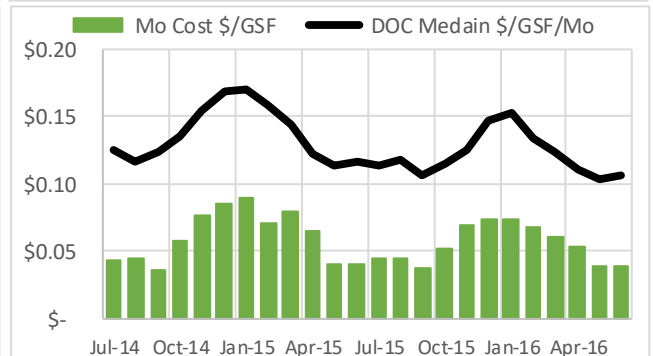
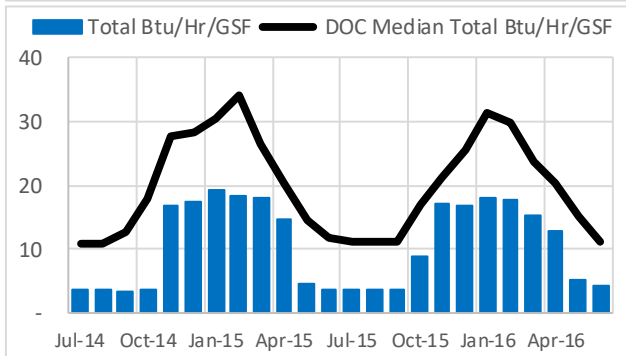
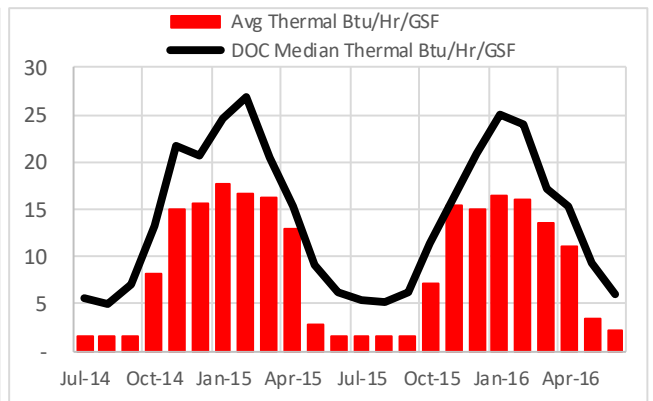
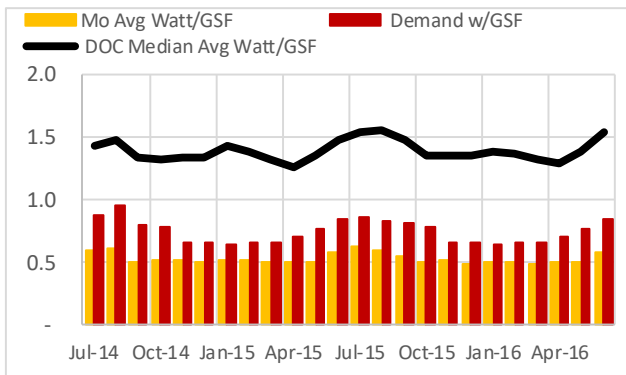
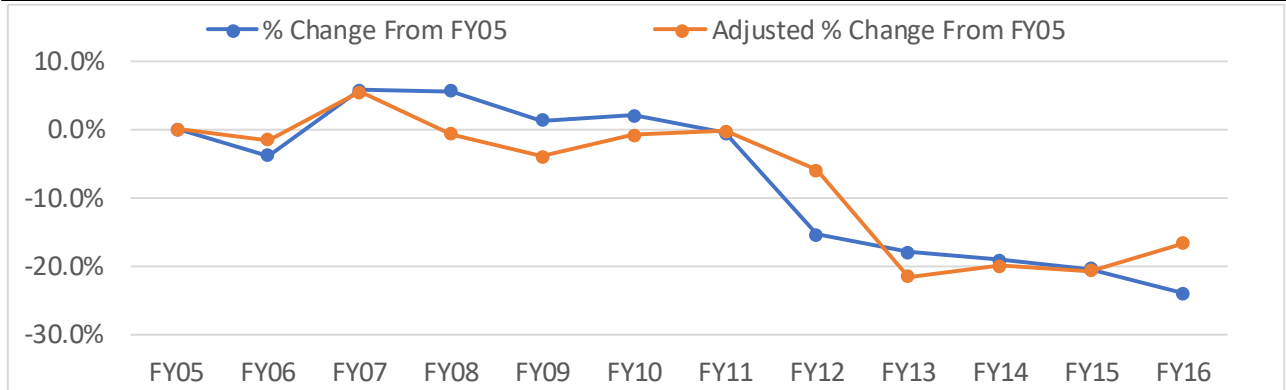
### Fiscal Year 2016 State Facilities Energy Report - DOC\_Oshkosh

Electric kwh/GSF = 10.66		Therm/GSF = 1.05		Total Btu/GSF = 141,210					
Electric \$/GSF = \$ 0.72		Thermal \$/GSF = \$ 0.34		Energy \$/GSF = \$ 1.07					
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05	Weather Thermal Adjusted to FY05	Weather Electric Adjusted to FY05	Total Weather Adjusted Btu/GSF	Adjusted % Change From FY05
FY05	890,187	112,252	42,105	154,357	0.0%	100.0%	100.0%	154,357	0.0%
FY06	890,187	107,877	41,991	149,868	-2.9%	103.6%	99.9%	153,656	-0.5%
FY07	890,187	109,030	42,903	151,932	-1.6%	102.3%	100.1%	154,453	0.1%
FY08	890,187	116,494	43,110	159,605	3.4%	98.7%	99.3%	157,796	2.2%
FY09	890,187	114,436	42,311	156,747	1.5%	95.7%	99.3%	151,557	-1.8%
FY10	890,187	110,648	41,021	151,669	-1.7%	99.6%	100.3%	151,364	-1.9%
FY11	890,187	117,976	41,112	159,088	3.1%	97.6%	99.3%	155,990	1.1%
FY12	890,187	103,233	40,770	144,003	-6.7%	111.6%	100.5%	156,144	1.2%
FY13	890,187	111,171	40,913	152,084	-1.5%	99.3%	99.8%	151,188	-2.1%
FY14	890,187	122,831	39,403	162,234	5.1%	92.7%	98.9%	152,886	-1.0%
FY15	890,187	121,847	36,384	158,231	2.5%	96.0%	100.0%	153,371	-0.6%
FY16	890,187	104,828	36,382	141,210	-8.5%	106.2%	100.2%	147,738	-4.3%



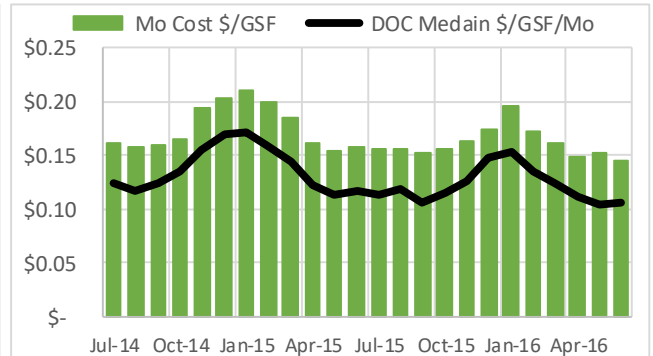
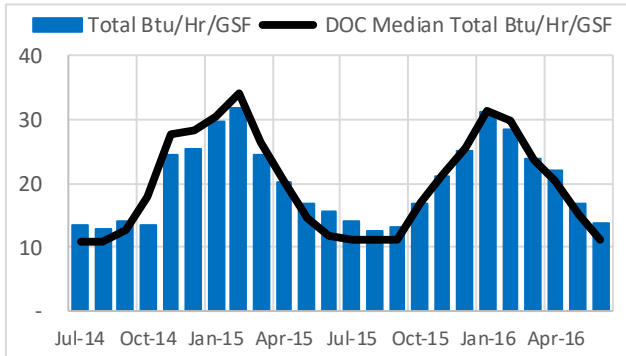
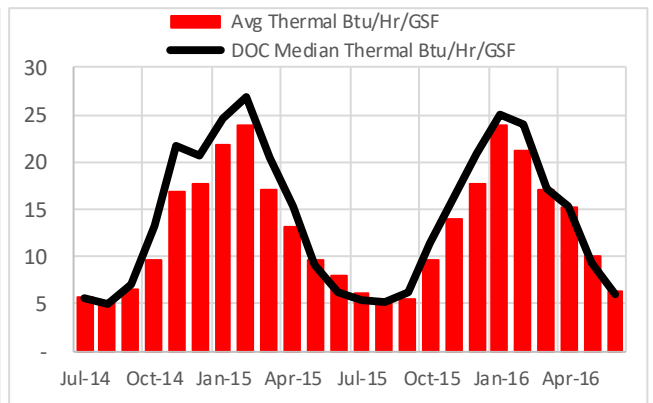
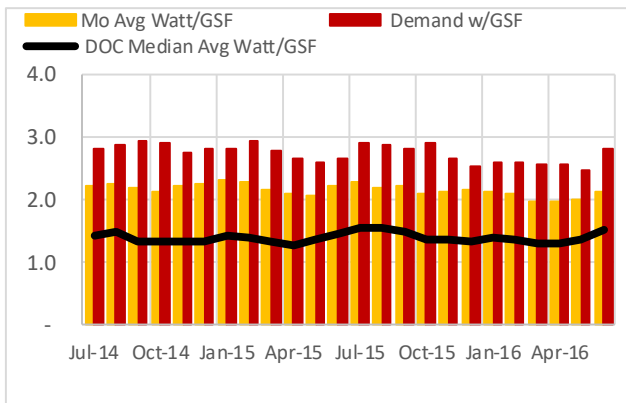
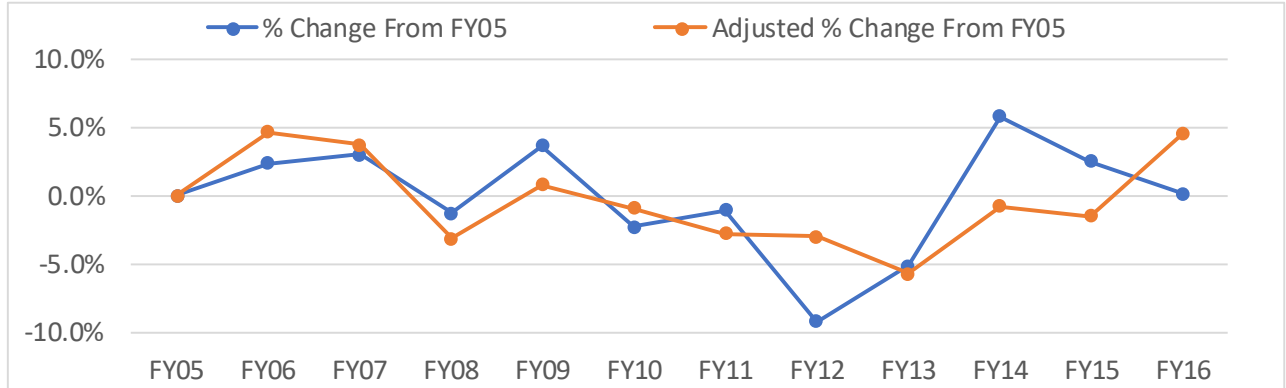
### Fiscal Year 2016 State Facilities Energy Report - DOC\_Prairie du Chien

Electric kwh/GSF =		4.64		Therm/GSF =		0.77		Total Btu/GSF =		92,446	
Electric \$/GSF =		\$ 0.37		Thermal \$/GSF =		\$ 0.29		Energy \$/GSF =		\$ 0.66	
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05	Weather Thermal Adjusted to FY05	Weather Electric Adjusted to FY05	Total Weather Adjusted Btu/GSF	Adjusted % Change From FY05		
FY05	383,100	105,090	16,589	121,679	0.0%	100.0%	100.0%	121,679	0.0%		
FY06	383,100	99,802	17,172	116,974	-3.9%	102.8%	99.8%	119,687	-1.6%		
FY07	383,100	109,906	18,685	128,591	5.7%	99.8%	99.5%	128,238	5.4%		
FY08	383,100	109,408	19,144	128,552	5.6%	93.1%	98.8%	120,730	-0.8%		
FY09	383,100	105,144	18,166	123,310	1.3%	93.9%	99.2%	116,773	-4.0%		
FY10	383,100	105,909	18,289	124,199	2.1%	96.7%	99.7%	120,630	-0.9%		
FY11	383,100	103,314	17,669	120,983	-0.6%	100.5%	98.9%	121,333	-0.3%		
FY12	383,100	85,752	17,167	102,918	-15.4%	113.2%	100.9%	114,411	-6.0%		
FY13	383,100	84,135	15,515	99,650	-18.1%	95.2%	98.5%	95,356	-21.6%		
FY14	383,100	82,630	15,751	98,382	-19.1%	99.0%	98.3%	97,303	-20.0%		
FY15	383,100	80,992	15,843	96,835	-20.4%	99.8%	98.8%	96,485	-20.7%		
FY16	383,100	76,598	15,848	92,446	-24.0%	111.8%	98.6%	101,282	-16.8%		



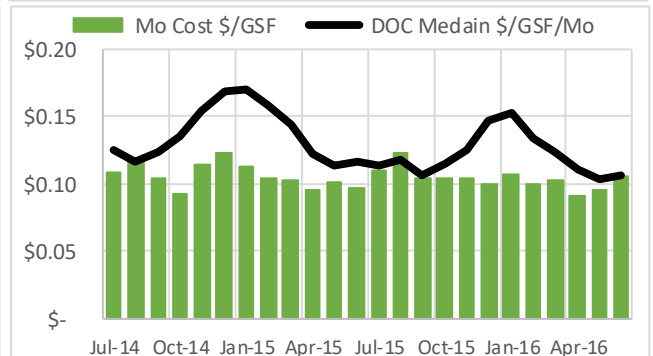
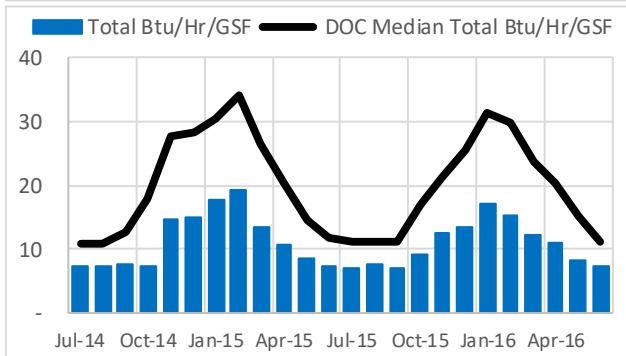
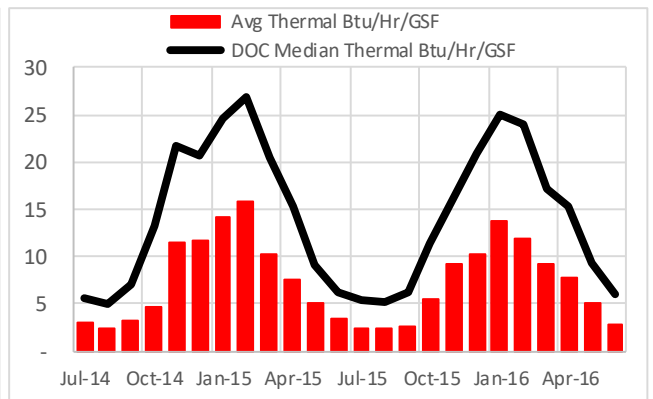
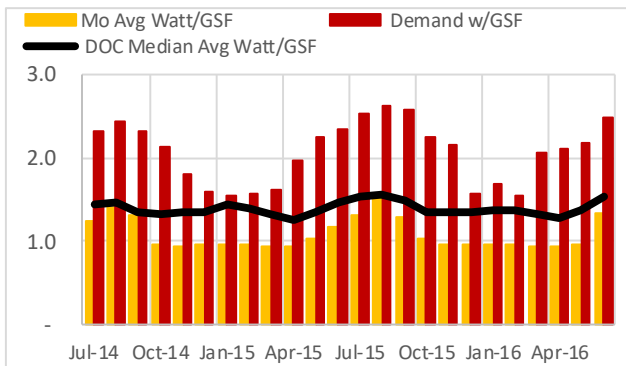
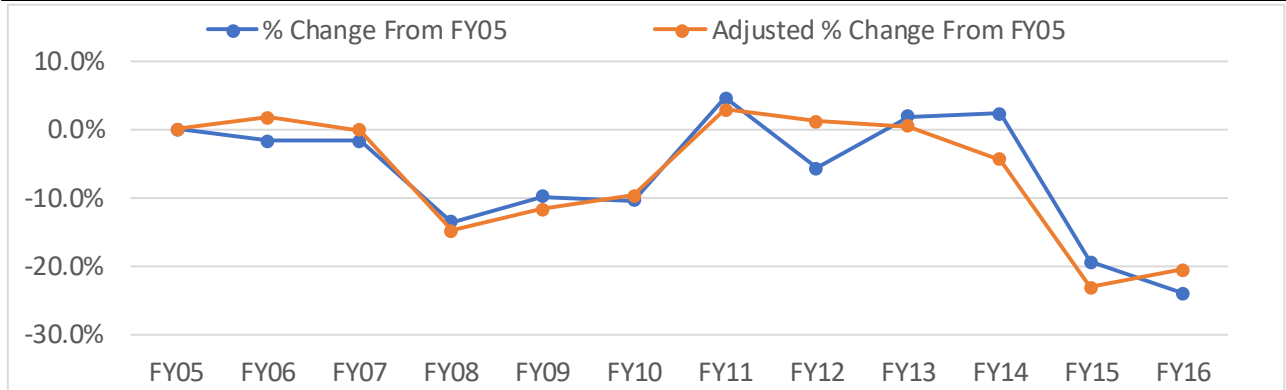
### Fiscal Year 2016 State Facilities Energy Report - DOC\_Racine

Electric kwh/GSF = 18.54		Therm/GSF = 1.11		Total Btu/GSF = 174,273					
Electric \$/GSF = \$ 1.56		Thermal \$/GSF = \$ 0.36		Energy \$/GSF = \$ 1.93					
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05	Weather Thermal Adjusted to FY05	Weather Electric Adjusted to FY05	Total Weather Adjusted Btu/GSF	Adjusted % Change From FY05
FY05	409,046	106,944	67,085	174,029	0.0%	100.0%	100.0%	174,029	0.0%
FY06	409,046	109,439	68,714	178,153	2.4%	103.9%	99.5%	182,081	4.6%
FY07	409,046	110,566	68,676	179,242	3.0%	101.3%	99.8%	180,507	3.7%
FY08	409,046	103,329	68,480	171,809	-1.3%	97.5%	98.9%	168,475	-3.2%
FY09	409,046	112,264	68,076	180,340	3.6%	96.0%	99.3%	175,380	0.8%
FY10	409,046	105,822	64,164	169,986	-2.3%	102.2%	100.1%	172,361	-1.0%
FY11	409,046	110,909	61,212	172,121	-1.1%	98.0%	98.9%	169,194	-2.8%
FY12	409,046	97,050	60,909	157,959	-9.2%	111.0%	100.1%	168,733	-3.0%
FY13	409,046	104,257	60,837	165,093	-5.1%	99.3%	99.5%	164,050	-5.7%
FY14	409,046	120,628	63,458	184,086	5.8%	91.1%	98.9%	172,628	-0.8%
FY15	409,046	112,663	65,659	178,322	2.5%	94.0%	99.7%	171,353	-1.5%
FY16	409,046	110,993	63,280	174,273	0.1%	106.8%	100.1%	181,890	4.5%



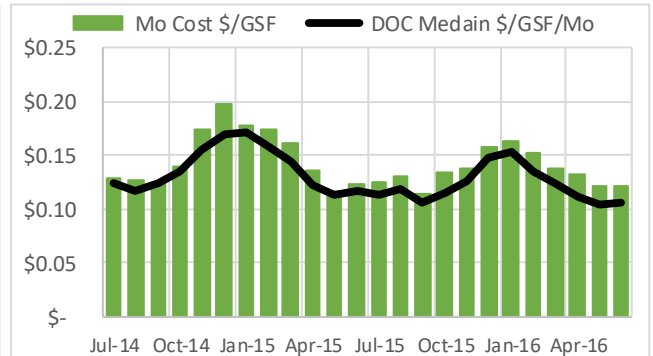
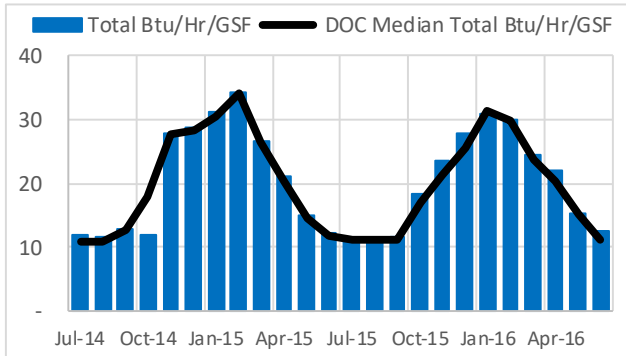
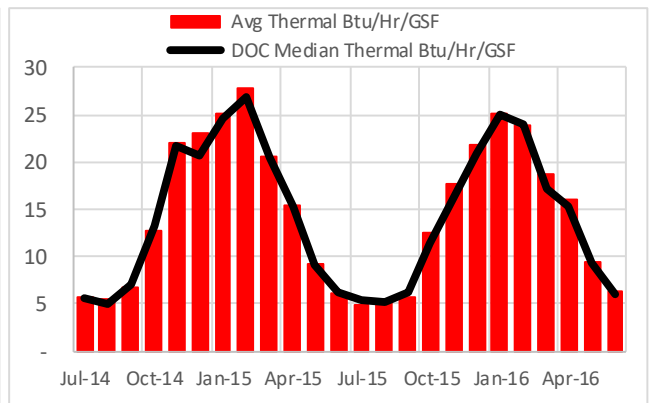
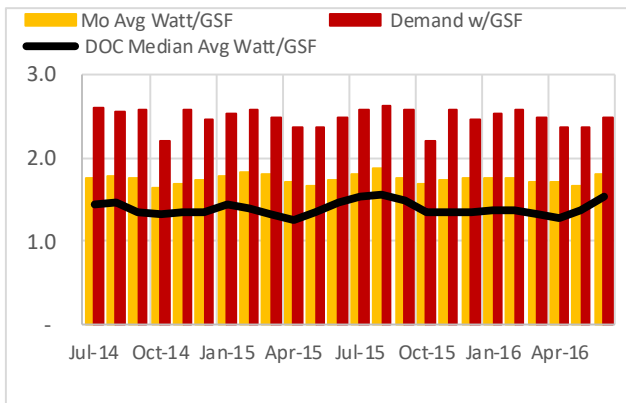
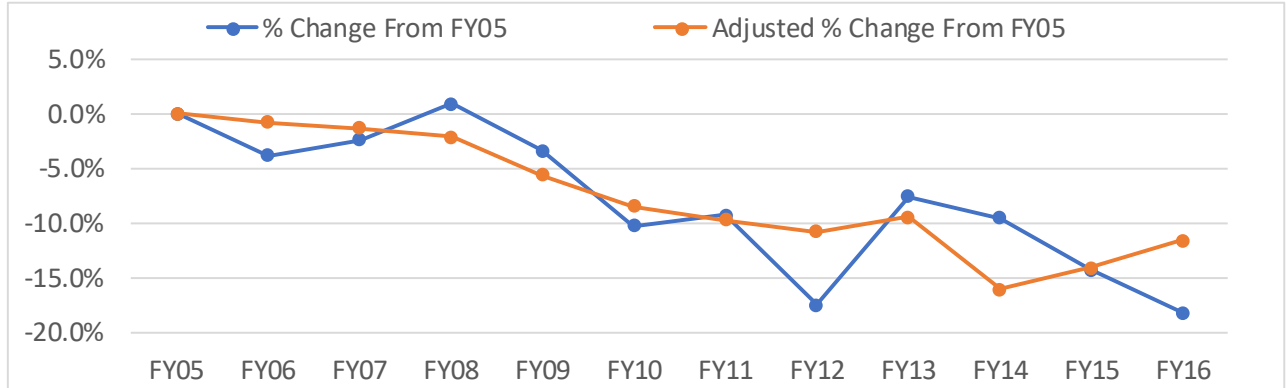
### Fiscal Year 2016 State Facilities Energy Report - DOC\_Racine Youth

Electric kwh/GSF = 9.67		Therm/GSF = 0.61		Total Btu/GSF = 93,512					
Electric \$/GSF = \$ 1.02		Thermal \$/GSF = \$ 0.23		Energy \$/GSF = \$ 1.25					
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05	Weather Thermal Adjusted to FY05	Weather Electric Adjusted to FY05	Total Weather Adjusted Btu/GSF	Adjusted % Change From FY05
FY05	207,697	85,046	38,193	123,239	0.0%	100.0%	100.0%	123,239	0.0%
FY06	207,697	80,443	40,758	121,201	-1.7%	106.3%	97.9%	125,434	1.8%
FY07	207,697	80,478	40,715	121,193	-1.7%	102.8%	98.9%	123,005	-0.2%
FY08	207,697	66,072	40,406	106,478	-13.6%	98.5%	98.5%	104,893	-14.9%
FY09	207,697	72,363	38,660	111,023	-9.9%	97.3%	99.1%	108,744	-11.8%
FY10	207,697	72,763	37,540	110,303	-10.5%	101.4%	99.7%	111,177	-9.8%
FY11	207,697	89,156	39,752	128,908	4.6%	98.8%	97.6%	126,857	2.9%
FY12	207,697	75,118	41,040	116,158	-5.7%	112.7%	97.6%	124,690	1.2%
FY13	207,697	84,271	41,215	125,486	1.8%	98.6%	98.6%	123,688	0.4%
FY14	207,697	89,930	36,137	126,067	2.3%	91.7%	97.8%	117,821	-4.4%
FY15	207,697	67,337	31,975	99,311	-19.4%	92.7%	101.0%	94,713	-23.1%
FY16	207,697	60,510	33,002	93,512	-24.1%	107.6%	99.1%	97,802	-20.6%



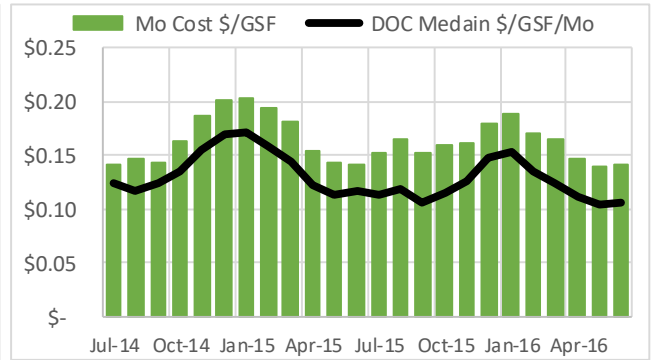
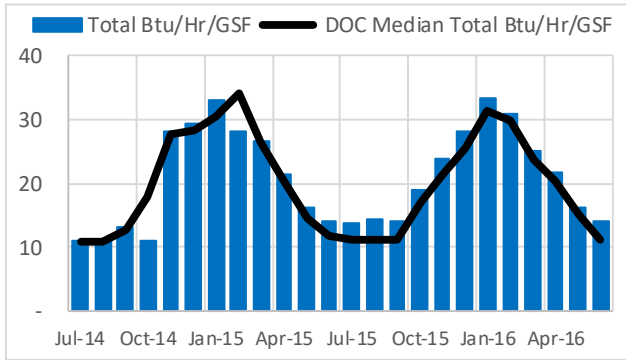
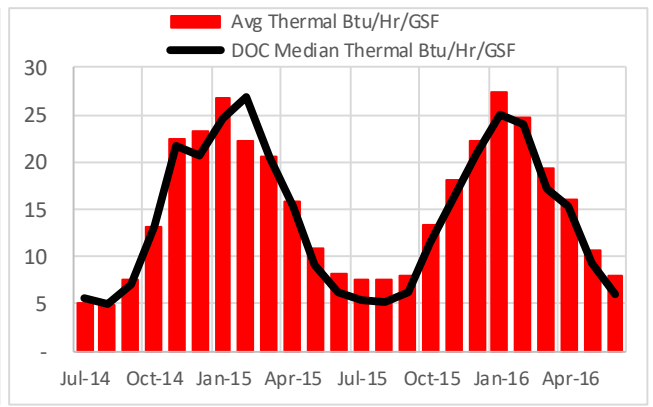
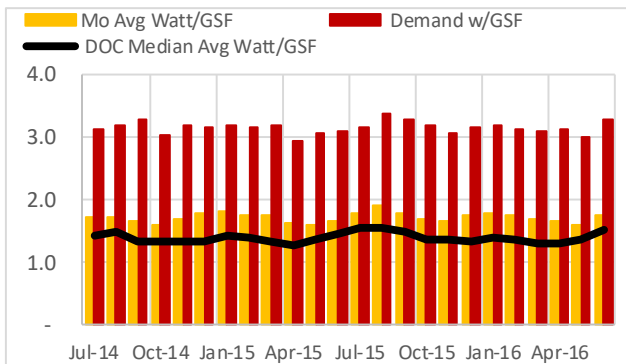
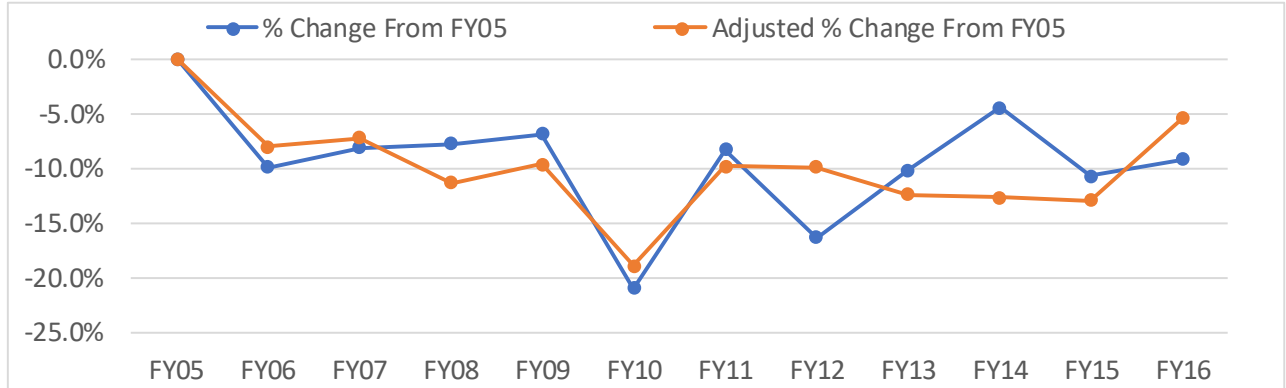
### Fiscal Year 2016 State Facilities Energy Report - DOC\_Redgranite

Electric kwh/GSF = 15.36		Therm/GSF = 1.22		Total Btu/GSF = 174,531					
Electric \$/GSF = \$ 1.19		Thermal \$/GSF = \$ 0.44		Energy \$/GSF = \$ 1.63					
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05	Weather Thermal Adjusted to FY05	Weather Electric Adjusted to FY05	Total Weather Adjusted Btu/GSF	Adjusted % Change From FY05
FY05	310,135	152,068	61,358	213,425	0.0%	100.0%	100.0%	213,425	0.0%
FY06	310,135	143,563	61,625	205,188	-3.9%	104.5%	100.0%	211,678	-0.8%
FY07	310,135	147,920	60,417	208,337	-2.4%	101.6%	100.0%	210,657	-1.3%
FY08	310,135	154,523	60,863	215,386	0.9%	96.0%	99.3%	208,830	-2.2%
FY09	310,135	145,411	60,714	206,125	-3.4%	96.9%	99.6%	201,308	-5.7%
FY10	310,135	131,445	60,011	191,456	-10.3%	103.1%	99.6%	195,274	-8.5%
FY11	310,135	134,920	58,674	193,594	-9.3%	99.8%	98.9%	192,638	-9.7%
FY12	310,135	118,110	57,891	176,001	-17.5%	111.9%	100.5%	190,400	-10.8%
FY13	310,135	139,269	57,954	197,223	-7.6%	97.2%	99.7%	193,168	-9.5%
FY14	310,135	137,482	55,539	193,021	-9.6%	90.3%	98.9%	179,051	-16.1%
FY15	310,135	130,751	52,033	182,785	-14.4%	100.3%	100.0%	183,201	-14.2%
FY16	310,135	122,094	52,436	174,531	-18.2%	111.3%	100.4%	188,545	-11.7%



### Fiscal Year 2016 State Facilities Energy Report - DOC\_Stanley

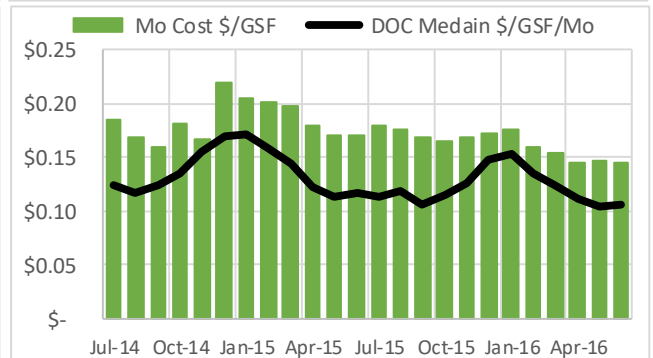
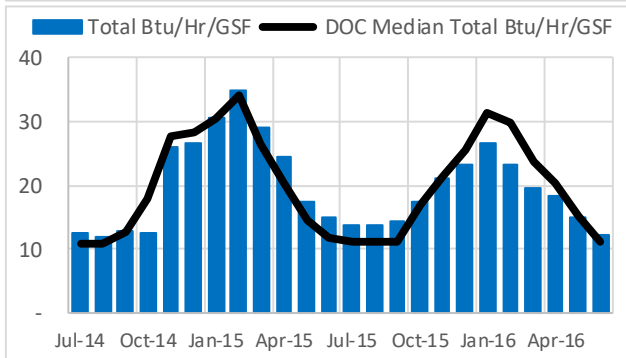
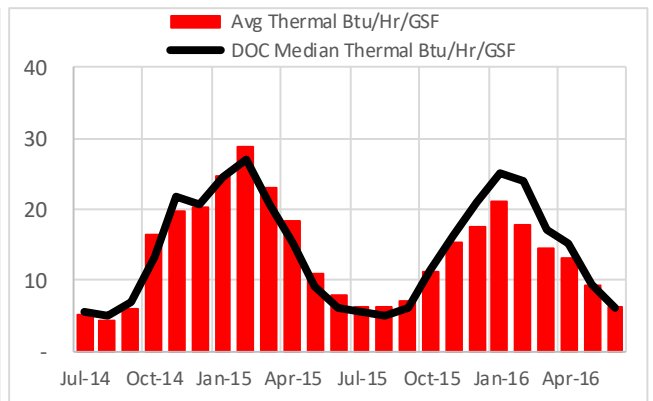
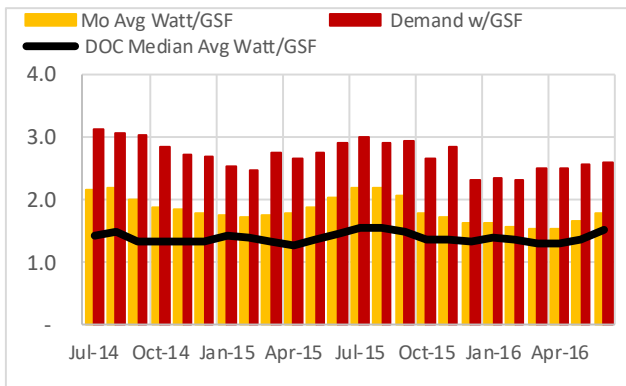
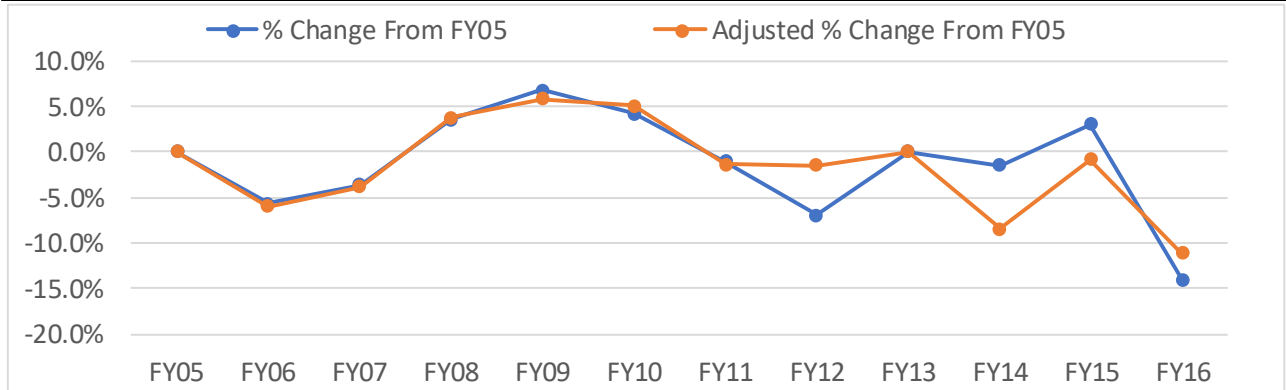
Electric kwh/GSF =		15.26		Therm/GSF =		1.34		Total Btu/GSF =		185,796	
Electric \$/GSF =		\$ 1.41		Thermal \$/GSF =		\$ 0.50		Energy \$/GSF =		\$ 1.92	
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05	Weather Thermal Adjusted to FY05	Weather Electric Adjusted to FY05	Total Weather Adjusted Btu/GSF	Adjusted % Change From FY05		
FY05	411,897	136,226	68,314	204,540	0.0%	100.0%	100.0%	204,540	0.0%		
FY06	411,897	118,035	66,203	184,238	-9.9%	103.4%	99.9%	188,166	-8.0%		
FY07	411,897	130,405	57,584	187,989	-8.1%	101.3%	100.1%	189,759	-7.2%		
FY08	411,897	133,092	55,500	188,592	-7.8%	95.0%	98.8%	181,280	-11.4%		
FY09	411,897	135,351	55,173	190,524	-6.9%	96.3%	98.5%	184,732	-9.7%		
FY10	411,897	109,698	51,820	161,518	-21.0%	103.3%	101.2%	165,713	-19.0%		
FY11	411,897	134,274	53,285	187,559	-8.3%	97.9%	99.6%	184,506	-9.8%		
FY12	411,897	118,819	52,235	171,054	-16.4%	110.8%	100.8%	184,287	-9.9%		
FY13	411,897	133,715	49,943	183,658	-10.2%	96.8%	99.7%	179,194	-12.4%		
FY14	411,897	145,049	50,450	195,499	-4.4%	88.9%	98.4%	178,572	-12.7%		
FY15	411,897	131,797	50,775	182,572	-10.7%	96.7%	99.6%	178,080	-12.9%		
FY16	411,897	133,706	52,090	185,796	-9.2%	105.5%	100.4%	193,339	-5.5%		





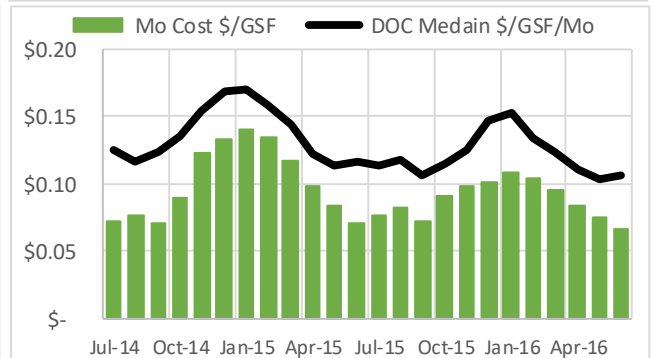
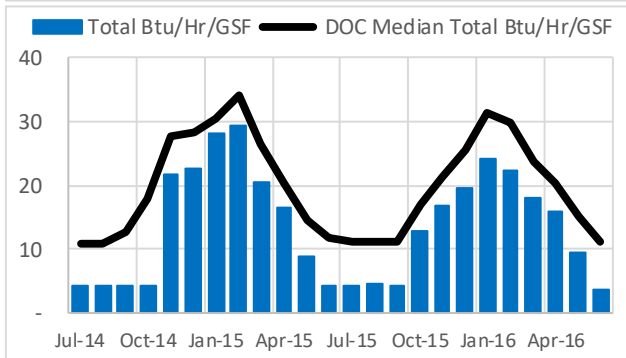
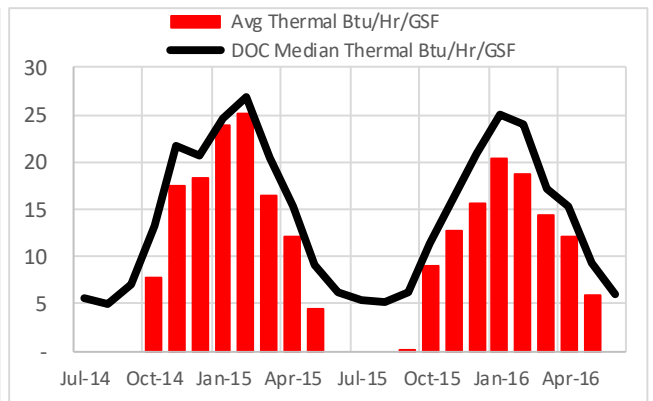
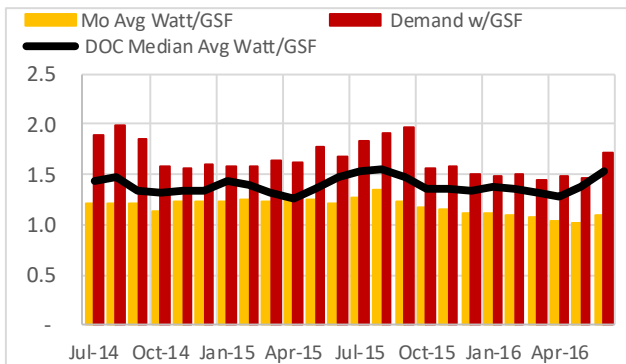
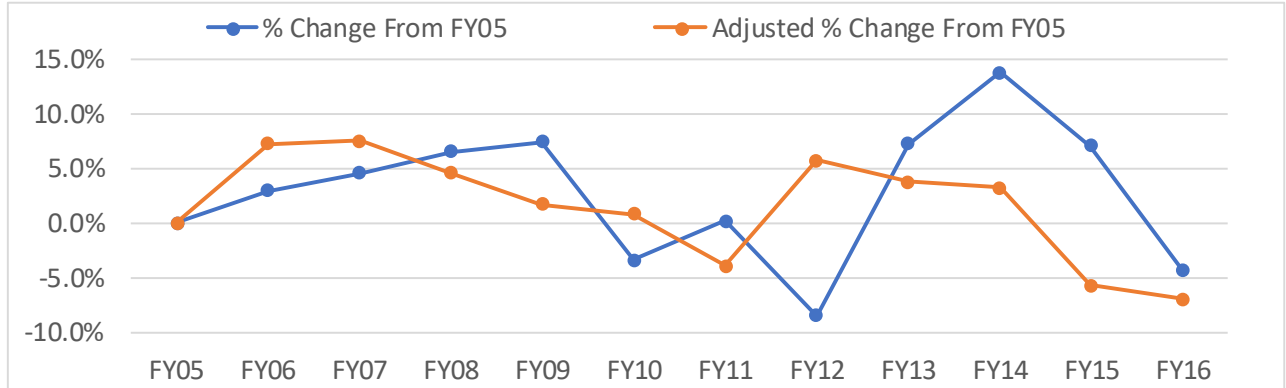
### Fiscal Year 2016 State Facilities Energy Report - DOC\_Sturtevant

