

Energy Summary

The University of Toledo

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2015



THE UNIVERSITY OF
TOLEDO
1872



ENERGY SUMMARY

FISCAL YEAR 2015

Main Campus | Health Science Campus | Scott Park Campus for Energy and Innovation

PREPARED BY
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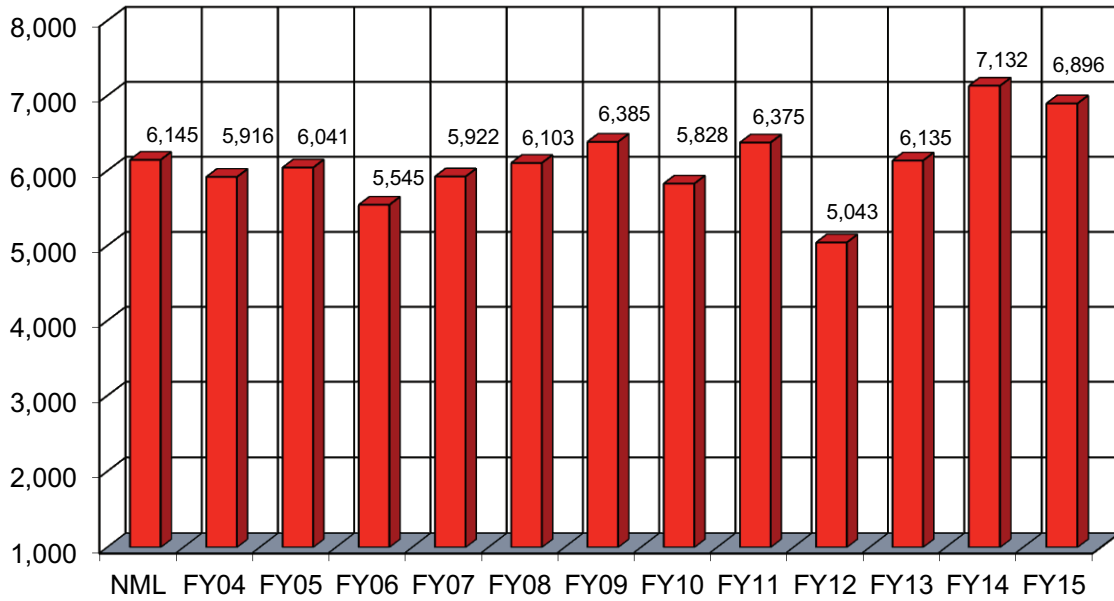
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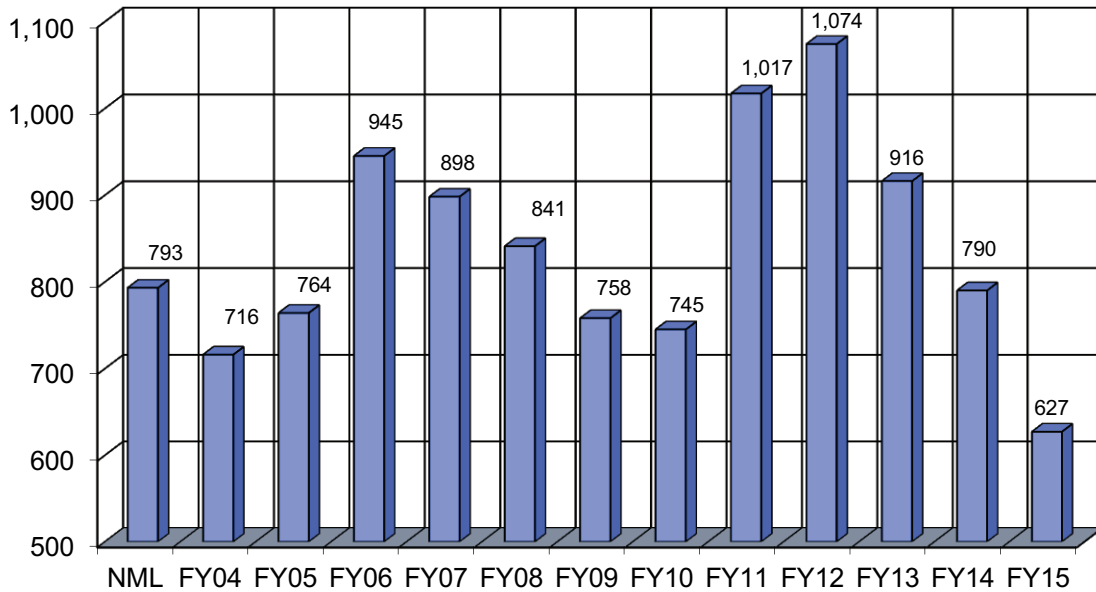
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YEARLY DEGREE DAY SUMMARY