Electric kwh/GSF =		15.56		Therm/GSF =		1.07		Total Btu/GSF =		159,785	
Electric \$/GSF =		\$ 1.54		Thermal \$/GSF =		\$ 0.41		Energy \$/GSF =		\$ 1.95	
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05	Weather Thermal Adjusted to FY05	Weather Electric Adjusted to FY05	Total Weather Adjusted Btu/GSF	Adjusted % Change From FY05		
FY05	93,312	131,324	54,613	185,937	0.0%	100.0%	100.0%	185,937	0.0%		
FY06	93,312	122,768	52,729	175,497	-5.6%	99.9%	99.1%	174,913	-5.9%		
FY07	93,312	124,053	55,178	179,231	-3.6%	99.9%	99.6%	178,908	-3.8%		
FY08	93,312	134,062	58,563	192,625	3.6%	100.4%	99.5%	192,949	3.8%		
FY09	93,312	138,779	59,728	198,507	6.8%	98.8%	99.7%	196,752	5.8%		
FY10	93,312	136,318	57,564	193,882	4.3%	101.1%	99.8%	195,301	5.0%		
FY11	93,312	125,983	58,048	184,031	-1.0%	100.0%	99.0%	183,440	-1.3%		
FY12	93,312	115,209	57,756	172,965	-7.0%	109.4%	99.0%	183,270	-1.4%		
FY13	93,312	127,853	58,103	185,956	0.0%	100.2%	99.7%	186,053	0.1%		
FY14	93,312	126,438	56,699	183,137	-1.5%	90.1%	99.2%	170,185	-8.5%		
FY15	93,312	134,765	56,870	191,635	3.1%	94.4%	100.7%	184,429	-0.8%		
FY16	93,312	106,682	53,103	159,785	-14.1%	105.5%	99.2%	165,226	-11.1%		



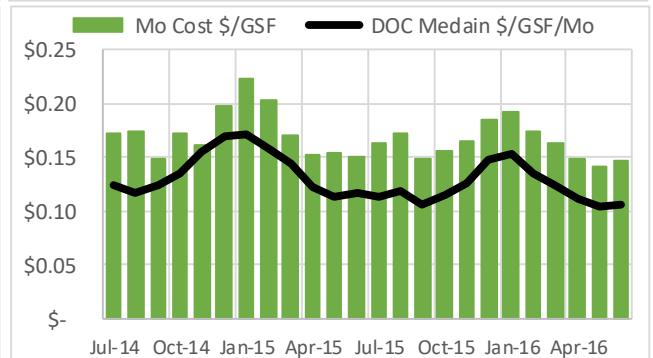
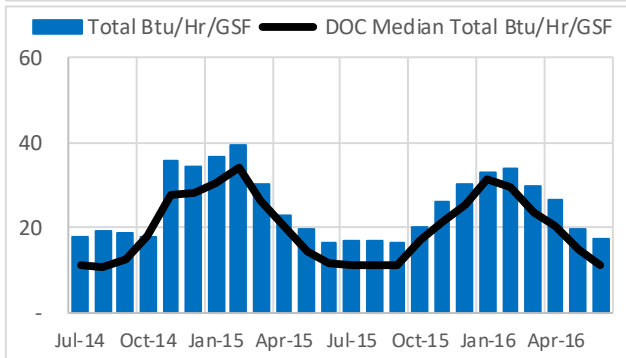
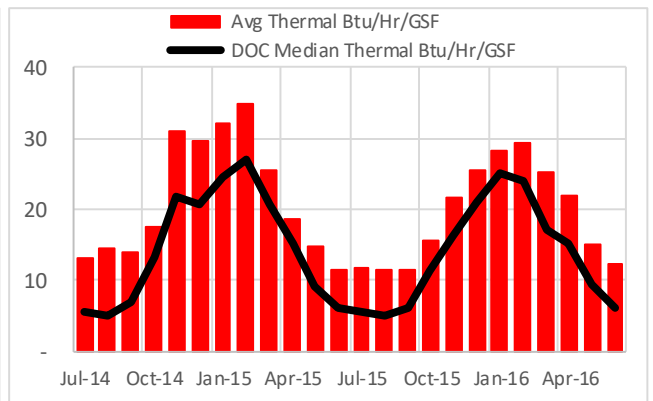
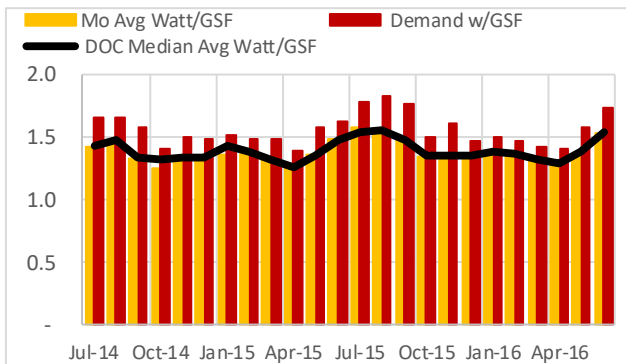
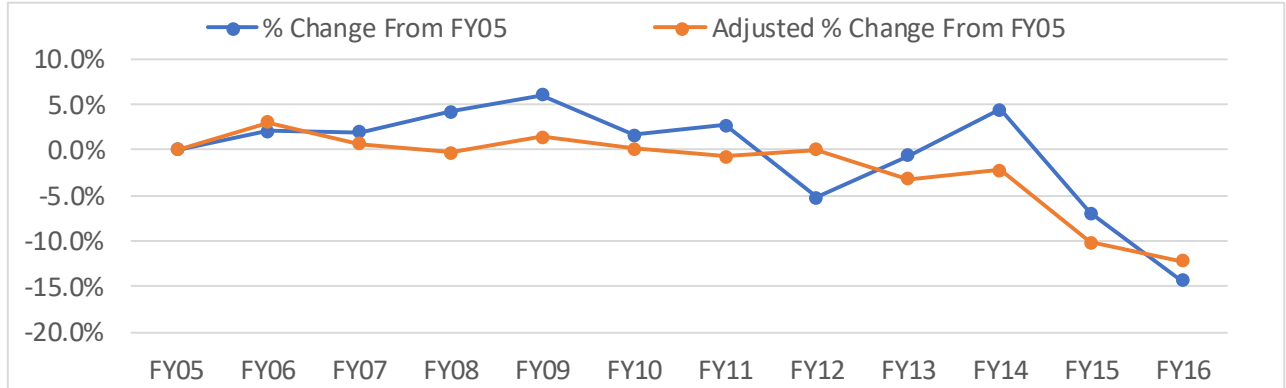
### Fiscal Year 2016 State Facilities Energy Report - DOC\_Taycheedah

Electric kwh/GSF = 10.05		Therm/GSF = 0.79		Total Btu/GSF = 113,804					
Electric \$/GSF = \$ 0.78		Thermal \$/GSF = \$ 0.27		Energy \$/GSF = \$ 1.06					
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05	Weather Thermal Adjusted to FY05	Weather Electric Adjusted to FY05	Total Weather Adjusted Btu/GSF	Adjusted % Change From FY05
FY05	380,940	81,875	37,036	118,910	0.0%	100.0%	100.0%	118,910	0.0%
FY06	380,940	84,843	37,608	122,451	3.0%	105.9%	100.1%	127,492	7.2%
FY07	380,940	87,325	37,003	124,328	4.6%	103.9%	100.3%	127,859	7.5%
FY08	380,940	88,875	37,777	126,653	6.5%	97.6%	99.5%	124,318	4.5%
FY09	380,940	89,681	38,027	127,708	7.4%	92.5%	99.8%	120,885	1.7%
FY10	380,940	77,349	37,471	114,820	-3.4%	106.8%	99.4%	119,836	0.8%
FY11	380,940	81,955	37,156	119,112	0.2%	94.4%	99.3%	114,220	-3.9%
FY12	380,940	70,353	38,382	108,735	-8.6%	123.9%	100.5%	125,712	5.7%
FY13	380,940	89,724	37,780	127,504	7.2%	95.5%	99.8%	123,360	3.7%
FY14	380,940	97,793	37,471	135,264	13.8%	87.3%	99.5%	122,710	3.2%
FY15	380,940	90,851	36,461	127,313	7.1%	83.3%	99.8%	112,057	-5.8%
FY16	380,940	79,491	34,313	113,804	-4.3%	95.5%	100.9%	110,546	-7.0%



### Fiscal Year 2016 State Facilities Energy Report - DOC\_Waupun

Electric kwh/GSF = 12.35		Therm/GSF = 1.68		Total Btu/GSF = 210,050					
Electric \$/GSF = \$ 1.36		Thermal \$/GSF = \$ 0.60		Energy \$/GSF = \$ 1.95					
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05	Weather Thermal Adjusted to FY05	Weather Electric Adjusted to FY05	Total Weather Adjusted Btu/GSF	Adjusted % Change From FY05
FY05	1,260,274	203,602	41,632	245,233	0.0%	100.0%	100.0%	245,233	0.0%
FY06	1,260,274	209,536	40,731	250,267	2.1%	101.3%	99.5%	252,810	3.1%
FY07	1,260,274	209,439	40,638	250,078	2.0%	98.5%	99.7%	246,800	0.6%
FY08	1,260,274	213,020	42,524	255,545	4.2%	95.0%	99.3%	244,539	-0.3%
FY09	1,260,274	217,938	42,051	259,989	6.0%	94.9%	99.6%	248,688	1.4%
FY10	1,260,274	208,344	40,815	249,159	1.6%	98.3%	100.1%	245,612	0.2%
FY11	1,260,274	208,778	43,122	251,900	2.7%	96.4%	98.0%	243,576	-0.7%
FY12	1,260,274	190,756	41,753	232,509	-5.2%	106.8%	99.7%	245,311	0.0%
FY13	1,260,274	202,136	41,702	243,838	-0.6%	97.0%	99.3%	237,496	-3.2%
FY14	1,260,274	214,423	41,576	255,999	4.4%	92.8%	98.2%	239,743	-2.2%
FY15	1,260,274	187,545	40,619	228,163	-7.0%	95.9%	99.5%	220,190	-10.2%
FY16	1,260,274	167,911	42,139	210,050	-14.3%	103.1%	99.9%	215,281	-12.2%



# Agency Energy Use Summary

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## SCOPE

Includes five facilities:

1. Mendota Complex - Mendota Mental Health Institute and Center Wisconsin Center;
2. Northern Center and Chippewa Valley CTF (DOC);
3. Sand Ridge Center;
4. Southern Center - Southern Oaks Girls School (DOC), Ellsworth Correctional Center (DOC), and facilities now operated by Department of Veterans Affairs; and
5. Winnebago Complex - Winnebago Mental Health Institute and Wisconsin Resources Center.

## ENERGY CONSUMPTION

**Total Change from Base - Weather Adjusted: 3.2 percent decrease.**

Energy use (BTU/GSF/Yr) for FY16 was 3.2 percent lower than in the base fiscal year, FY05.

**Latest Year Change - Weather Adjusted: 4.3 percent increase.**

Energy use (BTU/GSF/Yr) for FY16 increased 4.3 percent from the previous fiscal year.

***Average Annual Change - Weather Adjusted: 0.3 percent decrease per year.***

On average, energy use (BTU/GSF/Yr) has decreased 0.3 percent since the base year, FY05.

## GSF AND CONSUMPTION STATISTICS

***GSF Change from Base: -2.1 percent Decrease.***

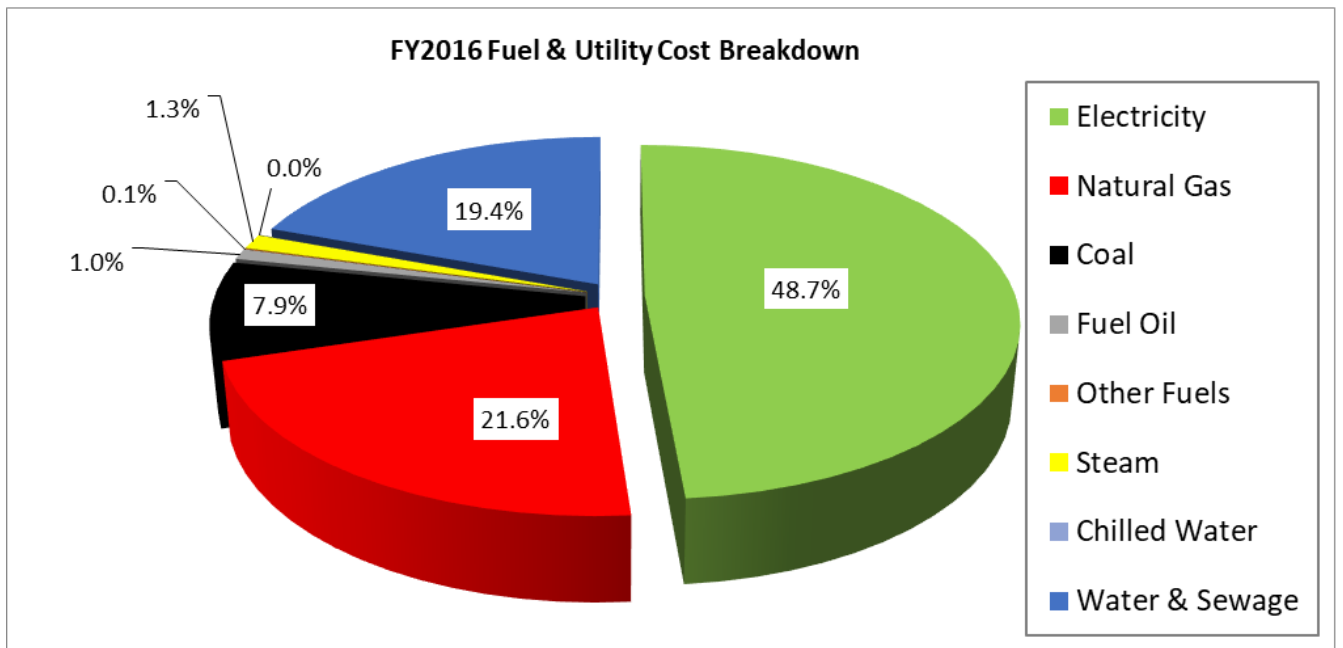
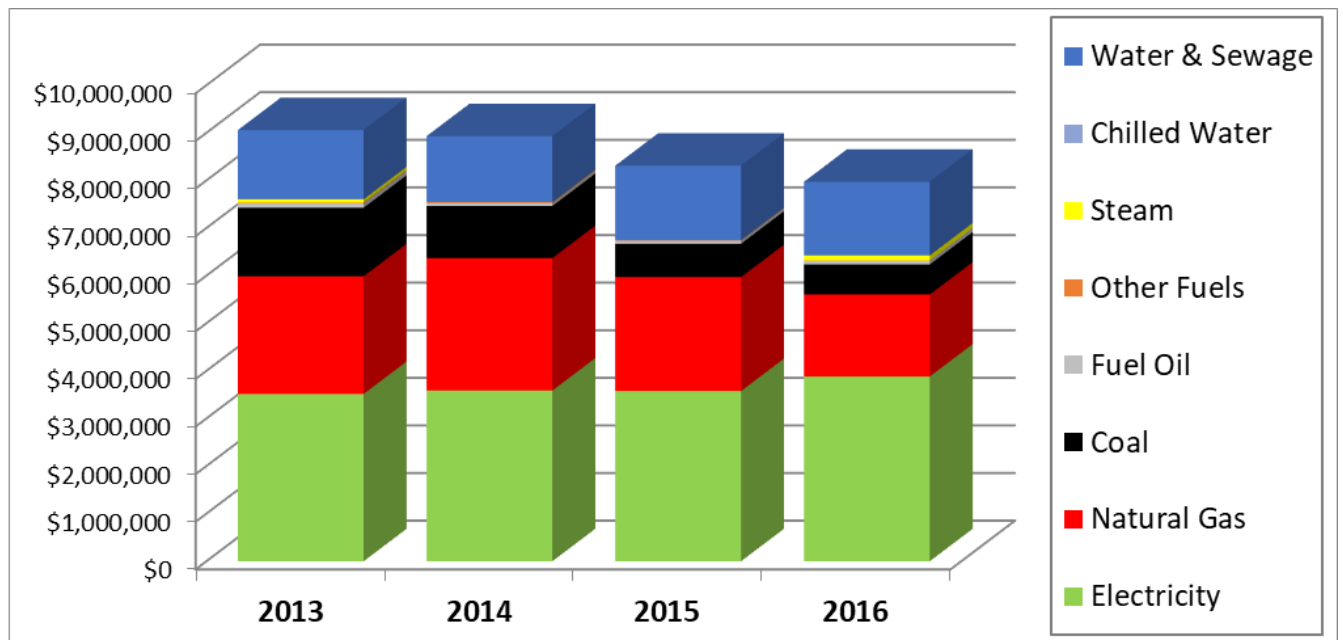
Gross square footage has decreased 2.1% from the base fiscal year, FY05.

***Consumption Change from Base: 7.5 percent decrease.***

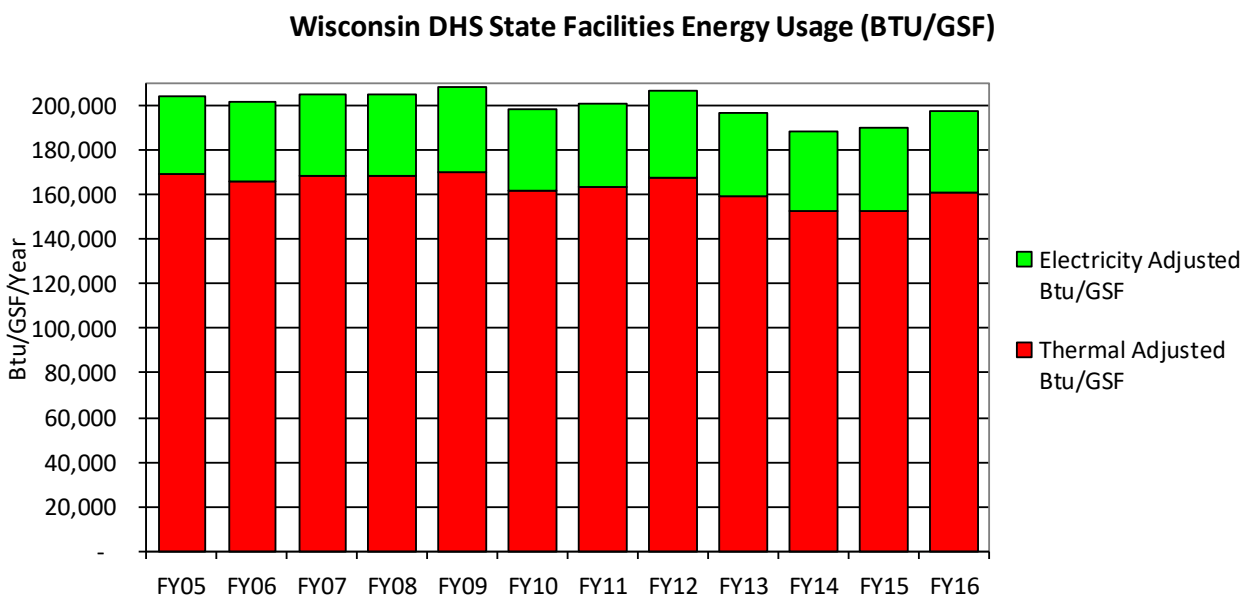
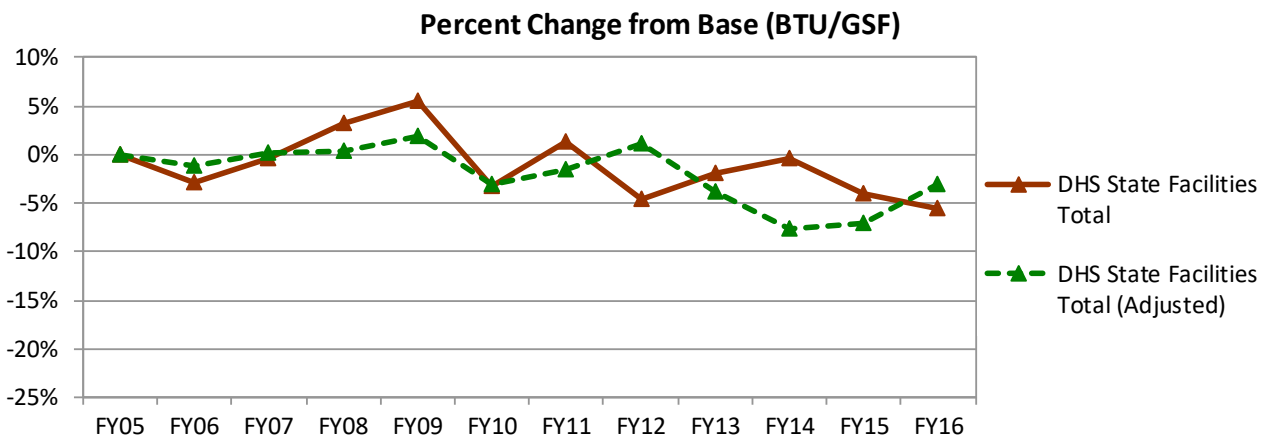
Total consumption was 7.5 percent less when compared to FY05. Total energy (million BTU) purchases in FY16 were 5.2 percent less than in the base year when adjusted for weather compared to FY05.

### Department of Health Services Fuel & Utilities Expenditures

Subcategory Name	Fiscal Year 2013	Fiscal Year 2014	Fiscal Year 2015	Fiscal Year 2016
Electricity	\$ 3,515,748	\$ 3,586,404	\$ 3,576,470	\$ 3,881,764
Natural Gas	\$ 2,472,451	\$ 2,782,269	\$ 2,394,174	\$ 1,722,086
Coal	\$ 1,438,714	\$ 1,094,517	\$ 699,889	\$ 631,386
Fuel Oil	\$ 90,656	\$ 61,349	\$ 64,121	\$ 77,604
Other Fuels	\$ 16,515	\$ 21,243	\$ 11,715	\$ 4,444
Steam	\$ 70,508	\$ -	\$ -	\$ 106,864
Chilled Water	\$ -	\$ -	\$ -	\$ -
Water & Sewage	\$ 1,453,374	\$ 1,384,599	\$ 1,563,843	\$ 1,547,096
<b>Total:</b>	<b>\$ 9,057,966</b>	<b>\$ 8,930,381</b>	<b>\$ 8,310,212</b>	<b>\$ 7,971,244</b>

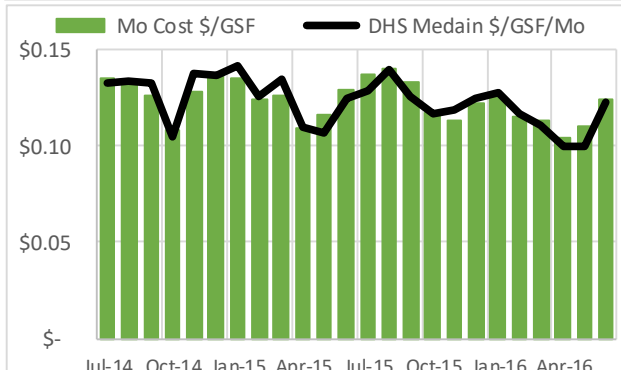
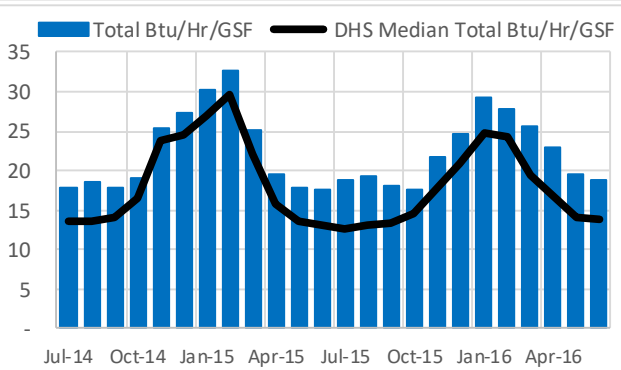
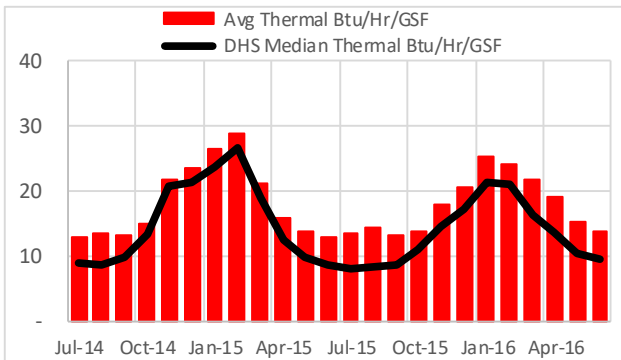
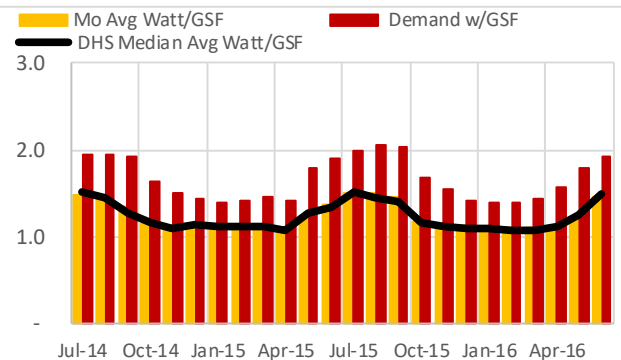
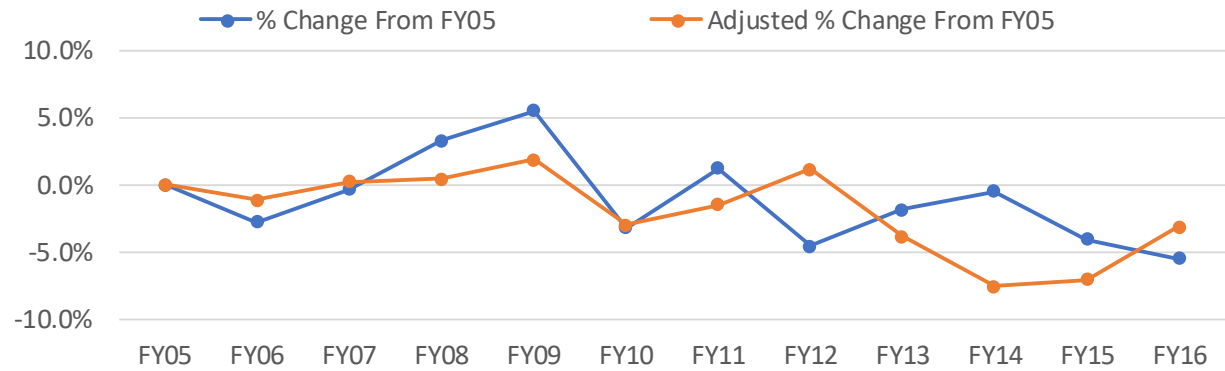


Wisconsin DHS State Facilities									
DHS State Facilities Total									
Fiscal Year	GSF	BTU/GSF				Weather-Adjusted			
		Thermal	Electricity	Total	% Change From FY05	Thermal Adjusted to FY05	Electric Adjusted to FY05	Total Adjusted Btu/GSF	Adjusted % Change From FY05
FY05	4,247,798	169,215	34,970	204,184	0.0%	100.0%	100.0%	204,184	0.0%
FY06	4,247,798	162,465	36,013	198,479	-2.8%	102.3%	98.9%	201,849	-1.1%
FY07	4,247,798	167,295	36,142	203,437	-0.4%	100.8%	99.5%	204,632	0.2%
FY08	4,247,798	173,573	37,301	210,874	3.3%	96.8%	99.1%	205,017	0.4%
FY09	4,099,238	177,474	37,891	215,365	5.5%	95.9%	99.9%	208,004	1.9%
FY10	4,198,234	161,722	35,845	197,567	-3.2%	100.2%	100.4%	197,970	-3.0%
FY11	4,198,234	168,916	37,803	206,720	1.2%	96.9%	98.9%	201,113	-1.5%
FY12	4,088,791	155,669	39,096	194,765	-4.6%	107.8%	98.7%	206,446	1.1%
FY13	4,145,773	163,386	37,009	200,396	-1.9%	97.6%	99.7%	196,302	-3.9%
FY14	4,145,773	166,387	36,777	203,164	-0.5%	91.5%	99.2%	188,737	-7.6%
FY15	4,159,400	159,109	36,732	195,841	-4.1%	96.0%	100.5%	189,666	-7.1%
FY16	4,159,400	155,603	37,360	192,962	-5.5%	103.2%	99.4%	197,743	-3.2%



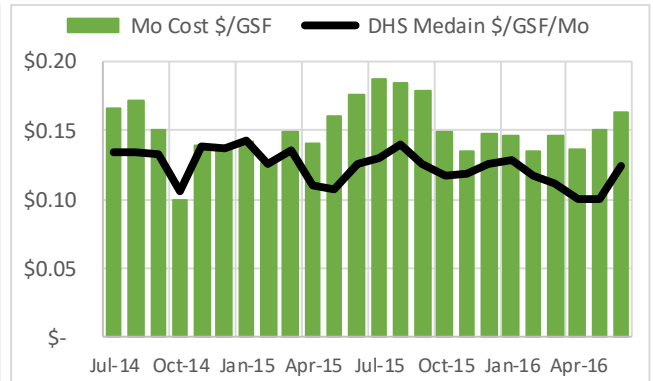
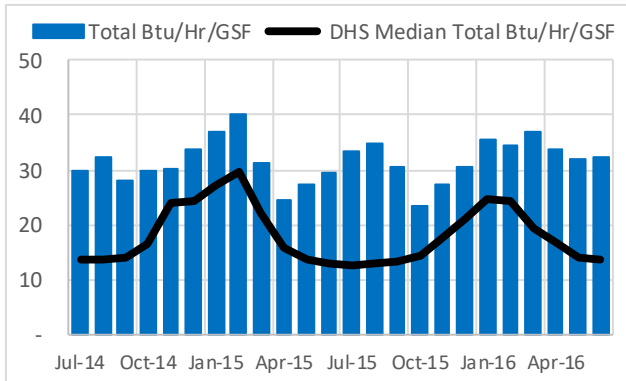
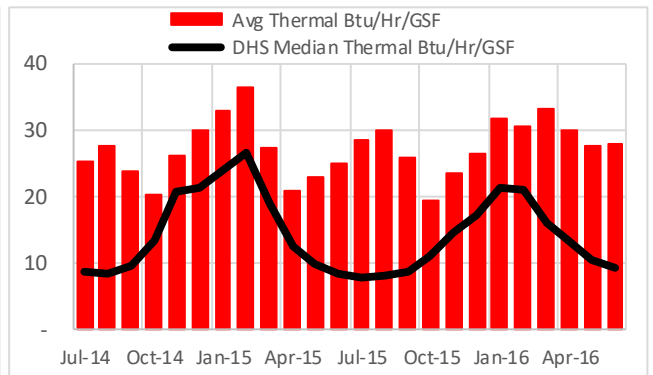
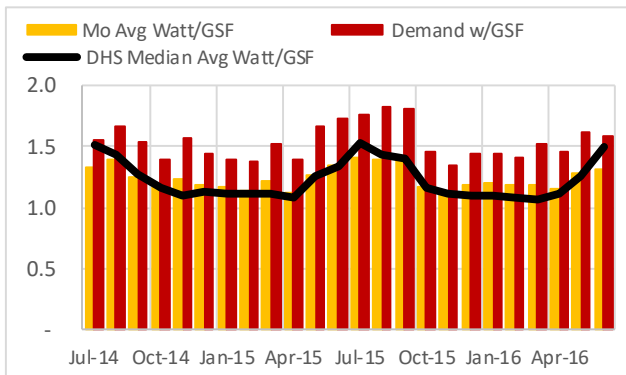
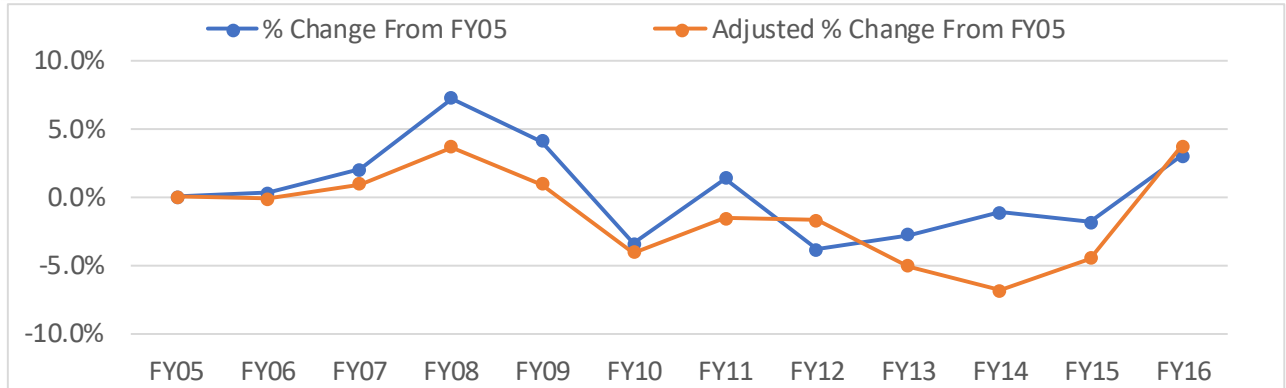
### Fiscal Year 2016 DHS Facilities Energy Report - DHS Total

Electric kwh/GSF =		10.95		Therm/GSF =		1.56		Total Btu/GSF =		192,962	
Electric \$/GSF =		\$ 0.92		Thermal \$/GSF =		\$ 0.54		Energy \$/GSF =		\$ 1.46	
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05	Weather Thermal Adjusted to FY05	Weather Electric Adjusted to FY05	Total Weather Adjusted Btu/GSF	Adjusted % Change From FY05		
FY05	4,247,798	169,215	34,970	204,184	0.0%	100.0%	100.0%	204,184	0.0%		
FY06	4,247,798	162,465	36,013	198,479	-2.8%	102.3%	98.9%	201,849	-1.1%		
FY07	4,247,798	167,295	36,142	203,437	-0.4%	100.8%	99.5%	204,632	0.2%		
FY08	4,247,798	173,573	37,301	210,874	3.3%	96.8%	99.1%	205,017	0.4%		
FY09	4,099,238	177,474	37,891	215,365	5.5%	95.9%	99.9%	208,004	1.9%		
FY10	4,198,234	161,722	35,845	197,567	-3.2%	100.2%	100.4%	197,970	-3.0%		
FY11	4,198,234	168,916	37,803	206,720	1.2%	96.9%	98.9%	201,113	-1.5%		
FY12	4,088,791	155,669	39,096	194,765	-4.6%	107.8%	98.7%	206,446	1.1%		
FY13	4,145,773	163,386	37,009	200,396	-1.9%	97.6%	99.7%	196,302	-3.9%		
FY14	4,145,773	166,387	36,777	203,164	-0.5%	91.5%	99.2%	188,737	-7.6%		
FY15	4,159,400	159,109	36,732	195,841	-4.1%	96.0%	100.5%	189,666	-7.1%		
FY16	4,159,400	155,603	37,360	192,962	-5.5%	103.2%	99.4%	197,743	-3.2%		



### Fiscal Year 2016 State Facilities Energy Report - DHS\_Mendota

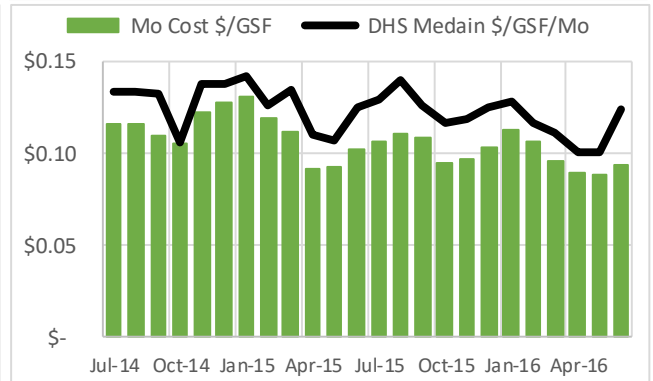
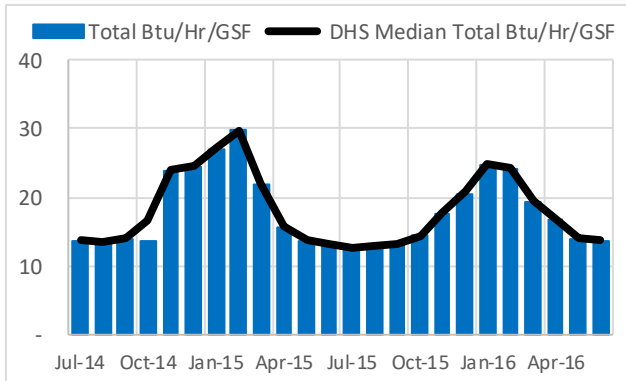
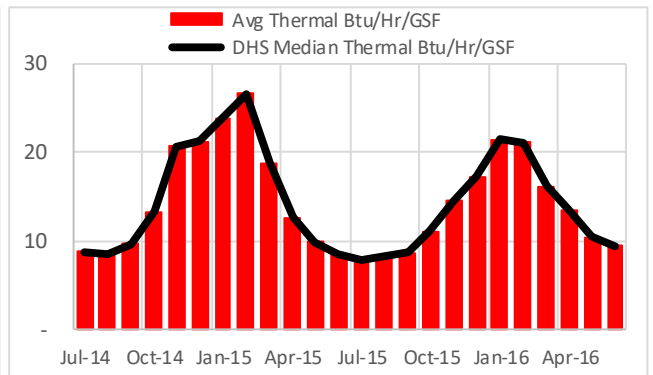
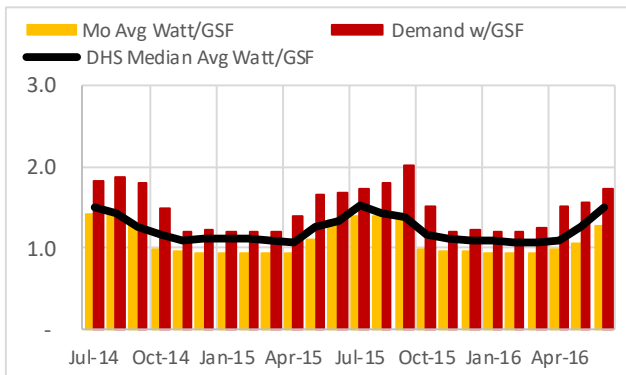
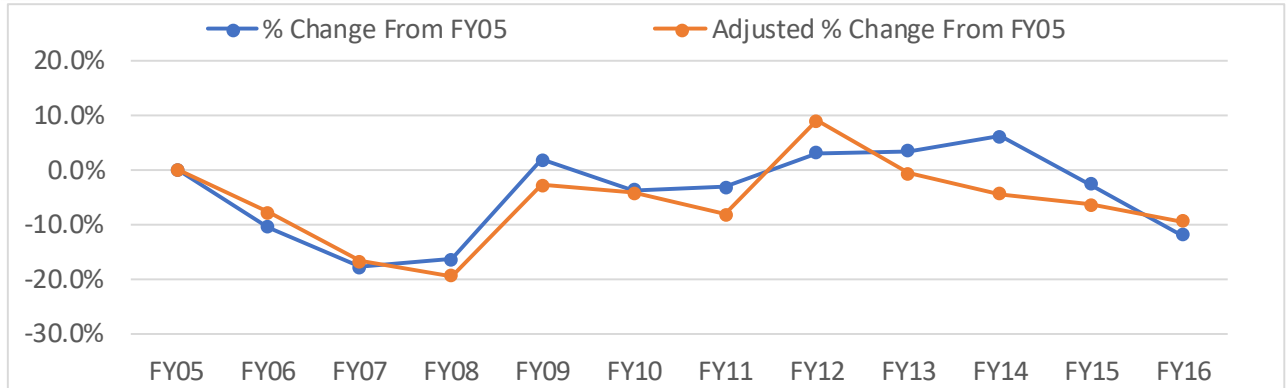
Electric kwh/GSF = 10.98		Therm/GSF = 2.45		Total Btu/GSF = 282,062					
Electric \$/GSF = \$ 1.00		Thermal \$/GSF = \$ 0.85		Energy \$/GSF = \$ 1.86					
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05	Weather Thermal Adjusted to FY05	Weather Electric Adjusted to FY05	Total Weather Adjusted Btu/GSF	Adjusted % Change From FY05
FY05	1,313,997	237,977	35,861	273,839	0.0%	100.0%	100.0%	273,839	0.0%
FY06	1,313,997	236,207	38,330	274,537	0.3%	99.7%	99.2%	273,450	-0.1%
FY07	1,313,997	242,071	37,144	279,215	2.0%	98.8%	99.8%	276,326	0.9%
FY08	1,313,997	255,709	37,895	293,604	7.2%	96.3%	99.4%	283,806	3.6%
FY09	1,313,997	248,507	36,513	285,020	4.1%	96.5%	100.1%	276,359	0.9%
FY10	1,313,997	231,683	32,812	264,495	-3.4%	99.1%	100.6%	262,632	-4.1%
FY11	1,313,997	240,209	37,268	277,477	1.3%	96.8%	99.1%	269,493	-1.6%
FY12	1,313,997	225,823	37,359	263,182	-3.9%	102.8%	98.6%	269,075	-1.7%
FY13	1,313,997	230,260	35,982	266,242	-2.8%	97.2%	100.2%	259,882	-5.1%
FY14	1,313,997	234,125	36,625	270,750	-1.1%	93.4%	99.0%	255,029	-6.9%
FY15	1,320,211	231,774	36,852	268,627	-1.9%	96.9%	100.1%	261,471	-4.5%
FY16	1,320,211	244,583	37,478	282,062	3.0%	100.8%	99.7%	283,955	3.7%





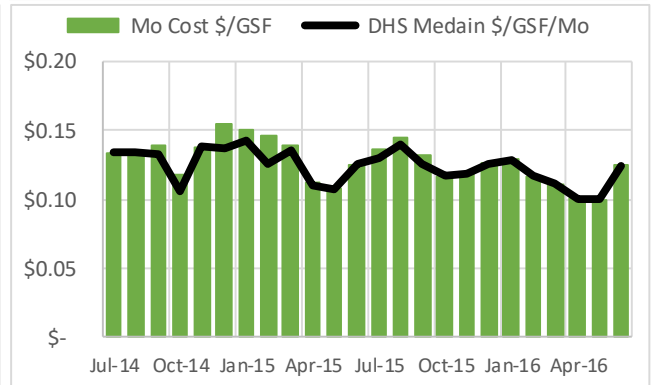
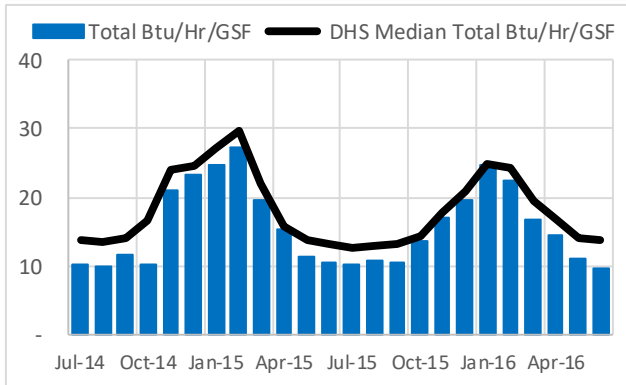
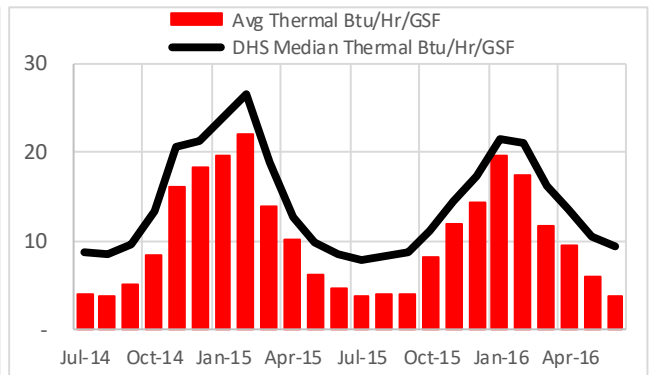
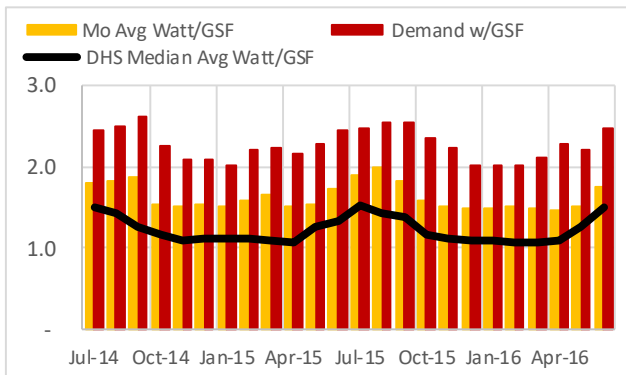
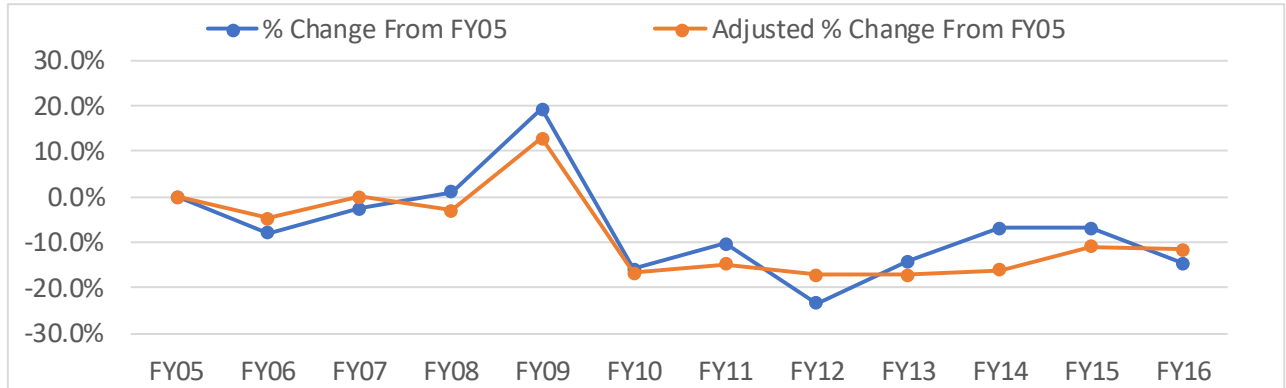
### Fiscal Year 2016 State Facilities Energy Report - DHS\_Northern Center

Electric kwh/GSF = 9.63		Therm/GSF = 1.17		Total Btu/GSF = 149,478					
Electric \$/GSF = \$ 0.75		Thermal \$/GSF = \$ 0.46		Energy \$/GSF = \$ 1.20					
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05	Weather Thermal Adjusted to FY05	Weather Electric Adjusted to FY05	Total Weather Adjusted Btu/GSF	Adjusted % Change From FY05
FY05	792,392	140,342	29,596	169,938	0.0%	100.0%	100.0%	169,938	0.0%
FY06	792,392	125,767	26,128	151,895	-10.6%	104.1%	98.1%	156,566	-7.9%
FY07	792,392	116,598	23,016	139,614	-17.8%	101.6%	98.9%	141,220	-16.9%
FY08	792,392	118,343	23,497	141,840	-16.5%	95.7%	99.2%	136,619	-19.6%
FY09	632,669	145,198	27,642	172,840	1.7%	94.5%	100.3%	164,934	-2.9%
FY10	632,669	135,595	27,797	163,393	-3.9%	99.3%	100.5%	162,530	-4.4%
FY11	632,669	137,811	26,675	164,486	-3.2%	93.9%	99.4%	155,916	-8.3%
FY12	523,226	141,377	33,800	175,176	3.1%	107.2%	99.1%	185,031	8.9%
FY13	523,226	142,405	33,212	175,617	3.3%	94.9%	100.5%	168,582	-0.8%
FY14	523,226	147,899	32,472	180,371	6.1%	87.5%	101.3%	162,295	-4.5%
FY15	523,226	132,461	32,892	165,353	-2.7%	95.0%	100.4%	158,923	-6.5%
FY16	523,226	116,617	32,861	149,478	-12.0%	103.9%	99.5%	153,828	-9.5%



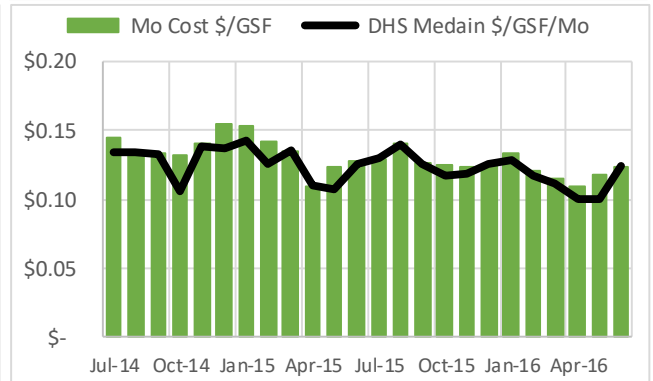
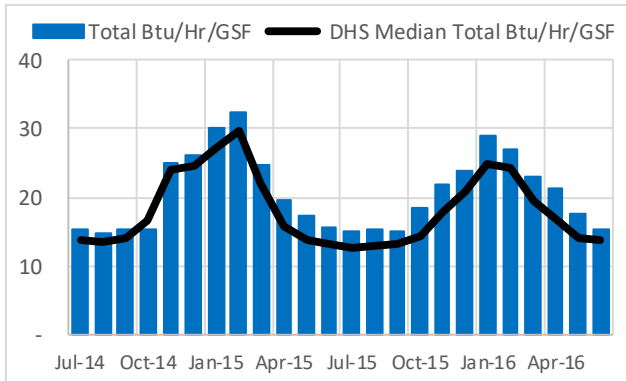
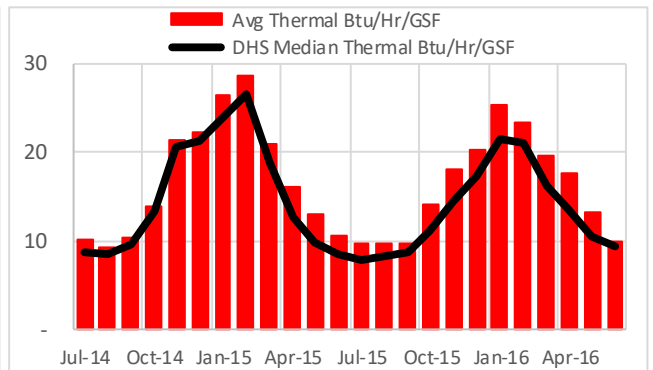
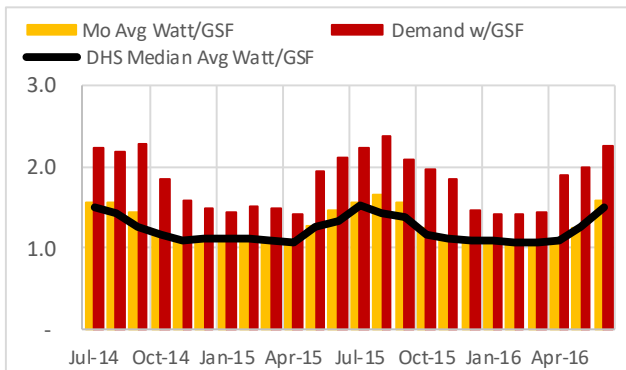
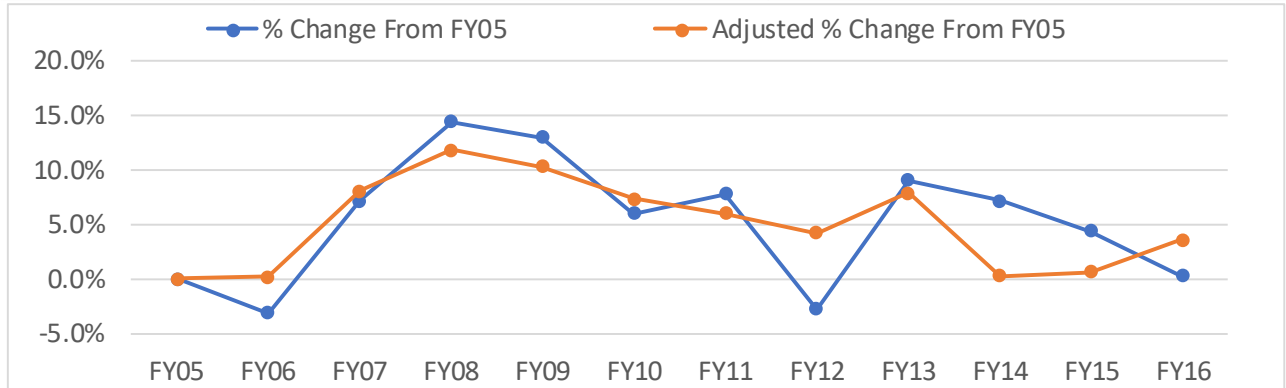
### Fiscal Year 2016 State Facilities Energy Report - DHS\_Sand Ridge

Electric kwh/GSF = 14.31		Therm/GSF = 0.84		Total Btu/GSF = 132,365					
Electric \$/GSF = \$ 1.14		Thermal \$/GSF = \$ 0.31		Energy \$/GSF = \$ 1.45					
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05	Weather Thermal Adjusted to FY05	Weather Electric Adjusted to FY05	Total Weather Adjusted Btu/GSF	Adjusted % Change From FY05
FY05	198,669	102,791	52,262	155,053	0.0%	100.0%	100.0%	155,053	0.0%
FY06	198,669	89,314	53,296	142,610	-8.0%	105.6%	100.1%	147,671	-4.8%
FY07	198,669	97,073	54,087	151,160	-2.5%	104.0%	100.0%	154,998	0.0%
FY08	198,669	101,388	55,392	156,780	1.1%	94.0%	99.2%	150,264	-3.1%
FY09	209,832	124,824	60,174	184,998	19.3%	92.2%	99.5%	174,923	12.8%
FY10	308,828	87,515	42,823	130,338	-15.9%	98.5%	100.4%	129,188	-16.7%
FY11	308,828	93,215	45,947	139,163	-10.2%	92.7%	99.3%	132,018	-14.9%
FY12	308,828	71,292	47,554	118,846	-23.4%	112.9%	100.8%	128,396	-17.2%
FY13	308,828	87,051	45,928	132,979	-14.2%	95.1%	99.6%	128,488	-17.1%
FY14	308,828	96,944	47,473	144,417	-6.9%	86.1%	97.8%	129,890	-16.2%
FY15	308,828	95,635	48,863	144,499	-6.8%	93.0%	100.5%	138,027	-11.0%
FY16	308,828	83,536	48,828	132,365	-14.6%	105.5%	100.1%	137,014	-11.6%



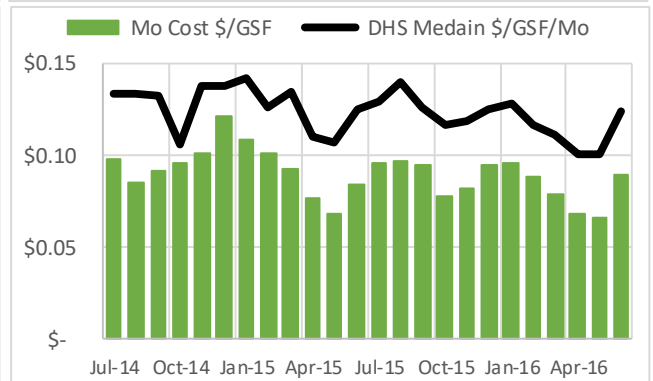
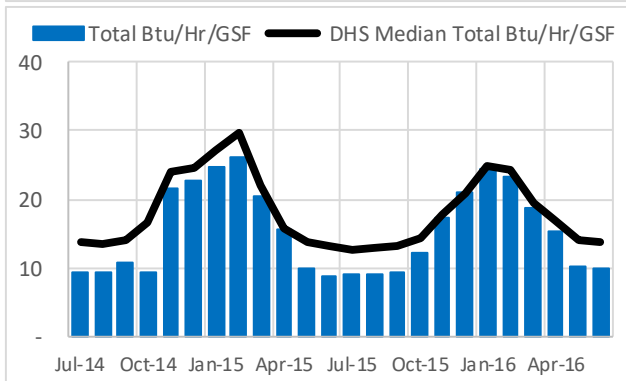
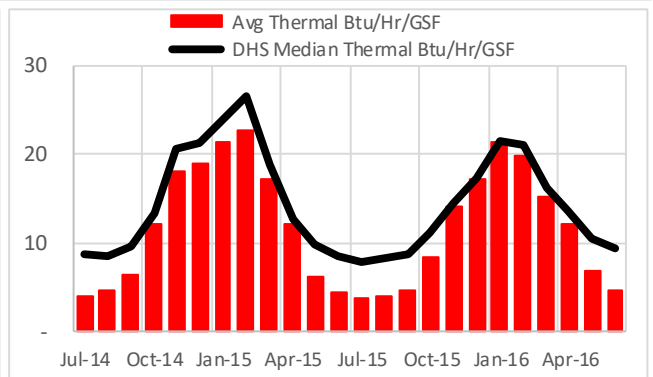
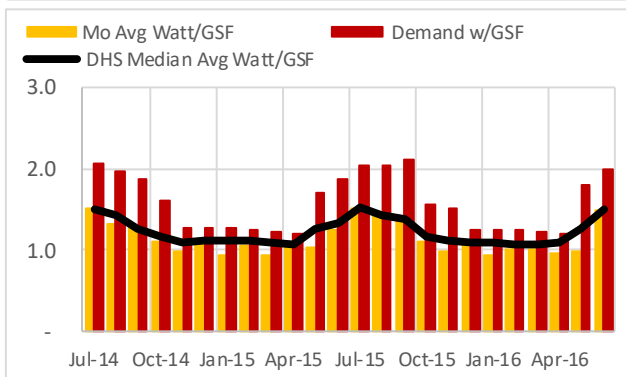
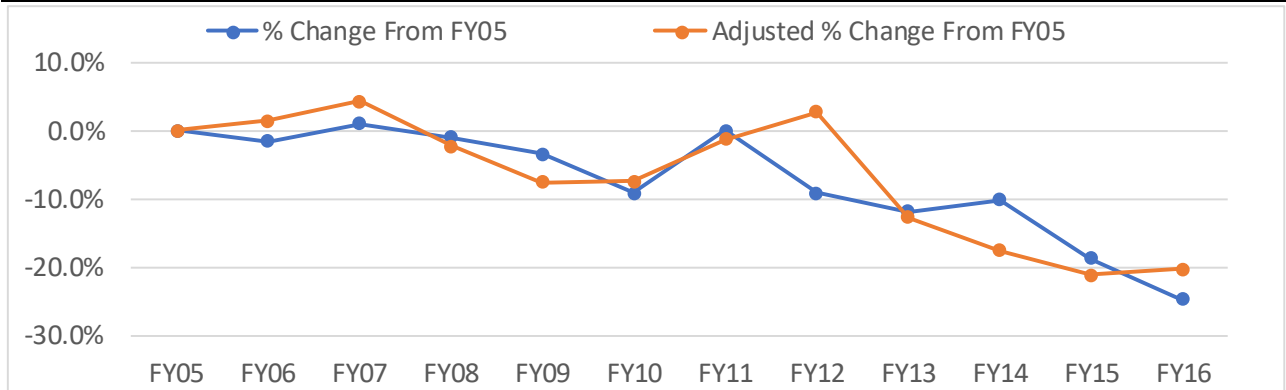
### Fiscal Year 2016 State Facilities Energy Report - DHS\_Southern Center

Electric kwh/GSF = 11.29		Therm/GSF = 1.39		Total Btu/GSF = 177,771					
Electric \$/GSF = \$ 1.01		Thermal \$/GSF = \$ 0.47		Energy \$/GSF = \$ 1.49					
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05	Weather Thermal Adjusted to FY05	Weather Electric Adjusted to FY05	Total Weather Adjusted Btu/GSF	Adjusted % Change From FY05
FY05	1,023,235	142,723	34,662	177,385	0.0%	100.0%	100.0%	177,385	0.0%
FY06	1,023,235	135,306	36,395	171,701	-3.2%	104.9%	98.4%	177,712	0.2%
FY07	1,023,235	149,554	40,525	190,080	7.2%	101.3%	99.1%	191,624	8.0%
FY08	1,023,235	159,251	43,608	202,859	14.4%	97.5%	98.6%	198,361	11.8%
FY09	1,023,235	158,024	42,358	200,382	13.0%	97.1%	99.3%	195,565	10.2%
FY10	1,023,235	146,831	41,183	188,014	6.0%	101.7%	99.7%	190,332	7.3%
FY11	1,023,235	149,154	42,047	191,202	7.8%	98.4%	97.9%	187,924	5.9%
FY12	1,023,235	132,494	39,930	172,424	-2.8%	110.0%	97.7%	184,808	4.2%
FY13	1,023,235	154,828	38,549	193,377	9.0%	98.9%	99.0%	191,323	7.9%
FY14	1,023,235	152,116	37,854	189,969	7.1%	92.1%	99.6%	177,781	0.2%
FY15	1,023,235	147,440	37,606	185,046	4.3%	95.2%	101.1%	178,379	0.6%
FY16	1,023,235	139,236	38,534	177,771	0.2%	104.6%	98.8%	183,667	3.5%



### Fiscal Year 2016 State Facilities Energy Report - DHS\_Winnebago

Electric kwh/GSF = 10.19		Therm/GSF = 0.97		Total Btu/GSF = 131,351					
Electric \$/GSF = \$ 0.71		Thermal \$/GSF = \$ 0.32		Energy \$/GSF = \$ 1.03					
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05	Weather Thermal Adjusted to FY05	Weather Electric Adjusted to FY05	Total Weather Adjusted Btu/GSF	Adjusted % Change From FY05
FY05	919,505	139,664	34,932	174,596	0.0%	100.0%	100.0%	174,596	0.0%
FY06	919,505	134,739	37,064	171,803	-1.6%	104.1%	99.3%	177,117	1.4%
FY07	919,505	139,043	37,265	176,308	1.0%	104.2%	99.8%	182,025	4.3%
FY08	919,505	135,325	37,423	172,748	-1.1%	98.6%	99.3%	170,603	-2.3%
FY09	919,505	131,834	36,855	168,689	-3.4%	94.4%	100.2%	161,348	-7.6%
FY10	919,505	121,216	37,434	158,650	-9.1%	102.1%	101.0%	161,552	-7.5%
FY11	919,505	135,856	38,766	174,622	0.0%	98.5%	99.5%	172,379	-1.3%
FY12	919,505	117,679	40,821	158,500	-9.2%	118.2%	98.9%	179,424	2.8%
FY13	976,487	117,750	35,992	153,742	-11.9%	98.9%	99.6%	152,261	-12.8%
FY14	976,487	122,059	34,777	156,837	-10.2%	89.8%	98.4%	143,790	-17.6%
FY15	983,900	107,836	33,896	141,732	-18.8%	96.0%	100.4%	137,613	-21.2%
FY16	983,900	96,580	34,771	131,351	-24.8%	108.3%	99.4%	139,116	-20.3%



# Agency Energy Use Summary

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## Department of Public Instruction



### SCOPE

Includes the Wisconsin School for the Deaf (Delavan) and the Wisconsin School for the Blind and Visually Impaired (Janesville).

### ENERGY CONSUMPTION

**Total Change from Base - Weather Adjusted: 0.1 percent increase.**

Energy use (BTU/GSF/Yr) for FY16 was 0.1 percent higher than in the base fiscal year, FY05.

**Latest Year Change - Weather Adjusted: 0.7 percent increase.**

Energy use (BTU/GSF/Yr) for FY16 increased 0.7 percent from the previous fiscal year.

***Average Annual Change - Weather Adjusted: 0 percent increase per year.***

On average, energy use (BTU/GSF/Yr) has increased 0 percent since the base year, FY05.

### GSF AND CONSUMPTION STATISTICS

***GSF Change from Base: 0 percent.***

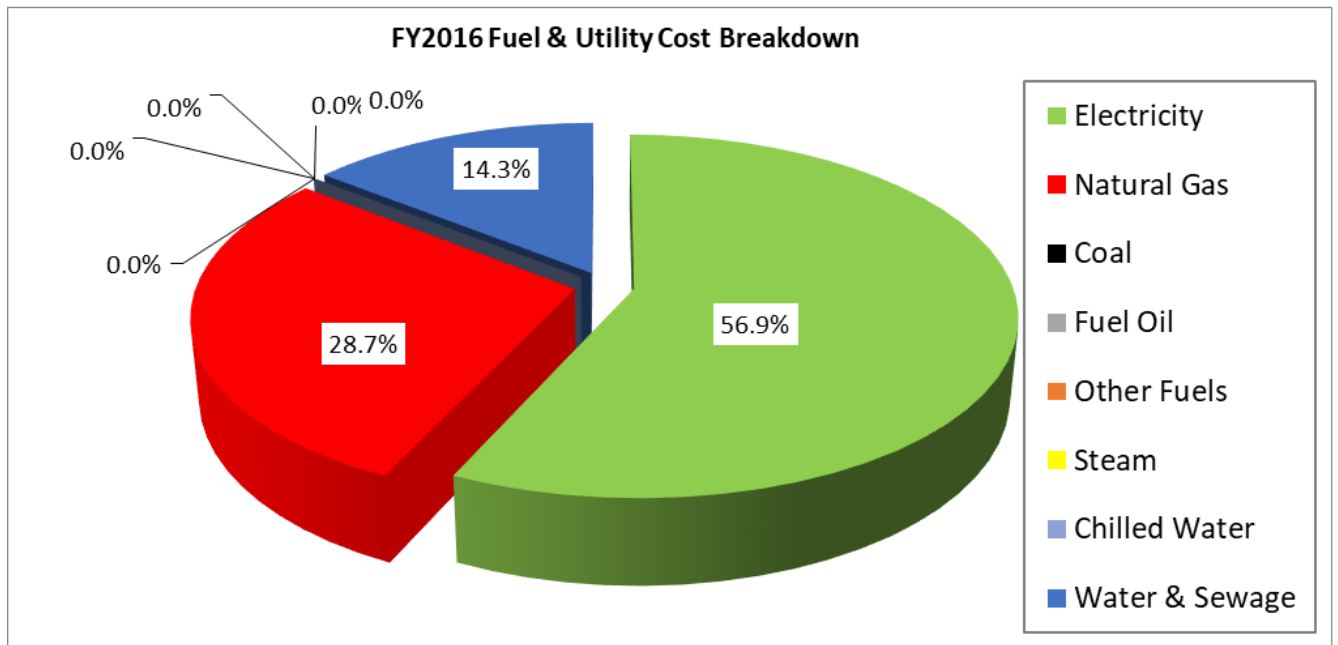
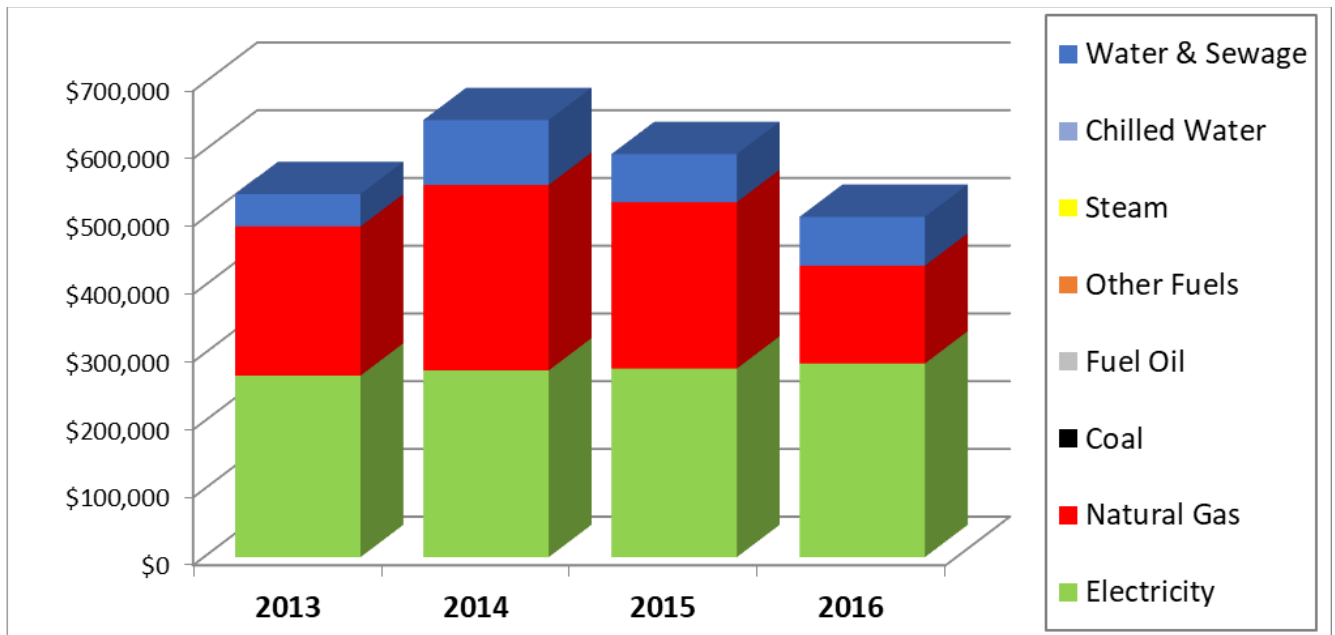
Gross square footage has not changed from the base fiscal year, FY05.

***Consumption Change from Base: 4.9 percent decrease.***

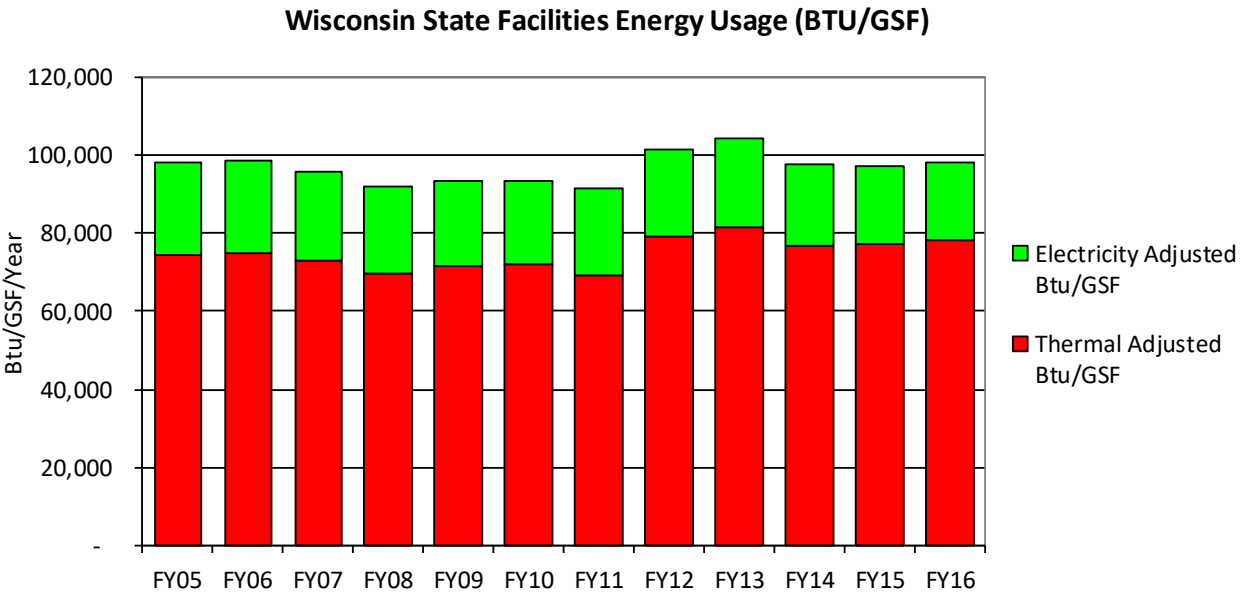
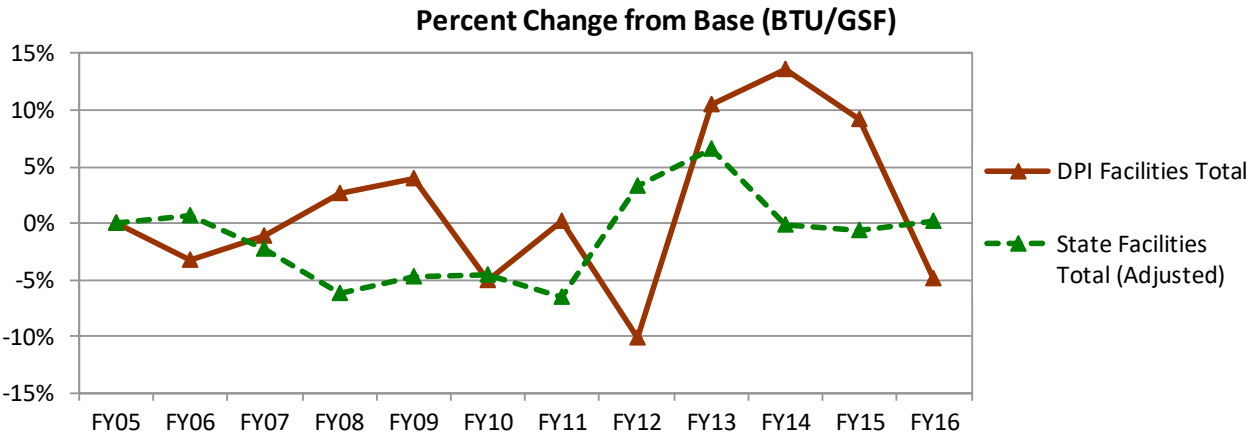
Total consumption was 4.9 percent less when compared to FY05. Total energy (million BTU) purchases in FY16 were 0.1 percent greater than in the base year when adjusted for weather compared to FY05.

### Department of Public Instruction Fuel & Utilities Expenditures

Subcategory Name	Fiscal Year 2013	Fiscal Year 2014	Fiscal Year 2015	Fiscal Year 2016
Electricity	\$ 268,046	\$ 275,624	\$ 278,419	\$ 285,921
Natural Gas	\$ 220,188	\$ 273,815	\$ 245,618	\$ 144,355
Coal	\$ -	\$ -	\$ -	\$ -
Fuel Oil	\$ -	\$ -	\$ -	\$ -
Other Fuels	\$ -	\$ -	\$ -	\$ -
Steam	\$ -	\$ -	\$ -	\$ -
Chilled Water	\$ -	\$ -	\$ -	\$ -
Water & Sewage	\$ 47,749	\$ 95,723	\$ 70,908	\$ 72,033
<b>Total:</b>	<b>\$ 535,984</b>	<b>\$ 645,163</b>	<b>\$ 594,944</b>	<b>\$ 502,309</b>

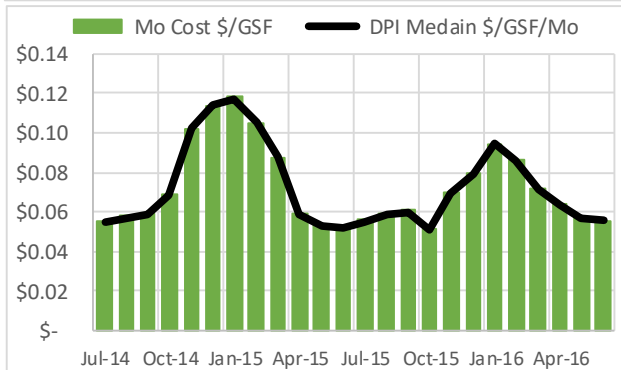
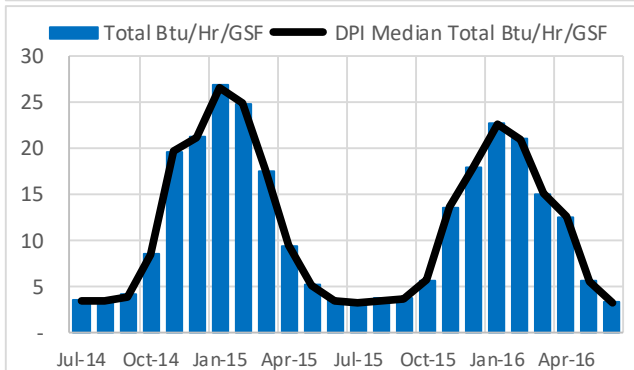
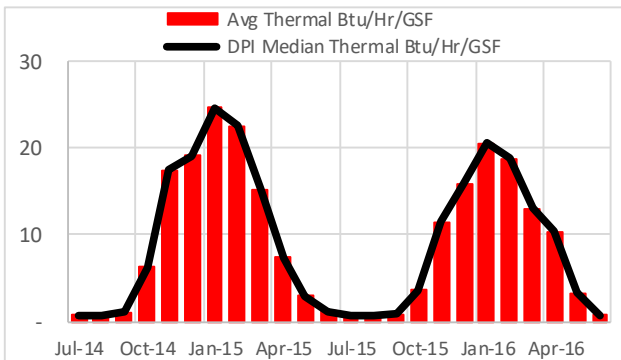
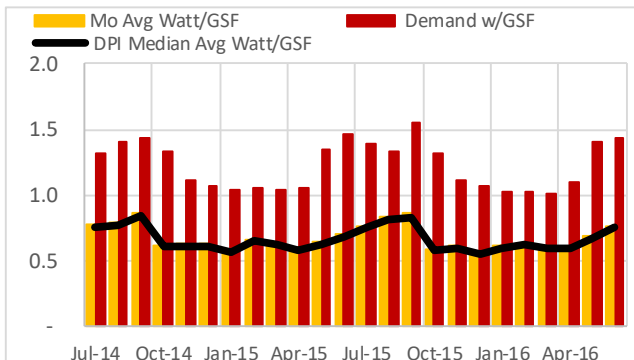
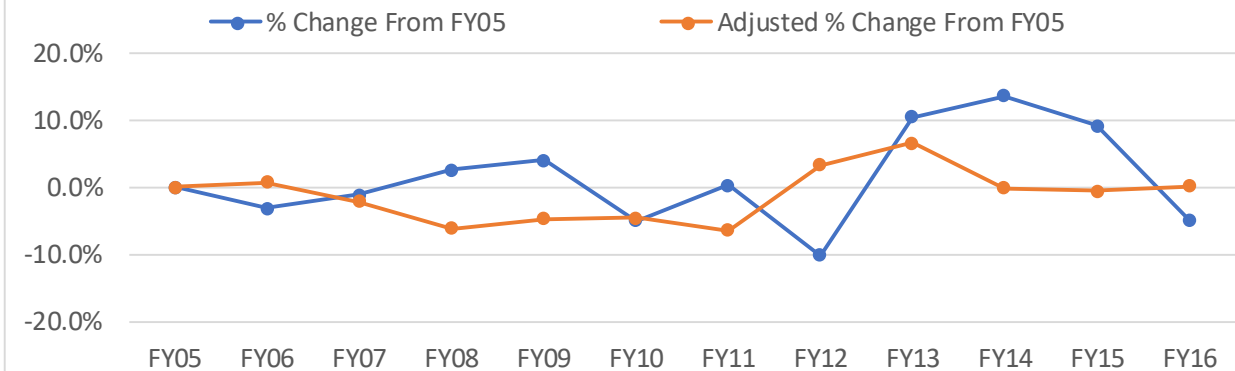


Wisconsin State Facilities DPI Facilities Total									
Fiscal Year	GSF	BTU/GSF				Weather-Adjusted			
		Thermal	Electricity	Total	% Change From FY05	Thermal Adjusted to FY05	Electric Adjusted to FY05	Total Adjusted Btu/GSF	Adjusted % Change From FY05
FY05	441,183	74,517	23,484	98,001	0.0%	100.0%	100.0%	98,001	0.0%
FY06	441,183	70,542	24,293	94,835	-3.2%	106.0%	98.6%	98,692	0.7%
FY07	441,183	73,983	22,893	96,876	-1.1%	98.9%	99.2%	95,866	-2.2%
FY08	441,183	78,081	22,496	100,578	2.6%	89.5%	98.1%	91,967	-6.2%
FY09	441,183	80,109	21,788	101,897	4.0%	89.6%	99.1%	93,377	-4.7%
FY10	441,183	71,838	21,292	93,130	-5.0%	100.5%	100.0%	93,490	-4.6%
FY11	441,183	75,226	22,980	98,206	0.2%	91.8%	98.1%	91,607	-6.5%
FY12	441,183	65,293	22,746	88,039	-10.2%	120.9%	98.2%	101,275	3.3%
FY13	441,183	85,243	23,015	108,258	10.5%	95.8%	99.1%	104,499	6.6%
FY14	441,183	89,901	21,379	111,281	13.6%	85.2%	99.7%	97,898	-0.1%
FY15	441,183	86,814	20,152	106,966	9.1%	89.0%	100.0%	97,415	-0.6%
FY16	441,183	72,932	20,276	93,209	-4.9%	107.0%	99.1%	98,117	0.1%



### Fiscal Year 2016 DPI Facilities Energy Report - DPI Total

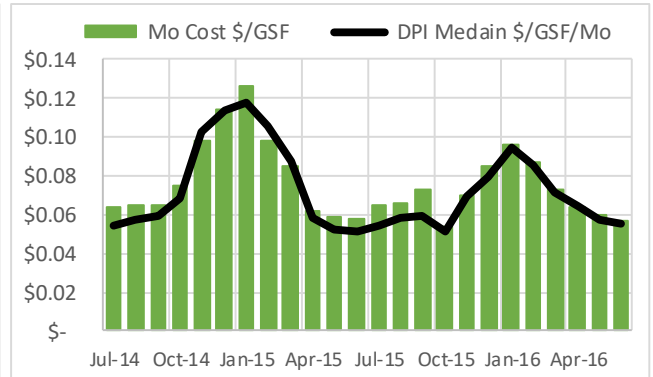
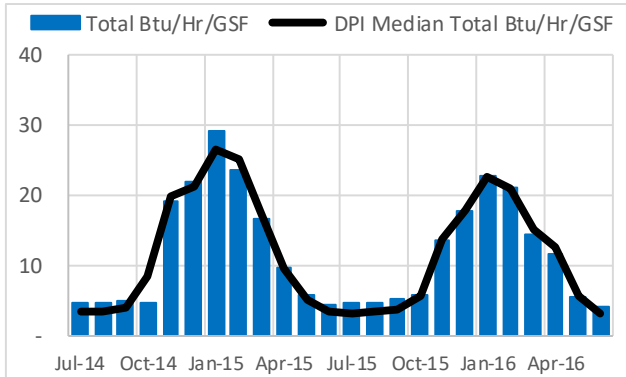
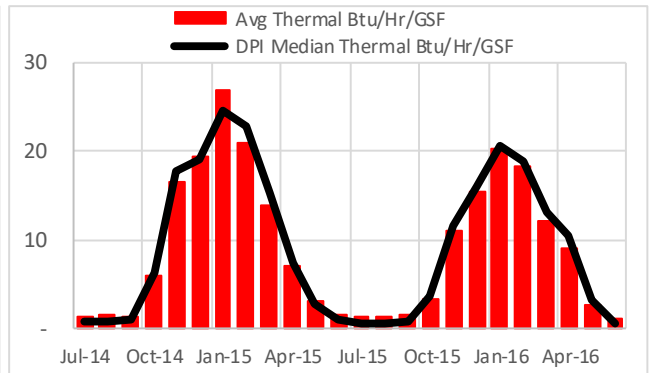
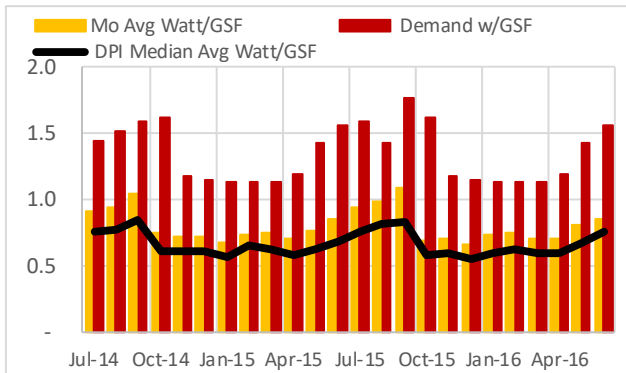
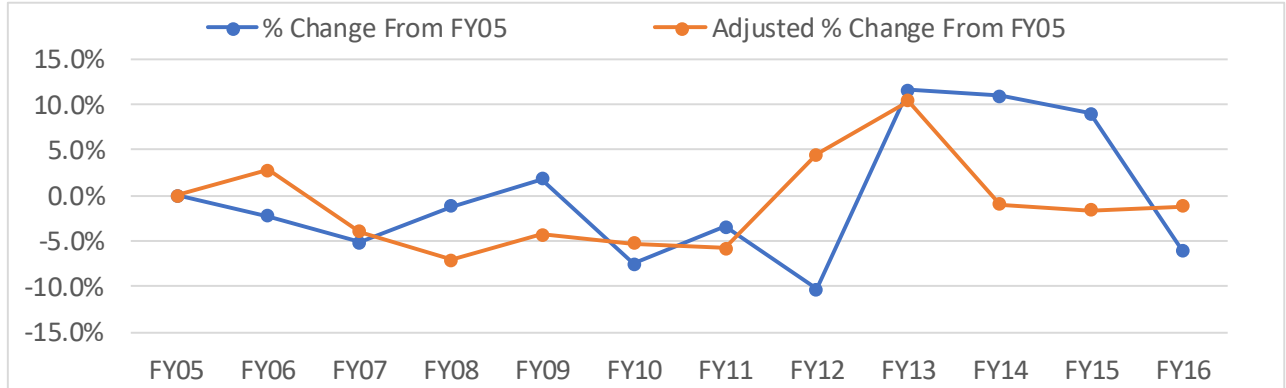
Electric kwh/GSF =		5.94		Therm/GSF =		0.73		Total Btu/GSF =		93,209	
Electric \$/GSF =		\$ 0.55		Thermal \$/GSF =		\$ 0.26		Energy \$/GSF =		\$ 0.81	
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05	Weather Adjusted Thermal to FY05	Weather Adjusted Electric to FY05	Total Weather Adjusted Btu/GSF	Adjusted % Change From FY05		
FY05	441,183	74,517	23,484	98,001	0.0%	100.0%	100.0%	98,001	0.0%		
FY06	441,183	70,542	24,293	94,835	-3.2%	106.0%	98.6%	98,692	0.7%		
FY07	441,183	73,983	22,893	96,876	-1.1%	98.9%	99.2%	95,866	-2.2%		
FY08	441,183	78,081	22,496	100,578	2.6%	89.5%	98.1%	91,967	-6.2%		
FY09	441,183	80,109	21,788	101,897	4.0%	89.6%	99.1%	93,377	-4.7%		
FY10	441,183	71,838	21,292	93,130	-5.0%	100.5%	100.0%	93,490	-4.6%		
FY11	441,183	75,226	22,980	98,206	0.2%	91.8%	98.1%	91,607	-6.5%		
FY12	441,183	65,293	22,746	88,039	-10.2%	120.9%	98.2%	101,275	3.3%		
FY13	441,183	85,243	23,015	108,258	10.5%	95.8%	99.1%	104,499	6.6%		
FY14	441,183	89,901	21,379	111,281	13.6%	85.2%	99.7%	97,898	-0.1%		
FY15	441,183	86,814	20,152	106,966	9.1%	89.0%	100.0%	97,415	-0.6%		
FY16	441,183	72,932	20,276	93,209	-4.9%	107.0%	99.1%	98,117	0.1%		