HEATING DEGREE DAYS

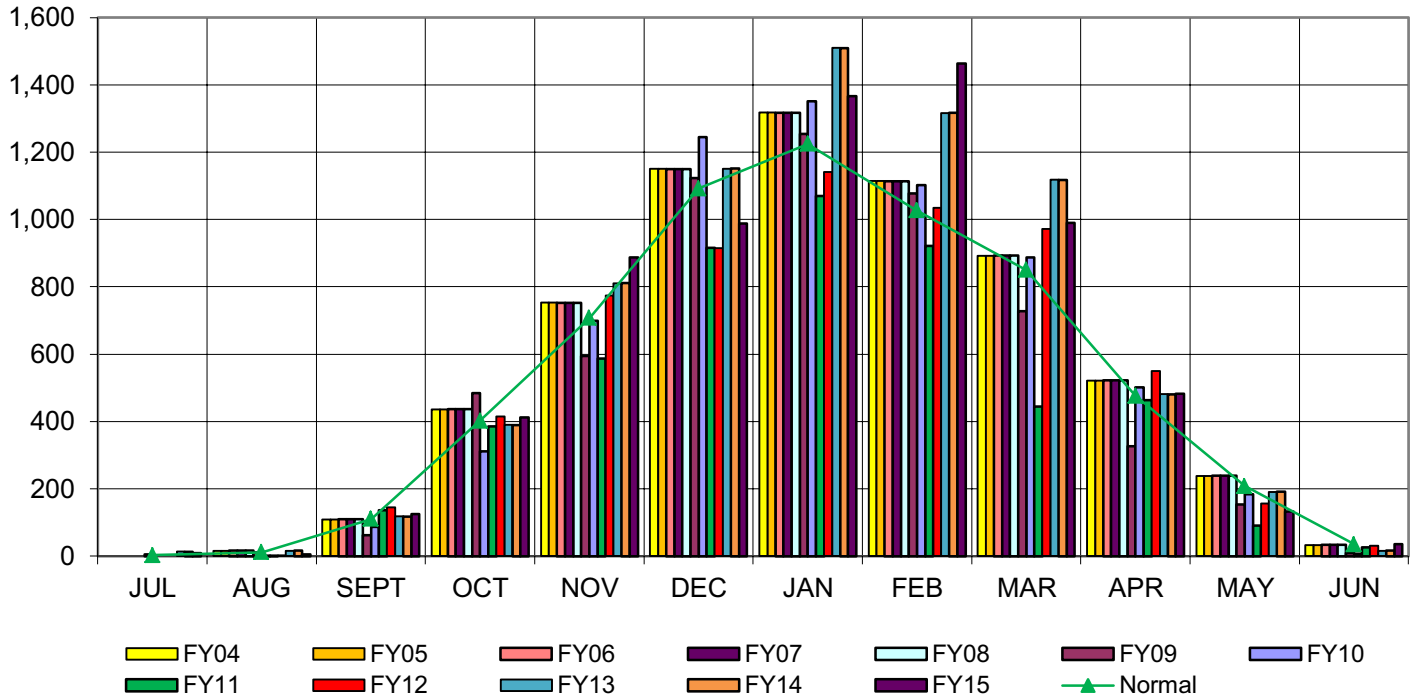


COOLING DEGREE DAYS

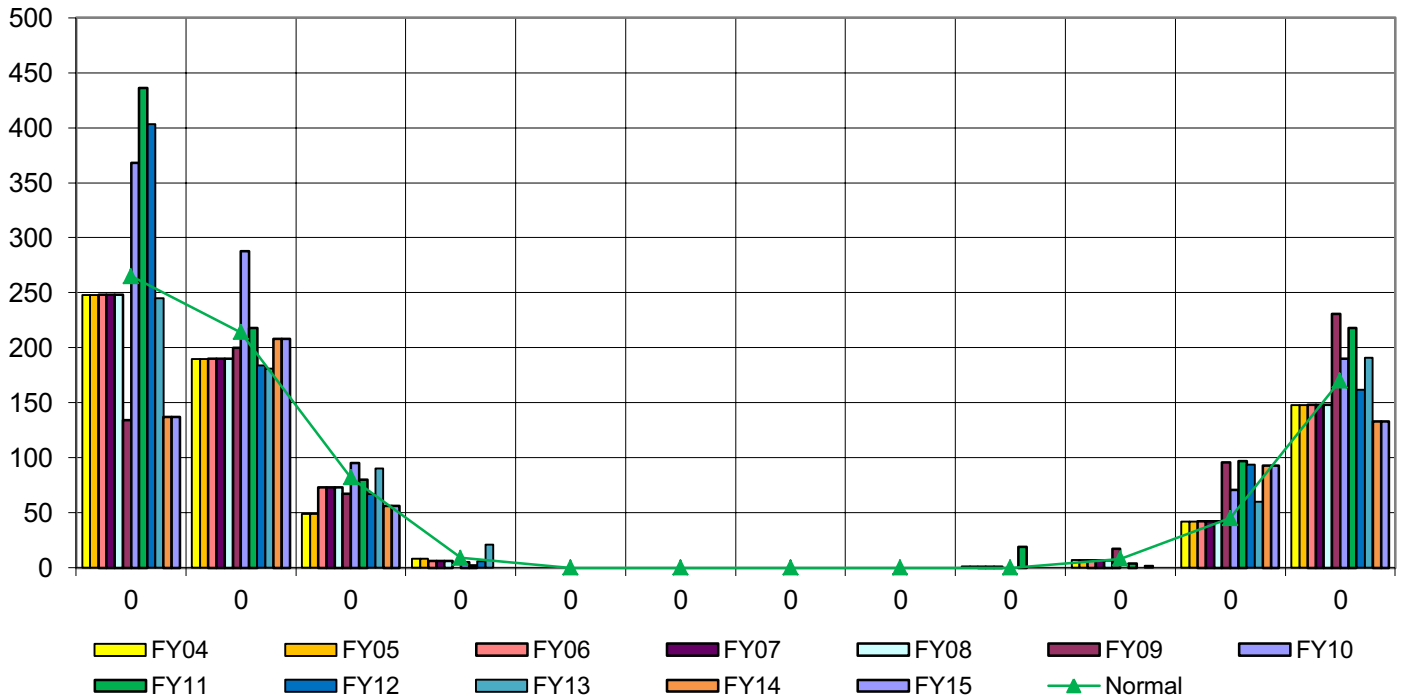


MONTHLY DEGREE DAY SUMMARY

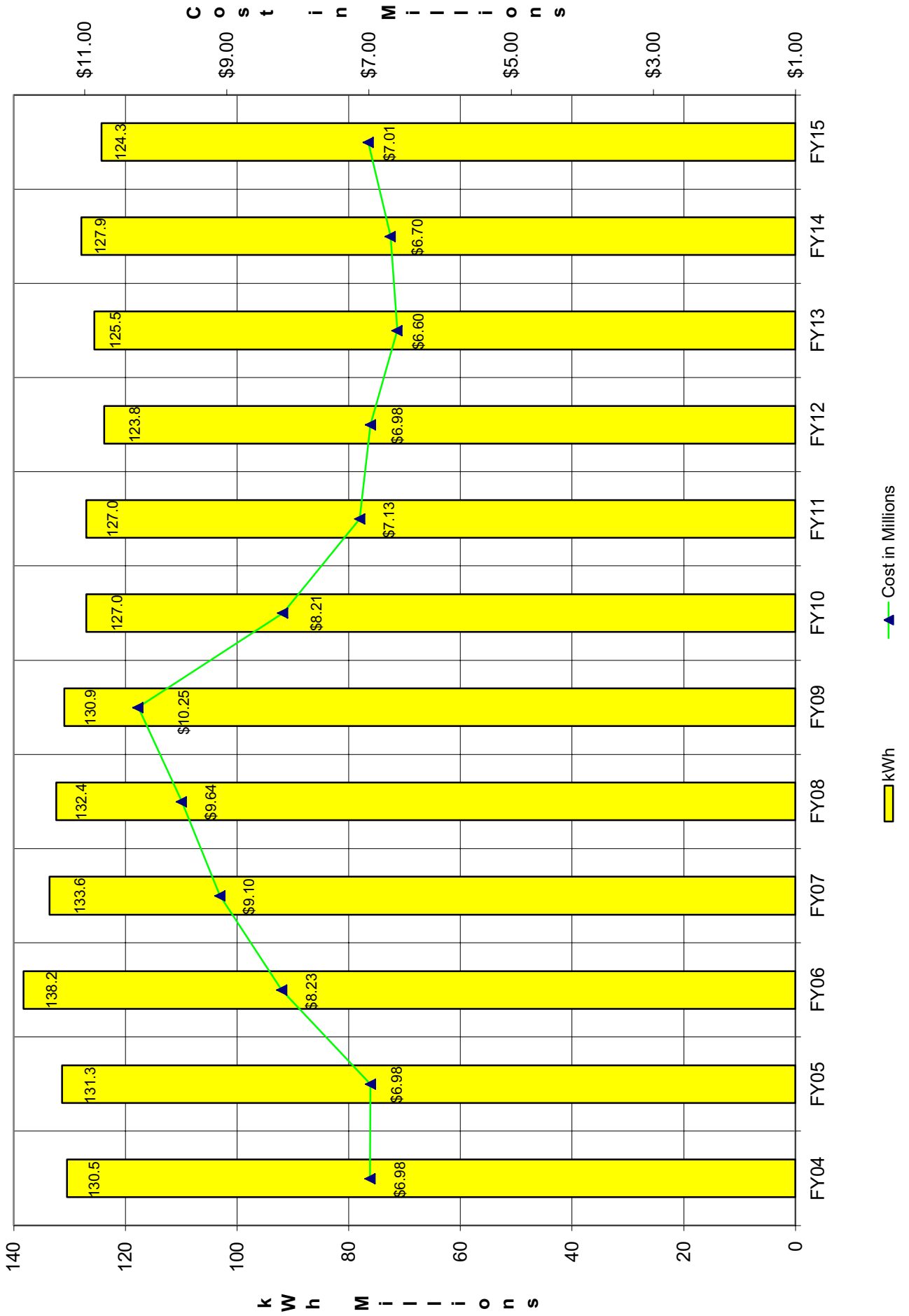
HEATING DEGREE DAYS



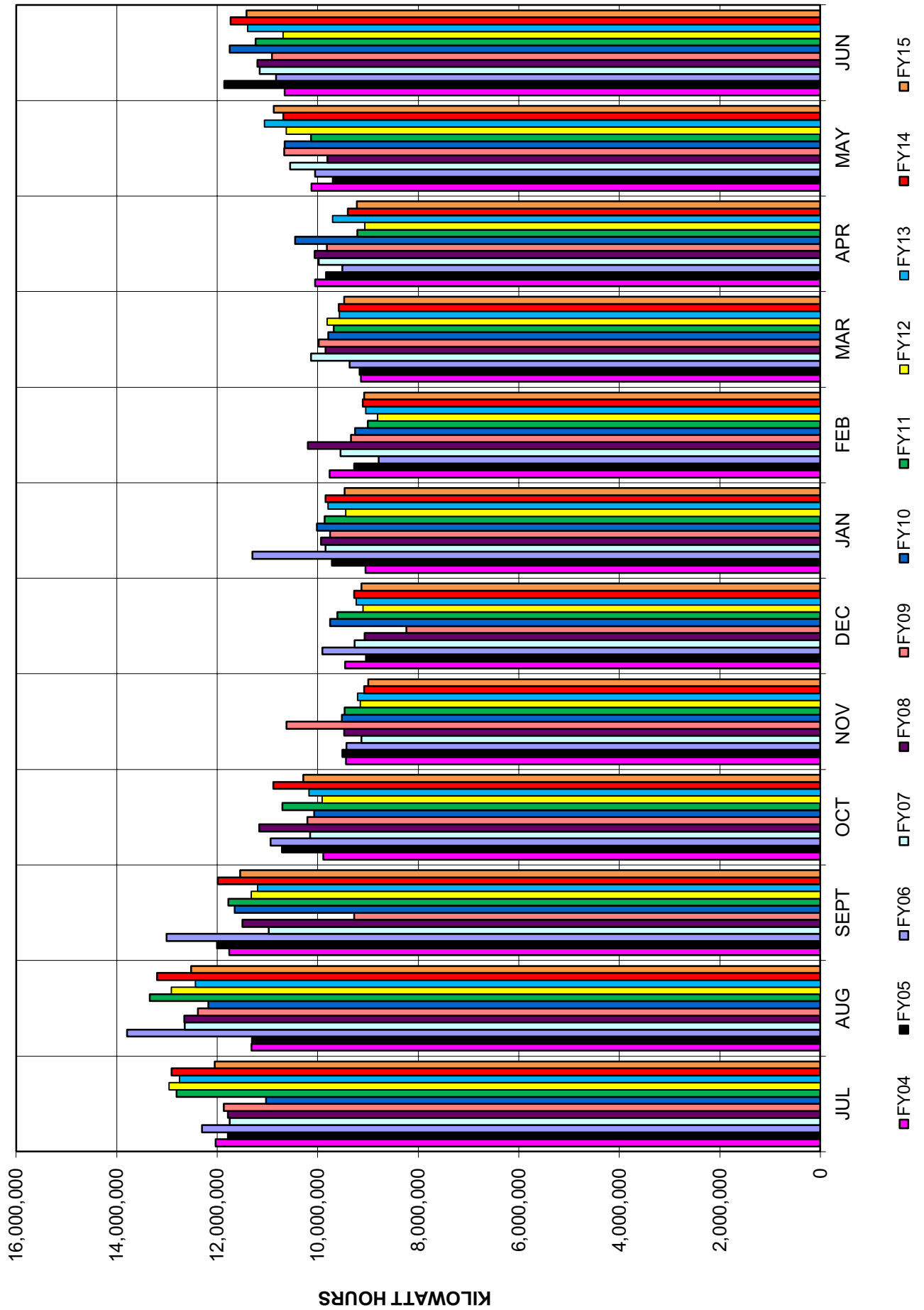
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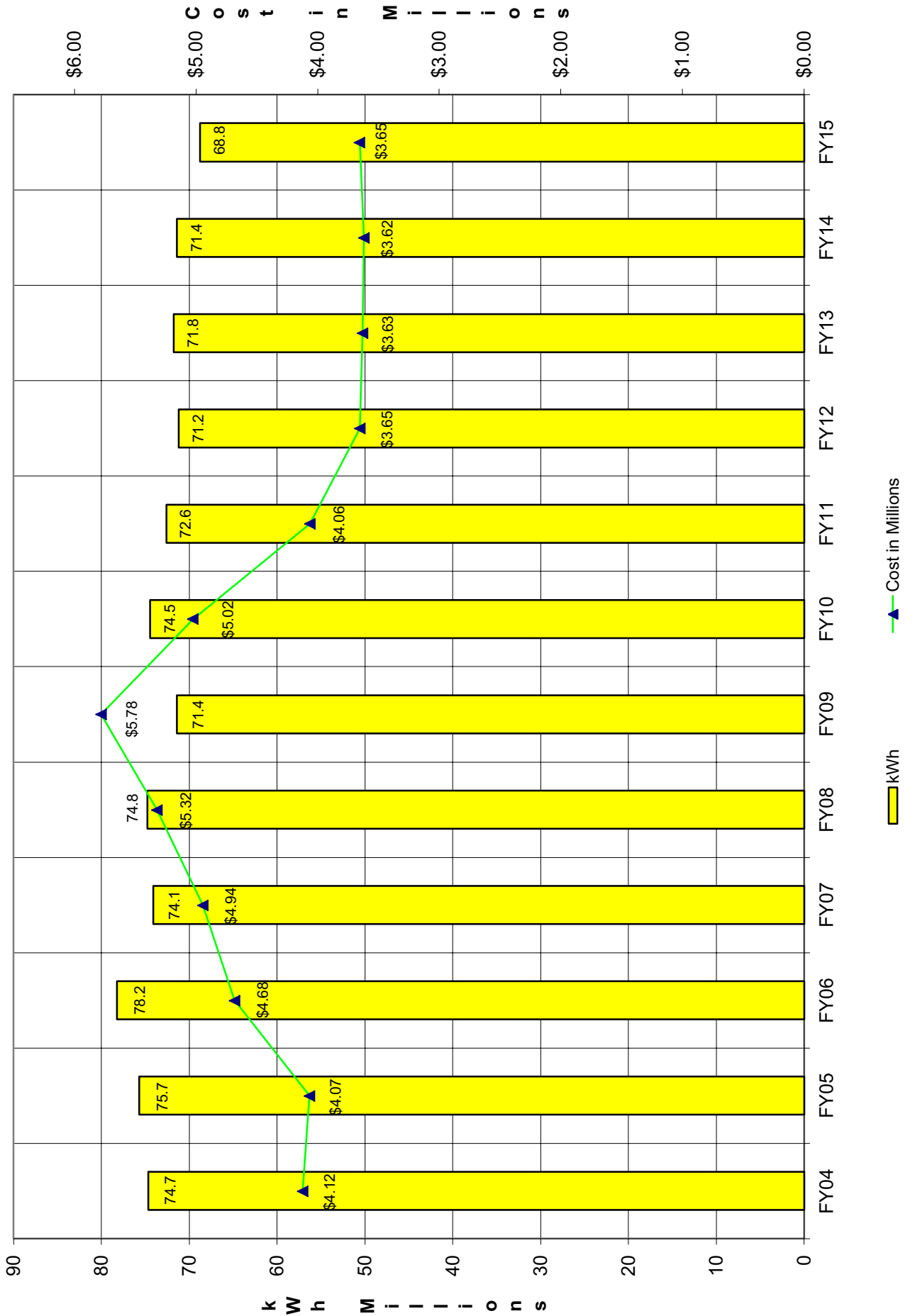
UT ALL CAMPUSES YEARLY SUBSTATION with COST