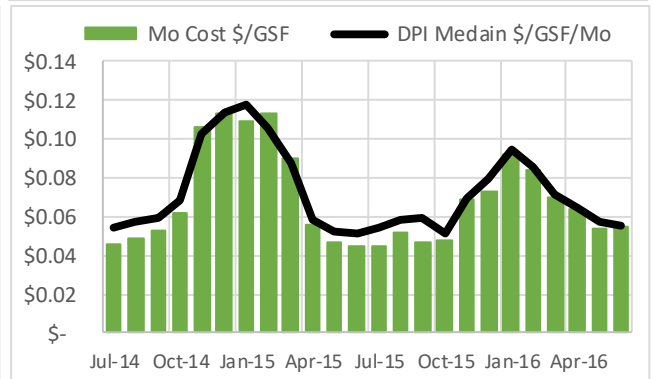
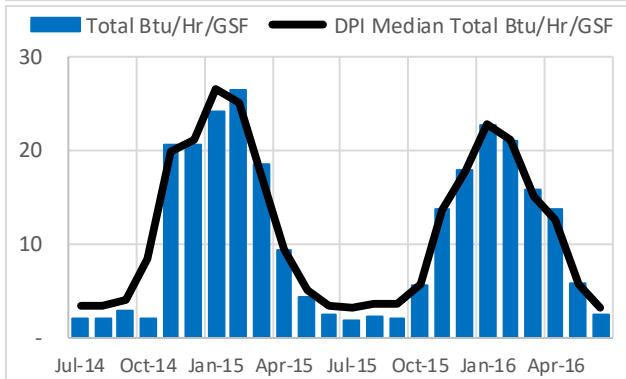
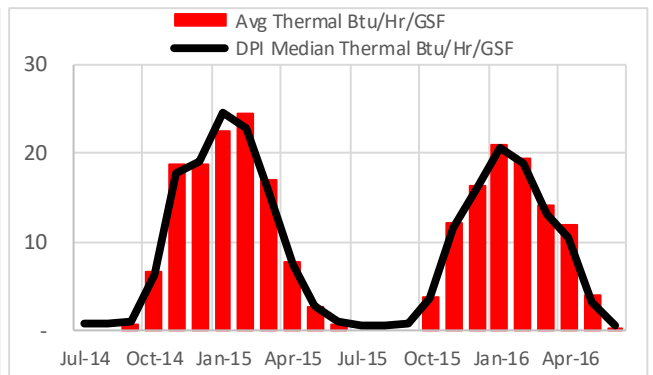
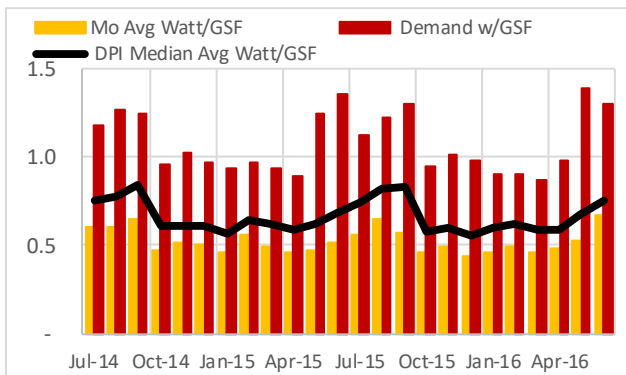
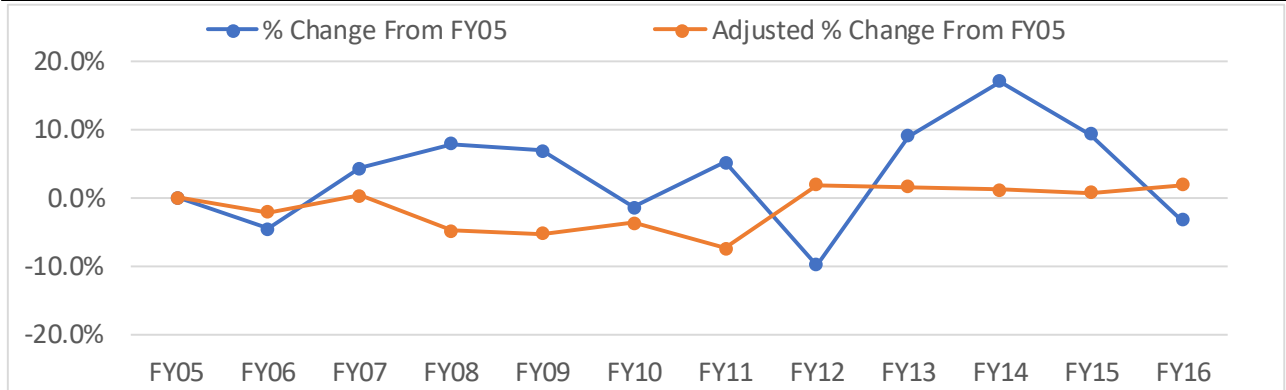
### Fiscal Year 2016 State Facilities Energy Report - DPI\_Delavan

Electric kwh/GSF = 7.02		Therm/GSF = 0.71		Total Btu/GSF = 95,343					
Electric \$/GSF = \$ 0.59		Thermal \$/GSF = \$ 0.26		Energy \$/GSF = \$ 0.85					
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05	Weather Thermal Adjusted to FY05	Weather Electric Adjusted to FY05	Total Weather Adjusted Btu/GSF	Adjusted % Change From FY05
FY05	244,979	74,564	26,898	101,462	0.0%	100.0%	100.0%	101,462	0.0%
FY06	244,979	70,361	28,819	99,180	-2.2%	108.1%	98.1%	104,315	2.8%
FY07	244,979	69,028	27,244	96,272	-5.1%	102.0%	99.2%	97,443	-4.0%
FY08	244,979	73,870	26,336	100,207	-1.2%	92.6%	98.4%	94,290	-7.1%
FY09	244,979	77,043	26,286	103,329	1.8%	92.2%	99.2%	97,142	-4.3%
FY10	244,979	68,681	25,092	93,773	-7.6%	103.5%	99.8%	96,120	-5.3%
FY11	244,979	71,129	26,863	97,992	-3.4%	96.8%	99.3%	95,534	-5.8%
FY12	244,979	63,083	27,856	90,939	-10.4%	124.9%	97.6%	105,990	4.5%
FY13	244,979	84,382	28,809	113,190	11.6%	98.9%	99.2%	112,001	10.4%
FY14	244,979	87,340	25,271	112,611	11.0%	86.0%	100.3%	100,451	-1.0%
FY15	244,979	86,930	23,698	110,628	9.0%	87.5%	100.3%	99,839	-1.6%
FY16	244,979	71,398	23,945	95,343	-6.0%	107.2%	98.9%	100,253	-1.2%



### Fiscal Year 2016 State Facilities Energy Report - DPI\_Janesville

Electric kwh/GSF =		4.60		Therm/GSF =		0.75		Total Btu/GSF =		90,544	
Electric \$/GSF =		\$ 0.49		Thermal \$/GSF =		\$ 0.26		Energy \$/GSF =		\$ 0.75	
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05	Weather Thermal Adjusted to FY05	Weather Electric Adjusted to FY05	Total Weather Adjusted Btu/GSF	Adjusted % Change From FY05		
FY05	196,204	74,458	19,222	93,680	0.0%	100.0%	100.0%	93,680	0.0%		
FY06	196,204	70,768	18,642	89,410	-4.6%	103.3%	99.5%	91,670	-2.1%		
FY07	196,204	80,169	17,460	97,630	4.2%	95.5%	99.2%	93,897	0.2%		
FY08	196,204	83,339	17,702	101,041	7.9%	86.1%	97.6%	89,066	-4.9%		
FY09	196,204	83,937	16,172	100,109	6.9%	86.6%	98.9%	88,676	-5.3%		
FY10	196,204	75,780	16,547	92,327	-1.4%	97.1%	100.4%	90,206	-3.7%		
FY11	196,204	80,341	18,133	98,474	5.1%	86.3%	95.9%	86,703	-7.4%		
FY12	196,204	68,052	16,366	84,418	-9.9%	116.2%	99.5%	95,388	1.8%		
FY13	196,204	86,319	15,780	102,099	9.0%	92.1%	99.1%	95,134	1.6%		
FY14	196,204	93,100	16,520	109,620	17.0%	84.3%	98.4%	94,712	1.1%		
FY15	196,204	86,668	15,725	102,393	9.3%	90.9%	99.4%	94,389	0.8%		
FY16	196,204	74,848	15,696	90,544	-3.3%	106.7%	99.5%	95,451	1.9%		



# Agency Energy Use Summary

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## ENERGY CONSUMPTION

**Total Change from Base - Weather Adjusted: 6.1 percent decrease.**

Energy use (BTU/GSF/Yr) for FY16 was 6.1 percent lower than in the base fiscal year, FY05.

**Latest Year Change - Weather Adjusted: 7 percent increase.**

Energy use (BTU/GSF/Yr) for FY16 increased 7 percent from the previous fiscal year.

***Average Annual Change - Weather Adjusted: 0.6 percent decrease per year.***

On average, energy use (BTU/GSF/Yr) has decreased 0.6 percent since the base year, FY05.

## GSF AND CONSUMPTION STATISTICS

***GSF Change from Base: 0 percent Decrease.***

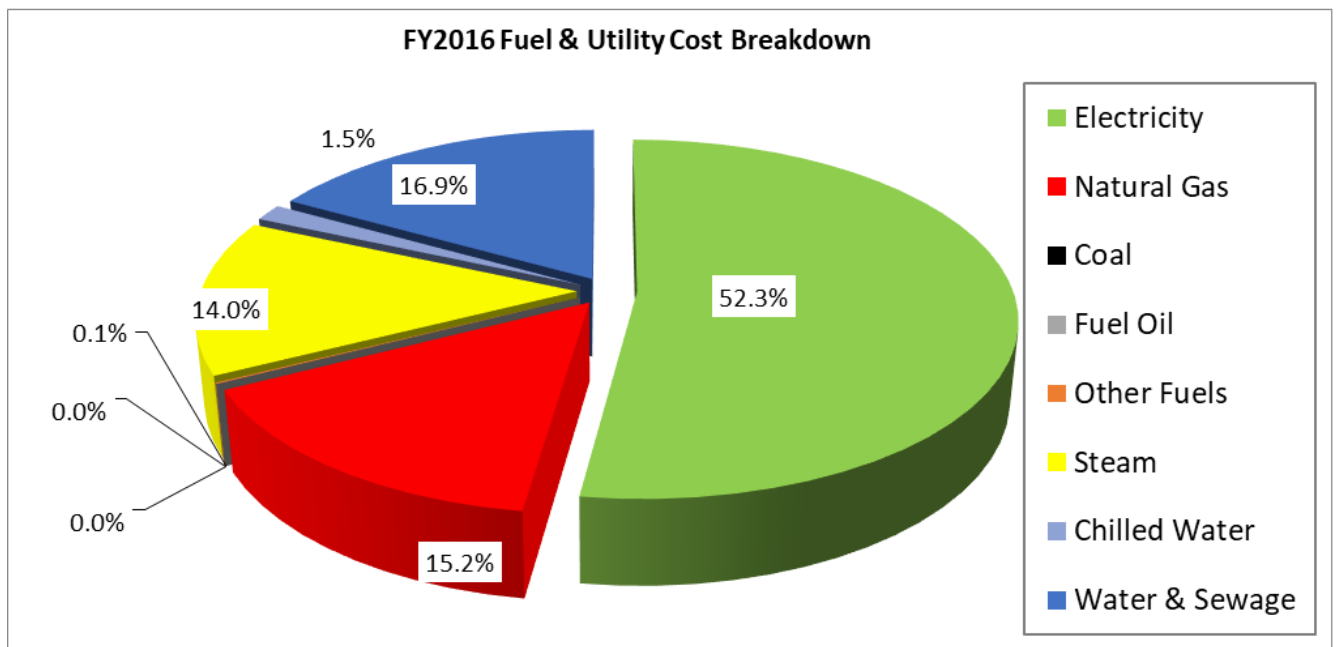
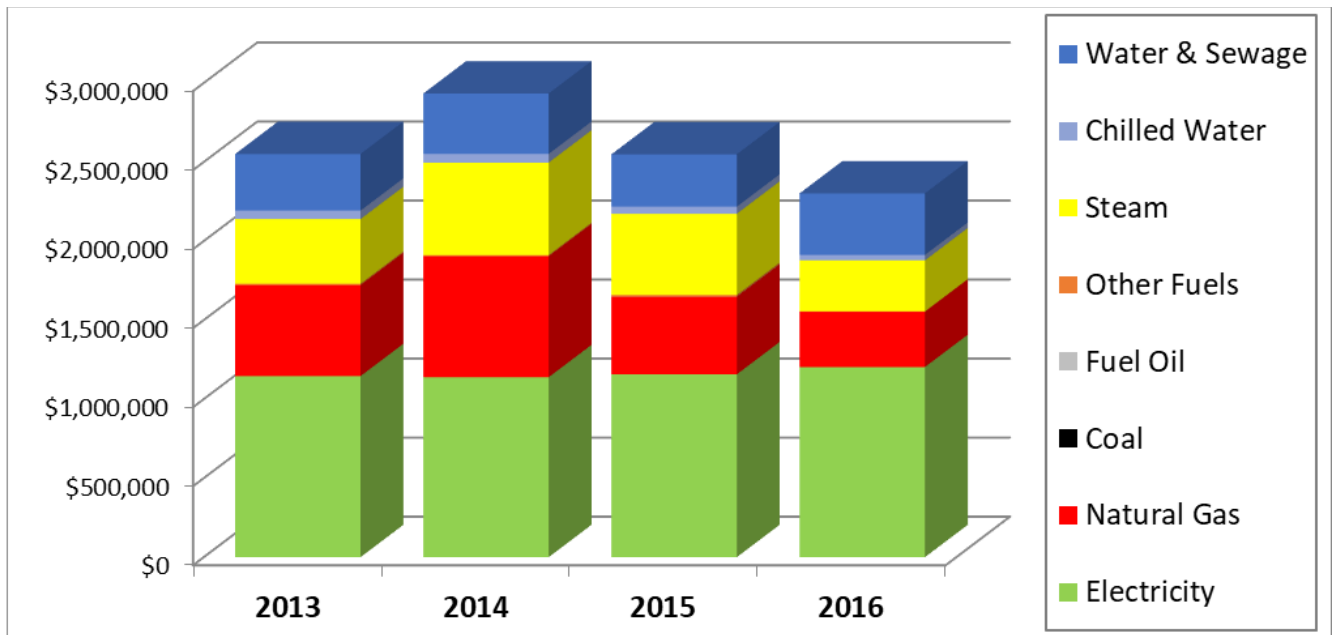
Gross square footage has not changed from the base fiscal year, FY05.

***Consumption Change from Base: 8.7 percent decrease.***

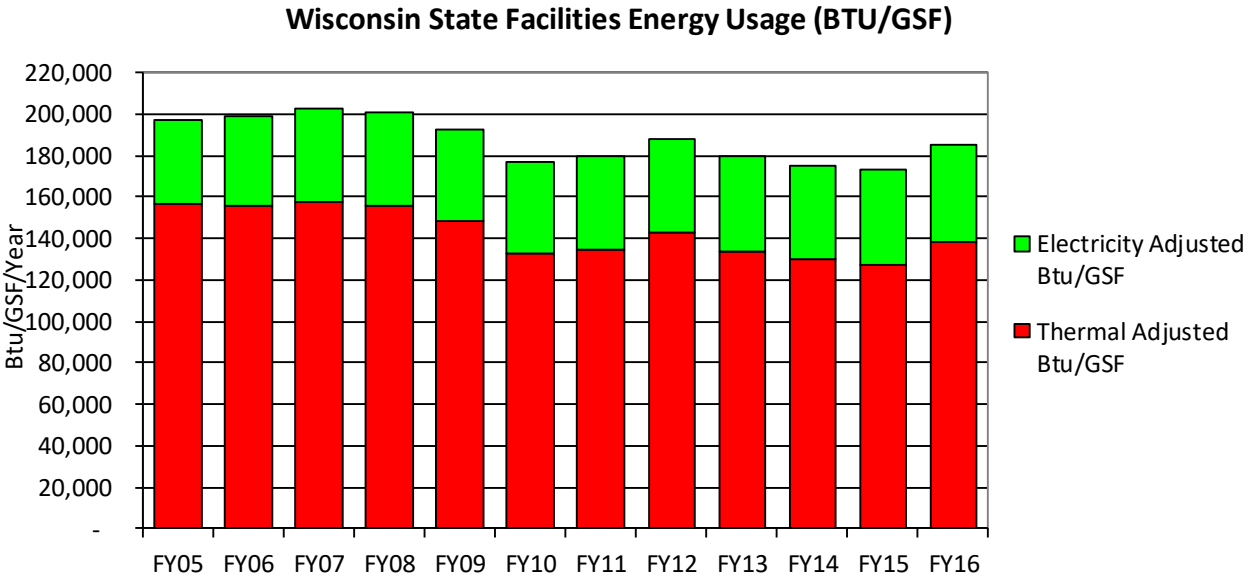
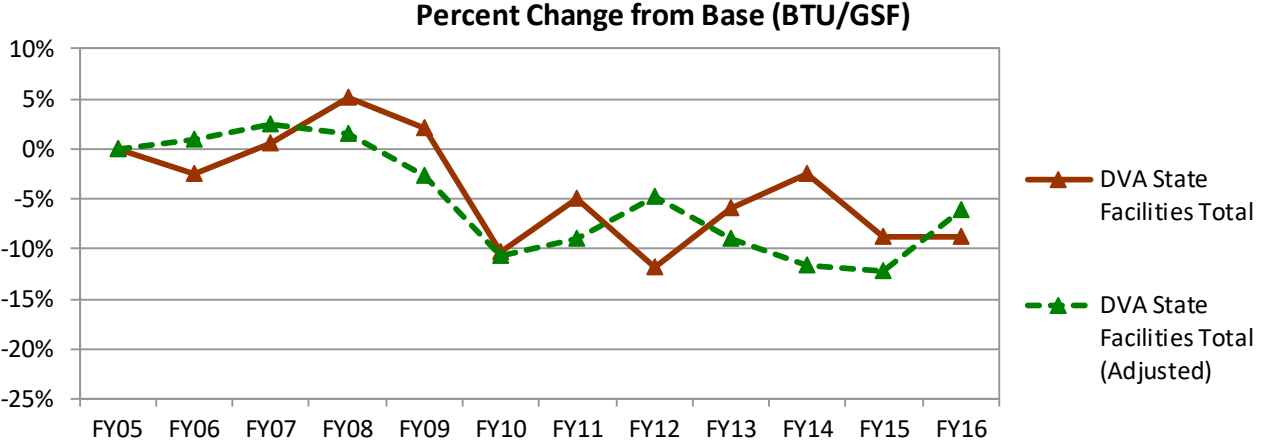
Total consumption was 8.7 percent less when compared to FY05. Total energy (million BTU) purchases in FY16 were 6.1 percent less than in the base year when adjusted for weather compared to FY05.

### Department of Veterans Affairs Fuel & Utilities Expenditures

Subcategory Name	Fiscal Year 2013	Fiscal Year 2014	Fiscal Year 2015	Fiscal Year 2016
Electricity	\$ 1,145,460	\$ 1,138,505	\$ 1,156,719	\$ 1,202,878
Natural Gas	\$ 575,567	\$ 765,264	\$ 491,279	\$ 349,752
Coal	\$ -	\$ -	\$ -	\$ -
Fuel Oil	\$ -	\$ -	\$ 1,056	\$ -
Other Fuels	\$ 8,868	\$ 7,550	\$ 9,802	\$ 2,493
Steam	\$ 408,763	\$ 584,660	\$ 513,406	\$ 322,314
Chilled Water	\$ 53,727	\$ 55,101	\$ 45,073	\$ 34,753
Water & Sewage	\$ 358,219	\$ 382,025	\$ 331,019	\$ 389,034
<b>Total:</b>	<b>\$ 2,550,604</b>	<b>\$ 2,933,105</b>	<b>\$ 2,548,355</b>	<b>\$ 2,301,225</b>

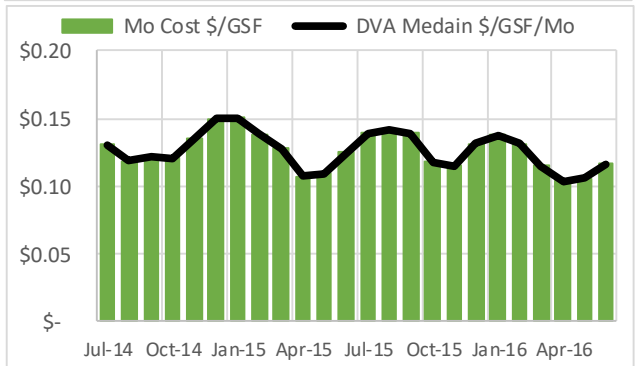
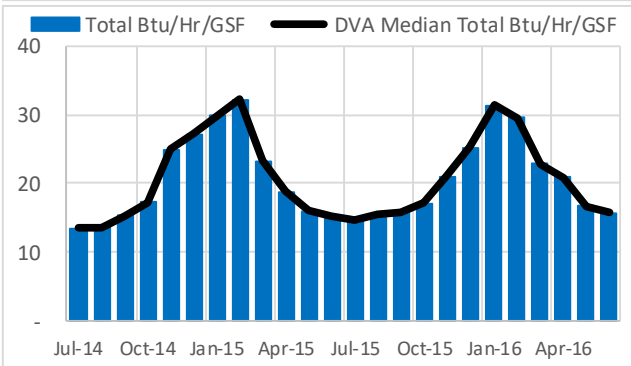
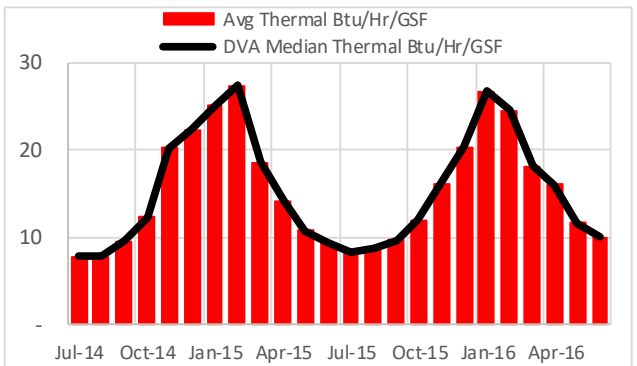
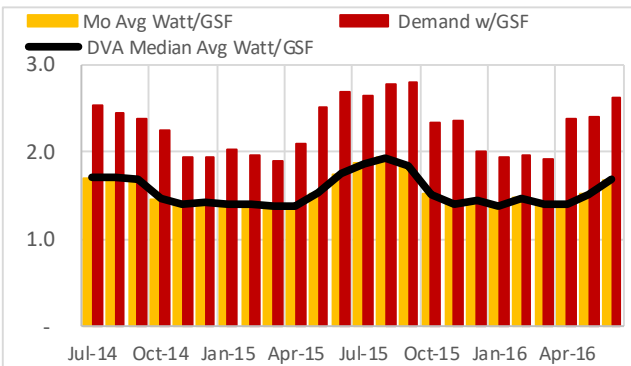
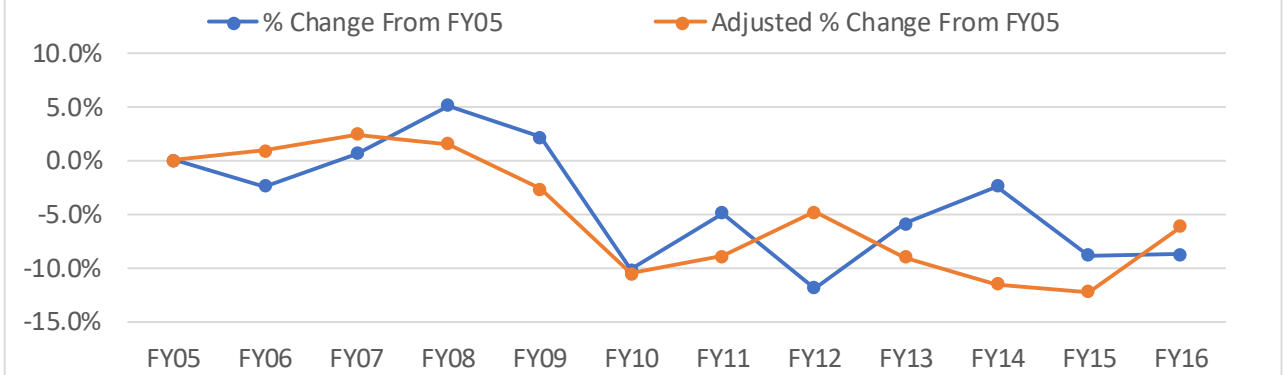


Wisconsin State Facilities - DVA									
DVA State Facilities Total									
Fiscal Year	GSF	BTU/GSF				Weather-Adjusted			
		Thermal	Electricity	Total	% Change From FY05	Thermal Adjusted to FY05	Electric Adjusted to FY05	Total Adjusted Btu/GSF	Adjusted % Change From FY05
FY05	733,728	156,662	40,749	197,411	0.0%	100.0%	100.0%	197,411	0.0%
FY06	733,728	148,953	43,635	192,588	-2.4%	104.7%	99.3%	199,228	0.9%
FY07	733,728	154,261	44,374	198,635	0.6%	102.4%	99.6%	202,142	2.4%
FY08	733,728	162,343	45,139	207,482	5.1%	95.9%	99.1%	200,381	1.5%
FY09	733,728	157,632	44,029	201,661	2.2%	94.0%	99.9%	192,177	-2.7%
FY10	733,728	133,891	43,308	177,199	-10.2%	99.3%	100.5%	176,469	-10.6%
FY11	733,728	142,187	45,433	187,620	-5.0%	94.4%	100.3%	179,779	-8.9%
FY12	733,728	128,442	45,496	173,938	-11.9%	111.2%	99.0%	187,877	-4.8%
FY13	733,728	140,005	45,722	185,726	-5.9%	95.5%	100.1%	179,551	-9.0%
FY14	733,728	147,437	45,185	192,623	-2.4%	87.9%	99.6%	174,574	-11.6%
FY15	733,728	134,553	45,441	179,994	-8.8%	94.6%	100.8%	173,116	-12.3%
FY16	733,728	133,028	47,139	180,168	-8.7%	103.8%	100.0%	185,282	-6.1%



### Fiscal Year 2016 State Facilities Energy Report - DVA Total

Electric kwh/GSF =		13.81		Therm/GSF =		1.33		Total Btu/GSF =		180,168	
Electric \$/GSF =		\$ 1.00		Thermal \$/GSF =		\$ 0.49		Energy \$/GSF =		\$ 1.49	
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05	Weather Thermal Adjusted to FY05	Weather Electric Adjusted to FY05	Total Weather Adjusted Btu/GSF	Adjusted % Change From FY05		
FY05	733,728	156,662	40,749	197,411	0.0%	100.0%	100.0%	197,411	0.0%		
FY06	733,728	148,953	43,635	192,588	-2.4%	104.7%	99.3%	199,228	0.9%		
FY07	733,728	154,261	44,374	198,635	0.6%	102.4%	99.6%	202,142	2.4%		
FY08	733,728	162,343	45,139	207,482	5.1%	95.9%	99.1%	200,381	1.5%		
FY09	733,728	157,632	44,029	201,661	2.2%	94.0%	99.9%	192,177	-2.7%		
FY10	733,728	133,891	43,308	177,199	-10.2%	99.3%	100.5%	176,469	-10.6%		
FY11	733,728	142,187	45,433	187,620	-5.0%	94.4%	100.3%	179,779	-8.9%		
FY12	733,728	128,442	45,496	173,938	-11.9%	111.2%	99.0%	187,877	-4.8%		
FY13	733,728	140,005	45,722	185,726	-5.9%	95.5%	100.1%	179,551	-9.0%		
FY14	733,728	147,437	45,185	192,623	-2.4%	87.9%	99.6%	174,574	-11.6%		
FY15	733,728	134,553	45,441	179,994	-8.8%	94.6%	100.8%	173,116	-12.3%		
FY16	733,728	133,028	47,139	180,168	-8.7%	103.8%	100.0%	185,282	-6.1%		



# Agency Energy Use Summary

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## Department of Natural Resources



### SCOPE

Includes the larger Department of Natural Resources facilities: DNR-South Central Office Madison; DNR-Darwin Road Madison; DNR-Green Bay Office (New FY2006); DNR-Tomahawk; and DNR-Southeast Office.

### ENERGY CONSUMPTION

**Total Change from Base - Weather Adjusted: 23.3 percent decrease.**

Energy use (BTU/GSF/Yr) for FY16 was 23.3 percent lower than in the base fiscal year, FY05.

**Latest Year Change - Weather Adjusted: 1.9 percent decrease.**

Energy use (BTU/GSF/Yr) for FY16 decreased 1.9 percent from the previous fiscal year.

***Average Annual Change - Weather Adjusted: 2.1 percent decrease per year.***

On average, energy use (BTU/GSF/Yr) has decreased 2.1 percent since the base year, FY05.

### GSF AND CONSUMPTION STATISTICS

***GSF Change from Base: 25.7 percent.***

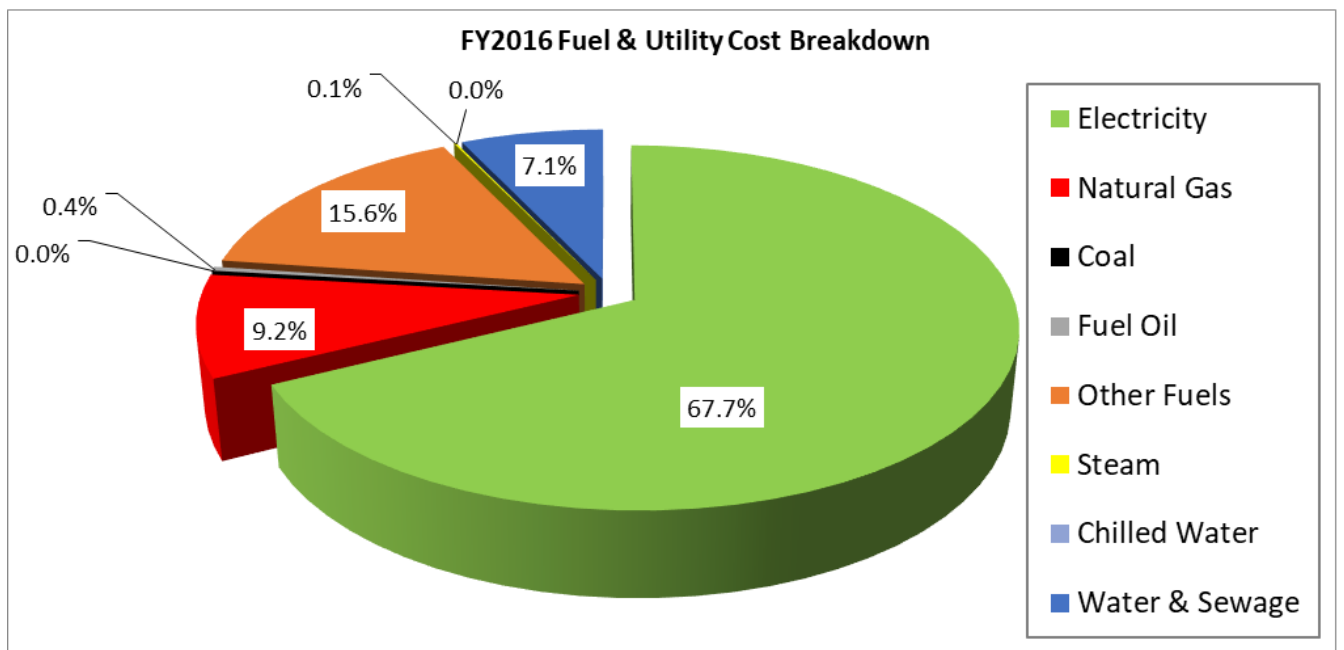
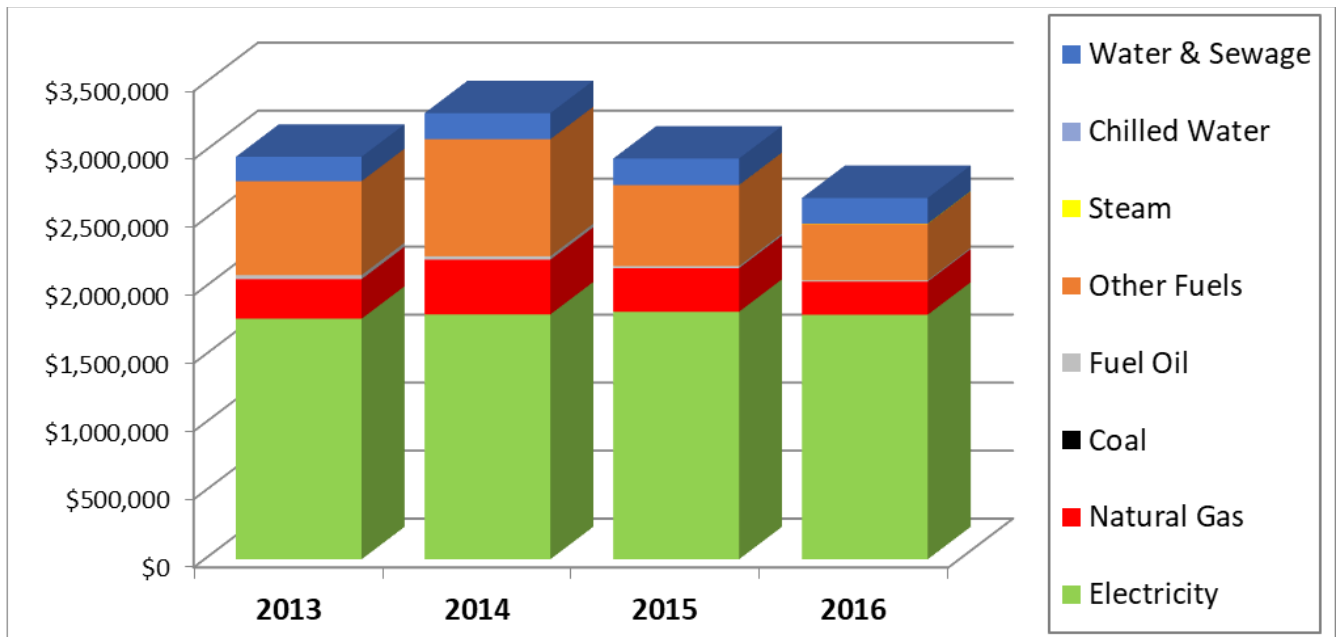
Gross square footage has increased 25.7% from the base fiscal year, FY05.

***Consumption Change from Base: 8.6 percent decrease.***

Total consumption was 8.6 percent less when compared to FY05. Total energy (million BTU) purchases in FY16 were 3.6 percent less than in the base year when adjusted for weather compared to FY05.