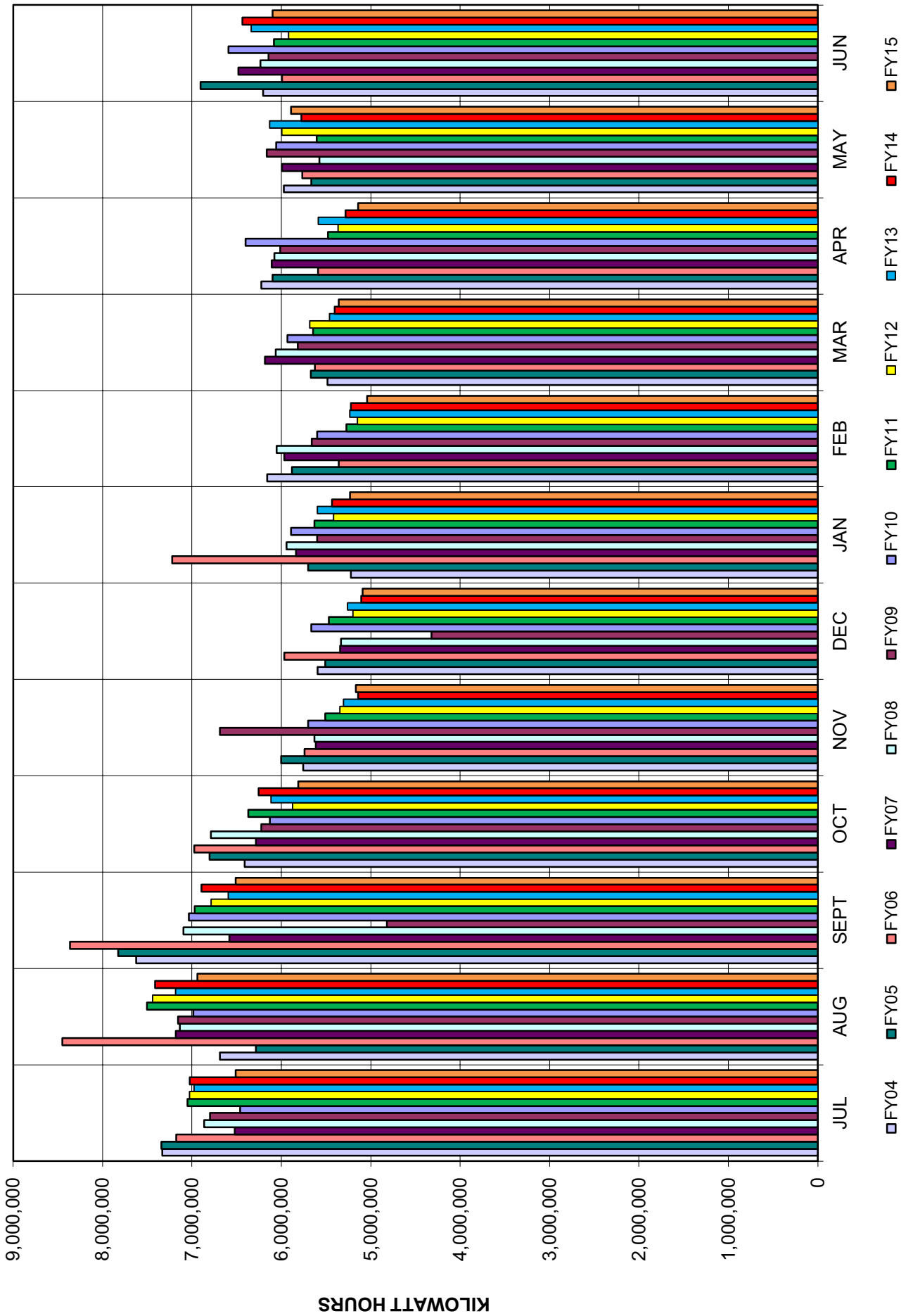
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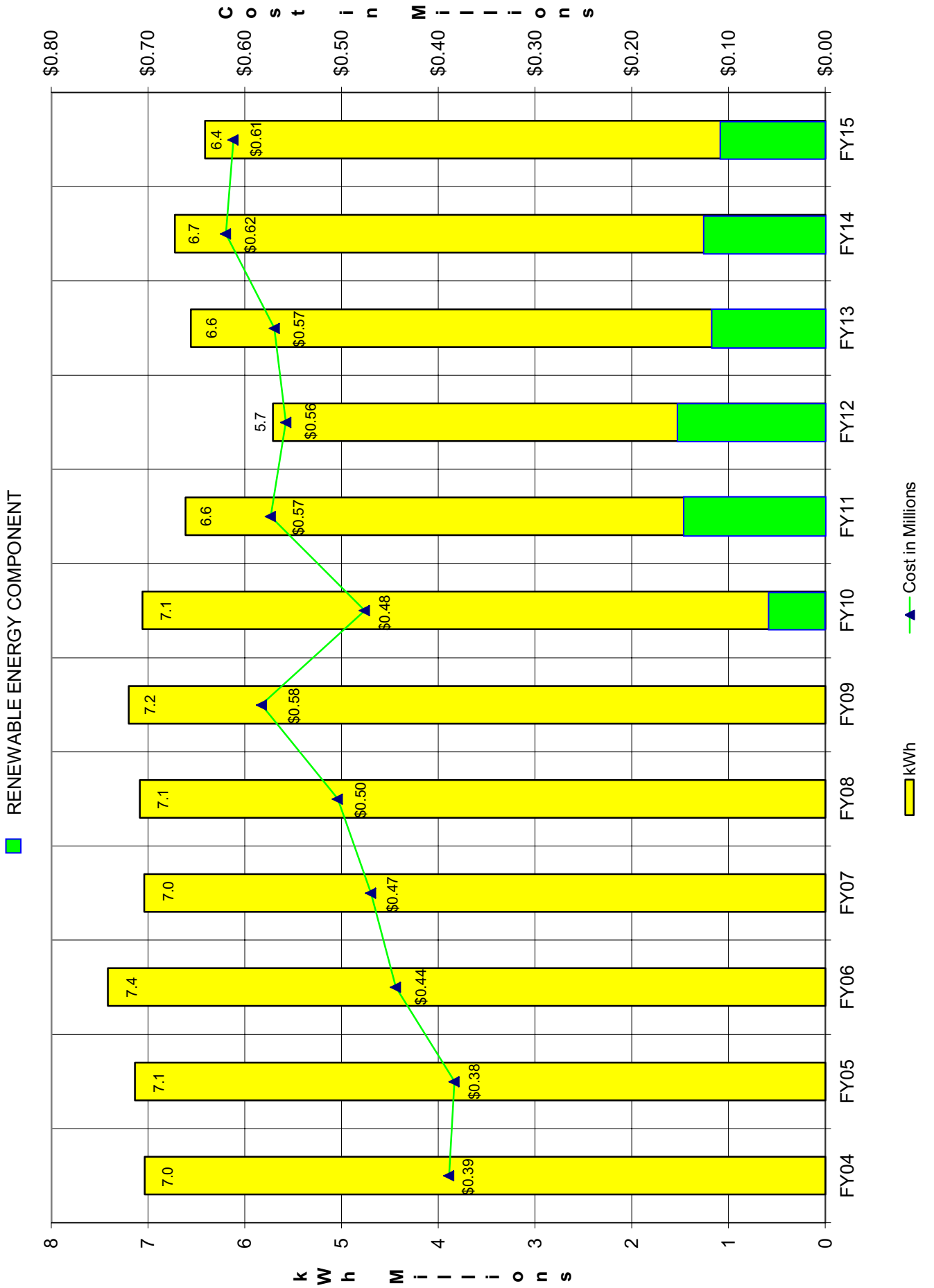
MAIN CAMPUS YEARLY SUBSTATION with COST



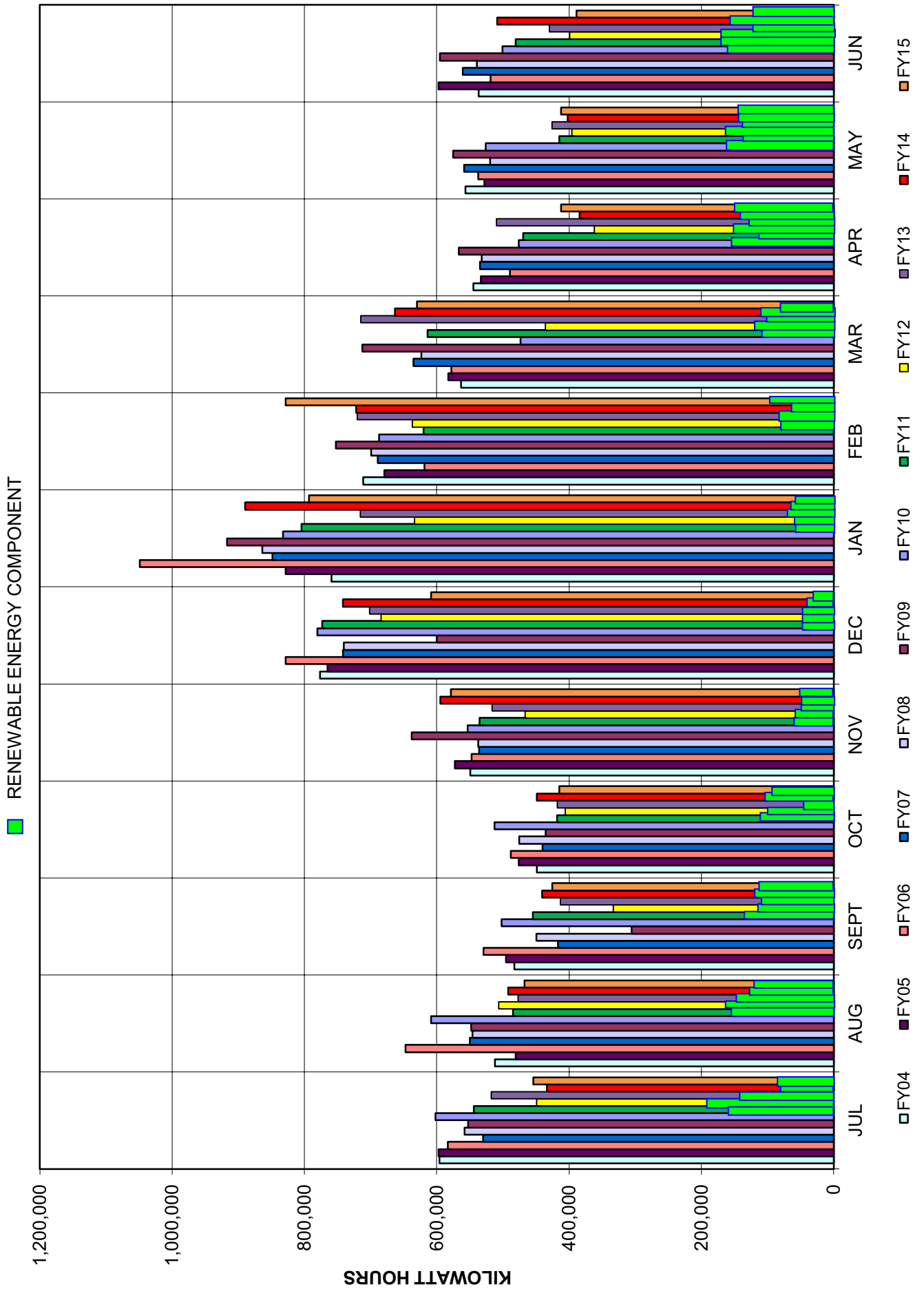
MAIN CAMPUS MONTHLY SUBSTATION



SCOTT PARK CAMPUS YEARLY SUBSTATION with COST



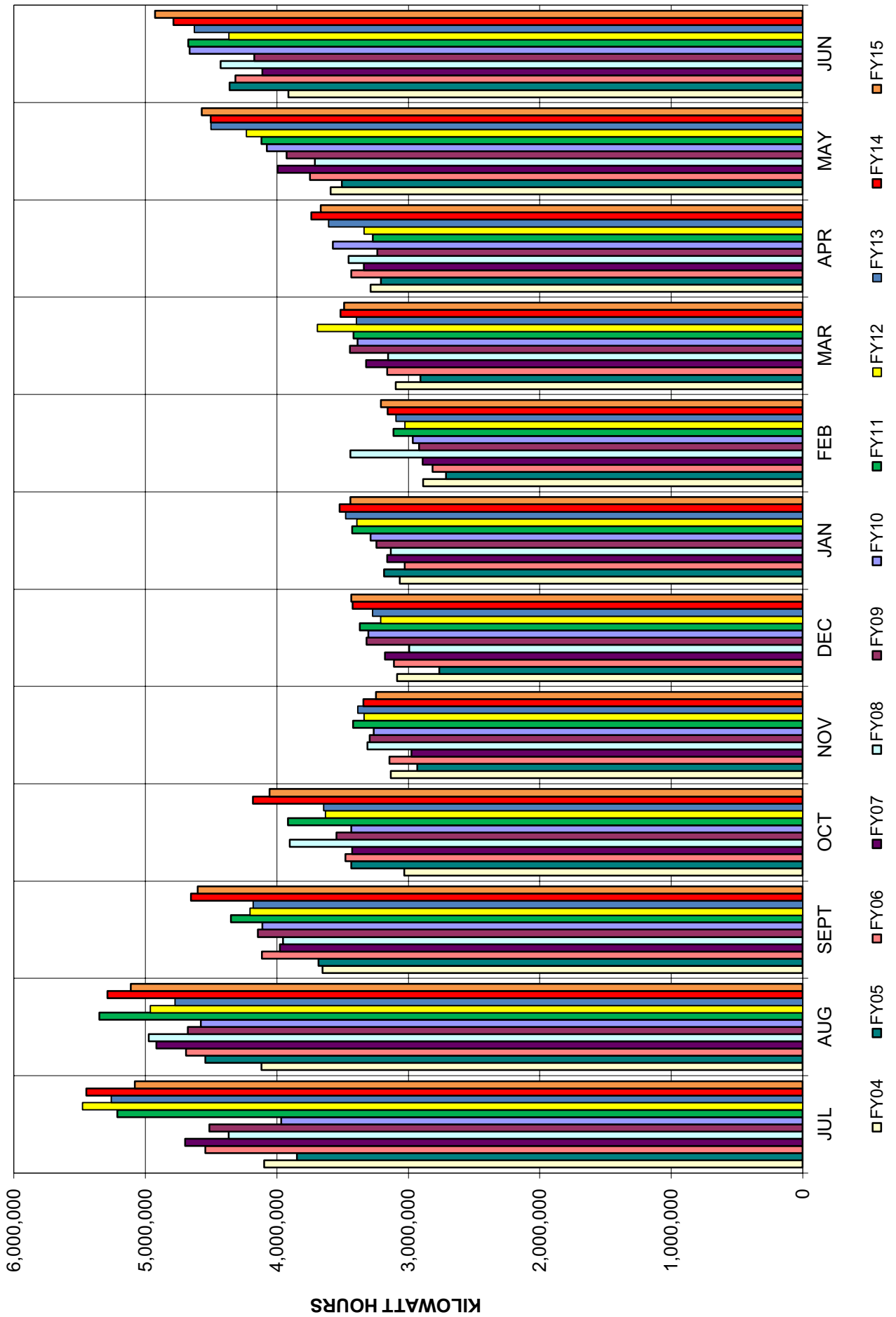
SCOTT PARK CAMPUS MONTHLY SUBSTATION



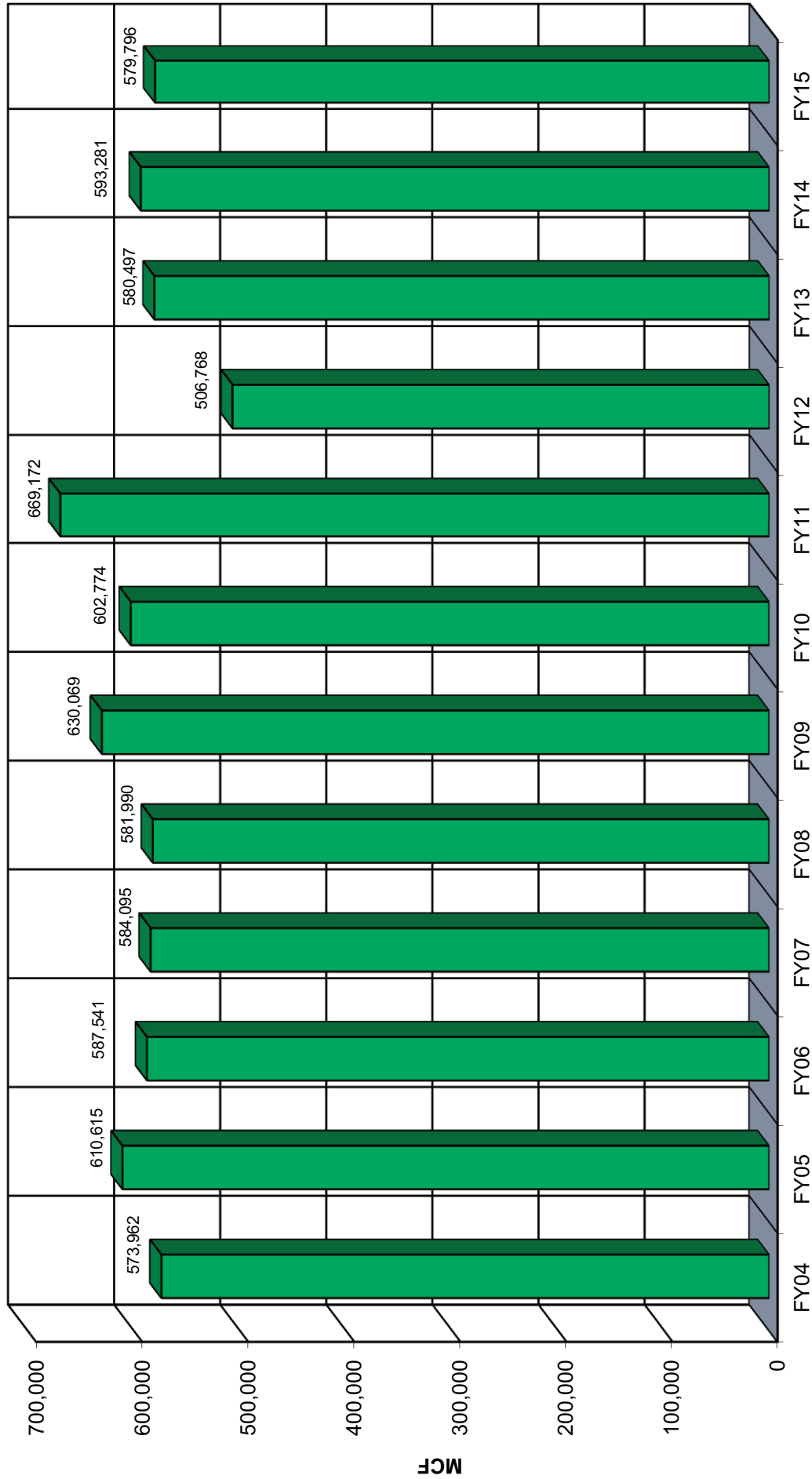
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HEALTH SCIENCE CAMPUS MONTHLY SUBSTATION