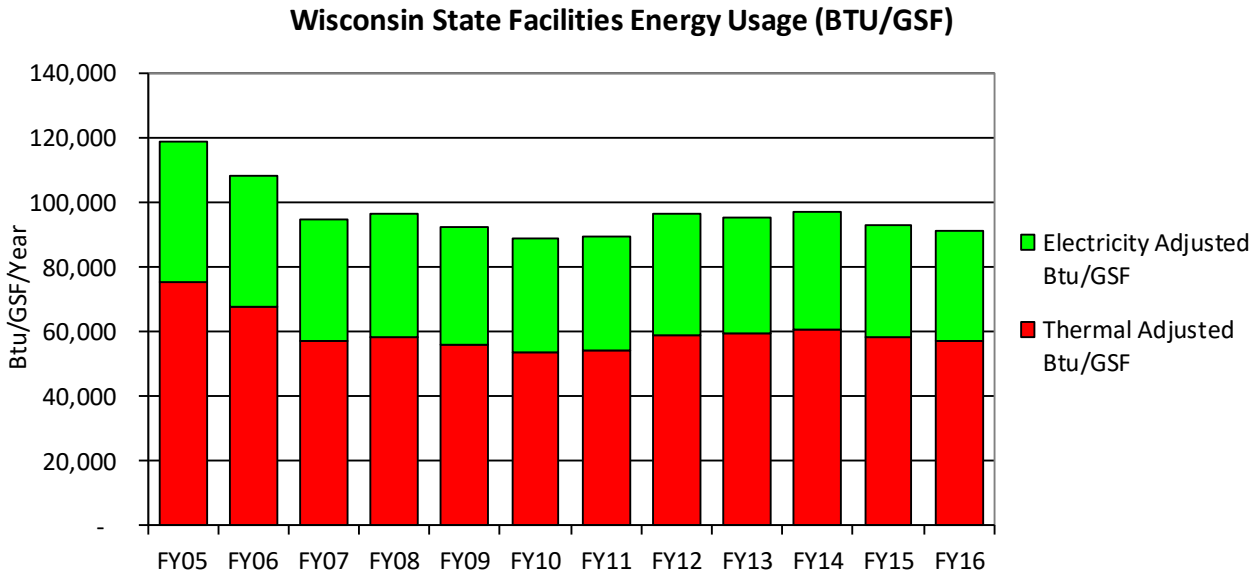
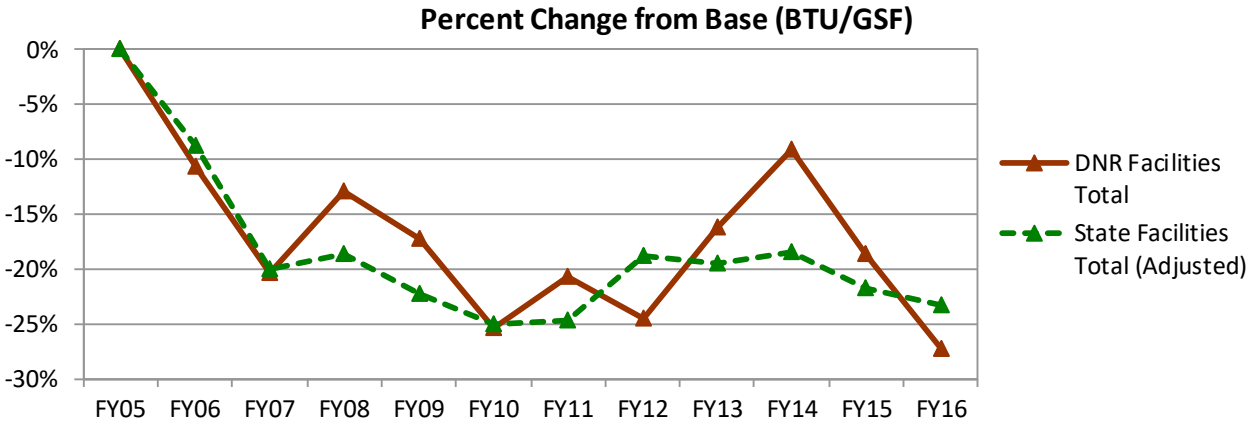
### Department of Natural Resources Fuel & Utilities Expenditures

Subcategory Name	Fiscal Year 2013	Fiscal Year 2014	Fiscal Year 2015	Fiscal Year 2016
Electricity	\$ 1,768,640	\$ 1,800,288	\$ 1,819,889	\$ 1,798,212
Natural Gas	\$ 290,713	\$ 402,155	\$ 320,364	\$ 243,278
Coal	\$ -	\$ -	\$ 283	\$ 94
Fuel Oil	\$ 30,173	\$ 26,033	\$ 14,805	\$ 9,755
Other Fuels	\$ 690,618	\$ 859,702	\$ 595,404	\$ 413,971
Steam	\$ -	\$ -	\$ 477	\$ 2,825
Chilled Water	\$ -	\$ -	\$ -	\$ 235
Water & Sewage	\$ 179,071	\$ 191,697	\$ 195,047	\$ 188,031
<b>Total:</b>	<b>\$ 2,959,214</b>	<b>\$ 3,279,875</b>	<b>\$ 2,946,270</b>	<b>\$ 2,656,401</b>



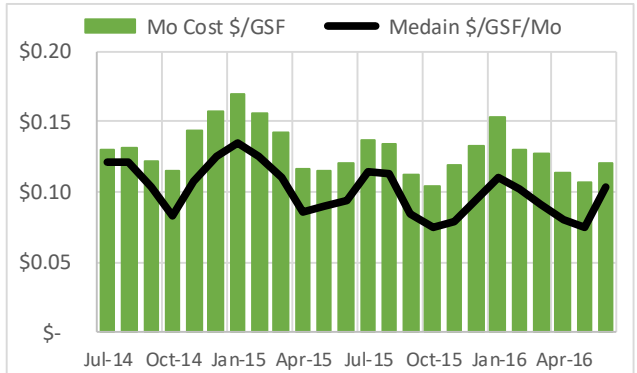
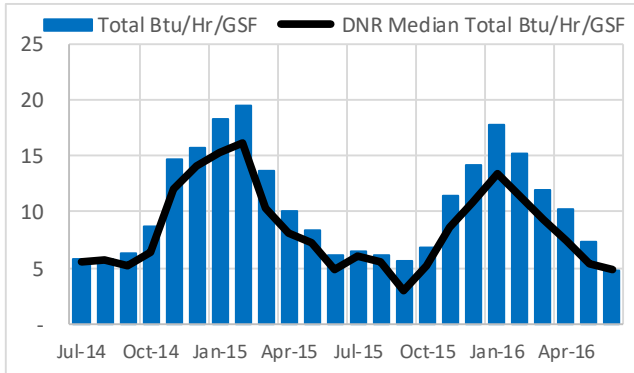
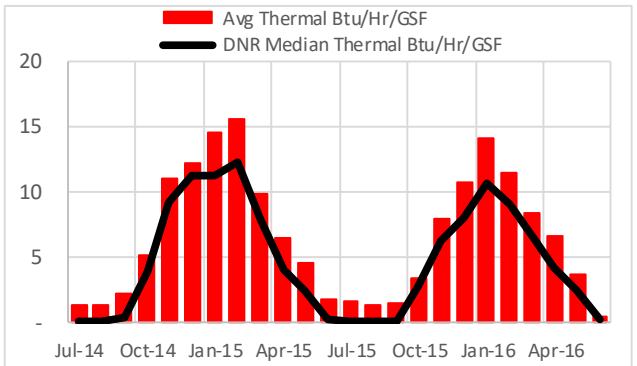
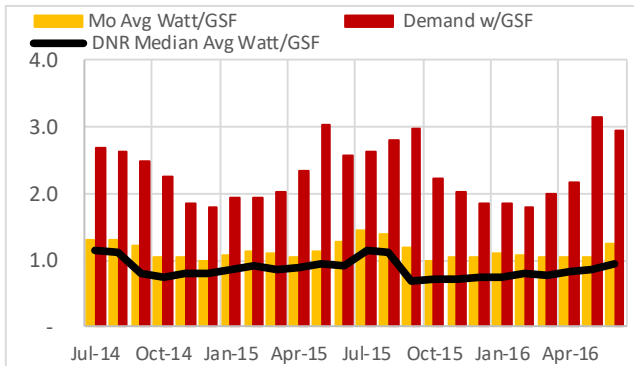
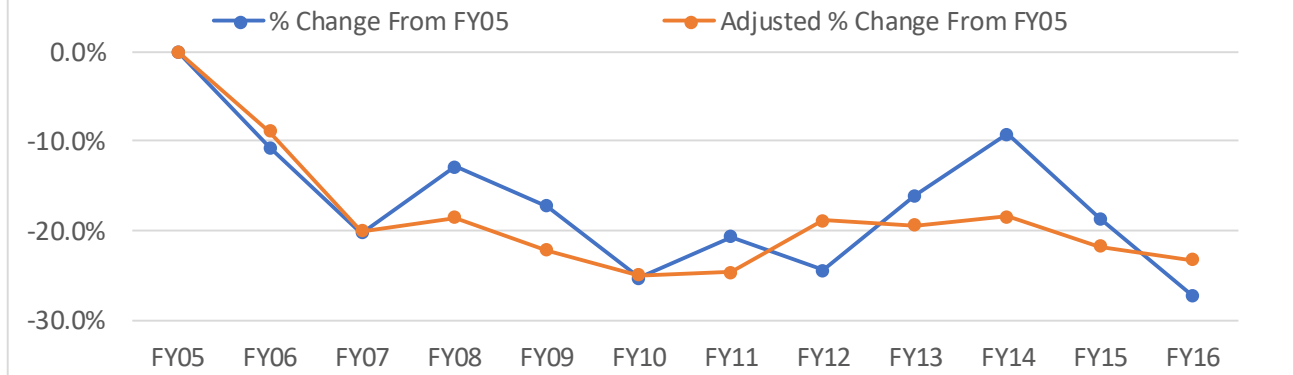


Wisconsin DNR State Facilities									
DNR Facilities Total									
Fiscal Year	GSF	BTU/GSF				Weather-Adjusted			
		Thermal	Electricity	Total	% Change From FY05	Thermal Adjusted to FY05	Electric Adjusted to FY05	Total Adjusted Btu/GSF	Adjusted % Change From FY05
FY05	134,381	75,312	43,350	118,661	0.0%	100.0%	100.0%	118,661	0.0%
FY06	168,941	65,192	40,744	105,936	-10.7%	104.1%	99.0%	108,159	-8.9%
FY07	168,941	56,593	37,986	94,578	-20.3%	101.0%	99.4%	94,904	-20.0%
FY08	168,941	64,106	39,232	103,337	-12.9%	90.6%	98.3%	96,634	-18.6%
FY09	168,941	61,263	36,919	98,182	-17.3%	91.1%	98.8%	92,296	-22.2%
FY10	168,941	53,164	35,426	88,590	-25.3%	100.8%	100.0%	89,009	-25.0%
FY11	168,941	58,534	35,499	94,033	-20.8%	93.1%	98.3%	89,409	-24.7%
FY12	168,941	52,062	37,567	89,629	-24.5%	113.6%	99.0%	96,318	-18.8%
FY13	168,941	62,813	36,713	99,526	-16.1%	94.5%	98.7%	95,611	-19.4%
FY14	168,941	71,277	36,472	107,749	-9.2%	85.5%	98.3%	96,808	-18.4%
FY15	168,941	62,398	34,082	96,481	-18.7%	93.9%	100.3%	92,780	-21.8%
FY16	168,941	52,130	34,162	86,292	-27.3%	109.2%	99.9%	91,032	-23.3%



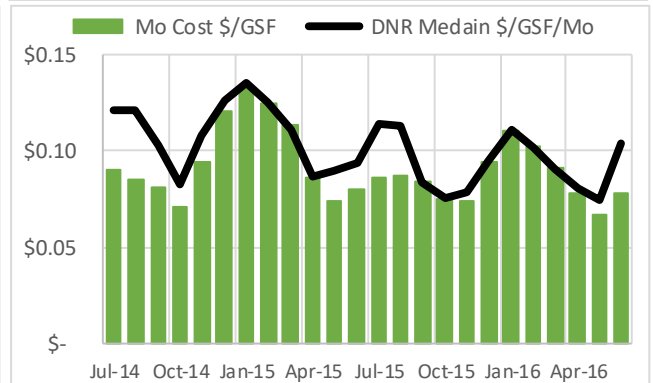
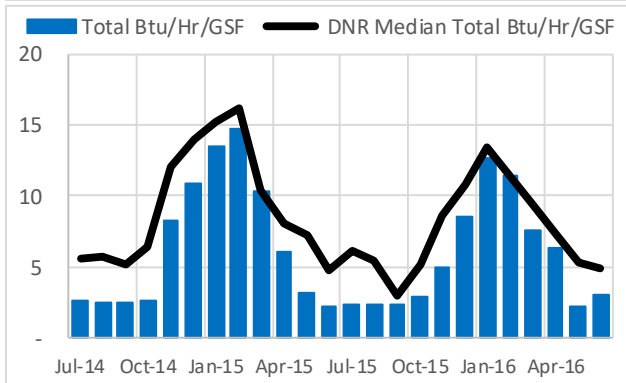
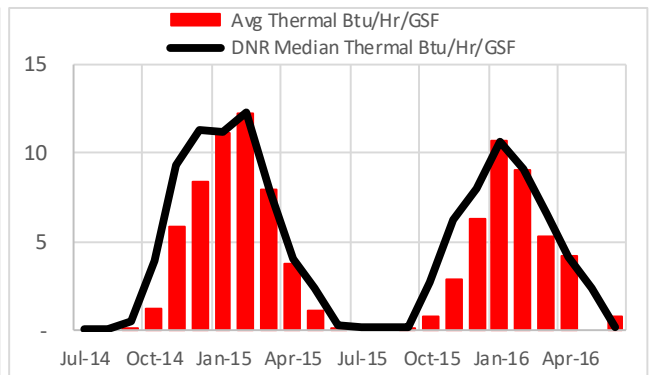
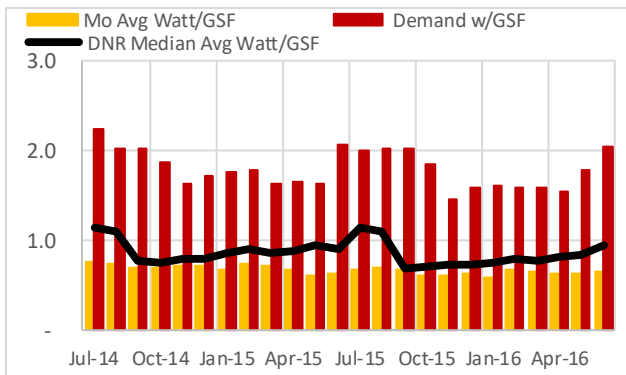
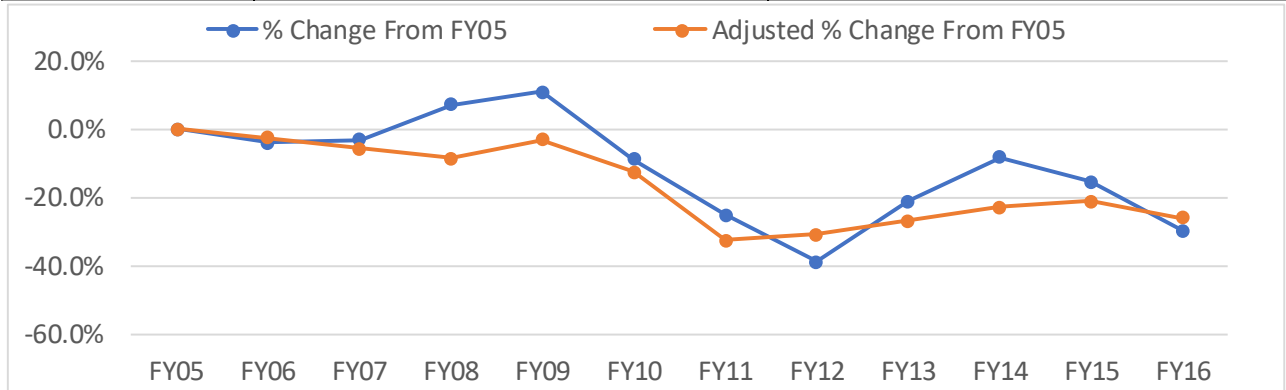
### Fiscal Year 2016 State Facilities Energy Report - DNR Total

Electric kwh/GSF =		10.01		Therm/GSF =		0.52		Total Btu/GSF =		86,292	
Electric \$/GSF =		\$ 1.20		Thermal \$/GSF =		\$ 0.28		Energy \$/GSF =		\$ 1.49	
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05	Weather Thermal Adjusted to FY05	Weather Electric Adjusted to FY05	Total Weather Adjusted Btu/GSF	Adjusted % Change From FY05		
FY05	134,381	75,312	43,350	118,661	0.0%	100.0%	100.0%	118,661	0.0%		
FY06	168,941	65,192	40,744	105,936	-10.7%	104.1%	99.0%	108,159	-8.9%		
FY07	168,941	56,593	37,986	94,578	-20.3%	101.0%	99.4%	94,904	-20.0%		
FY08	168,941	64,106	39,232	103,337	-12.9%	90.6%	98.3%	96,634	-18.6%		
FY09	168,941	61,263	36,919	98,182	-17.3%	91.1%	98.8%	92,296	-22.2%		
FY10	168,941	53,164	35,426	88,590	-25.3%	100.8%	100.0%	89,009	-25.0%		
FY11	168,941	58,534	35,499	94,033	-20.8%	93.1%	98.3%	89,409	-24.7%		
FY12	168,941	52,062	37,567	89,629	-24.5%	113.6%	99.0%	96,318	-18.8%		
FY13	168,941	62,813	36,713	99,526	-16.1%	94.5%	98.7%	95,611	-19.4%		
FY14	168,941	71,277	36,472	107,749	-9.2%	85.5%	98.3%	96,808	-18.4%		
FY15	168,941	62,398	34,082	96,481	-18.7%	93.9%	100.3%	92,780	-21.8%		
FY16	168,941	52,130	34,162	86,292	-27.3%	109.2%	99.9%	91,032	-23.3%		



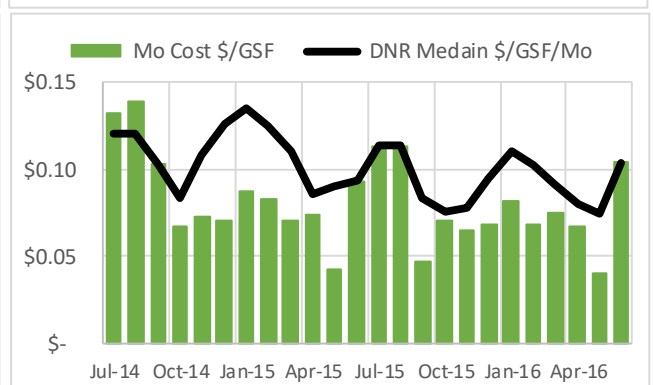
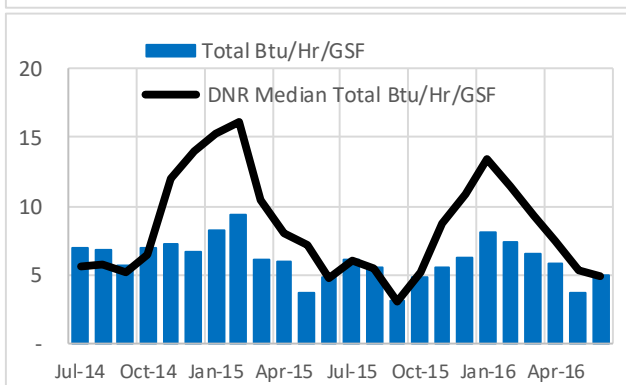
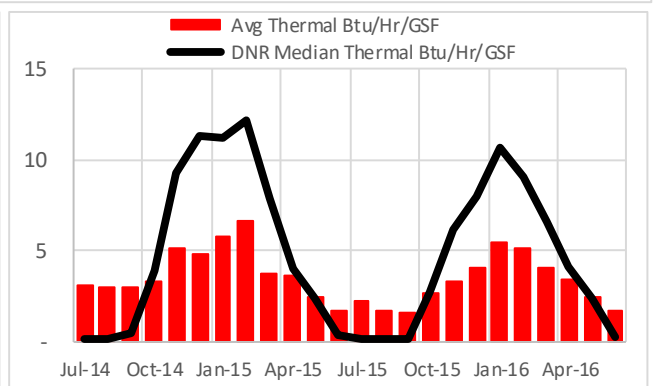
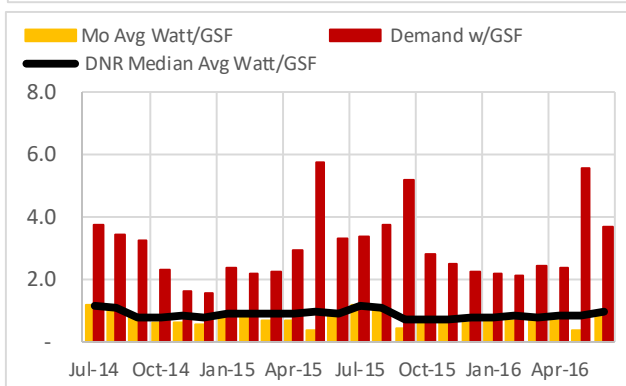
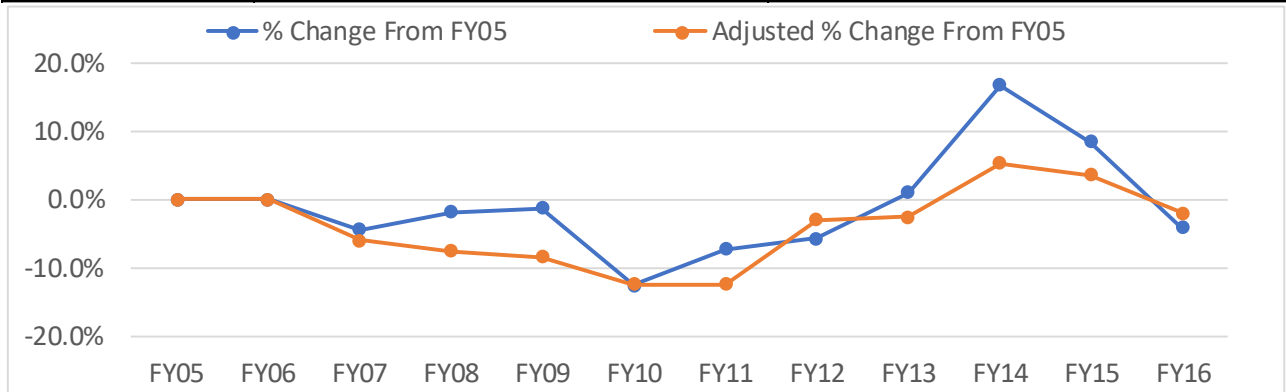
### Fiscal Year 2016 State Facilities Energy Report - DNR\_Darwin Road

Electric kwh/GSF =		5.69		Therm/GSF =		0.29		Total Btu/GSF =		48,545	
Electric \$/GSF =		\$ 0.87		Thermal \$/GSF =		\$ 0.16		Energy \$/GSF =		\$ 1.03	
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05	Weather Thermal Adjusted to FY05	Weather Electric Adjusted to FY05	Total Weather Adjusted Btu/GSF	Adjusted % Change From FY05		
FY05	24,820	46,831	22,302	69,134	0.0%	100.0%	100.0%	69,134	0.0%		
FY06	24,820	43,655	22,777	66,432	-3.9%	102.2%	99.8%	67,349	-2.6%		
FY07	24,820	44,831	22,031	66,862	-3.3%	96.2%	99.9%	65,148	-5.8%		
FY08	24,820	51,369	22,736	74,105	7.2%	79.1%	99.2%	63,202	-8.6%		
FY09	24,820	53,768	22,941	76,709	11.0%	81.8%	100.2%	66,994	-3.1%		
FY10	24,820	42,467	20,552	63,019	-8.8%	93.9%	100.2%	60,452	-12.6%		
FY11	24,820	31,265	20,476	51,741	-25.2%	84.3%	98.4%	46,505	-32.7%		
FY12	24,820	22,433	19,756	42,189	-39.0%	124.7%	99.8%	47,687	-31.0%		
FY13	24,820	34,456	20,075	54,530	-21.1%	89.2%	99.2%	50,628	-26.8%		
FY14	24,820	41,689	21,749	63,438	-8.2%	75.5%	100.2%	53,256	-23.0%		
FY15	24,820	37,404	20,977	58,381	-15.6%	90.0%	99.5%	54,541	-21.1%		
FY16	24,820	29,136	19,409	48,545	-29.8%	109.2%	99.9%	51,209	-25.9%		



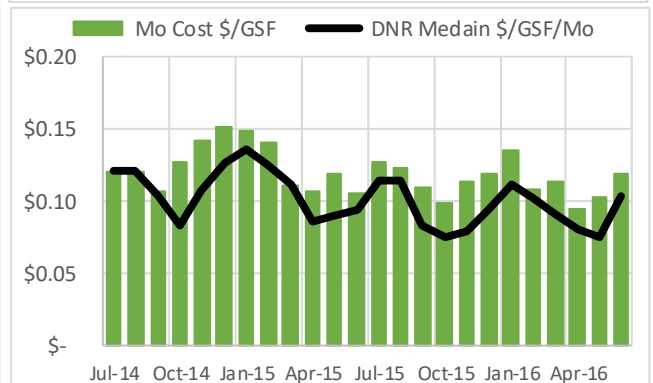
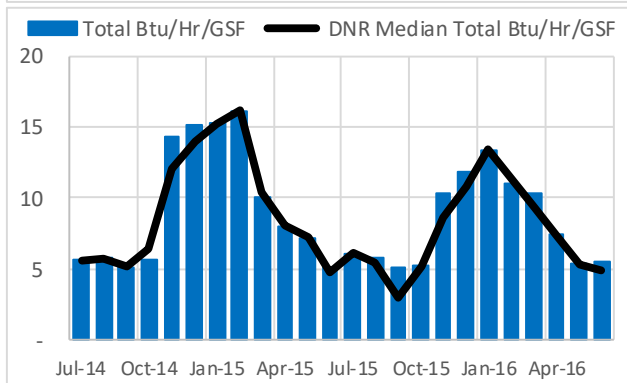
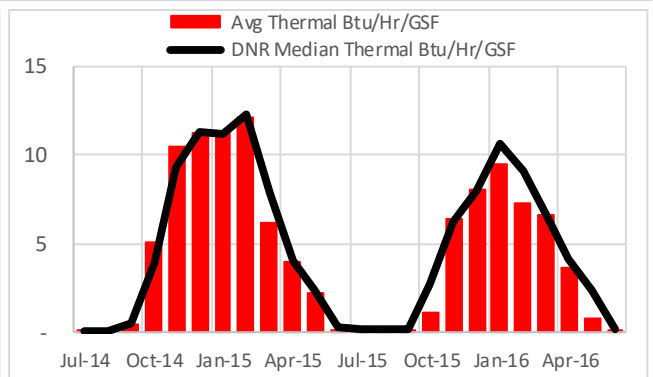
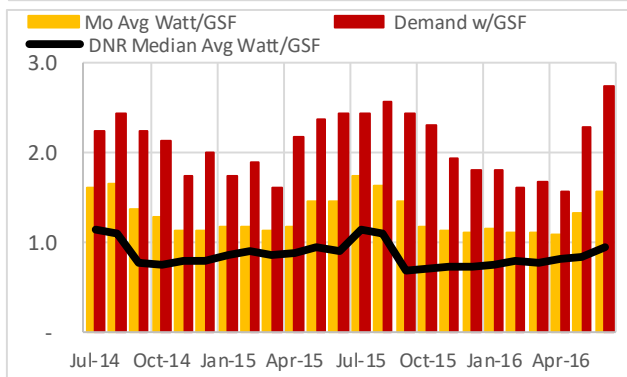
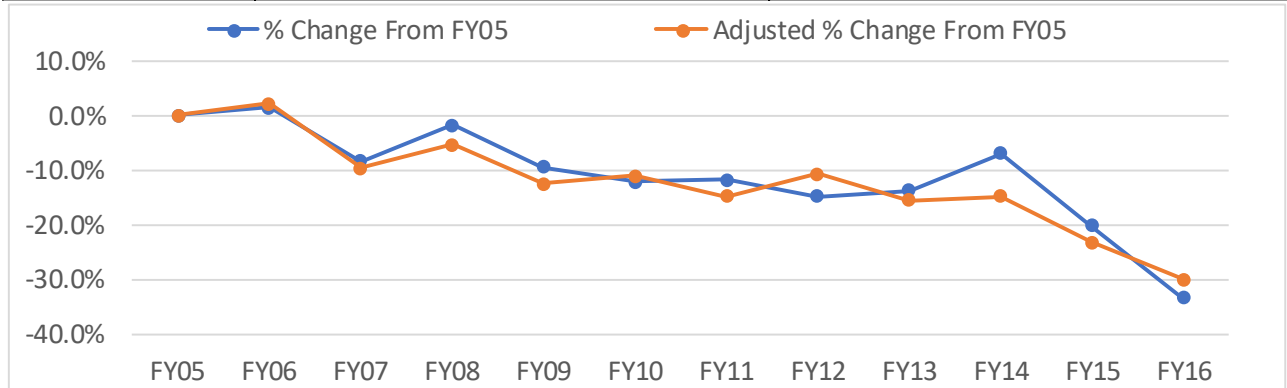
### Fiscal Year 2016 State Facilities Energy Report - DNR\_Green Bay

Electric kwh/GSF =		6.40		Therm/GSF =		0.28		Total Btu/GSF =		49,476	
Electric \$/GSF =		\$ 0.78		Thermal \$/GSF =		\$ 0.13		Energy \$/GSF =		\$ 0.91	
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05	Weather Thermal Adjusted to FY05	Weather Electric Adjusted to FY05	Total Weather Adjusted Btu/GSF	Adjusted % Change From FY05		
FY05	-	-	-	-	0.0%	0.0%	0.0%	-	0.0%		
FY06	34,560	21,413	30,196	51,608	0.0%	106.6%	98.9%	52,698	0.0%		
FY07	34,560	22,245	27,077	49,321	-4.4%	100.9%	100.0%	49,531	-6.0%		
FY08	34,560	23,084	27,565	50,649	-1.9%	94.7%	97.4%	48,702	-7.6%		
FY09	34,560	23,745	27,225	50,970	-1.2%	90.4%	98.2%	48,208	-8.5%		
FY10	34,560	20,380	24,736	45,116	-12.6%	103.0%	101.7%	46,149	-12.4%		
FY11	34,560	25,885	21,930	47,816	-7.3%	94.7%	98.5%	46,115	-12.5%		
FY12	34,560	23,122	25,493	48,615	-5.8%	110.7%	100.2%	51,135	-3.0%		
FY13	34,560	27,615	24,483	52,098	0.9%	98.0%	99.2%	51,341	-2.6%		
FY14	34,560	35,477	24,798	60,275	16.8%	88.9%	96.5%	55,489	5.3%		
FY15	34,560	33,515	22,464	55,979	8.5%	95.9%	100.1%	54,608	3.6%		
FY16	34,560	27,640	21,836	49,476	-4.1%	106.4%	101.8%	51,624	-2.0%		



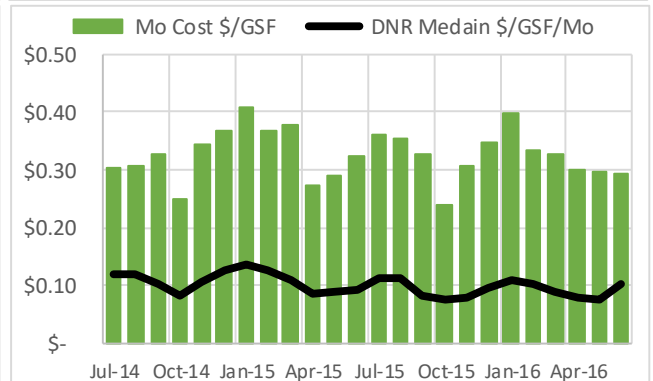
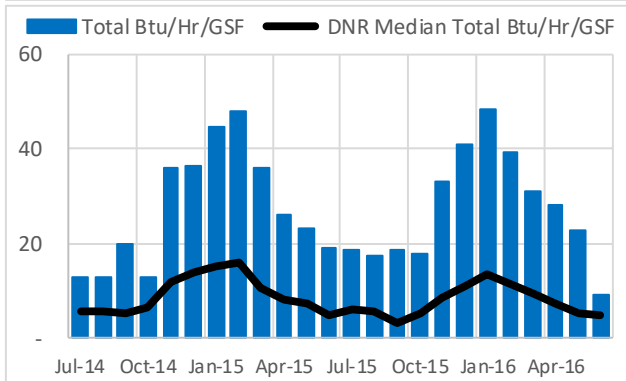
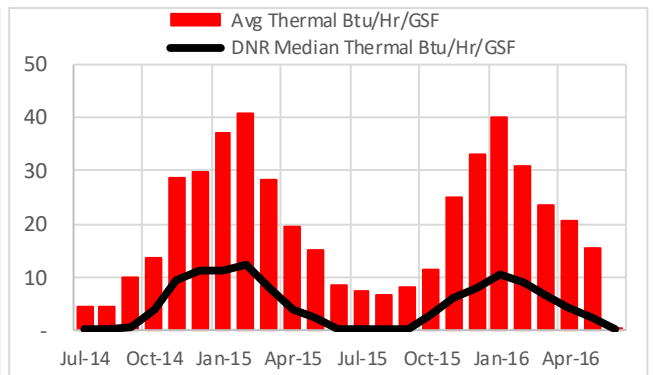
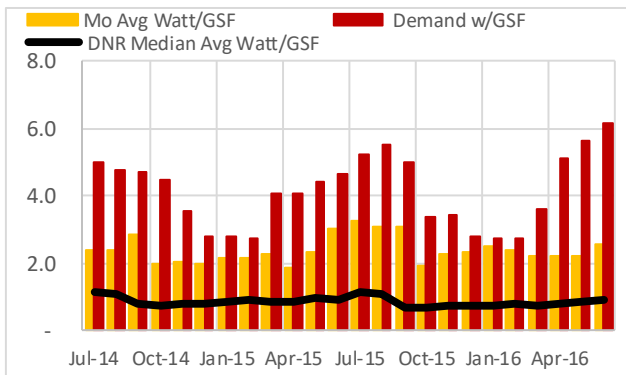
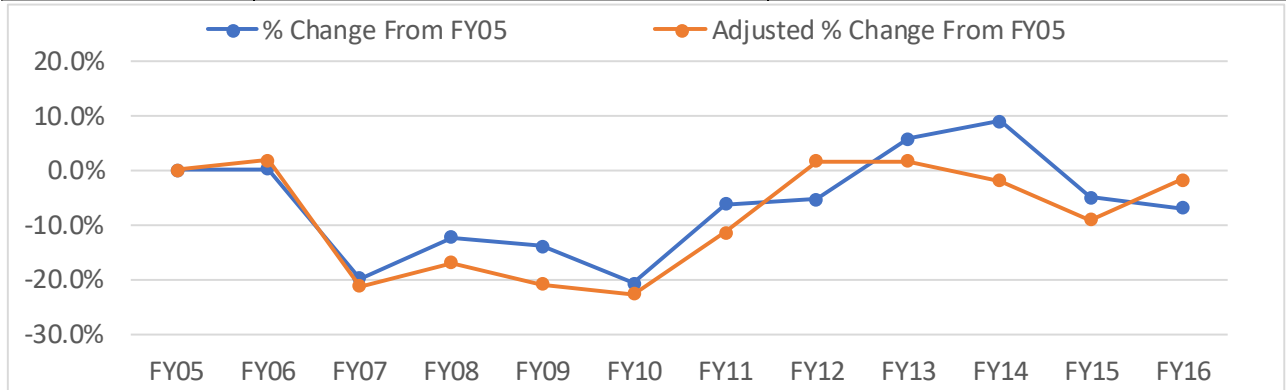
### Fiscal Year 2016 State Facilities Energy Report - DNR\_SE Milwaukee

Electric kwh/GSF = 11.45		Therm/GSF = 0.32		Total Btu/GSF = 71,233					
Electric \$/GSF = \$ 1.16		Thermal \$/GSF = \$ 0.20		Energy \$/GSF = \$ 1.36					
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05	Weather Thermal Adjusted to FY05	Weather Electric Adjusted to FY05	Total Weather Adjusted Btu/GSF	Adjusted % Change From FY05
FY05	48,000	56,758	50,237	106,995	0.0%	100.0%	100.0%	106,995	0.0%
FY06	48,000	59,443	49,052	108,495	1.4%	102.7%	98.4%	109,274	2.1%
FY07	48,000	49,489	48,529	98,019	-8.4%	98.5%	98.8%	96,708	-9.6%
FY08	48,000	58,873	46,299	105,172	-1.7%	94.9%	98.1%	101,310	-5.3%
FY09	48,000	53,906	42,950	96,856	-9.5%	94.4%	99.5%	93,601	-12.5%
FY10	48,000	50,296	43,727	94,024	-12.1%	102.4%	99.7%	95,071	-11.1%
FY11	48,000	50,885	43,409	94,293	-11.9%	95.4%	98.1%	91,137	-14.8%
FY12	48,000	48,120	42,921	91,041	-14.9%	111.3%	97.8%	95,528	-10.7%
FY13	48,000	51,926	40,389	92,316	-13.7%	96.8%	99.1%	90,300	-15.6%
FY14	48,000	58,946	40,569	99,515	-7.0%	87.0%	98.4%	91,195	-14.8%
FY15	48,000	45,941	39,478	85,419	-20.2%	92.0%	101.0%	82,151	-23.2%
FY16	48,000	32,149	39,084	71,233	-33.4%	112.5%	99.0%	74,869	-30.0%



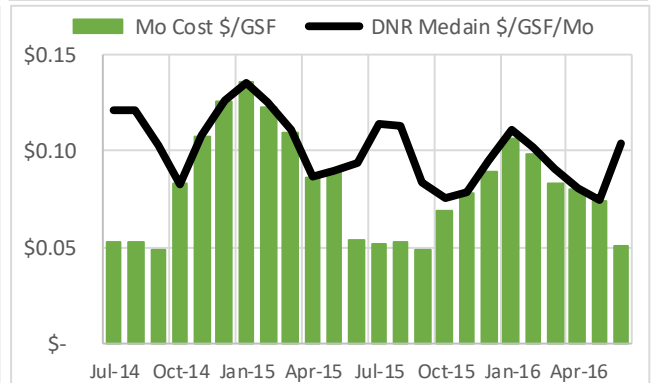
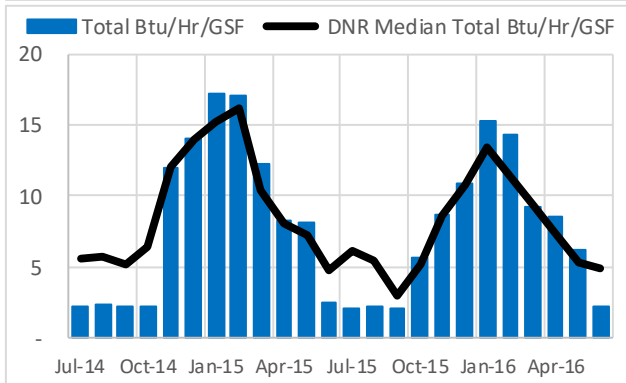
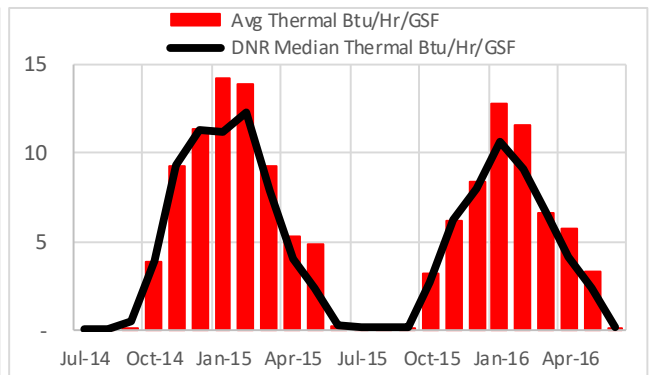
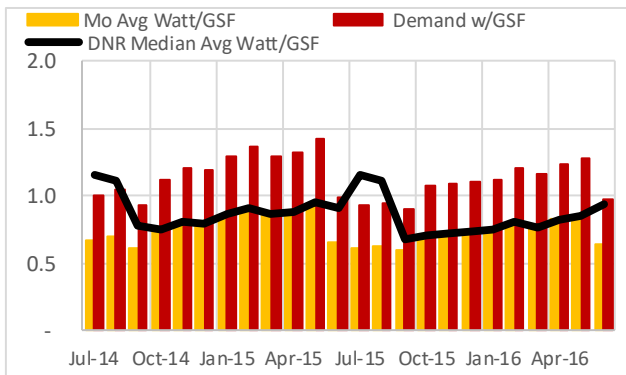
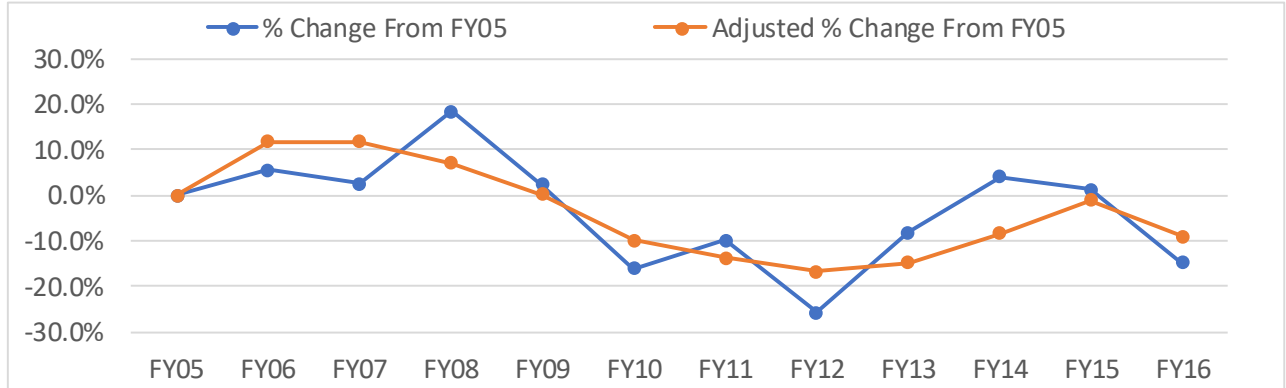
### Fiscal Year 2016 State Facilities Energy Report - DNR\_South Central

Electric kwh/GSF = 21.99		Therm/GSF = 1.62		Total Btu/GSF = 237,548					
Electric \$/GSF = \$ 2.99		Thermal \$/GSF = \$ 0.90		Energy \$/GSF = \$ 3.89					
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05	Weather Thermal Adjusted to FY05	Weather Electric Adjusted to FY05	Total Weather Adjusted Btu/GSF	Adjusted % Change From FY05
FY05	24,820	178,898	76,412	255,310	0.0%	100.0%	100.0%	255,310	0.0%
FY06	24,820	177,367	78,364	255,731	0.2%	102.8%	98.9%	259,890	1.8%
FY07	24,820	135,725	69,007	204,733	-19.8%	97.3%	99.4%	200,721	-21.4%
FY08	24,820	148,780	75,022	223,803	-12.3%	93.0%	97.9%	211,912	-17.0%
FY09	24,820	152,045	67,611	219,656	-14.0%	89.5%	97.4%	201,880	-20.9%
FY10	24,820	136,647	65,598	202,246	-20.8%	96.4%	99.7%	197,183	-22.8%
FY11	24,820	168,584	70,805	239,389	-6.2%	93.0%	97.6%	225,872	-11.5%
FY12	24,820	158,124	83,525	241,649	-5.4%	112.2%	98.2%	259,419	1.6%
FY13	24,820	186,341	83,446	269,788	5.7%	95.4%	97.8%	259,413	1.6%
FY14	24,820	199,343	78,639	277,982	8.9%	87.1%	97.4%	250,202	-2.0%
FY15	24,820	174,141	68,504	242,646	-5.0%	93.9%	100.2%	232,153	-9.1%
FY16	24,820	162,491	75,056	237,548	-7.0%	108.1%	99.9%	250,630	-1.8%



### Fiscal Year 2016 State Facilities Energy Report - DNR\_Tomahawk

Electric kwh/GSF = 6.35		Therm/GSF = 0.42		Total Btu/GSF = 63,916					
Electric \$/GSF = \$ 0.68		Thermal \$/GSF = \$ 0.21		Energy \$/GSF = \$ 0.88					
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05	Weather Thermal Adjusted to FY05	Weather Electric Adjusted to FY05	Total Weather Adjusted Btu/GSF	Adjusted % Change From FY05
FY05	36,741	48,814	26,236	75,049	0.0%	100.0%	100.0%	75,049	0.0%
FY06	36,741	52,654	26,536	79,190	5.5%	108.9%	100.2%	83,937	11.8%
FY07	36,741	52,670	24,294	76,964	2.6%	113.1%	100.0%	83,846	11.7%
FY08	36,741	60,931	27,939	88,870	18.4%	86.1%	99.6%	80,322	7.0%
FY09	36,741	49,901	26,866	76,768	2.3%	96.9%	99.7%	75,127	0.1%
FY10	36,741	38,580	24,299	62,879	-16.2%	112.4%	99.8%	67,620	-9.9%
FY11	36,741	43,317	24,227	67,544	-10.0%	93.4%	100.0%	64,674	-13.8%
FY12	36,741	32,801	22,913	55,714	-25.8%	119.4%	101.9%	62,521	-16.7%
FY13	36,741	45,853	23,084	68,936	-8.1%	89.3%	99.5%	63,925	-14.8%
FY14	36,741	54,536	23,563	78,099	4.1%	82.7%	100.6%	68,807	-8.3%
FY15	36,741	52,465	23,561	76,026	1.3%	96.8%	99.7%	74,253	-1.1%
FY16	36,741	42,249	21,667	63,916	-14.8%	110.3%	100.1%	68,302	-9.0%



# Agency Energy Use Summary

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## Department of Transportation



### SCOPE

Includes the larger Department of Transportation facilities: DTD 1 Madison; DTD 1, Madison Lab; DTD 1, "A" Building Madison; DTD 1, "B" Building Madison; DTD 2, West Allis; and DTD 3, Green Bay.

### ENERGY CONSUMPTION

**Total Change from Base - Weather Adjusted: 24.7 percent decrease.**

Energy use (BTU/GSF/Yr) for FY16 was 24.7 percent lower than in the base fiscal year, FY05.

**Latest Year Change - Weather Adjusted: 3.7 percent decrease.**

Energy use (BTU/GSF/Yr) for FY16 decreased 3.7 percent from the previous fiscal year.

***Average Annual Change - Weather Adjusted: 2.2 percent decrease per year.***

On average, energy use (BTU/GSF/Yr) has decreased 2.2 percent since the base year, FY05.

### GSF AND CONSUMPTION STATISTICS

***GSF Change from Base: 0 percent.***

Gross square footage has not changed from the base fiscal year, FY05.

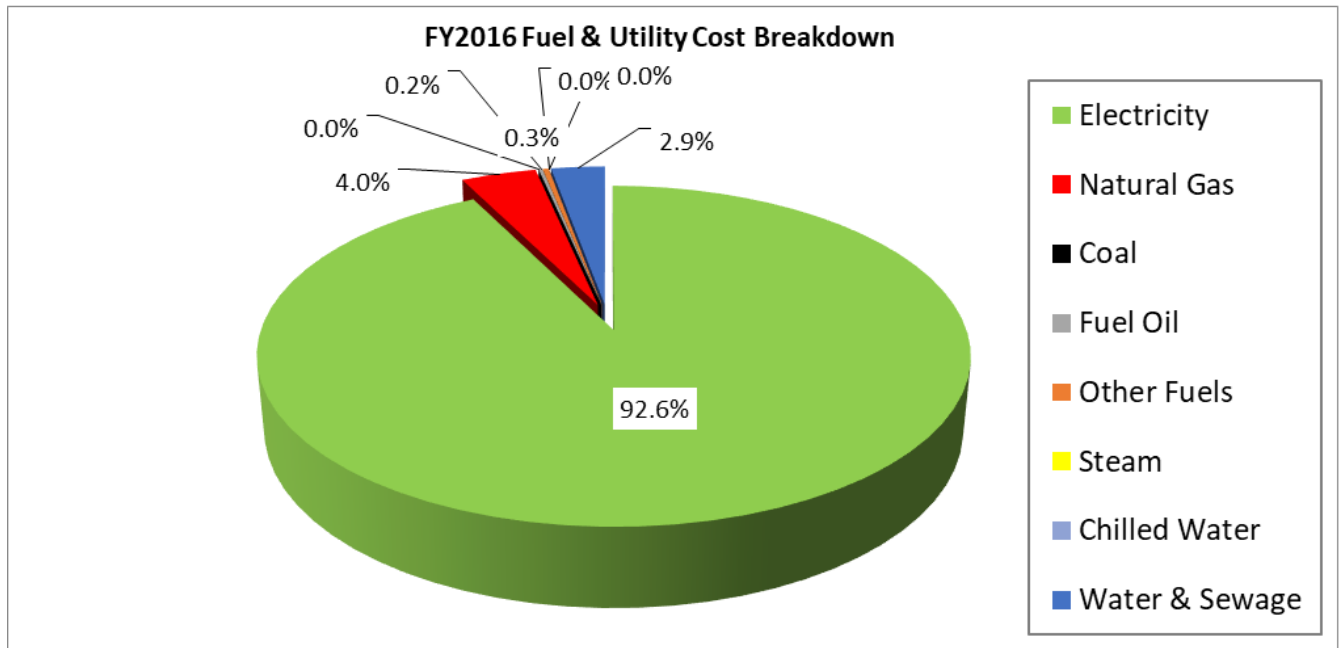
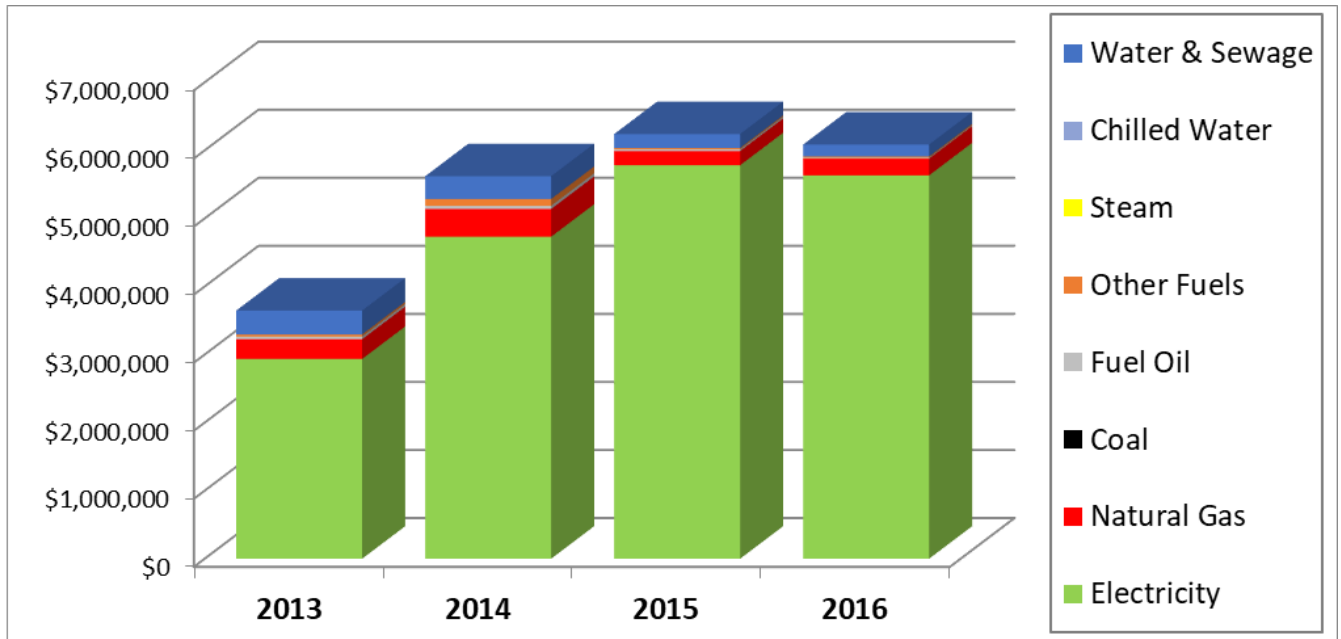
***Consumption Change from Base: 28 percent decrease.***

Total consumption was 28 percent less when compared to FY05. Total energy (million BTU) purchases in FY16 were 24.7 percent less than in the base year when adjusted for weather compared to FY05.

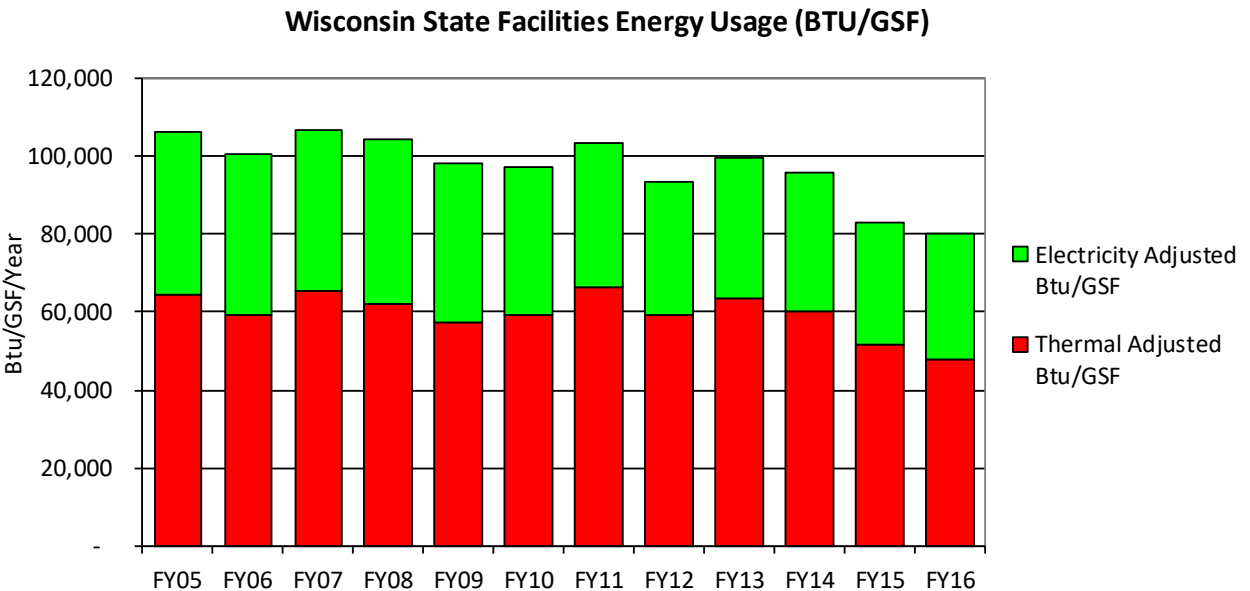
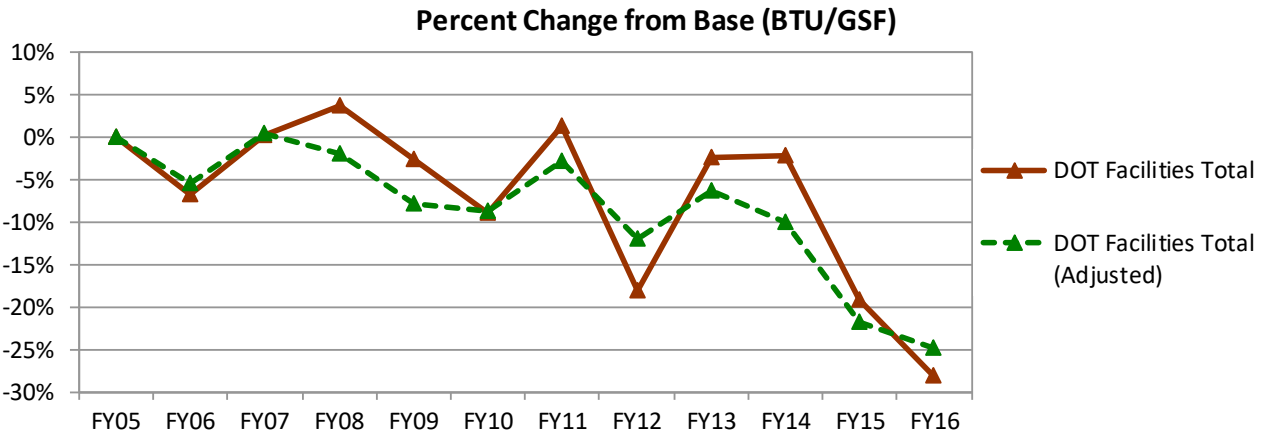


### Department of Transportation Fuel & Utilities Expenditures

Subcategory Name	Fiscal Year 2013	Fiscal Year 2014	Fiscal Year 2015	Fiscal Year 2016
Electricity	\$ 2,935,190	\$ 4,731,324	\$ 5,781,757	\$ 5,633,075
Natural Gas	\$ 289,975	\$ 407,370	\$ 208,471	\$ 245,263
Coal	\$ -	\$ -	\$ -	\$ -
Fuel Oil	\$ 38,990	\$ 46,276	\$ 25,031	\$ 12,187
Other Fuels	\$ 31,142	\$ 100,471	\$ 19,060	\$ 19,183
Steam	\$ -	\$ -	\$ -	\$ -
Chilled Water	\$ -	\$ -	\$ -	\$ -
Water & Sewage	\$ 350,569	\$ 334,181	\$ 205,012	\$ 175,214
<b>Total:</b>	<b>\$ 3,645,867</b>	<b>\$ 5,619,622</b>	<b>\$ 6,239,330</b>	<b>\$ 6,084,923</b>

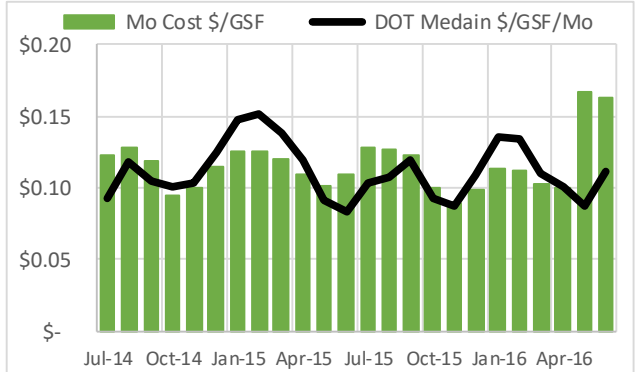
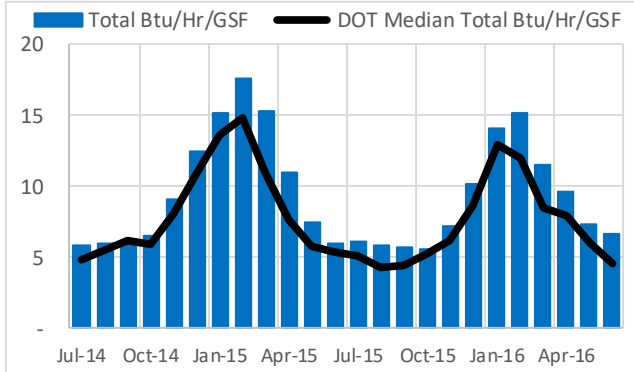
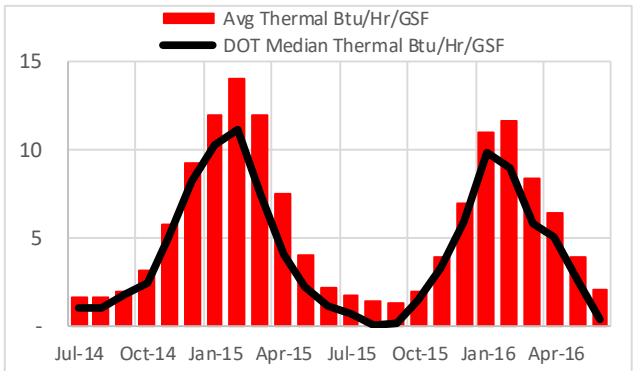
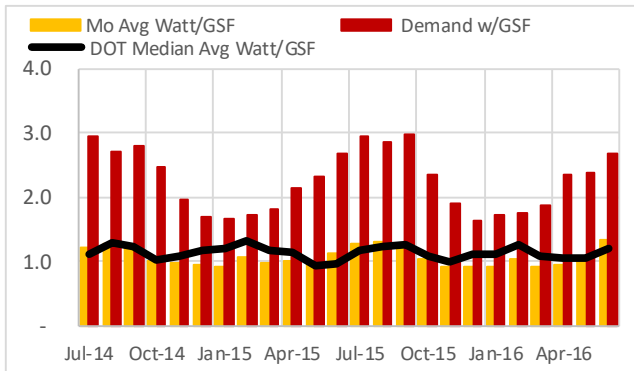
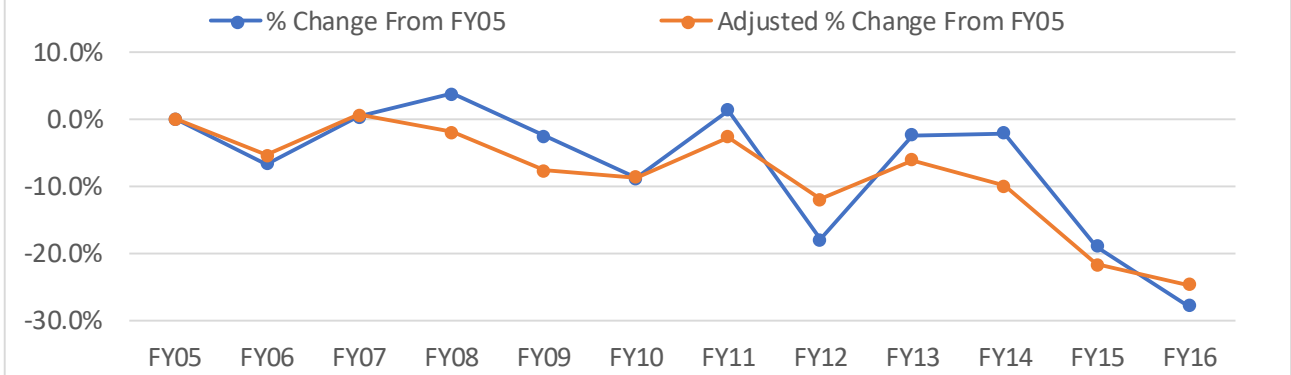


Wisconsin State DOT Facilities									
DOT Facilities Total									
Fiscal Year	GSF	BTU/GSF				Weather-Adjusted			
		Thermal	Electricity	Total	% Change From FY05	Thermal Adjusted to FY05	Electric Adjusted to FY05	Total Adjusted Btu/GSF	Adjusted % Change From FY05
FY05	274,395	64,561	41,794	106,355	0.0%	100.0%	100.0%	106,355	0.0%
FY06	274,395	57,610	41,548	99,158	-6.8%	103.1%	99.1%	100,589	-5.4%
FY07	274,395	65,171	41,538	106,709	0.3%	100.5%	99.7%	106,919	0.5%
FY08	274,395	67,726	42,663	110,389	3.8%	91.7%	98.8%	104,295	-1.9%
FY09	274,395	62,757	40,834	103,590	-2.6%	91.4%	99.9%	98,150	-7.7%
FY10	274,395	59,383	37,503	96,886	-8.9%	99.8%	100.9%	97,074	-8.7%
FY11	274,395	70,053	37,703	107,757	1.3%	94.6%	98.8%	103,516	-2.7%
FY12	274,395	51,774	35,398	87,172	-18.0%	114.2%	97.3%	93,574	-12.0%
FY13	274,395	67,300	36,543	103,843	-2.4%	94.1%	99.7%	99,767	-6.2%
FY14	274,395	68,335	35,671	104,007	-2.2%	88.3%	99.3%	95,743	-10.0%
FY15	274,395	54,348	31,732	86,080	-19.1%	94.7%	99.9%	83,181	-21.8%
FY16	274,395	44,153	32,442	76,595	-28.0%	108.2%	99.6%	80,073	-24.7%



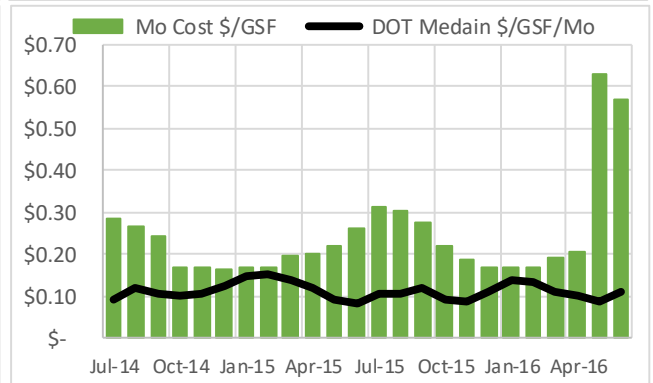
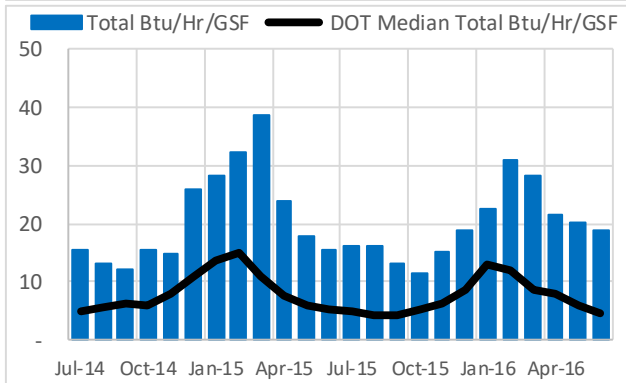
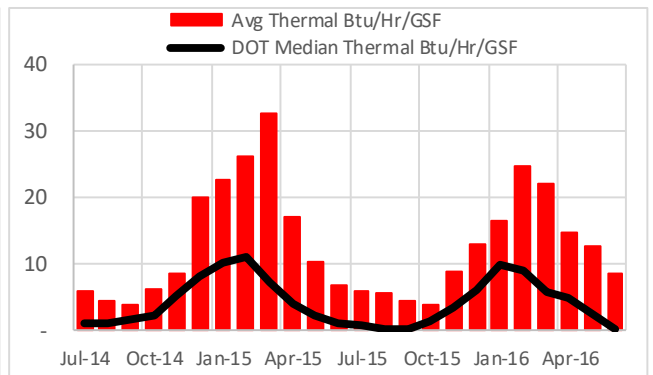
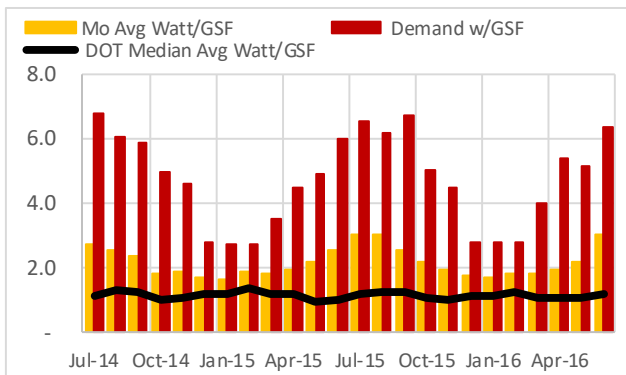
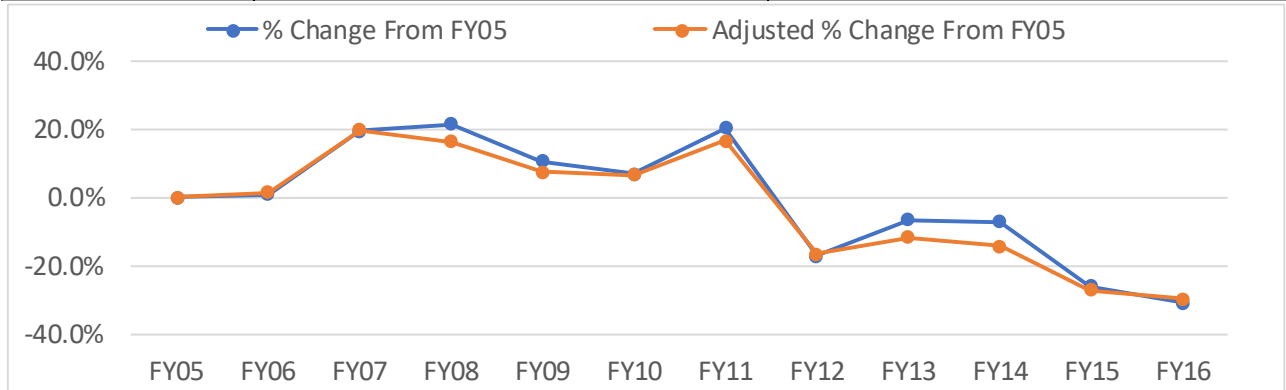
### Fiscal Year 2016 State Facilities Energy Report - DOT Total

Electric kwh/GSF = 9.51		Therm/GSF = 0.44		Total Btu/GSF = 76,595					
Electric \$/GSF = \$ 1.24		Thermal \$/GSF = \$ 0.18		Energy \$/GSF = \$ 1.43					
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05	Weather Thermal Adjusted to FY05	Weather Electric Adjusted to FY05	Total Weather Adjusted Btu/GSF	Adjusted % Change From FY05
FY05	274,395	64,561	41,794	106,355	0.0%	100.0%	100.0%	106,355	0.0%
FY06	274,395	57,610	41,548	99,158	-6.8%	103.1%	99.1%	100,589	-5.4%
FY07	274,395	65,171	41,538	106,709	0.3%	100.5%	99.7%	106,919	0.5%
FY08	274,395	67,726	42,663	110,389	3.8%	91.7%	98.8%	104,295	-1.9%
FY09	274,395	62,757	40,834	103,590	-2.6%	91.4%	99.9%	98,150	-7.7%
FY10	274,395	59,383	37,503	96,886	-8.9%	99.8%	100.9%	97,074	-8.7%
FY11	274,395	70,053	37,703	107,757	1.3%	94.6%	98.8%	103,516	-2.7%
FY12	274,395	51,774	35,398	87,172	-18.0%	114.2%	97.3%	93,574	-12.0%
FY13	274,395	67,300	36,543	103,843	-2.4%	94.1%	99.7%	99,767	-6.2%
FY14	274,395	68,335	35,671	104,007	-2.2%	88.3%	99.3%	95,743	-10.0%
FY15	274,395	54,348	31,732	86,080	-19.1%	94.7%	99.9%	83,181	-21.8%
FY16	274,395	44,153	32,442	76,595	-28.0%	108.2%	99.6%	80,073	-24.7%



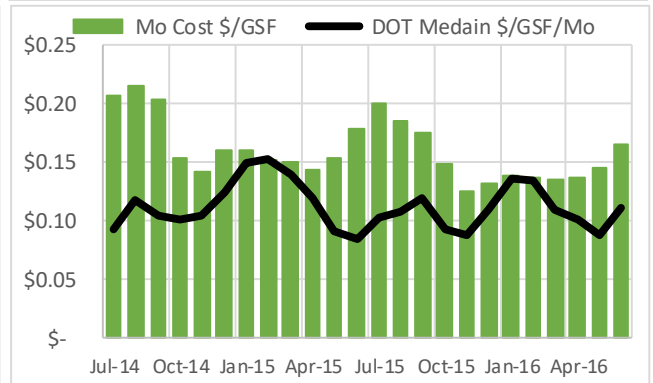
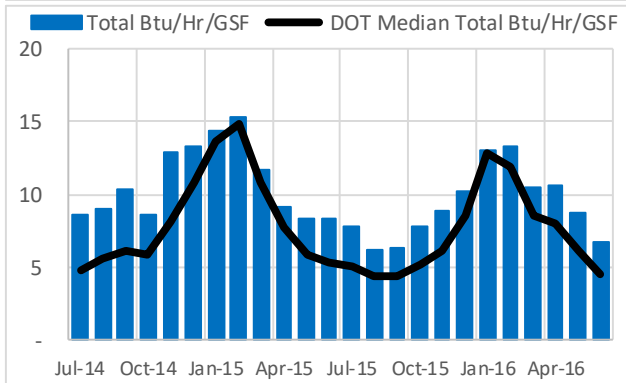
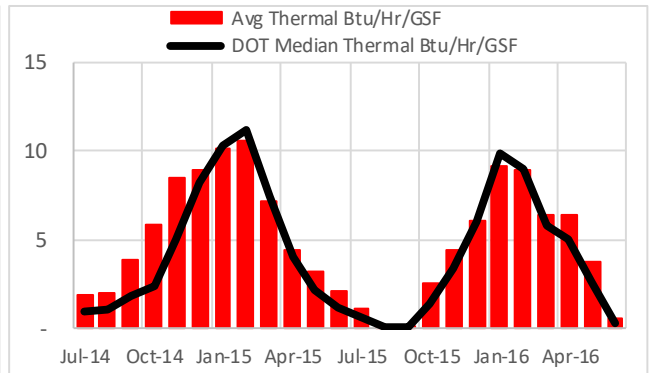
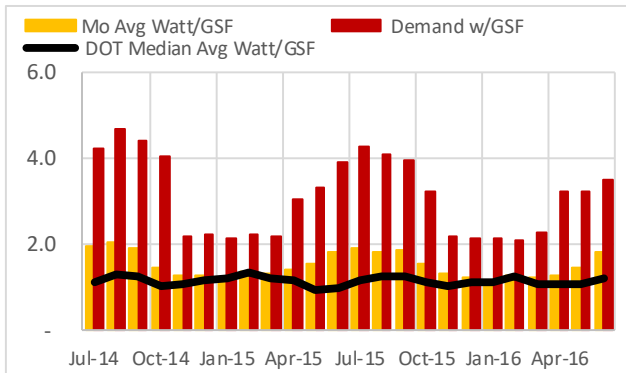
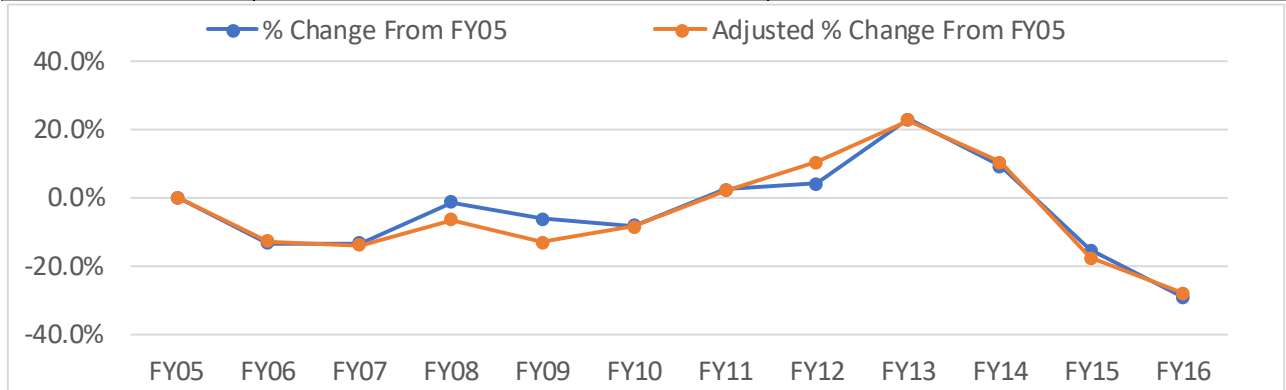
### Fiscal Year 2016 State Facilities Energy Report - DOT\_DTD 1 Lab

Electric kwh/GSF = 19.74		Therm/GSF = 1.02		Total Btu/GSF = 169,825					
Electric \$/GSF = \$ 3.21		Thermal \$/GSF = \$ 0.18		Energy \$/GSF = \$ 3.39					
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05	Weather Thermal Adjusted to FY05	Weather Electric Adjusted to FY05	Total Weather Adjusted Btu/GSF	Adjusted % Change From FY05
FY05	43,000	162,720	83,591	246,311	0.0%	100.0%	100.0%	246,311	0.0%
FY06	43,000	163,270	84,970	248,240	0.8%	101.9%	98.3%	249,899	1.5%
FY07	43,000	204,282	90,188	294,470	19.6%	100.2%	99.9%	294,804	19.7%
FY08	43,000	207,886	91,095	298,980	21.4%	95.1%	97.4%	286,381	16.3%
FY09	43,000	186,577	85,628	272,205	10.5%	95.5%	100.7%	264,360	7.3%
FY10	43,000	176,205	87,027	263,232	6.9%	98.9%	101.5%	262,614	6.6%
FY11	43,000	206,810	89,568	296,378	20.3%	96.7%	97.4%	287,132	16.6%
FY12	43,000	126,292	77,353	203,645	-17.3%	105.0%	94.1%	205,425	-16.6%
FY13	43,000	160,174	69,784	229,958	-6.6%	92.6%	98.7%	217,246	-11.8%
FY14	43,000	154,439	73,890	228,329	-7.3%	89.4%	98.5%	210,822	-14.4%
FY15	43,000	119,664	62,463	182,127	-26.1%	97.1%	100.4%	178,897	-27.4%
FY16	43,000	102,466	67,359	169,825	-31.1%	103.8%	98.8%	172,944	-29.8%



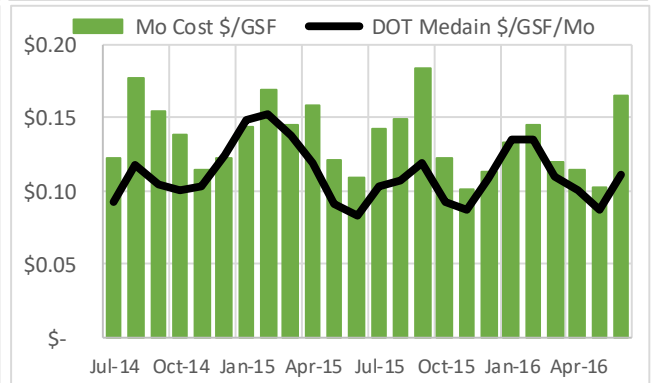
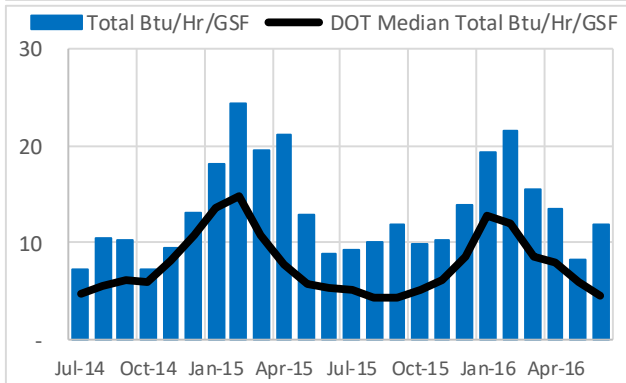
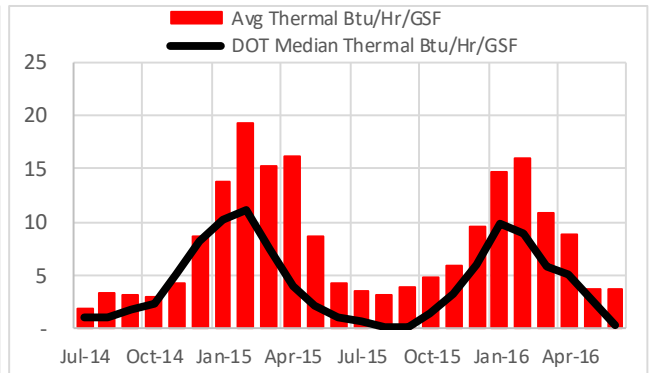
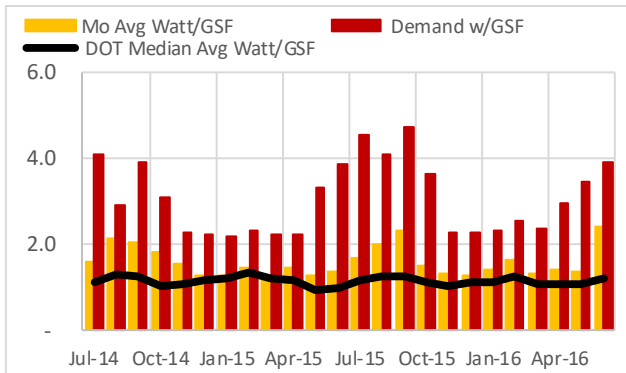
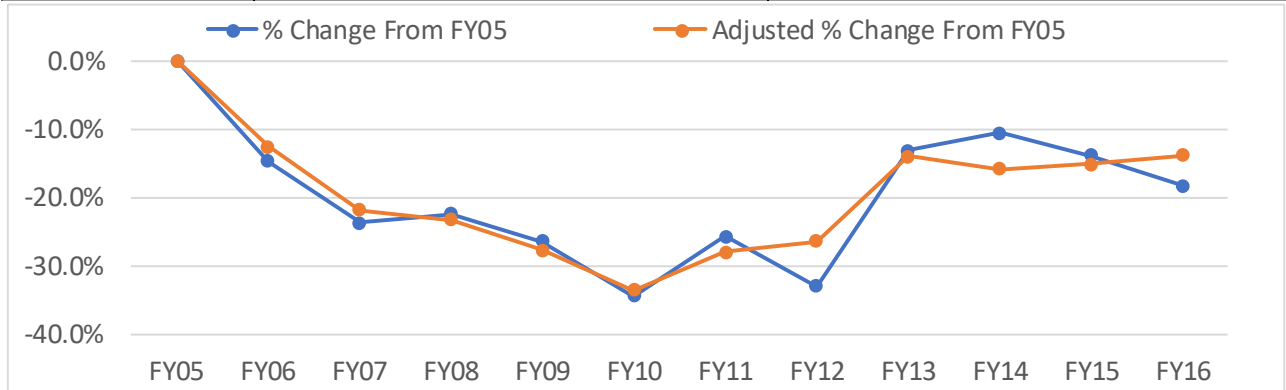
### Fiscal Year 2016 State Facilities Energy Report - DOT\_DTD 1 Madison

Electric kwh/GSF = 12.99		Therm/GSF = 0.36		Total Btu/GSF = 80,393					
Electric \$/GSF = \$ 1.62		Thermal \$/GSF = \$ 0.19		Energy \$/GSF = \$ 1.82					
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05	Weather Thermal Adjusted to FY05	Weather Electric Adjusted to FY05	Total Weather Adjusted Btu/GSF	Adjusted % Change From FY05
FY05	56,000	58,589	55,174	113,762	0.0%	100.0%	100.0%	113,762	0.0%
FY06	56,000	47,046	51,248	98,294	-13.6%	102.9%	98.8%	99,045	-12.9%
FY07	56,000	48,837	49,591	98,427	-13.5%	98.9%	99.7%	97,767	-14.1%
FY08	56,000	58,460	53,684	112,144	-1.4%	89.9%	99.9%	106,163	-6.7%
FY09	56,000	53,853	52,546	106,399	-6.5%	86.3%	99.7%	98,864	-13.1%
FY10	56,000	50,582	53,766	104,347	-8.3%	98.4%	100.7%	103,951	-8.6%
FY11	56,000	64,737	51,597	116,334	2.3%	99.1%	100.3%	115,900	1.9%
FY12	56,000	65,209	52,985	118,195	3.9%	113.6%	97.0%	125,452	10.3%
FY13	56,000	78,796	61,133	139,929	23.0%	98.4%	101.3%	139,423	22.6%
FY14	56,000	69,321	54,971	124,292	9.3%	100.3%	101.5%	125,295	10.1%
FY15	56,000	49,730	46,348	96,078	-15.5%	94.8%	100.4%	93,670	-17.7%
FY16	56,000	36,047	44,346	80,393	-29.3%	105.7%	98.8%	81,903	-28.0%



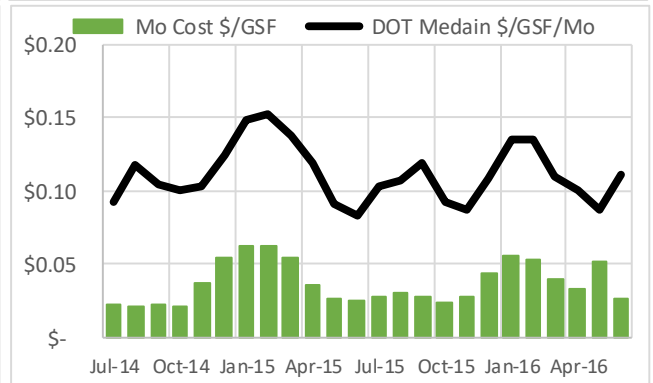
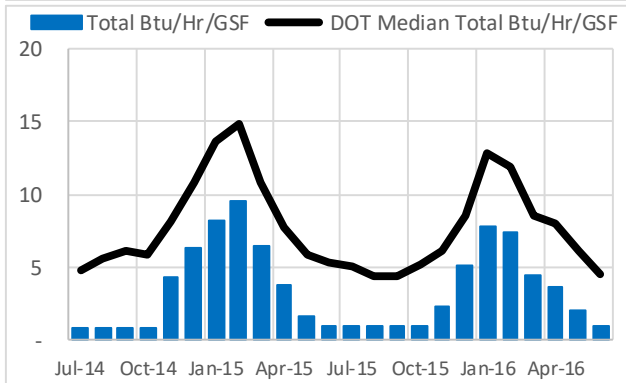
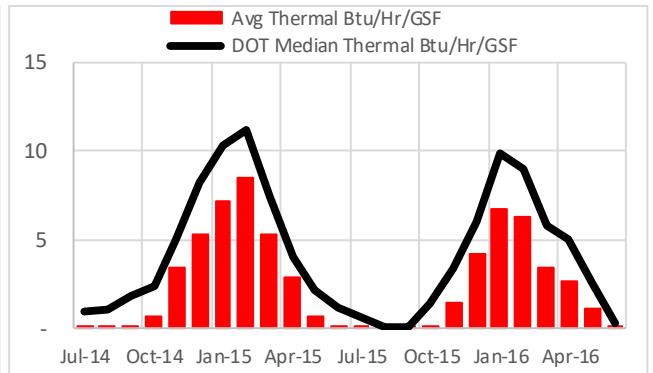
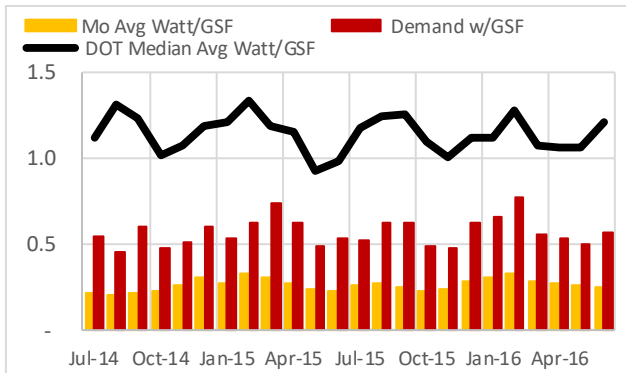
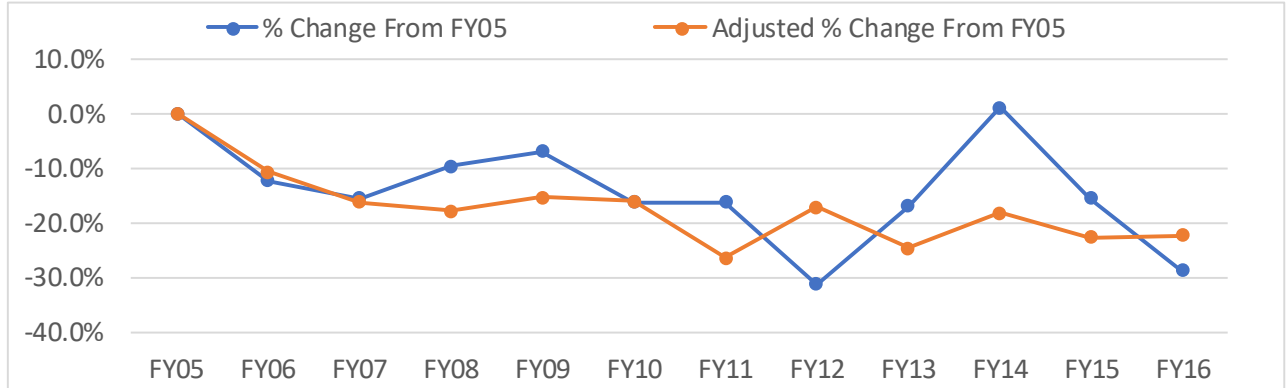
### Fiscal Year 2016 State Facilities Energy Report - DOT\_Green Bay

Electric kwh/GSF = 14.36		Therm/GSF = 0.64		Total Btu/GSF = 113,520					
Electric \$/GSF = \$ 1.27		Thermal \$/GSF = \$ 0.32		Energy \$/GSF = \$ 1.59					
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05	Weather Thermal Adjusted to FY05	Weather Electric Adjusted to FY05	Total Weather Adjusted Btu/GSF	Adjusted % Change From FY05
FY05	40,515	84,100	54,819	138,919	0.0%	100.0%	100.0%	138,919	0.0%
FY06	40,515	60,540	58,017	118,557	-14.7%	105.3%	99.4%	121,452	-12.6%
FY07	40,515	51,120	54,837	105,957	-23.7%	105.5%	99.5%	108,494	-21.9%
FY08	40,515	51,929	55,786	107,715	-22.5%	97.8%	100.0%	106,533	-23.3%
FY09	40,515	50,581	51,556	102,138	-26.5%	96.6%	99.7%	100,299	-27.8%
FY10	40,515	43,754	47,216	90,970	-34.5%	103.0%	100.1%	92,297	-33.6%
FY11	40,515	53,998	49,240	103,237	-25.7%	93.8%	100.3%	100,023	-28.0%
FY12	40,515	44,727	48,357	93,083	-33.0%	123.2%	97.3%	102,142	-26.5%
FY13	40,515	70,221	50,531	120,753	-13.1%	97.8%	100.3%	119,373	-14.1%
FY14	40,515	75,866	48,323	124,189	-10.6%	90.2%	100.2%	116,872	-15.9%
FY15	40,515	73,473	46,114	119,587	-13.9%	97.4%	100.7%	117,958	-15.1%
FY16	40,515	64,494	49,026	113,520	-18.3%	109.7%	99.9%	119,685	-13.8%