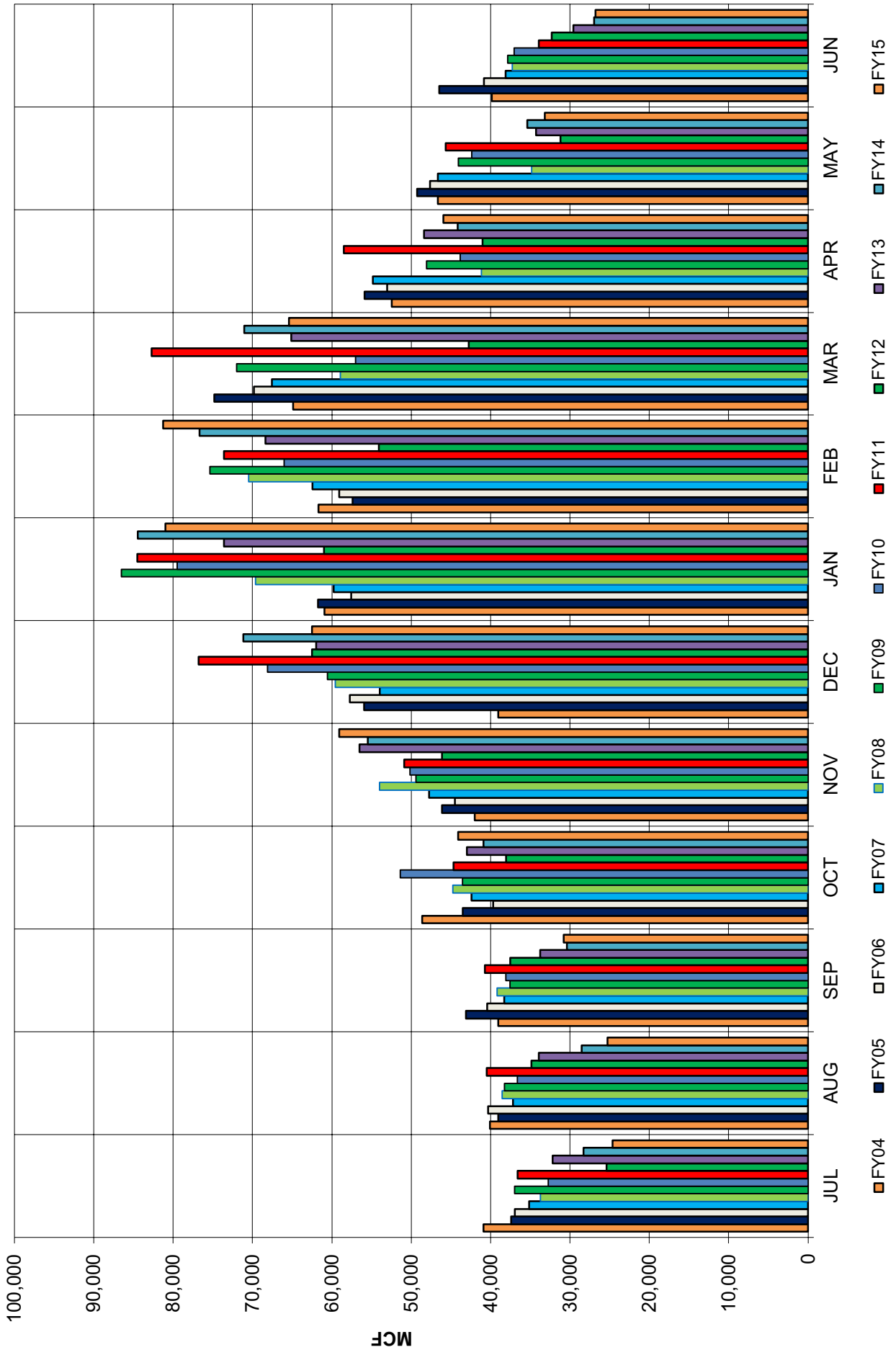


UT ALL CAMPUSES YEARLY STEAM PLANT COMBINED COAL/GAS

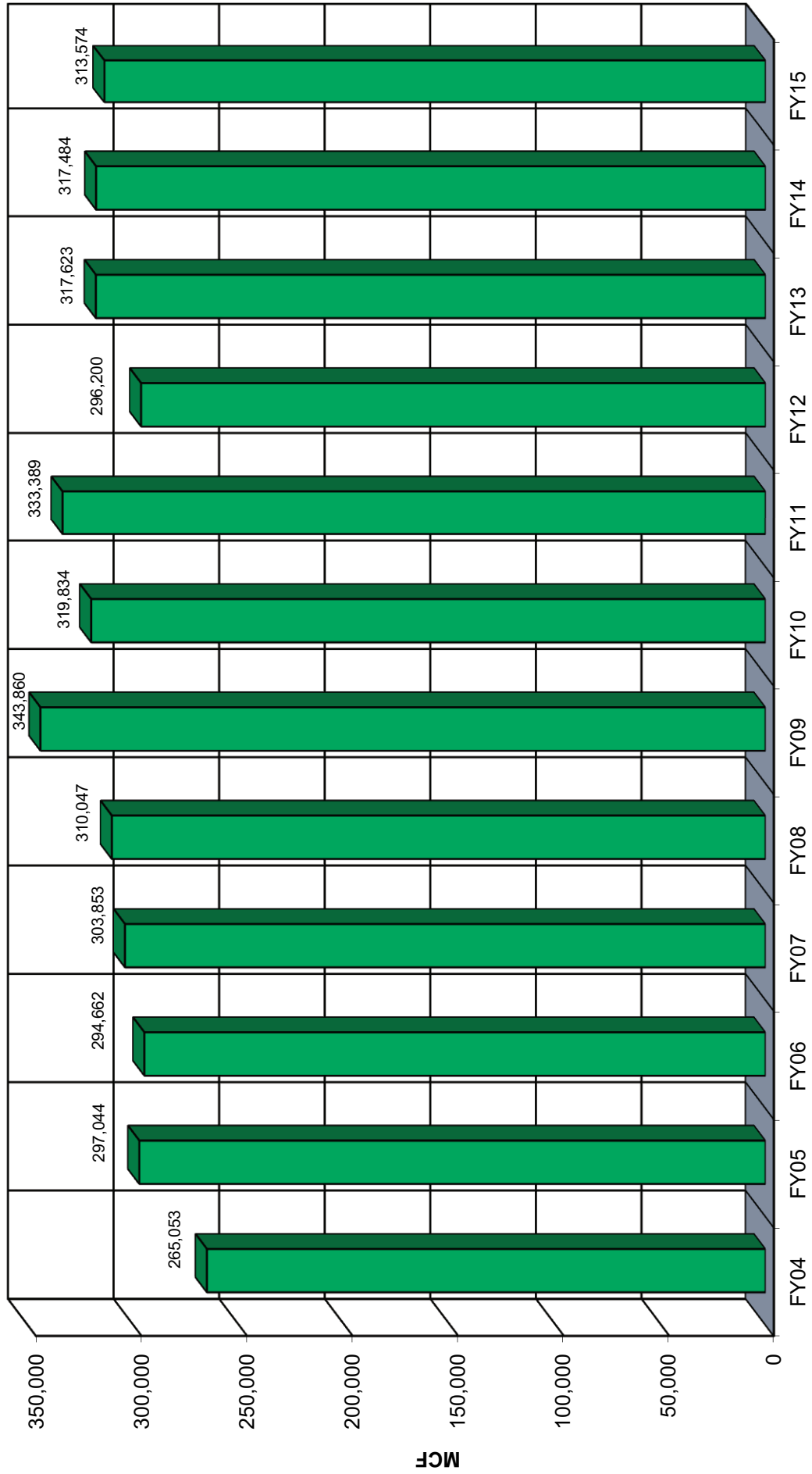


■ COMBINED COAL/GAS

UT ALL CAMPUSES MONTHLY STEAM PLANT COAL/GAS

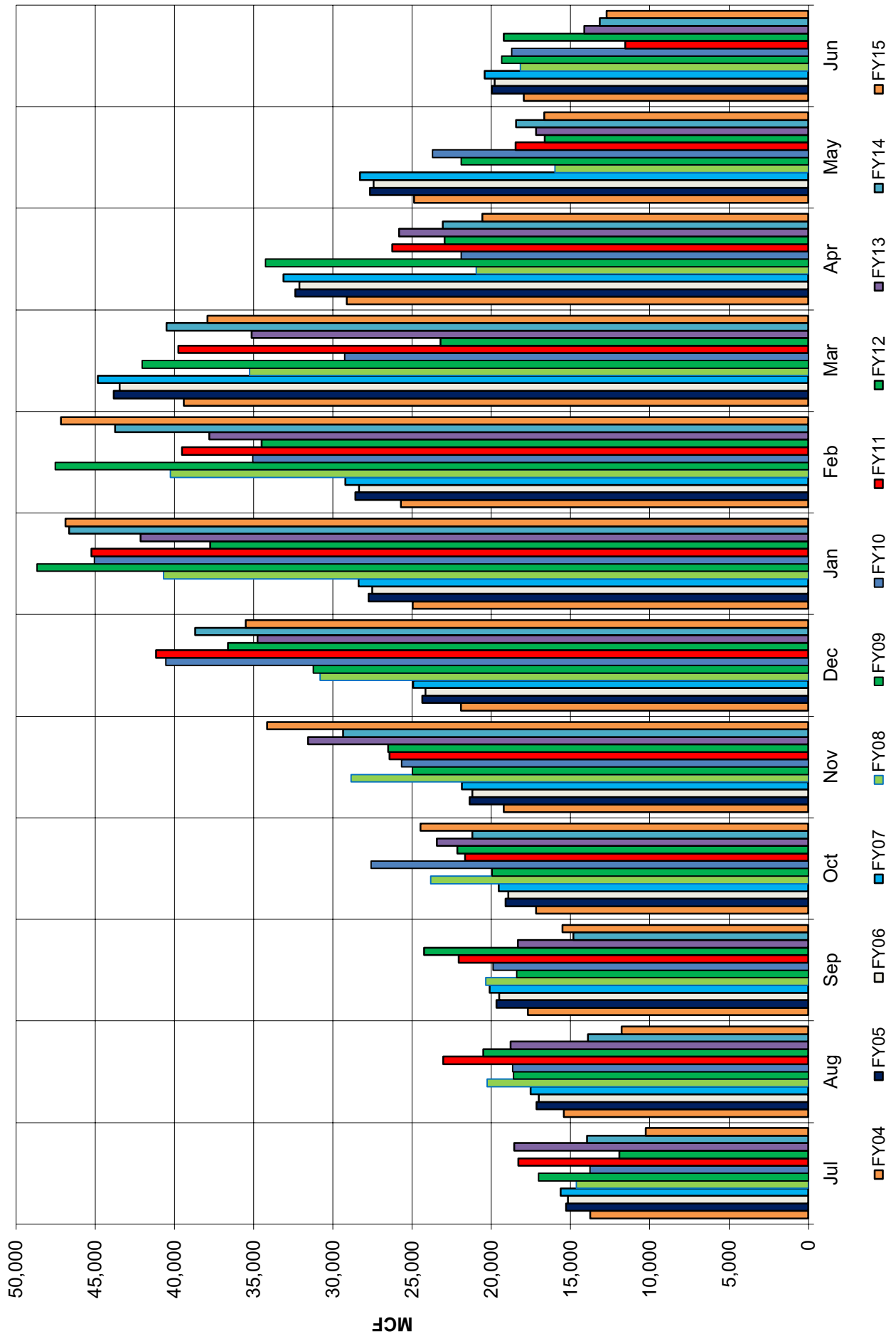