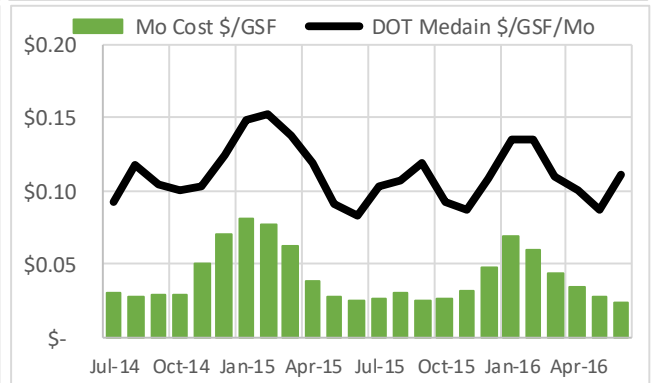
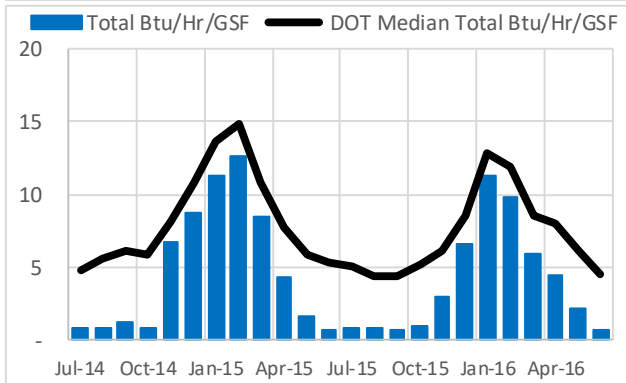
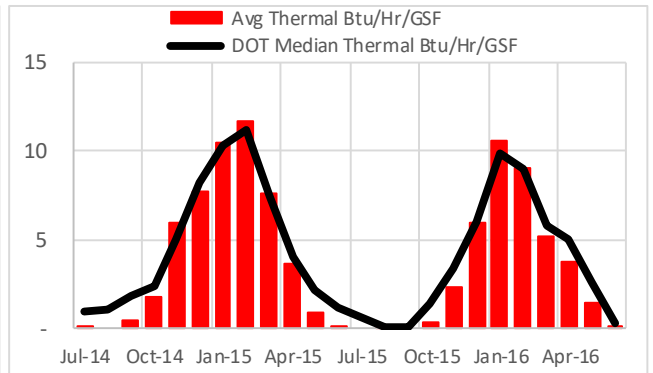
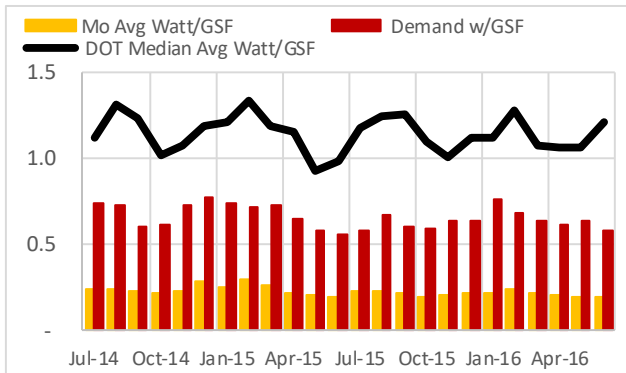
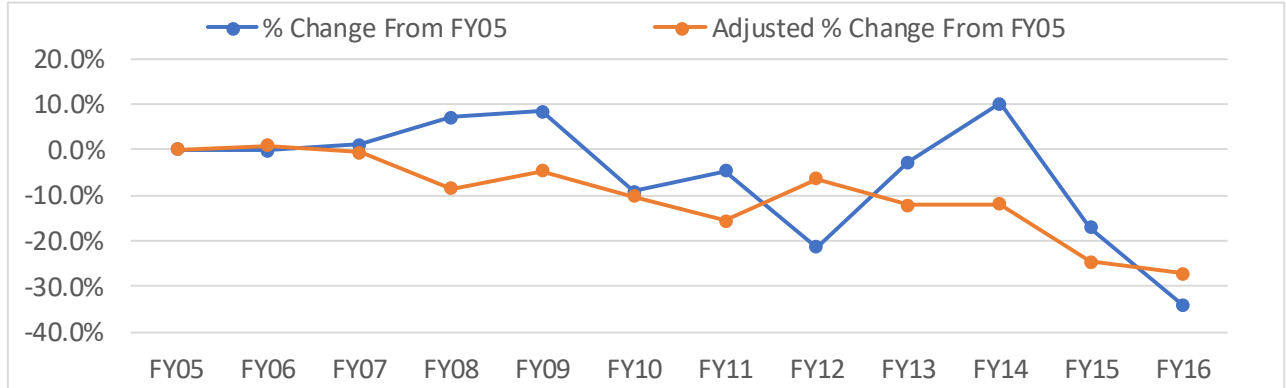
### Fiscal Year 2016 State Facilities Energy Report - DOT\_PIERSTORFF A

Electric kwh/GSF =		2.37		Therm/GSF =		0.19		Total Btu/GSF =		27,348	
Electric \$/GSF =		\$ 0.34		Thermal \$/GSF =		\$ 0.11		Energy \$/GSF =		\$ 0.45	
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05	Weather Thermal Adjusted to FY05	Weather Electric Adjusted to FY05	Total Weather Adjusted Btu/GSF	Adjusted % Change From FY05		
FY05	51,700	21,820	16,593	38,413	0.0%	100.0%	100.0%	38,413	0.0%		
FY06	51,700	17,874	15,805	33,679	-12.3%	103.7%	99.6%	34,265	-10.8%		
FY07	51,700	17,292	15,116	32,409	-15.6%	98.8%	99.7%	32,154	-16.3%		
FY08	51,700	19,546	15,136	34,681	-9.7%	84.1%	99.8%	31,553	-17.9%		
FY09	51,700	21,049	14,688	35,737	-7.0%	84.6%	99.9%	32,491	-15.4%		
FY10	51,700	25,076	7,050	32,126	-16.4%	100.4%	99.8%	32,208	-16.2%		
FY11	51,700	26,493	5,634	32,127	-16.4%	86.0%	96.6%	28,235	-26.5%		
FY12	51,700	20,825	5,595	26,420	-31.2%	124.8%	104.1%	31,812	-17.2%		
FY13	51,700	26,236	5,630	31,866	-17.0%	89.2%	98.3%	28,934	-24.7%		
FY14	51,700	32,906	5,943	38,850	1.1%	77.6%	98.7%	31,389	-18.3%		
FY15	51,700	24,705	7,718	32,423	-15.6%	89.2%	98.7%	29,665	-22.8%		
FY16	51,700	19,248	8,100	27,348	-28.8%	112.3%	100.9%	29,797	-22.4%		



### Fiscal Year 2016 State Facilities Energy Report - DOT\_PIERSTORFF B

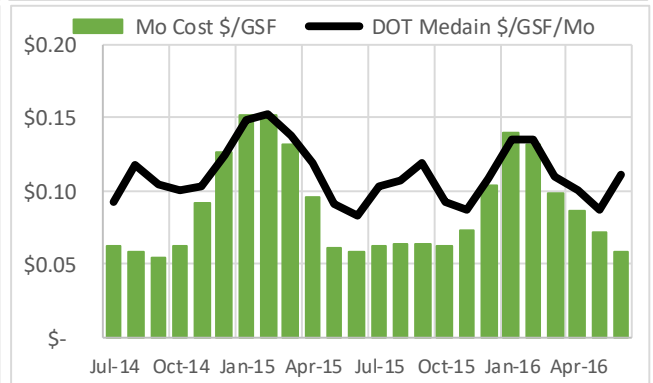
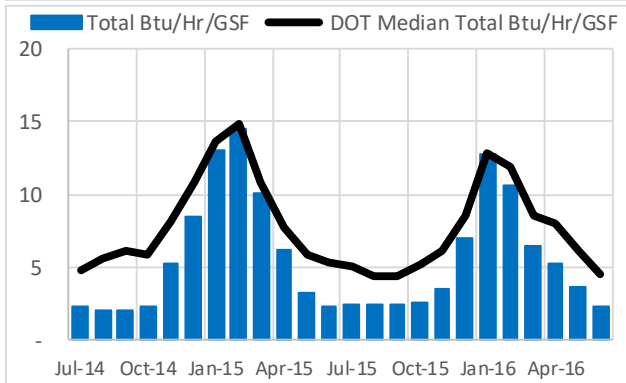
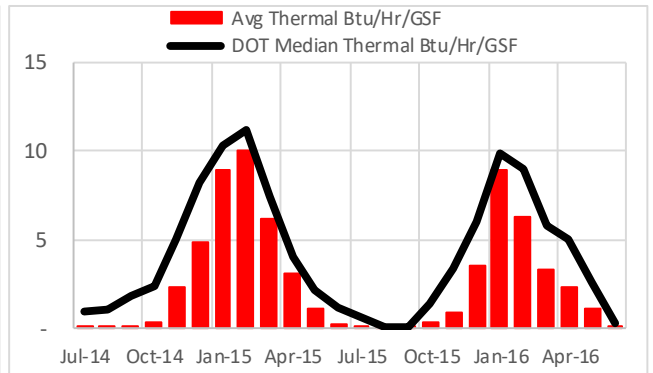
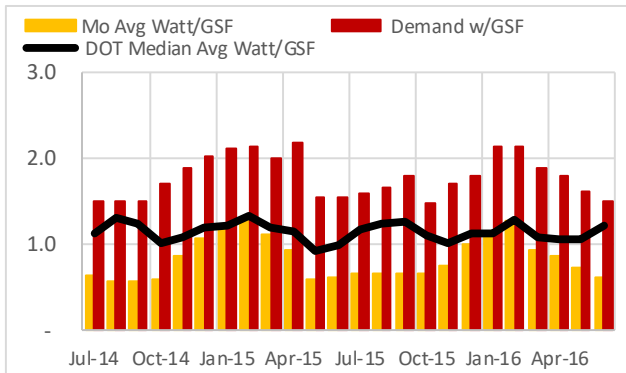
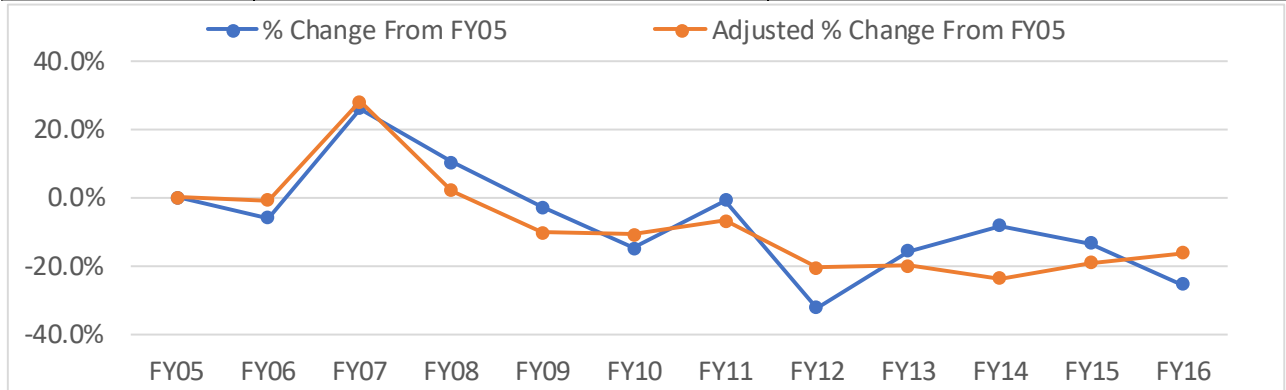
Electric kwh/GSF = 1.87		Therm/GSF = 0.28		Total Btu/GSF = 34,587					
Electric \$/GSF = \$ 0.29		Thermal \$/GSF = \$ 0.16		Energy \$/GSF = \$ 0.45					
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05	Weather Thermal Adjusted to FY05	Weather Electric Adjusted to FY05	Total Weather Adjusted Btu/GSF	Adjusted % Change From FY05
FY05	51,200	34,005	18,471	52,477	0.0%	100.0%	100.0%	52,477	0.0%
FY06	51,200	34,105	18,312	52,417	-0.1%	101.9%	99.5%	52,956	0.9%
FY07	51,200	34,785	18,313	53,099	1.2%	97.6%	99.6%	52,175	-0.6%
FY08	51,200	38,093	18,159	56,252	7.2%	78.8%	98.9%	47,962	-8.6%
FY09	51,200	38,795	18,057	56,852	8.3%	82.5%	99.8%	50,039	-4.6%
FY10	51,200	37,770	9,926	47,697	-9.1%	98.2%	100.5%	47,063	-10.3%
FY11	51,200	41,260	8,743	50,003	-4.7%	86.6%	97.5%	44,276	-15.6%
FY12	51,200	33,145	8,074	41,219	-21.5%	123.5%	101.0%	49,092	-6.5%
FY13	51,200	42,499	8,561	51,060	-2.7%	89.0%	96.7%	46,087	-12.2%
FY14	51,200	49,041	8,731	57,772	10.1%	77.0%	97.3%	46,237	-11.9%
FY15	51,200	36,379	7,084	43,463	-17.2%	89.6%	98.3%	39,545	-24.6%
FY16	51,200	28,206	6,380	34,587	-34.1%	112.6%	100.3%	38,157	-27.3%





### Fiscal Year 2016 State Facilities Energy Report - DOT\_West Allis

Electric kwh/GSF = 7.24		Therm/GSF = 0.20		Total Btu/GSF = 44,676					
Electric \$/GSF = \$ 0.89		Thermal \$/GSF = \$ 0.13		Energy \$/GSF = \$ 1.02					
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05	Weather Thermal Adjusted to FY05	Weather Electric Adjusted to FY05	Total Weather Adjusted Btu/GSF	Adjusted % Change From FY05
FY05	31,980	36,295	23,744	60,039	0.0%	100.0%	100.0%	60,039	0.0%
FY06	31,980	32,195	24,132	56,327	-6.2%	108.6%	102.0%	59,580	-0.8%
FY07	31,980	50,579	25,072	75,651	26.0%	102.2%	100.2%	76,834	28.0%
FY08	31,980	40,839	25,348	66,187	10.2%	89.3%	97.4%	61,149	1.8%
FY09	31,980	33,075	25,241	58,316	-2.9%	88.5%	97.5%	53,866	-10.3%
FY10	31,980	27,579	23,516	51,095	-14.9%	107.5%	101.1%	53,433	-11.0%
FY11	31,980	32,339	27,234	59,573	-0.8%	90.7%	97.6%	55,913	-6.9%
FY12	31,980	16,838	23,700	40,538	-32.5%	131.4%	107.3%	47,570	-20.8%
FY13	31,980	24,686	25,839	50,525	-15.8%	92.0%	97.8%	47,981	-20.1%
FY14	31,980	29,461	25,651	55,111	-8.2%	74.4%	93.1%	45,789	-23.7%
FY15	31,980	27,069	24,883	51,952	-13.5%	90.4%	96.3%	48,431	-19.3%
FY16	31,980	19,962	24,713	44,676	-25.6%	123.1%	103.7%	50,195	-16.4%



# Agency Energy Use Summary

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## SCOPE

Wisconsin Housing and Economic Development Authority (WHEDA) facility located at 201 West Washington Avenue, Madison

## ENERGY CONSUMPTION

**Total Change from Base - Weather Adjusted: 5 percent increase.**

Energy use (BTU/GSF/Yr) for FY16 was 5 percent higher than in the base fiscal year, FY05.

**Latest Year Change - Weather Adjusted: 5.5 percent decrease.**

Energy use (BTU/GSF/Yr) for FY16 decreased 5.5 percent from the previous fiscal year.

***Average Annual Change - Weather Adjusted: 0.5 percent increase per year.***

On average, energy use (BTU/GSF/Yr) has increased 0.5 percent since the base year, FY05.

## GSF AND CONSUMPTION STATISTICS

***GSF Change from Base: 0 percent.***

Gross square footage has not changed from the base fiscal year, FY05.

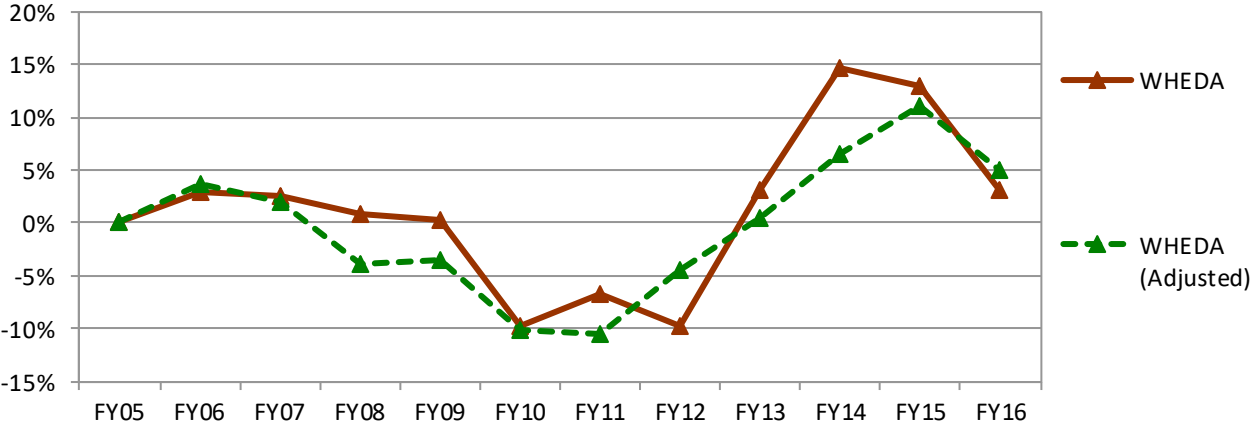
***Consumption Change from Base: 3.1 percent increase.***

Total consumption was 3.1 percent greater when compared to FY05. Total energy (million BTU) purchases in FY16 were 5 percent greater than in the base year when adjusted for weather compared to FY05.

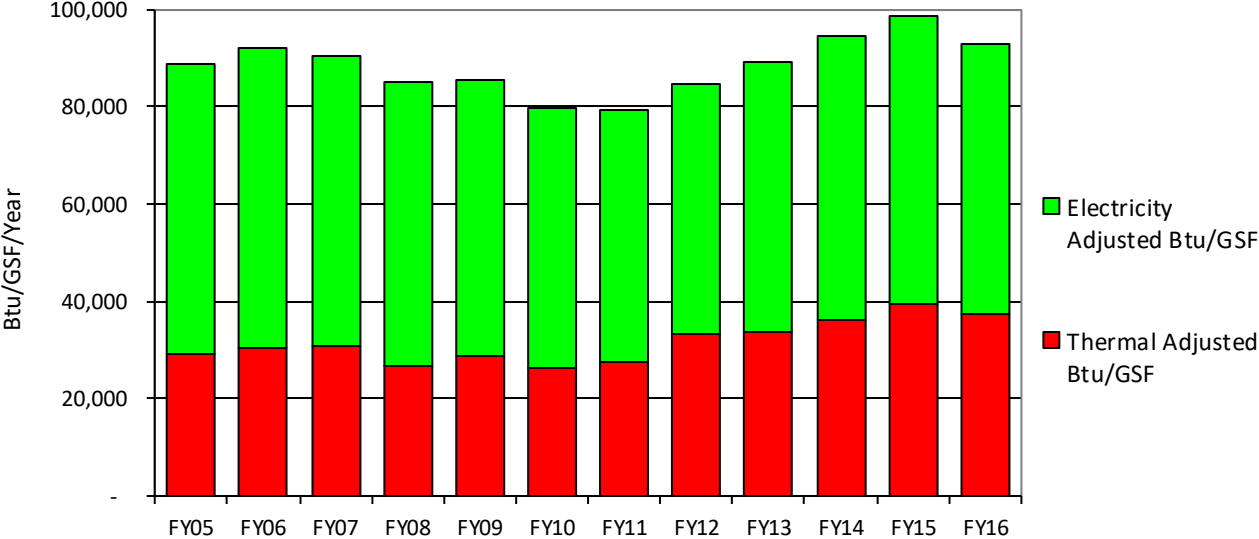
***Fuel & Utility Cost Breakdown for WHEDA is not available.***

Wisconsin Housing and Economic Development Authority									
WHEDA									
Fiscal Year	GSF	BTU/GSF				Weather-Adjusted			
		Thermal	Electricity	Total	% Change From FY05	Thermal Adjusted to FY05	Electric Adjusted to FY05	Total Adjusted Btu/GSF	Adjusted % Change From FY05
FY05	161,000	29,345	59,362	88,707	0.0%	100.0%	100.0%	88,707	0.0%
FY06	161,000	29,288	61,924	91,212	2.8%	103.9%	99.3%	91,927	3.6%
FY07	161,000	31,373	59,636	91,008	2.6%	98.5%	99.9%	90,506	2.0%
FY08	161,000	30,620	58,762	89,382	0.8%	87.2%	99.6%	85,238	-3.9%
FY09	161,000	31,998	56,931	88,929	0.2%	89.4%	99.9%	85,493	-3.6%
FY10	161,000	26,752	53,209	79,961	-9.9%	98.1%	100.4%	79,649	-10.2%
FY11	161,000	30,669	52,111	82,780	-6.7%	90.1%	99.3%	79,386	-10.5%
FY12	161,000	27,589	52,490	80,079	-9.7%	120.3%	98.1%	84,680	-4.5%
FY13	161,000	35,656	55,769	91,424	3.1%	94.6%	99.4%	89,177	0.5%
FY14	161,000	42,798	58,910	101,708	14.7%	84.8%	98.9%	94,557	6.6%
FY15	161,000	41,017	59,217	100,234	13.0%	96.1%	99.8%	98,524	11.1%
FY16	161,000	35,399	56,026	91,425	3.1%	105.5%	99.6%	93,136	5.0%

Percent Change from Base (BTU/GSF)

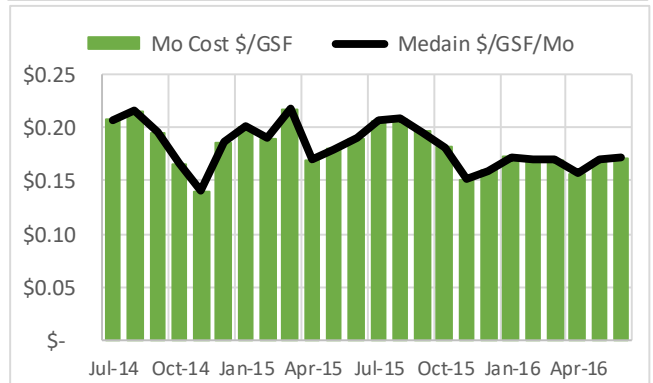
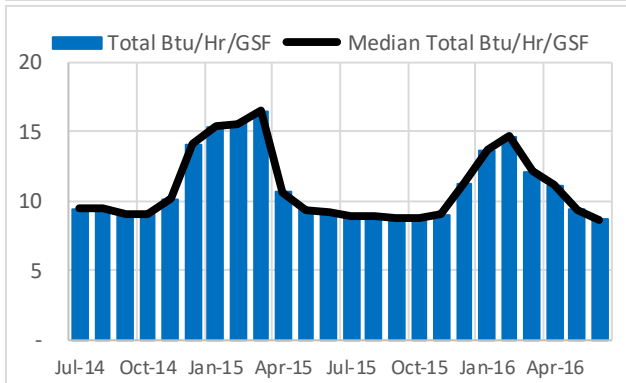
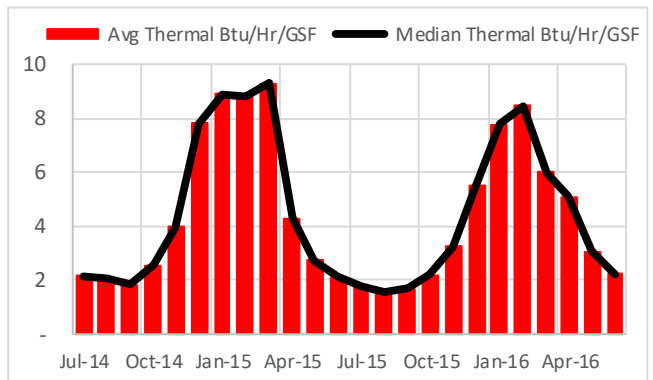
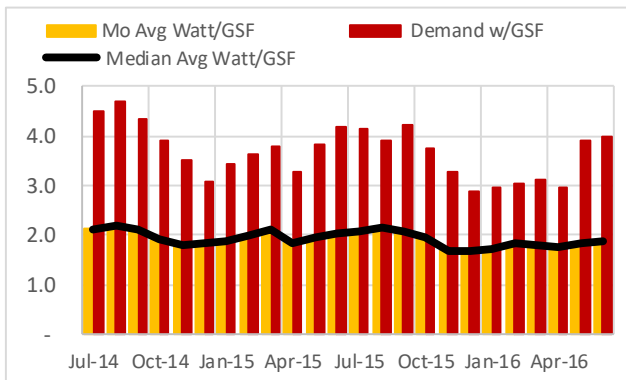
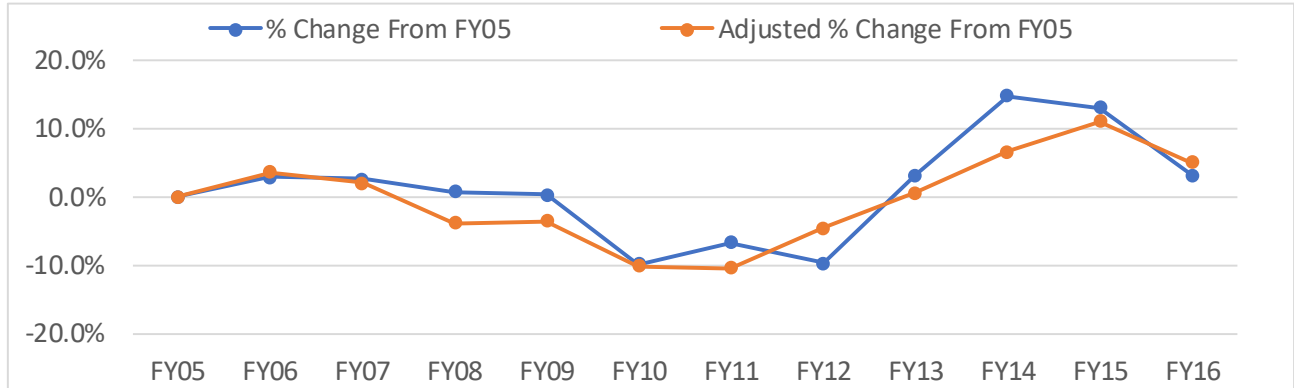


Wisconsin Housing and Economic Development Authority (BTU/GSF)



### Fiscal Year 2016 State Facilities Energy Report - WHEDA Total

Electric kwh/GSF = 16.42		Therm/GSF = 0.35		Total Btu/GSF = 91,425					
Electric \$/GSF = \$ 1.94		Thermal \$/GSF = \$ 0.18		Energy \$/GSF = \$ 2.11					
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05	Weather Adjusted Thermal to FY05	Weather Adjusted Electric to FY05	Total Weather Adjusted Btu/GSF	Adjusted % Change From FY05
FY05	161,000	29,345	59,362	88,707	0.0%	100.0%	100.0%	88,707	0.0%
FY06	161,000	29,288	61,924	91,212	2.8%	103.9%	99.3%	91,927	3.6%
FY07	161,000	31,373	59,636	91,008	2.6%	98.5%	99.9%	90,506	2.0%
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# Benchmarking, Tracking and Managing Energy Use

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Buildings that consistently benchmark energy performance save energy. The most common energy performance benchmarks are based on Btu energy use per Gross Square Feet (GSF) building area to measure the year-to-year changes in energy use and conservation efforts. Monitored building energy consumption is broken down into two categories:

- 1) Electricity, which represents total purchased and central plant co-generated electricity; and
- 2) Thermal or Fossil Fuel, which includes gas, oil, propane, coal, etc.

Energy consumption in these categories is monitored through coordination of monthly utility billings and energy consumption reports. All forms of energy consumption are converted to units of Btu/GSF/year. The conversion also removes any variation in energy use over time caused by changes in the size of an individual facility. Electricity consumption is converted from metered kWh to Btu/GSF/Year by multiplying the total fiscal year metered kWh of electricity by 3,413 (Btu/kwh standard conversion factor), and then dividing the resulting number by the gross square footage (GSF) of serviced building area. Fossil fuel energy use is converted to units of Btu/GSF/Year by dividing the Btu value of the fossil fuel category energy consumption by the gross square footage of serviced building area.

Weather has a significant impact upon energy consumption and should be considered when evaluating efficiencies. Annual heating and cooling degree days can change dramatically from location to location and year to year. Such changes can significantly impact the demand upon heating and cooling systems of a facility.

Site and Source Energy Use Intensity (EUI) - Site EUI may be familiar with from your bills. Site EUI contains a mixture of what is called primary energy (i.e., a raw fuel like natural gas) and secondary energy (i.e., a converted product like electricity or district steam). Source energy provides the most equitable way to combine primary and secondary energy types into a single common unit, ensuring that no building receives either a credit or a penalty based on its energy source or utility.

The annual State Energy Report Site Energy Use Intensity (EUI) monthly/annual measures and benchmarks include:

- Fiscal Year Electricity Use (BTU/GSF/YR) - rate of electricity use with 3413 BTU per kWh conversion factor for the fiscal year, Fiscal Year 2017 (FY2017) July 1, 2016 through June 30, 2017.
- Fiscal Year Fossil Fuel Use (BTU/GSF/YR) - rate of fossil fuel use for the 2017 fiscal year.
- FY17 Total Energy Use (BTU/GSF/YR) - rate of energy use data for the 2017 fiscal year.
- Latest Year Percent Change - the percent change in energy consumption from fiscal year 2016 to fiscal year 2017.
- Base Year Energy Use (BTU/GSF/YR) - rate of energy use for the base fiscal year FY2005.
- GSF (Gross Square Feet) - values used represent monitored gross square footage present on the last day of the fiscal year. GSF data were receive from the agencies.
- Electricity (BTU/GSF/YR) - values were obtained by multiplying kWh of purchased electricity by 3,413 Btu/kWh (a standard conversion factor) and then dividing by GSF. This value includes electricity cogenerated on site at the following facilities: Green Bay

Correctional, Waupun Correctional, Mendota Mental Health Institute, Winnebago Mental Health Institute and UW-Madison.

- Fossil Fuel (BTU/GSF/YR) - values were obtained by dividing the fossil fuel energy use (Btu) by the gross square feet (GSF) for the indicated year. Fossil Fuel includes: natural gas, fuel oil, coal, purchased steam, wood and paper pellets. This energy is used for heating, cooling and adjusted for cogenerating electricity, depending upon the energy systems used in the facility.
- Total BTU/GSF/YR - sum of the fossil fuel (Btu/GSF/Yr) and the electricity (Btu/GSF/Yr).
- % Change from Base - percentage change in the Total Btu/GSF/Yr for FY2017 from Total Btu/GSF/Yr of the base year, FY2005.
- Electric kwh/GSF = electricity energy use (kwh) per building area gross square feet (GSF).
- Electric Watt/GSF = electric power (1000 watt = 1 kw) per building GSF.
- Therm/GSF = thermal energy use (therm = 100,000 Btu) per building area GSF.
- Total Btu/GSF = total energy use (Btu) per building area GSF.
- Energy \$/GSF = energy costs \$ per building area GSF.
- Energy Use Intensity = EUI per ft<sup>2</sup> = Gross Square Feet (GSF) building area; kBtu = 1000 Btu; kwh = 1000 watt hours; and therm = 100,000 Btu.

Energy consumption rates are calculated using end-of-year GSF values. Therefore, if the total monitored gross square footage of a facility changes during the fiscal year, values for the rates of energy consumption will not be 100% accurate. The numbers become less accurate as the magnitude of the GSF change increases and the date of the change falls nearer the end of the fiscal year.

Annual EUI Benchmarks and Monthly Assessments - multiple year trends and comparisons to measure and identify potential savings with goals:

- Reduce weather adjusted energy use and costs year-to-year.
- Identify changes in energy use and costs.
- Evaluate energy use changes: 1) Results from Energy Conservation Measures; 2) Changes in Building Occupancy and Schedules; and/or 3) Changes in Building System Operation, Equipment Schedules; Controls or Set-Points.
- Recommendations for Improvements with Metering and Verification.

Electric Demand - Electric Demand is the rate of using electricity. For most commercial buildings, demand is measured in kilowatts (kW). Utilities measure the highest rate of using electricity each billing cycle in order to adequately size the generation, transmission and distribution capacity required to provide energy to each customer. The utility then recoups these costs by billing based on highest measured demand, and when that demand occurs relative to when the utility experiences peak demand on their system.

NOTE: Several external factors should be considered when viewing this data. External factors include: weather, space use, hours of occupancy, number of occupants, available maintenance funds, differences in facility design, number of plant and maintenance staff, and conservation funds allocated to the site.

*Electric kwh/GSF = electricity energy use (kwh) per building area gross square feet per year.*

*Therm/GSF = thermal energy use (therm = 100,000 Btu) per building area gross square feet per year.*

*Total Btu/GSF = total energy use (Btu) per building area gross square feet per year.*

Fiscal Year 2016 State Facilities Energy Report - State Agency Total					
Electric kwh/GSF =	13.51	Therm/GSF =	1.11	Total Btu/GSF =	157,472
Electric \$/GSF =	\$ 1.20	Thermal \$/GSF =	\$ 0.44	Energy \$/GSF =	\$ 1.64

*Electric \$/GSF = electric cost per building area gross square feet per year.*

*Thermal \$/GSF = thermal energy cost per building area gross square feet per year.*

*Energy \$/GSF = total energy cost per building area gross sq. feet per year.*

*Fiscal Year – period from July 1<sup>st</sup> through July 31<sup>st</sup>. Fiscal Year 2005 (FY05) base July 1, 2004 through July 31, 2005.*

*Gross Square Feet (GSF) – monitored building area gross square footage on last day of the fiscal year.*

*Site Thermal Btu/GSF - fossil fuel energy use (Btu) divided by the gross square feet (GSF) for the indicated year.*

Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05	Weather Thermal Adjusted to FY05	Weather Electric Adjusted to FY05	Total Weather Adjusted Btu/GSF	Adjusted % Change From FY05
FY05	64,904,994	148,411	49,729	198,140	0.0%	100.0%	100.0%	198,140	0.0%
FY06	65,557,377	144,841	51,120	195,961	-1.1%	101.5%	99.4%	197,805	-0.2%
FY07	66,603,743	141,986	50,722	192,708	-2.7%	99.7%	99.8%	192,208	-3.0%
FY08	67,798,147	146,081	50,656	196,737	-0.7%	95.0%	99.5%	189,229	-4.5%
FY09	68,281,718	139,973	49,501	189,474	-4.4%	94.6%	100.0%	181,969	-8.2%
FY10	68,089,730	133,659	49,205	182,864	-7.7%	99.0%	100.3%	181,653	-8.3%

*Site Electricity Btu/GSF – electric energy use (Btu) divided by the gross square feet (GSF) for the fiscal year.*

*Site Total Btu/GSF – total energy use (Btu) divided by the gross square feet (GSF) for the fiscal year.*

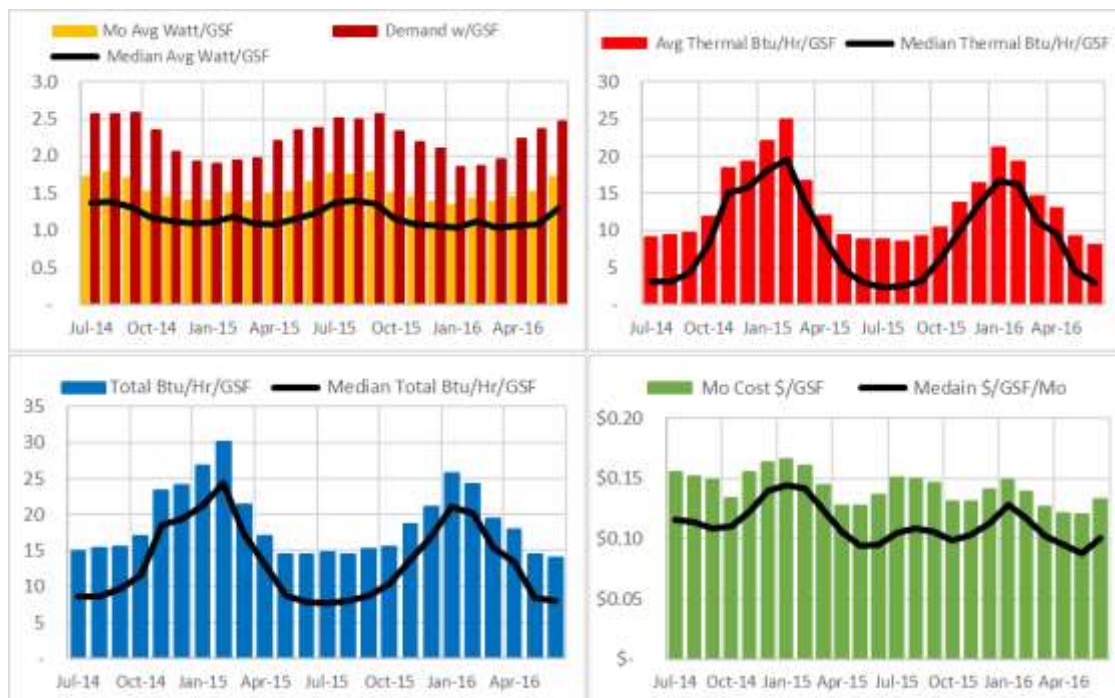
*Percent change from FY2005 Base with and without weather adjustments.*

Trend in site total energy use gross square feet (GSF) change from fiscal year 2005 baseline.



Below describe the monthly three year's monthly benchmarks and profiles presented below & herein:

- Monthly Electric Energy Use Average Watt per Gross Square Foot.
- Monthly Electric Demand Watt per Gross Square Foot.
- Monthly Agency Electric Median Average Watt per Gross Square Feet.
- Monthly Average Thermal Btu per Hour per Gross Square Feet.
- Monthly Agency Median Thermal Btu per Hour per Gross Square Feet.
- Monthly Total Energy Btu per Hour per Gross Square Feet.
- Monthly Agency Median Total Energy Btu per Hour per Gross Square Feet.
- Monthly Total Energy Cost per Hour per Gross Square Feet.
- Monthly Agency Median Total Energy Cost per Gross Square Feet.





## Facilities Energy Use Performance

Buildings with different functions and operating schedules have significantly different levels of energy use.

Examples:

The State Lab of Hygiene is a very highly ventilated laboratory space requiring 24/7 laboratory exhaust and supply to maintain safe operating conditions.

### FY16 State Lab of Hygiene:

Building Area Gross Square Foot (GSF) = 160,344

Heating Energy Use = 196523 BTU per GSF

Electrical Energy Use = 141472 BTU per GSF

***Total Rate of Energy Use = 337996 BTU per GSF***

The DNR Northeast Regional Headquarters office in Green Bay and the DOA Green Bay State Office Building Have some of the lowest energy use per square foot of all the State of Wisconsin office buildings.