MAIN CAMPUS YEARLY STEAM PLANT GAS

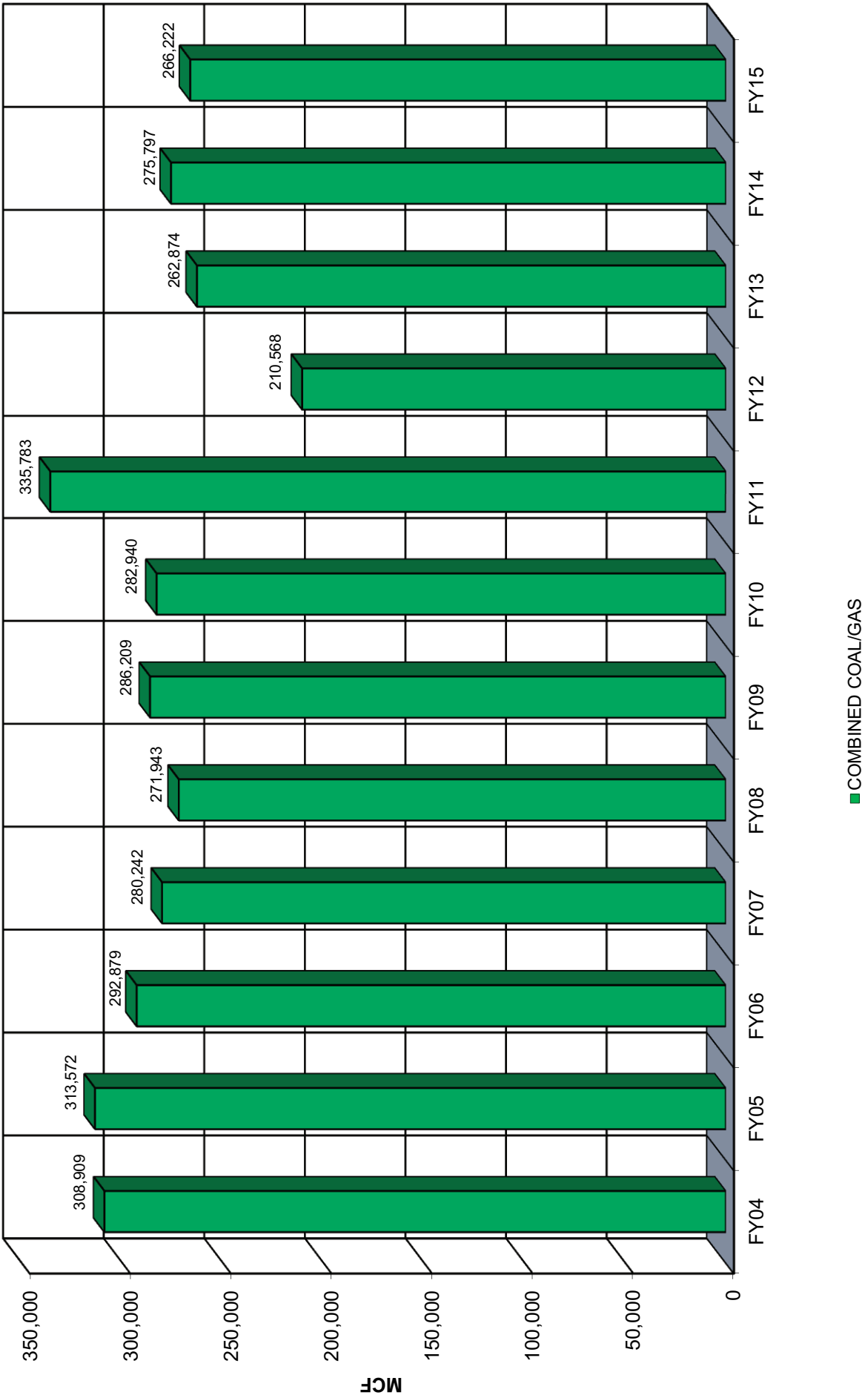


■ GAS

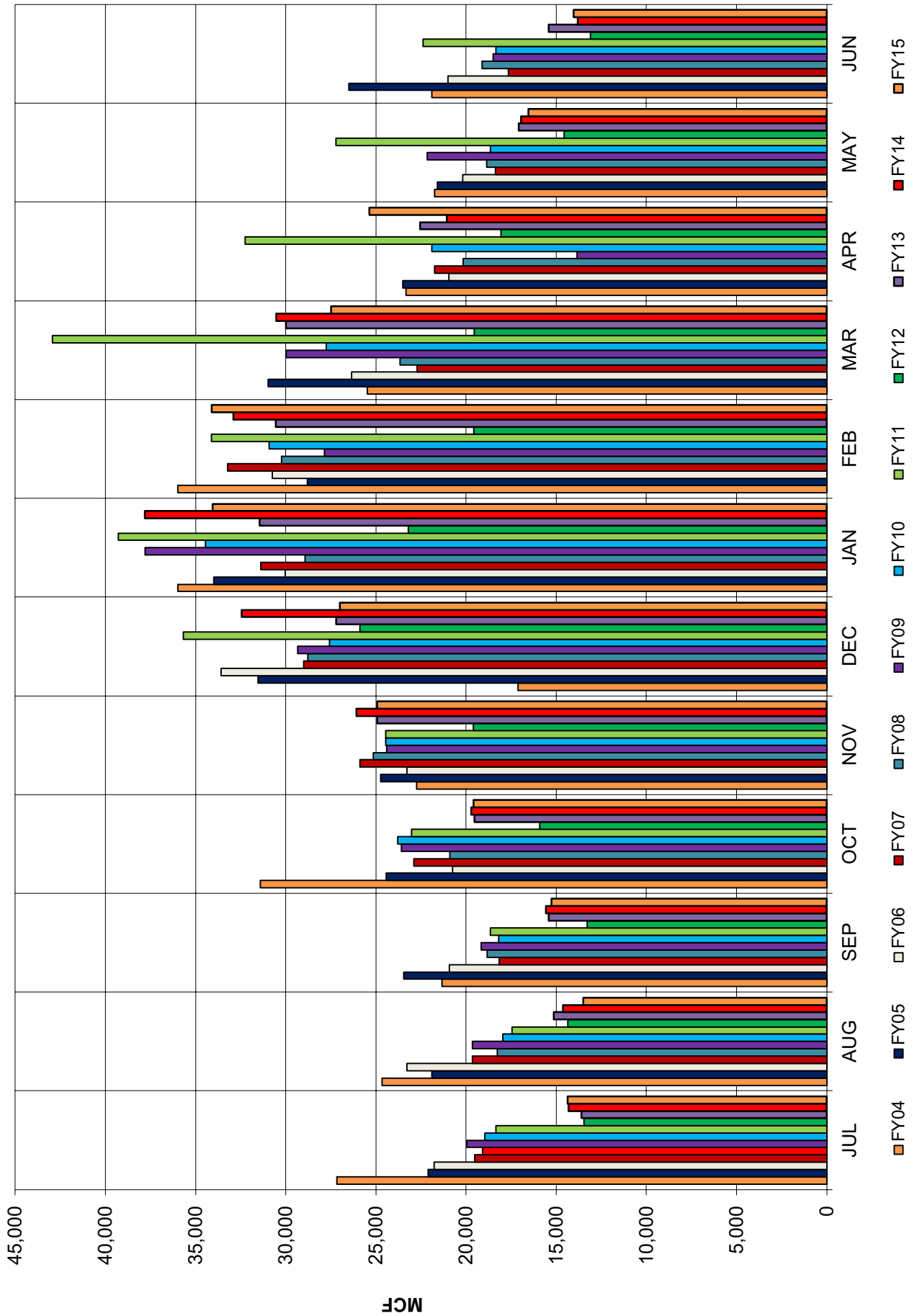
MAIN CAMPUS MONTHLY STEAM PLANT GAS



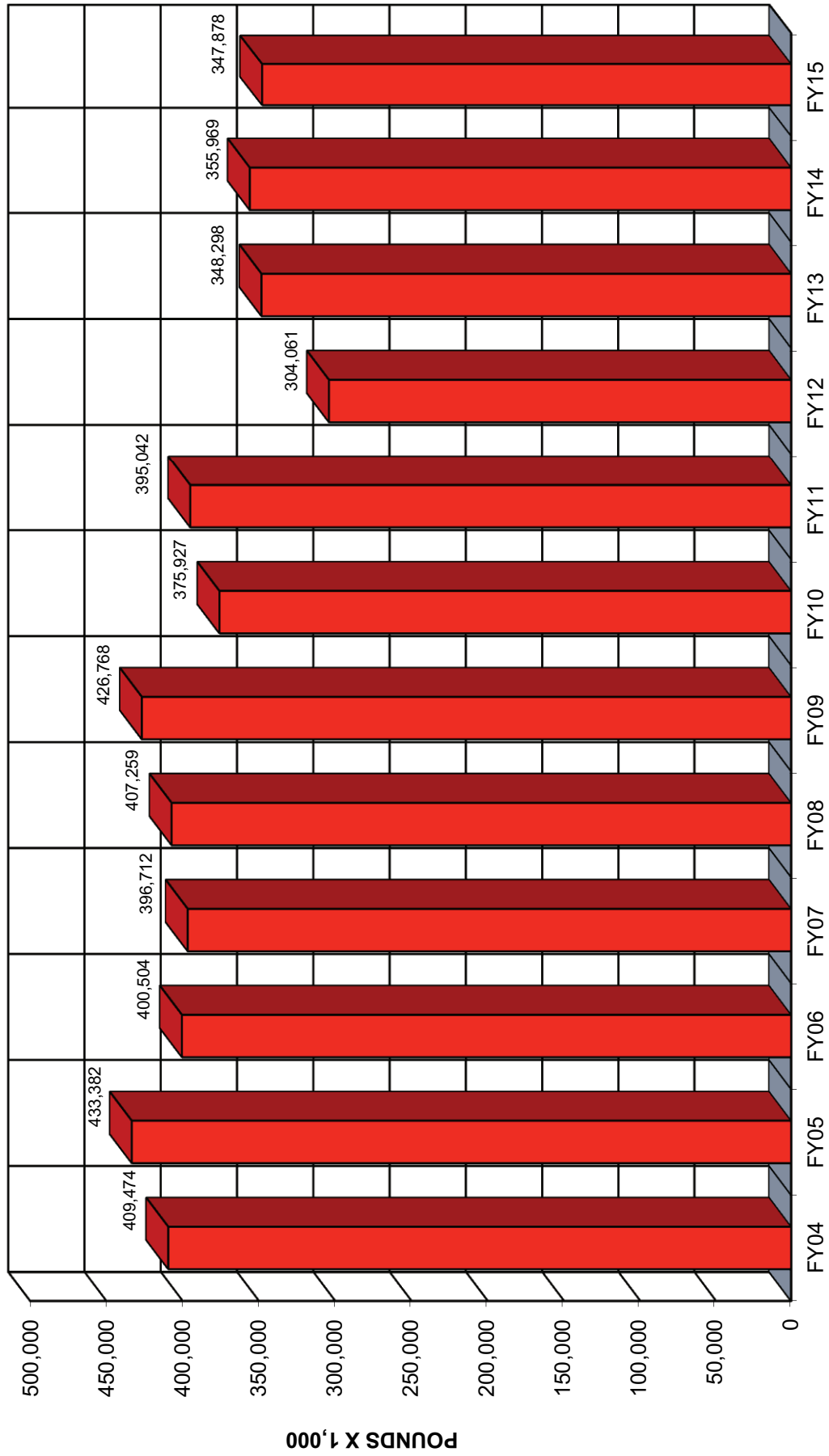
HEALTH SCIENCE CAMPUS YEARLY POWERHOUSE COAL/GAS