### FY16 DNR Northeast Regional Headquarter:

Building Area Gross Square Foot (GSF) = 34,560

Heating Energy Use = 27640 BTU per GSF

Electrical Energy Use = 21836 BTU per GSF

***Total Rate of Energy Use = 49476 BTU per GSF***

### FY16 DOA Green Bay State Office Building:

Building Area Gross Square Foot (GSF) = 69,052

Heating Energy Use = 19149 BTU per GSF

Electrical Energy Use = 24227 BTU per GSF

***Total Rate of Energy Use = 43375 BTU per GSF***

### Facilities Energy Use Performance

Agency	Facility	FY2016 GSF	FY2016 Thermal Adjusted Btu/GSF/Yr	FY2016 Electric Adjusted Btu/GSF/Yr	FY2016 Total Adjusted Btu/GSF/Yr	FY2005 Total Adjusted Btu/GSF/Yr	FY2016 Weather Adjusted Change From FY05	FY2015 Total Adjusted Btu/GSF/Yr	FY2016 Weather Adjusted Change From FY15
UW	Eau Claire	2,634,457	81,661	28,881	110,543	149,148	-25.9%	109,806	0.7%
UW	Green Bay	1,386,055	82,237	37,723	119,960	174,522	-31.3%	124,000	-3.3%
UW	La Crosse	3,008,972	93,392	35,737	129,129	150,442	-14.2%	133,518	-3.3%
UW	Madison	23,274,382	155,173	66,470	221,643	294,776	-24.8%	230,294	-3.8%
UW	Milwaukee	5,279,687	93,680	40,433	134,112	171,927	-22.0%	135,195	-0.8%
UW	Oshkosh	3,259,189	85,461	30,416	115,877	136,452	-15.1%	117,077	-1.0%
UW	Parkside	1,262,322	99,382	38,175	137,557	146,123	-5.9%	137,637	-0.1%
UW	Platteville	2,244,485	90,463	30,263	120,726	139,216	-13.3%	121,604	-0.7%
UW	River Falls	1,769,312	77,552	23,428	100,979	124,558	-18.9%	97,469	3.6%
UW	Stevens Point	2,629,769	107,722	34,365	142,087	164,136	-13.4%	144,570	-1.7%
UW	Stout	2,452,414	78,096	30,881	108,977	113,062	-3.6%	104,233	4.6%
UW	Superior	1,120,382	114,298	32,537	146,835	162,010	-9.4%	139,588	5.2%
UW	Whitewater	2,942,875	89,652	38,707	128,359	145,867	-12.0%	129,650	-1.0%
UW	Baraboo	165,615	55,141	24,538	79,679	88,823	-10.3%	84,124	-5.3%
UW	Barron	146,683	66,574	22,827	89,401	93,920	-4.8%	84,662	5.6%
UW	Fond du Lac	194,077	44,192	17,240	61,432	94,053	-34.7%	61,020	0.7%
UW	Fox Valley	274,078	40,572	34,025	74,597	113,923	-34.5%	92,738	-19.6%
UW	Manitowoc	125,045	45,937	22,907	68,843	74,988	-8.2%	66,941	2.8%
UW	Marathon	327,695	56,095	25,459	81,554	119,478	-31.7%	91,292	-10.7%
UW	Marinette	107,988	83,948	21,593	105,541	131,496	-19.7%	105,720	-0.2%
UW	Marshfield	149,996	69,029	31,343	100,372	105,100	-4.5%	98,074	2.3%
UW	Richland	108,760	62,872	36,443	99,315	116,252	-14.6%	103,777	-4.3%
UW	Rock	191,592	52,552	17,910	70,463	73,445	-4.1%	71,999	-2.1%
UW	Sheboygan	200,918	54,554	35,470	90,024	102,754	-12.4%	115,716	-22.2%
UW	Washington	199,038	29,014	19,491	48,505	75,321	-35.6%	50,256	-3.5%
UW	Waukesha	277,016	56,603	25,989	82,592	94,752	-12.8%	63,858	29.3%
<b>UW Total</b>		<b>55,732,802</b>	<b>115,887</b>	<b>47,253</b>	<b>163,139</b>	<b>206,715</b>	<b>-21.1%</b>	<b>167,387</b>	<b>-2.5%</b>
DOA	Capitol Complex	2,013,307	48,850	39,387	88,236	169,826	-48.0%	87,317	1.1%
DOA	Hill Farms	644,904	109,299	52,491	161,790	185,875	-13.0%	148,920	8.6%
DOA	Air Services	17,898	103,409	15,960	119,369	115,262	3.6%	116,664	2.3%
DOA	Badger Road	50,842	49,203	37,877	87,080	107,943	-19.3%	87,760	-0.8%
DOA	Eau Claire SOB	56,206	42,444	25,610	68,055	77,936	-12.7%	74,686	-8.9%
DOA	Executive Residence	23,455	52,943	35,194	88,137	122,168	-27.9%	92,239	-4.4%
DOA	Green Bay SOB	69,206	22,098	24,422	46,520	57,083	-18.5%	47,459	-2.0%
DOA	La Crosse SOB	45,965	40,640	26,782	67,422	67,468	-0.1%	67,658	-0.3%
DOA	Milwaukee SOB	201,200	29,940	34,929	64,870	76,115	-14.8%	73,826	-12.1%
DOA	SE Crime Lab	43,935	76,641	92,611	169,252	120,490	40.5%	193,406	-12.5%
DOA	Public Broadcasting	48,246	122,241	110,268	232,509	258,351	-10.0%	213,681	8.8%
DOA	State Ag	118,011	40,202	32,815	73,017	90,538	-19.4%	74,056	-1.4%
DOA	State Hygiene Lab	160,344	208,657	137,543	346,200	473,969	-27.0%	360,488	-4.0%
DOA	State Revenue	247,224	26,587	33,820	60,407	134,734	-55.2%	74,848	-19.3%
DOA	Waukesha SOB	169,976	35,606	43,321	78,927	101,737	-22.4%	98,383	-19.8%
DOA	WI Rapids SOB	51,552	30,456	24,757	55,213	78,136	-29.3%	56,897	-3.0%
<b>DOA Total</b>		<b>3,962,271</b>	<b>62,565</b>	<b>45,401</b>	<b>107,966</b>	<b>159,496</b>	<b>-32.3%</b>	<b>108,398</b>	<b>-0.4%</b>

### Facilities Energy Use Performance

Agency	Facility	FY2016 GSF	FY2016 Thermal Adjusted Btu/GSF/Yr	FY2016 Electric Adjusted Btu/GSF/Yr	FY2016 Total Adjusted Btu/GSF/Yr	FY2005 Total Adjusted Btu/GSF/Yr	FY2016 Weather Adjusted Change From FY05	FY2015 Total Adjusted Btu/GSF/Yr	FY2016 Weather Adjusted Change From FY15
DOC	Columbia	330,807	72,599	50,335	122,935	162,805	-24.5%	122,292	0.5%
DOC	Boscobel	195,000	130,693	64,894	195,587	183,488	6.6%	187,061	4.6%
DOC	Fox Lake	533,407	155,843	36,924	192,767	189,382	1.8%	181,964	5.9%
DOC	Green Bay	453,750	143,727	32,895	176,622	178,856	-1.2%	183,855	-3.9%
DOC	Jackson	390,613	108,169	47,438	155,607	179,907	-13.5%	166,193	-6.4%
DOC	Kettle Moraine	361,612	157,933	44,792	202,725	194,910	4.0%	197,457	2.7%
DOC	Lincoln Hills	249,792	128,347	38,753	167,100	154,781	8.0%	177,510	-5.9%
DOC	Milwaukee Secure	413,011	56,492	35,929	92,421	88,479	4.5%	92,607	-0.2%
DOC	New Lisbon	316,878	132,629	64,703	197,332	224,158	-12.0%	185,553	6.3%
DOC	Oakhill	348,153	153,621	31,207	184,828	157,326	17.5%	186,238	-0.8%
DOC	Oshkosh	890,187	111,282	36,456	147,738	154,357	-4.3%	153,371	-3.7%
DOC	Prairie du Chien	383,100	85,662	15,620	101,282	121,679	-16.8%	96,485	5.0%
DOC	Racine	409,046	118,554	63,336	181,890	174,029	4.5%	171,353	6.1%
DOC	Racine Youth	207,697	65,087	32,715	97,802	123,239	-20.6%	94,713	3.3%
DOC	Redgranite	310,135	135,915	52,630	188,545	213,425	-11.7%	183,201	2.9%
DOC	Stanley	411,897	141,039	52,301	193,339	204,540	-5.5%	178,080	8.6%
DOC	Sturtevant	93,312	112,532	52,695	165,226	185,937	-11.1%	184,429	-10.4%
DOC	Taycheedah	380,940	75,912	34,633	110,546	118,910	-7.0%	112,057	-1.3%
DOC	Waupun	1,260,274	173,174	42,106	215,281	245,233	-12.2%	220,190	-2.2%
<b>DOC Total</b>		<b>7,939,611</b>	<b>125,940</b>	<b>42,158</b>	<b>168,098</b>	<b>178,489</b>	<b>-5.8%</b>	<b>167,613</b>	<b>0.3%</b>
DHS	Mendota	1,320,211	246,579	37,376	283,955	273,839	3.7%	261,471	8.6%
DHS	Northern Center	523,226	121,134	32,694	153,828	169,938	-9.5%	158,923	-3.2%
DHS	Sand Ridge	308,828	88,133	48,880	137,014	155,053	-11.6%	138,027	-0.7%
DHS	Southern Center	1,023,235	145,610	38,057	183,667	177,385	3.5%	178,379	3.0%
DHS	Winnebago	983,900	104,551	34,566	139,116	174,596	-20.3%	137,613	1.1%
<b>DHS Total</b>		<b>4,159,400</b>	<b>160,599</b>	<b>37,144</b>	<b>197,743</b>	<b>204,184</b>	<b>-3.2%</b>	<b>189,666</b>	<b>4.3%</b>
DPI	Delavan	244,979	76,570	23,683	100,253	101,462	-1.2%	99,839	0.4%
DPI	Janesville	196,204	79,838	15,614	95,451	93,680	1.9%	94,389	1.1%
<b>DPI Total</b>		<b>441,183</b>	<b>78,023</b>	<b>20,094</b>	<b>98,117</b>	<b>98,001</b>	<b>0.1%</b>	<b>97,415</b>	<b>0.7%</b>
DVA	King	733,728	138,133	47,149	185,282	197,411	-6.1%	173,116	7.0%
<b>DVA Total</b>		<b>733,728</b>	<b>138,133</b>	<b>47,149</b>	<b>185,282</b>	<b>197,411</b>	<b>-6.1%</b>	<b>173,116</b>	<b>7.0%</b>
WHEDA	Madison	161,000	37,346	55,789	93,136	88,707	5.0%	98,524	-5.5%
<b>WHEDA Total</b>		<b>161,000</b>	<b>37,346</b>	<b>55,789</b>	<b>93,136</b>	<b>88,707</b>	<b>5.0%</b>	<b>98,524</b>	<b>-5.5%</b>
DNR	Darwin Road	24,820	31,825	19,384	51,209	69,134	-25.9%	54,541	-6.1%
DNR	South Central	24,820	175,612	75,018	250,630	255,310	-1.8%	232,153	8.0%
DNR	SE Milwaukee	48,000	36,182	38,687	74,869	106,995	-30.0%	82,151	-8.9%
DNR	Green Bay	34,560	29,398	22,226	51,624			54,608	-5.5%
DNR	Tomahawk	36,741	46,622	21,681	68,302	75,049	-9.0%	74,253	-8.0%
<b>DNR Total</b>		<b>168,941</b>	<b>10,139</b>	<b>4,715</b>	<b>14,854</b>	<b>75,049</b>	<b>-80.2%</b>	<b>74,253</b>	<b>-80.0%</b>
DOT	DTD 1 Lab	43,000	106,409	66,535	172,944	246,311	-29.8%	178,897	-3.3%
DOT	DTD 1 Madison	56,000	38,096	43,807	81,903	113,762	-28.0%	93,670	-12.6%
DOT	Green Bay	40,515	70,731	48,954	119,685	138,919	-13.8%	117,958	1.5%
DOT	PIERSTORFF A	51,700	21,621	8,177	29,797	38,413	-22.4%	29,665	0.4%
DOT	PIERSTORFF B	51,200	31,754	6,403	38,157	52,477	-27.3%	39,545	-3.5%
DOT	West Allis	31,980	24,565	25,630	50,195	60,039	-16.4%	48,431	3.6%
<b>DOT Total</b>		<b>274,395</b>	<b>47,755</b>	<b>32,317</b>	<b>80,073</b>	<b>106,355</b>	<b>-24.7%</b>	<b>83,181</b>	<b>-3.7%</b>
<b>Grand Total</b>		<b>73,573,331</b>	<b>116,061</b>	<b>45,801</b>	<b>161,862</b>	<b>198,484</b>	<b>-18.5%</b>	<b>164,474</b>	<b>-1.6%</b>

## Appendix A - Weather Adjustments and Degree Days for Selected Locations

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### EXPLANATION:

A degree-day is a unit of measure representing one degree of declination from 65°F in the mean daily outdoor temperature. It is simply a way of measuring how hot or cold it has been over a 24-hour period. Whenever the average (or mean) temperature is below 65 degrees Fahrenheit, you have a heating degree day. Whenever the average is above 65 degrees Fahrenheit, you have a cooling degree day.

If in a 24-hour period the high outside temperature was 70 degrees and the low was 50 degrees, then the mean temperature for that day was 60 degrees - halfway between 70 and 50 degrees. This is 5 degrees less than the base temperature of 65. Therefore, we can say that there was 5 heating degree days (HDD) for the period.

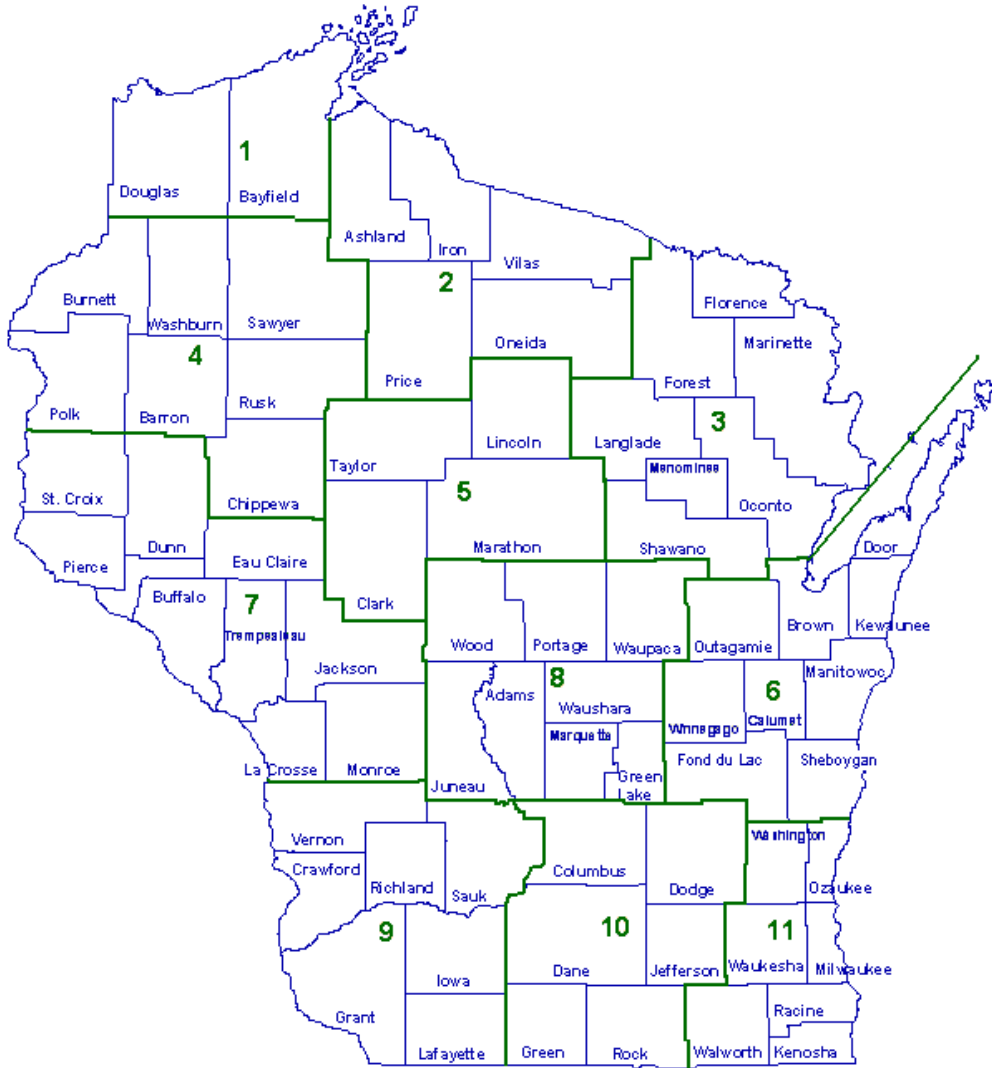
If in a 24-hour period the high outside temperature was 80 degrees and the low was 60 degrees, then the mean temperature for that day was 70 degrees - halfway between 60 and 80 degrees. This is 5 degrees more than the base temperature of 65. Therefore, we can say that there was 5 cooling degree days (CDD) for the period.

There is a direct relationship between heating degree days and the amount of energy required to heat a residence. As HDD increases, the fuel bills to heat a typical building will also likely increase. The opposite is true for CDD. Once the daily average temperature is above 65°, homes start using air conditioning. Higher cooling degree days mean the air conditioner stays on longer to keep the occupant comfortable resulting in higher cooling costs.

Similar to a modified degree day methodology, weather adjustments were based on polynomial equation curve fits of thermal and electric energy use versus mean monthly temperatures curve fit “models” to determine the weather adjustment factors. A widely used statistic to gage the goodness-of-fit of the model is the coefficient of determination  $R^2$ . A value of  $R^2 = 1$  indicates a perfect correlation between actual data and the regression equation; a value of  $R^2 = 0$  indicates no correlation. As a rule of thumb the value of  $R^2$  should never be less than 0.75. In general, the thermal energy use for winter heating resulted in good correlation with  $R^2$  greater than 0.90 while electric energy use correlation did not correlate as well with  $R^2$  around 0.75. However, the weather-adjusted electric factors were small and did not significantly impact overall weather-adjustments.

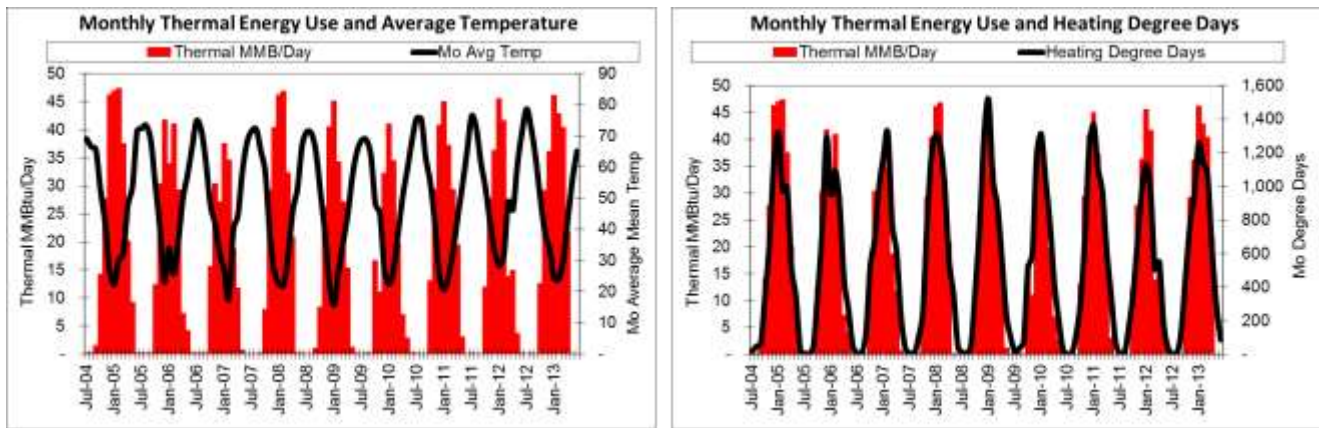
Degree-day and daily mean temperature data were obtained from the Division of Energy’s Heating, Cooling and Growing Degree Days website at <http://www.doa.state.wi.us/degreedays/>.

Heating and cooling degree day zone summaries are available for eleven geographic areas in Wisconsin that experience very similar temperatures throughout the year. The following table depicts the weather stations used for zone reporting. Notice that Zone 3 is an average of both Rhinelander which is inland, and Green Bay on the shores of Lake Michigan. (Zone 3 does not have good full-time weather stations and is influenced by both cold inland temperatures and maritime weather from Lake Superior and Lake Michigan).

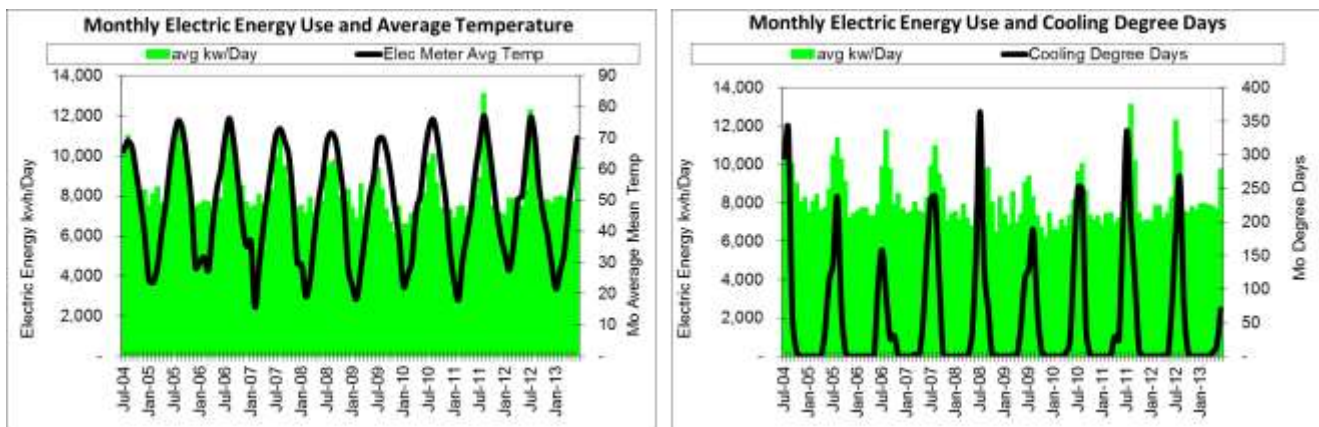


Zone	Weather Station
1	Ashland
2	Rhinelander
3	Rhinelander / Green Bay
4	Spooner
5	Marshfield
6	Green Bay
7	Eau Claire
8	Hancock
9	Lancaster
10	Madison
11	Milwaukee

The relationships between thermal energy use to degree days and temperatures for a sample facility (DOA-Milwaukee State Office Building) are shown graphically below:



The relationships between electric energy use to degree days and temperatures for a sample facility (DOA-Milwaukee State Office Building) are shown graphically below:



As can be seen above, close to 100% of thermal energy is dependent on weather for winter space heating. However, approximately 10% of electric use is dependent on weather and varies with summer temperature for air conditioning building cooling. The ratio of annual Wisconsin heating degree day comparisons to FY2005 base year provide an indication of anticipated weather adjustments for a building's thermal energy:

**Heating Degree Days 65 Degree Base Compared to FY2005**

	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6	Zone 7	Zone 8	Zone 9	Zone 10	Zone 11	State HDD
FY05	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
FY06	93%	93%	93%	91%	95%	94%	93%	95%	99%	99%	94%	95%
FY07	96%	101%	99%	104%	100%	97%	100%	98%	104%	104%	100%	100%
FY08	104%	110%	108%	115%	111%	106%	113%	109%	115%	112%	105%	108%
FY09	107%	112%	112%	117%	108%	112%	114%	112%	112%	113%	107%	111%
FY10	94%	97%	97%	106%	94%	97%	100%	100%	105%	103%	96%	98%
FY11	103%	107%	108%	116%	105%	108%	112%	113%	107%	110%	105%	108%
FY12	85%	96%	91%	91%	87%	84%	88%	86%	83%	87%	85%	86%
FY13	106%	116%	111%	117%	108%	105%	112%	111%	107%	109%	105%	108%
FY14	115%	129%	124%	130%	121%	120%	124%	122%	122%	121%	119%	121%
FY15	102%	119%	113%	114%	107%	107%	110%	110%	111%	111%	110%	110%
Norm	103%	107%	107%	112%	103%	108%	107%	108%	108%	110%	106%	107%

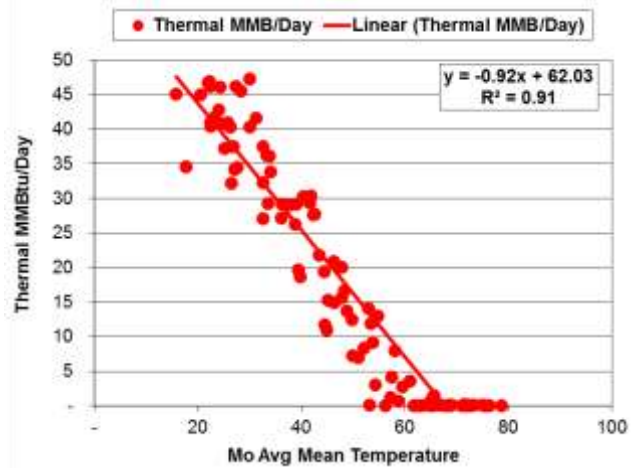
The ratio of annual Wisconsin cooling degree day comparisons to FY2005 base year provide an indication of anticipated weather adjustments for approximately 10% of a building's electrical energy:

**Cooling Degree Days 65 Degree Base Compared to FY2005**

	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6	Zone 7	Zone 8	Zone 9	Zone 10	Zone 11	State CDD
FY05	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
FY06	151%	160%	135%	162%	137%	119%	147%	135%	133%	128%	145%	137%
FY07	212%	146%	131%	154%	130%	121%	151%	137%	131%	118%	131%	130%
FY08	163%	114%	114%	107%	107%	115%	107%	113%	113%	116%	123%	117%
FY09	110%	89%	95%	101%	97%	100%	95%	93%	87%	97%	105%	100%
FY10	78%	62%	63%	66%	77%	62%	66%	68%	69%	72%	93%	78%
FY11	167%	123%	124%	107%	136%	127%	126%	118%	164%	139%	144%	136%
FY12	227%	122%	144%	135%	157%	160%	144%	150%	192%	163%	168%	162%
FY13	175%	87%	118%	131%	140%	140%	136%	146%	187%	157%	148%	147%
FY14	153%	87%	100%	114%	130%	108%	133%	113%	146%	128%	112%	118%
FY15	74%	28%	56%	69%	69%	71%	82%	65%	85%	93%	77%	78%
FY16	190%	85%	104%	105%	115%	117%	111%	104%	131%	120%	122%	119%
Norm	136%	99%	86%	94%	113%	84%	110%	100%	111%	96%	109%	102%

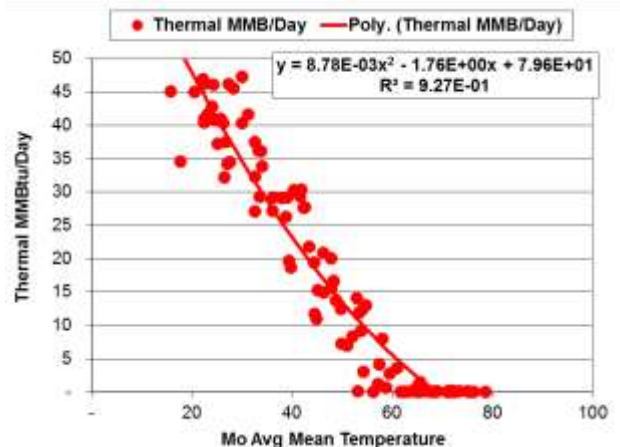
**Sample Weather Adjustment Calculation:**

To account for the facility's weather adjustment energy use, the relationship between monthly temperature and energy use were evaluated by graphing the energy use as a function of temperature and calculating the curve fit. The example results shown to the right indicate that no heating energy is required above 61.5 degrees (temperature curve intercept). The R-Squared ( $R^2$ ) is a statistical term saying how good one term is at predicting another. Note the  $R^2$  for this example is 0.91 close to 1.0 and good curve fit. For this example, if the temperature was 25 degrees in FY05 base year month and 20 degrees in FY16, the adjustment factor would be calculated as:



- FY05 Month Thermal Use =  $-0.92 * 25 + 62.03 = 39.03$  MMBtu/Day
- FY16 Month Thermal Use =  $-0.92 * 20 + 62.03 = 43.63$  MMBtu/Day
- FY16 Adjustment Factor =  $39.03/43.63 = 0.895$ , the FY13 adjustment multiplier
- FY16 Weather Adjusted Use =  $43.63 * 0.895 = 39.05$  MMBtu/Day or FY05 Base

Similar methodology was used for weather adjustments presented in this report, but were based on second order polynomial equation curve fit. The same data above is plotted with at left with second order polynomial curve fit with a somewhat better  $R^2$  than the linear equation in the above example. The weather-adjusted electric factors were small and did not significantly impact overall weather-adjustments.



## Appendix B - Historical Degree Days Data for Regional Stations



**Wisconsin Heating Degree Days**

Fiscal Year	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6	Zone 7	Zone 8	Zone 9	Zone 10	Zone 11	State HDD	Ratio to FY05
Normal	9,033	8,828	8,395	8,628	8,106	7,955	7,959	7,917	7,574	7,333	6,894	7,528	107%
FY96	10,282	10,027	9,379	9,420	8,608	8,571	9,046	8,608	8,459	8,164	7,660	8,321	119%
FY97	9,098	8,777	8,575	8,501	8,023	8,209	7,961	7,950	7,758	7,570	7,144	7,711	110%
FY98	7,816	7,625	7,416	7,181	7,151	7,038	6,837	7,205	6,784	6,621	6,386	6,761	97%
FY99	8,071	7,631	7,327	7,179	7,162	6,873	7,014	7,106	6,647	6,389	6,164	6,622	95%
FY00	8,243	7,916	7,726	7,301	7,455	7,377	7,224	7,374	6,757	6,562	6,091	6,781	97%
FY01	8,752	8,519	8,315	8,378	8,525	7,961	8,435	8,209	7,870	7,516	7,075	7,690	110%
FY02	8,306	7,899	7,570	7,480	7,502	7,084	7,264	7,167	6,663	6,501	6,178	6,746	96%
FY03	9,384	8,924	8,576	8,325	8,477	8,076	8,014	8,131	7,661	7,540	7,174	7,721	110%
FY04	9,180	8,491	8,106	8,053	8,081	7,558	7,891	7,656	7,180	7,042	6,686	7,273	104%
FY05	8,769	8,220	7,847	7,685	7,857	7,335	7,409	7,317	7,003	6,641	6,517	7,005	100%
FY06	8,173	7,615	7,324	6,989	7,493	6,884	6,903	6,939	6,939	6,587	6,155	6,652	95%
FY07	8,457	8,317	7,796	7,958	7,835	7,111	7,440	7,172	7,296	6,928	6,488	7,014	100%
FY08	9,160	9,072	8,478	8,810	8,686	7,743	8,382	7,956	8,025	7,453	6,872	7,600	108%
FY09	9,400	9,238	8,793	8,970	8,464	8,203	8,418	8,203	7,869	7,512	6,962	7,744	111%
FY10	8,275	7,988	7,628	8,163	7,348	7,107	7,413	7,340	7,333	6,828	6,236	6,891	98%
FY11	9,054	8,824	8,443	8,891	8,257	7,921	8,295	8,279	7,520	7,320	6,849	7,572	108%
FY12	7,422	7,899	7,103	6,992	6,870	6,174	6,484	6,319	5,796	5,772	5,526	6,030	86%
FY13	9,296	9,553	8,714	9,007	8,483	7,714	8,300	8,120	7,469	7,237	6,829	7,539	108%
FY14	10,127	10,584	9,758	10,017	9,509	8,771	9,167	8,952	8,510	8,057	7,742	8,472	121%
FY15	8,982	9,752	8,873	8,753	8,428	7,833	8,134	8,060	7,764	7,367	7,197	7,698	110%
FY16	7,907	8,105	7,441	7,499	7,221	6,622	6,843	6,877	6,452	6,198	5,909	6,445	92%

**Wisconsin Cooling Degree Days**

Fiscal Year	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6	Zone 7	Zone 8	Zone 9	Zone 10	Zone 11	State CDD	Ratio to FY05
Normal	288	331	366	410	456	398	579	510	536	568	641	540	102%
FY96	343	391	574	549	744	711	715	731	749	879	854	772	146%
FY97	219	223	271	357	458	292	500	420	422	392	562	441	83%
FY98	241	280	333	413	395	351	539	436	521	484	515	457	86%
FY99	380	455	494	584	514	494	738	525	621	642	771	644	122%
FY00	314	408	444	524	445	438	621	467	569	580	733	589	111%
FY01	189	324	365	454	341	367	564	446	539	573	573	499	94%
FY02	410	476	545	623	551	570	707	594	664	690	784	680	129%
FY03	366	406	463	509	465	477	687	523	618	631	731	615	116%
FY04	304	351	379	523	454	365	596	550	604	572	622	537	102%
FY05	212	334	426	438	402	475	527	510	485	589	588	529	100%
FY06	321	534	573	710	549	565	773	690	646	754	855	727	137%
FY07	449	488	557	673	521	573	796	701	635	693	768	687	130%
FY08	345	382	486	470	429	545	562	575	549	683	721	618	117%
FY09	234	298	404	441	388	474	500	473	422	571	618	529	100%
FY10	165	208	270	288	311	295	349	348	337	424	549	412	78%
FY11	353	412	528	469	546	604	662	601	796	819	849	722	136%
FY12	482	409	614	591	631	760	760	766	933	958	986	855	162%
FY13	370	289	502	574	561	667	716	747	906	922	873	778	147%
FY14	324	290	424	500	521	512	700	576	707	752	658	623	118%
FY15	157	92	237	302	278	335	431	330	413	548	455	410	78%
FY16	403	283	443	461	463	556	586	528	634	706	719	627	119%





**FY2005 Monthly Wisconsin Heating Degree Days**

Mo-Year	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6	Zone 7	Zone 8	Zone 9	Zone 10	Zone 11	State HDD
Jul-04	68	46	40	28	29	30	16	29	18	11	19	22
Aug-04	156	155	127	110	123	89	104	92	89	72	48	78
Sep-04	122	94	91	86	96	82	93	86	79	83	66	79
Oct-04	547	542	507	473	521	458	475	470	473	418	369	429
Nov-04	885	890	839	847	855	770	831	802	769	738	675	749
Dec-04	1,454	1,467	1,386	1,423	1,413	1,288	1,363	1,302	1,273	1,200	1,161	1,253
Jan-05	1,781	1,649	1,572	1,613	1,602	1,480	1,517	1,535	1,516	1,400	1,318	1,436
Feb-05	1,235	1,185	1,142	1,144	1,151	1,088	1,117	1,097	1,057	995	973	1,044
Mar-05	1,270	1,224	1,203	1,131	1,178	1,168	1,134	1,132	1,012	1,010	997	1,073
Apr-05	677	560	550	473	502	528	449	452	402	417	518	491
May-05	460	391	372	349	376	337	305	311	307	283	344	331
Jun-05	114	17	18	8	11	17	5	9	8	14	29	20
<b>Total</b>	<b>8,769</b>	<b>8,220</b>	<b>7,847</b>	<b>7,685</b>	<b>7,857</b>	<b>7,335</b>	<b>7,409</b>	<b>7,317</b>	<b>7,003</b>	<b>6,641</b>	<b>6,517</b>	<b>7,005</b>

**FY2016 Monthly Wisconsin Heating Degree Days**

Mo-Year	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6	Zone 7	Zone 8	Zone 9	Zone 10	Zone 11	State HDD
Jul-15	46	67	44	27	22	19	16	29	21	16	28	24
Aug-15	73	110	76	51	52	31	39	45	27	16	20	31
Sep-15	135	152	113	105	85	68	93	82	58	66	46	68
Oct-15	579	611	542	552	518	457	474	463	425	410	338	420
Nov-15	805	860	788	791	759	697	740	726	727	683	607	682
Dec-15	1,102	1,128	1,040	1,123	1,046	938	1,054	982	952	921	839	932
Jan-16	1,544	1,603	1,514	1,618	1,572	1,410	1,515	1,514	1,479	1,390	1,298	1,406
Feb-16	1,309	1,357	1,283	1,335	1,266	1,191	1,247	1,229	1,153	1,098	1,043	1,144
Mar-16	1,003	993	936	910	882	865	811	843	794	770	764	813
Apr-16	775	766	727	656	676	672	577	630	526	568	633	629
May-16	391	363	312	275	292	249	245	291	265	246	264	264
Jun-16	145	95	66	56	51	25	32	43	25	14	29	32
<b>Total</b>	<b>7,907</b>	<b>8,105</b>	<b>7,441</b>	<b>7,499</b>	<b>7,221</b>	<b>6,622</b>	<b>6,843</b>	<b>6,877</b>	<b>6,452</b>	<b>6,198</b>	<b>5,909</b>	<b>6,445</b>
	-9.8%	-1.4%	-5.2%	-2.4%	-8.1%	-9.7%	-7.6%	-6.0%	-7.9%	-6.7%	-9.3%	-8.0%



**FY2005 Monthly Wisconsin Cooling Degree Days**

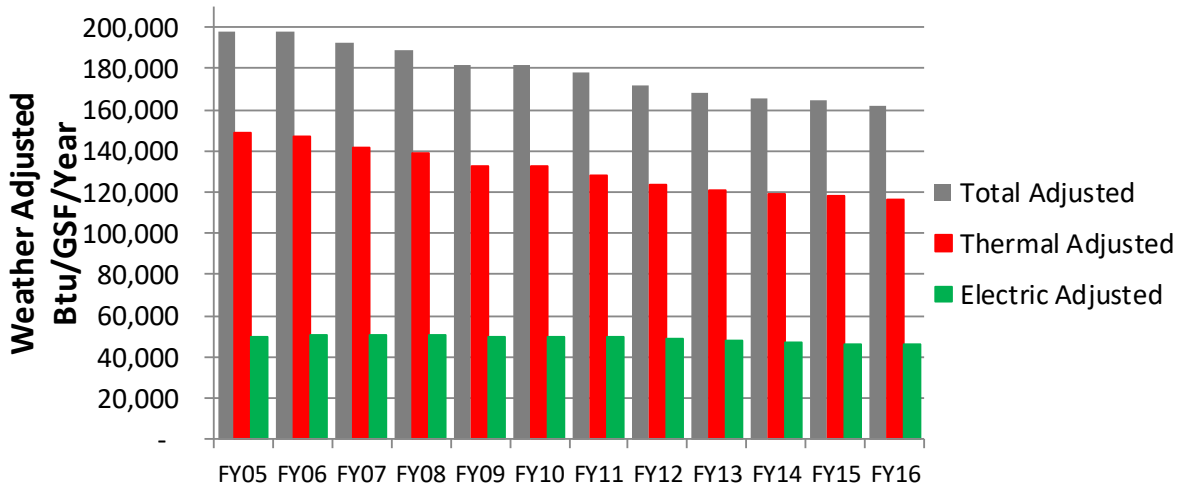
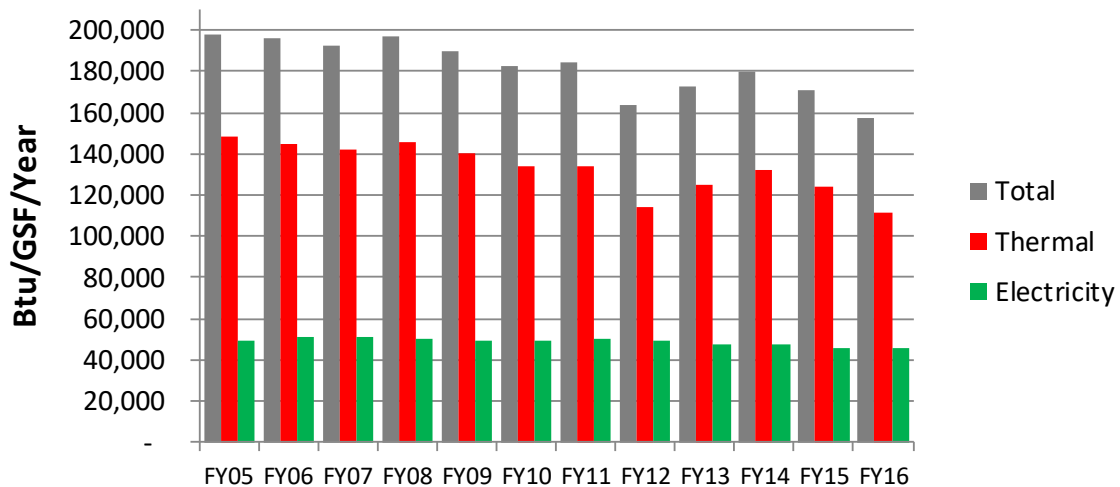
Mo-Year	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6	Zone 7	Zone 8	Zone 9	Zone 10	Zone 11	State CDD
Jul-04	79	97	112	129	123	116	159	138	133	155	151	140
Aug-04	21	30	56	53	46	73	71	68	69	91	105	83
Sep-04	29	60	73	83	64	79	100	88	72	93	93	87
Oct-04	-	-	-	-	-	-	1	-	-	2	2	1
Nov-04	-	-	-	-	-	-	-	-	-	-	-	-
Dec-04	-	-	-	-	-	-	-	-	-	-	-	-
Jan-05	-	-	-	-	-	-	-	-	-	-	-	-
Feb-05	-	-	-	-	-	-	-	-	-	-	-	-
Mar-05	-	-	-	-	-	-	-	-	-	-	-	-
Apr-05	-	-	1	8	-	1	4	4	3	2	4	3
May-05	-	2	3	3	1	3	4	4	4	7	4	4
Jun-05	83	145	181	162	168	203	188	208	204	239	229	211
Total	212	334	426	438	402	475	527	510	485	589	588	529

**FY2016 Monthly Wisconsin Cooling Degree Days**

Mo-Year	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6	Zone 7	Zone 8	Zone 9	Zone 10	Zone 11	State CDD
Jul-15	150	103	147	173	143	176	180	165	168	200	208	187
Aug-15	96	51	95	97	107	132	122	139	120	168	180	149
Sep-15	84	64	93	104	90	113	116	112	137	136	133	122
Oct-15	6	-	1	2	1	2	2	-	4	1	2	2
Nov-15	-	-	-	-	-	-	-	-	-	-	-	-
Dec-15	-	-	-	-	-	-	-	-	-	-	-	-
Jan-16	-	-	-	-	-	-	-	-	-	-	-	-
Feb-16	-	-	-	-	-	-	-	-	-	-	-	-
Mar-16	-	-	-	-	-	-	-	-	-	-	-	-
Apr-16	-	1	1	1	-	-	4	-	2	-	-	1
May-16	11	13	25	17	33	33	36	29	53	52	45	40
Jun-16	56	51	81	67	89	100	126	83	150	149	151	126
Total	403	283	443	461	463	556	586	528	634	706	719	627

## Appendix C - Historical Statewide Consumption Data

Wisconsin State Facilities State Facilities Total									
Fiscal Year	GSF	BTU/GSF				Weather-Adjusted Btu/GSF			
		Thermal	Electricity	Total	% Change From FY05	Thermal Adjusted	Electric Adjusted	Total Adjusted	Adjusted % Change From FY05
FY05	64,904,994	148,411	49,738	198,149	0.0%	100.0%	100.0%	198,149	0.0%
FY06	65,557,377	144,841	51,120	195,961	-1.1%	101.5%	99.4%	197,805	-0.2%
FY07	66,603,743	141,986	50,722	192,708	-2.7%	99.7%	99.8%	192,208	-3.0%
FY08	67,798,147	146,081	50,656	196,737	-0.7%	95.0%	99.5%	189,229	-4.5%
FY09	68,281,718	139,973	49,501	189,474	-4.4%	94.6%	100.0%	181,969	-8.2%
FY10	68,089,730	133,659	49,205	182,864	-7.7%	99.0%	100.3%	181,653	-8.3%
FY11	68,970,208	134,297	50,113	184,410	-6.9%	95.3%	99.5%	177,897	-10.2%
FY12	70,715,804	114,442	49,439	163,881	-17.3%	107.8%	98.5%	172,067	-13.2%
FY13	71,956,028	125,077	47,725	172,802	-12.8%	96.8%	99.6%	168,563	-14.9%
FY14	72,793,718	132,478	47,210	179,688	-9.3%	89.7%	99.6%	165,835	-16.3%
FY15	73,033,272	124,493	46,154	170,647	-13.9%	95.0%	100.1%	164,474	-17.0%
FY16	73,573,331	111,375	46,097	157,472	-20.5%	104.2%	99.4%	161,862	-18.3%



**Major Agency Comparison FY2016 to FY1973\***

Agency	FY1973 GSF	FY1973 Thermal Btu/GSF	FY1973 Electric Btu/GSF	FY1973 Total Btu/GSF
University of Wisconsin System	31,498,261	192,180	42,581	234,761
Department of Administration	1,966,150	225,697	42,447	268,144
Department of Corrections	2,279,108	317,387	16,662	334,049
Department of Health Services	4,475,139	279,061	25,221	304,282
Department of Public Instruction	358,663	177,888	20,858	198,746
Department of Veterans Affairs	535,072	244,085	29,714	273,799
<b>Agencies Total</b>	<b>41,112,393</b>	<b>210,732</b>	<b>38,891</b>	<b>249,623</b>

Agency	FY2016 GSF	FY2016 Thermal Btu/GSF	FY2016 Electric Btu/GSF	FY2016 Total Btu/GSF
University of Wisconsin System	55,732,802	111,358	47,594	158,951
Department of Administration	3,962,271	59,039	45,825	104,864
Department of Corrections	7,939,611	119,703	42,166	161,868
Department of Health Services	4,159,400	155,603	37,360	192,962
Department of Public Instruction	441,183	72,932	20,276	93,209
Department of Veterans Affairs	733,728	133,028	47,139	180,168
<b>Agencies Total</b>	<b>72,968,995</b>	<b>111,932</b>	<b>46,154</b>	<b>158,086</b>

Agency	GSF % Change 2016 from 1973	Thermal % Change 2016 from 1973	Electric % Change 2016 from 1973	Energy % Change 2016 from 1973
University of Wisconsin System	76.94%	-42.06%	11.77%	-32.29%
Department of Administration	101.52%	-73.84%	7.96%	-60.89%
Department of Corrections	248.36%	-62.28%	153.06%	-51.54%
Department of Health Services	-7.06%	-44.24%	48.13%	-36.58%
Department of Public Instruction	23.01%	-59.00%	-2.79%	-53.10%
Department of Veterans Affairs	37.13%	-45.50%	58.64%	-34.20%
<b>Agencies Total</b>	<b>77.49%</b>	<b>-46.88%</b>	<b>18.67%</b>	<b>-36.67%</b>

\* FY1973 was start of State of Wisconsin Energy Conservation Program and State Energy Report monitoring.