HEALTH SCIENCE CAMPUS MONTHLY POWERHOUSE COAL/GAS

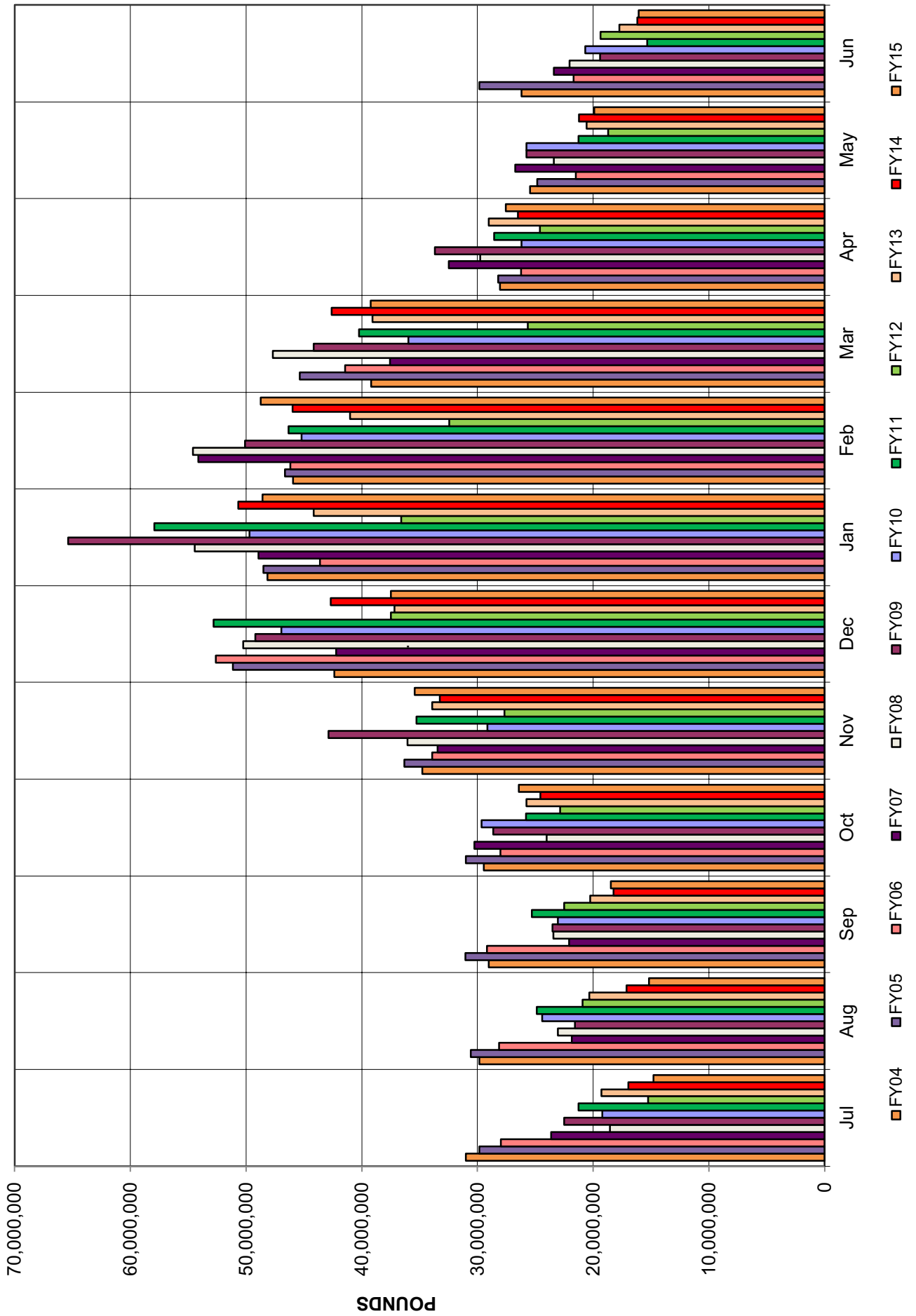


UT ALL CAMPUSES YEARLY STEAM PRODUCTION

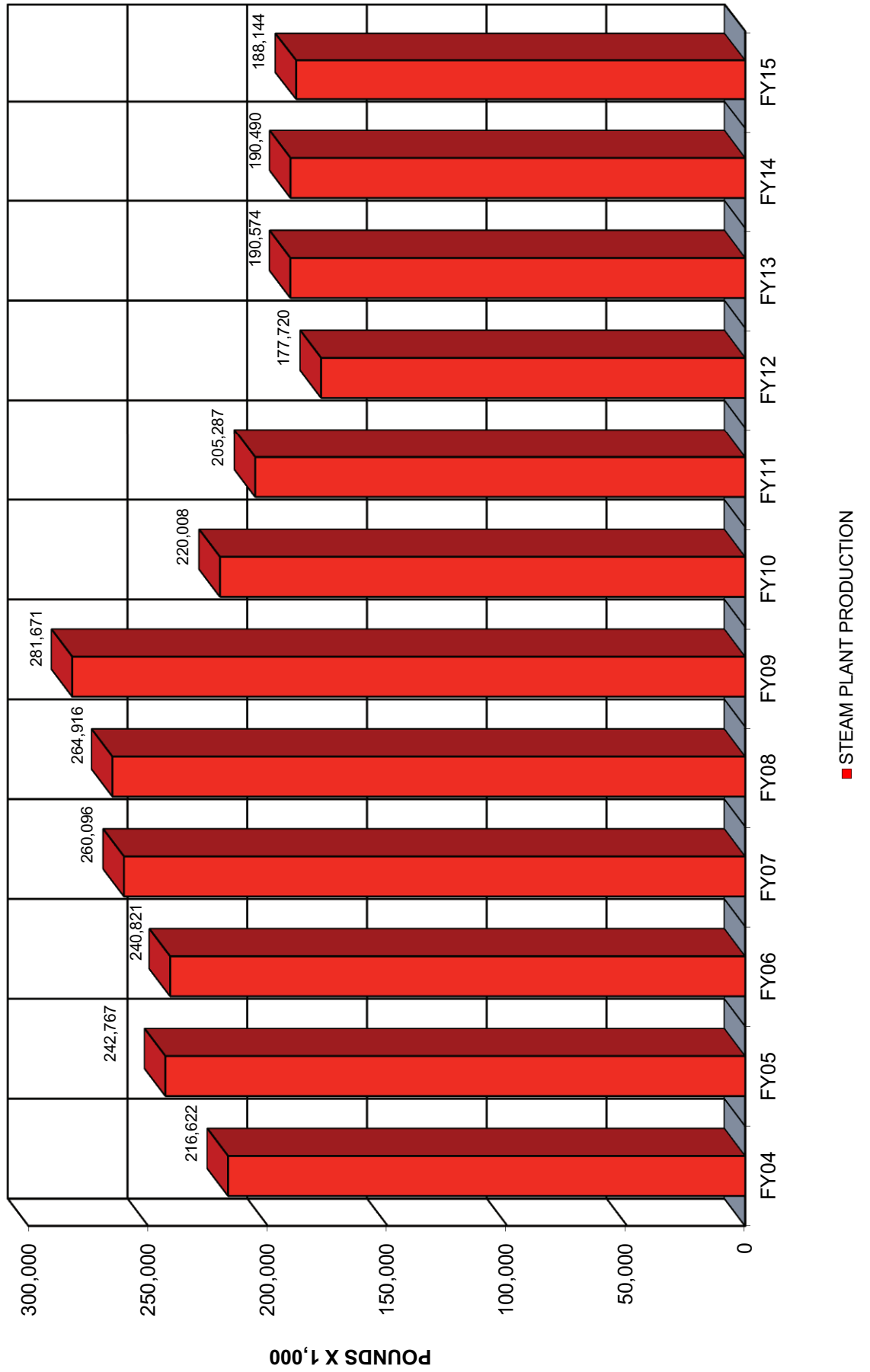


■ STEAM PLANT/POWERHOUSE PRODUCTION

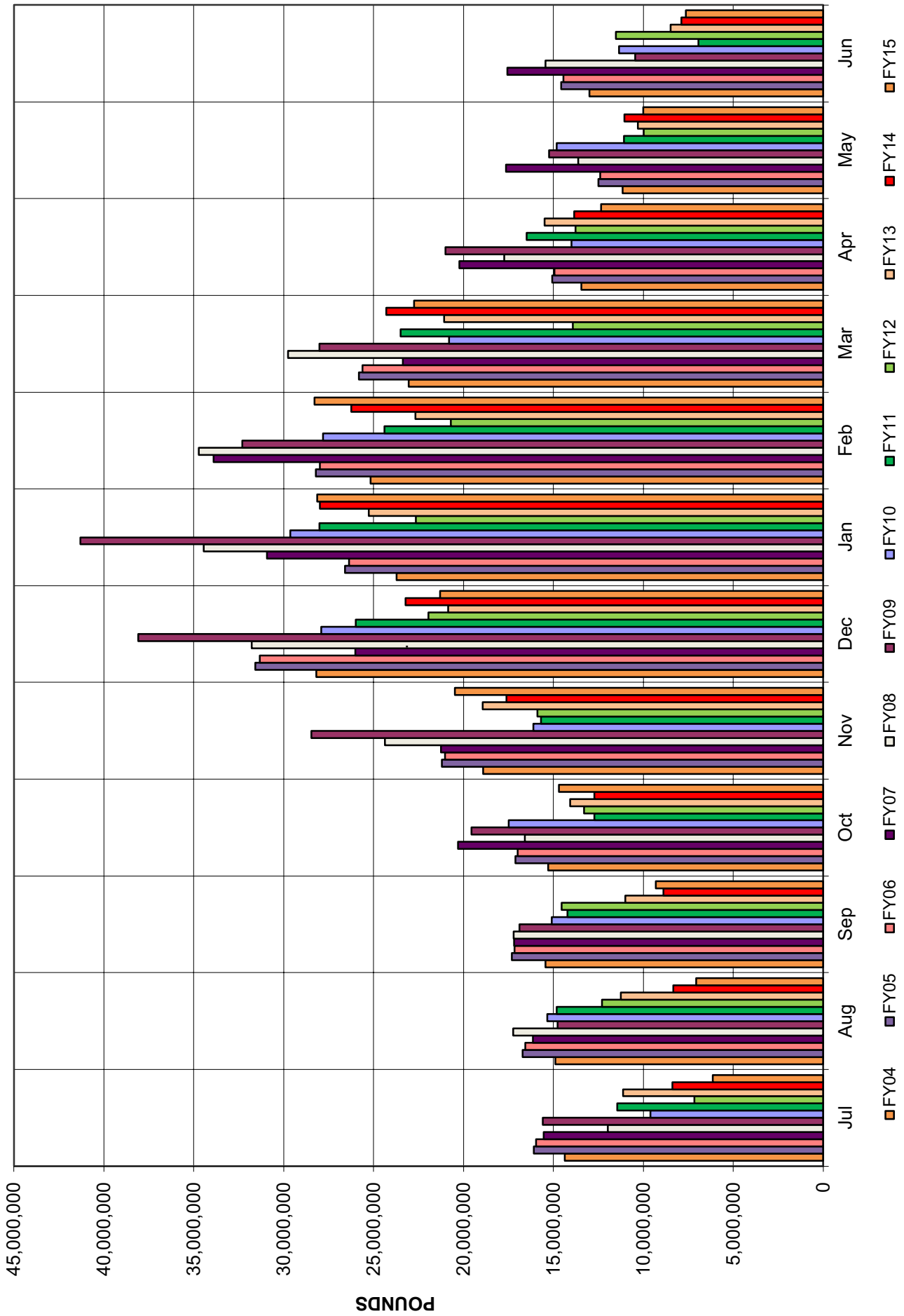
UT ALL CAMPUSES MONTHLY STEAM PRODUCTION



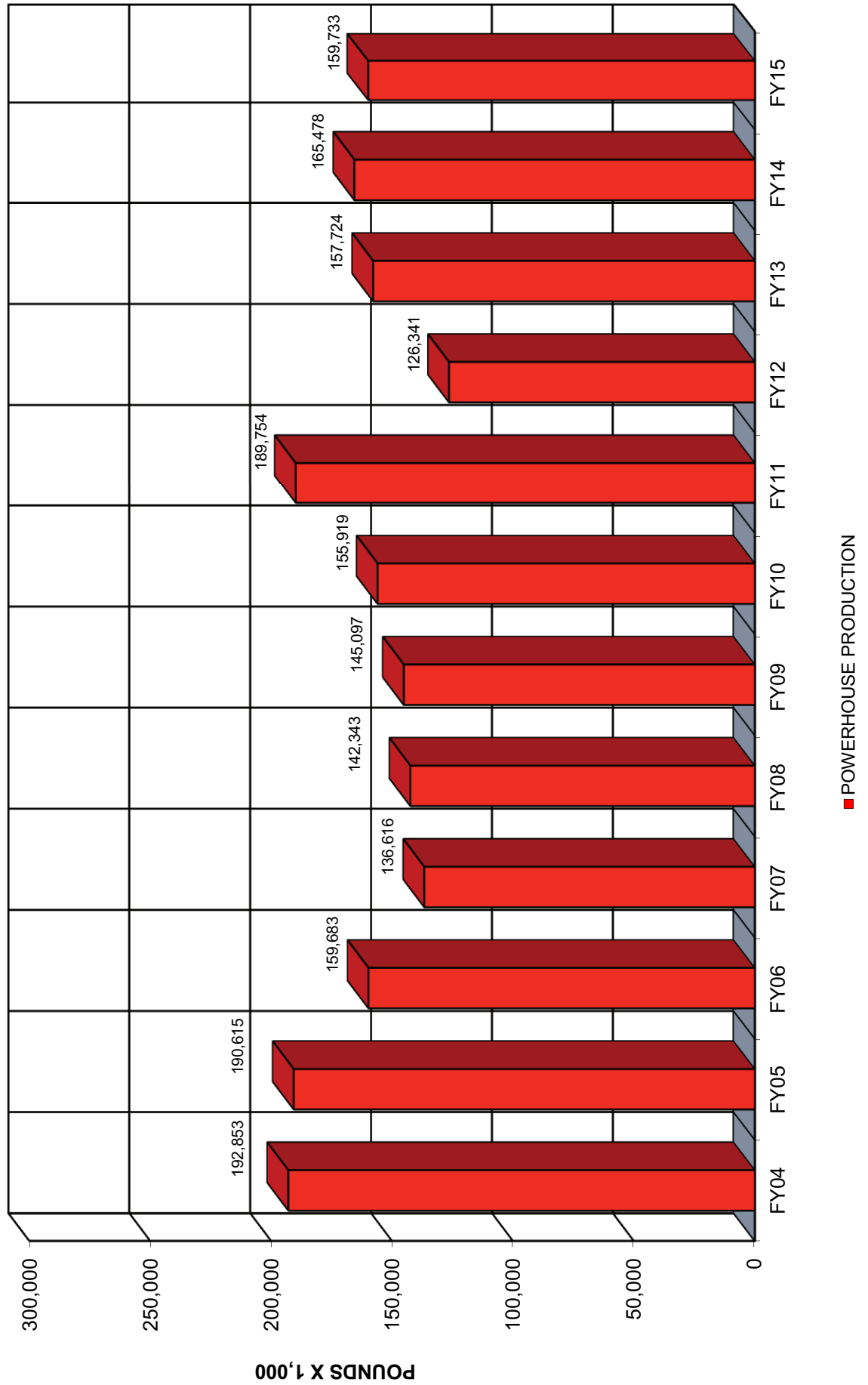
MAIN CAMPUS YEARLY STEAM PRODUCTION



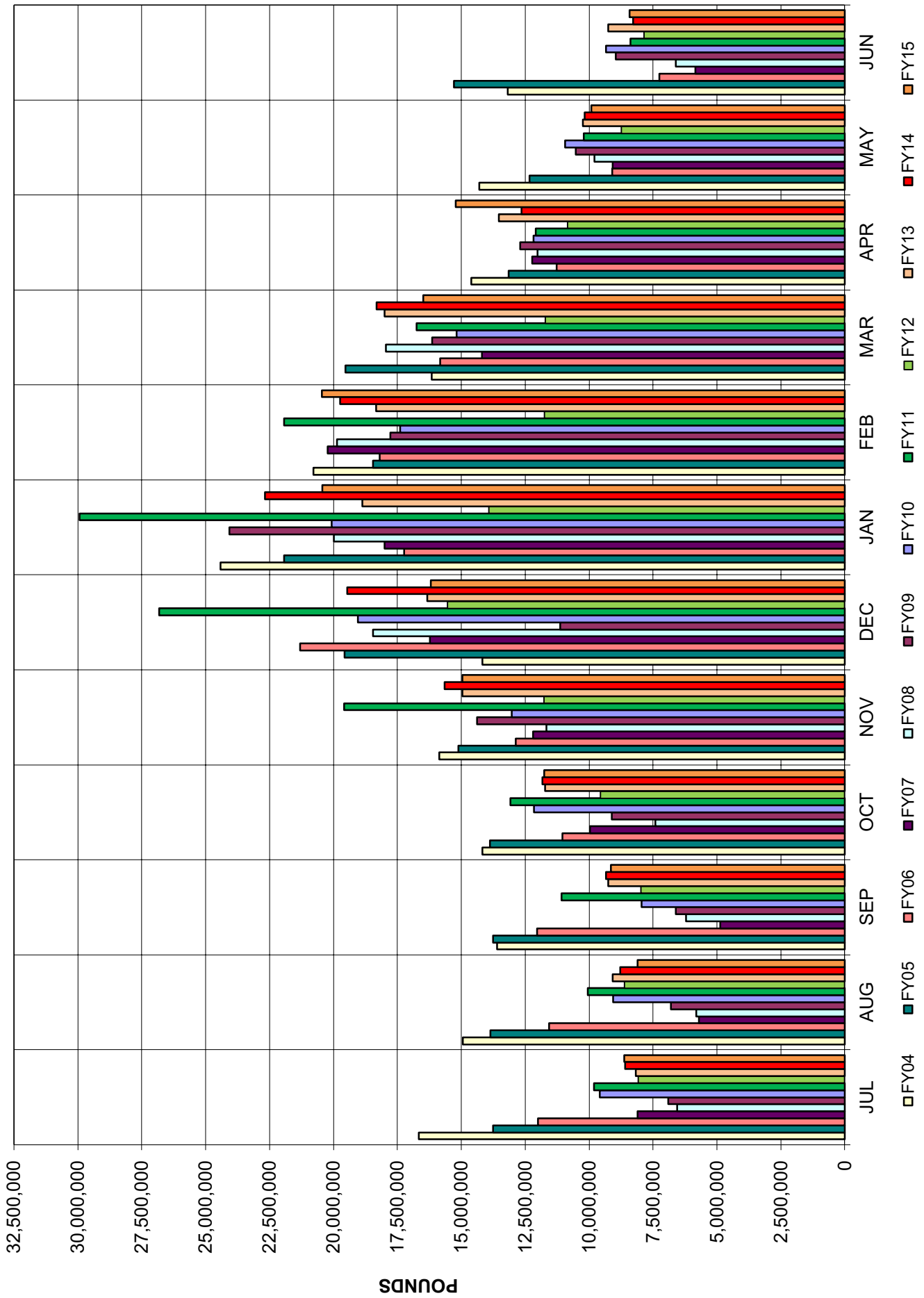
MAIN CAMPUS MONTHLY STEAM PRODUCTION



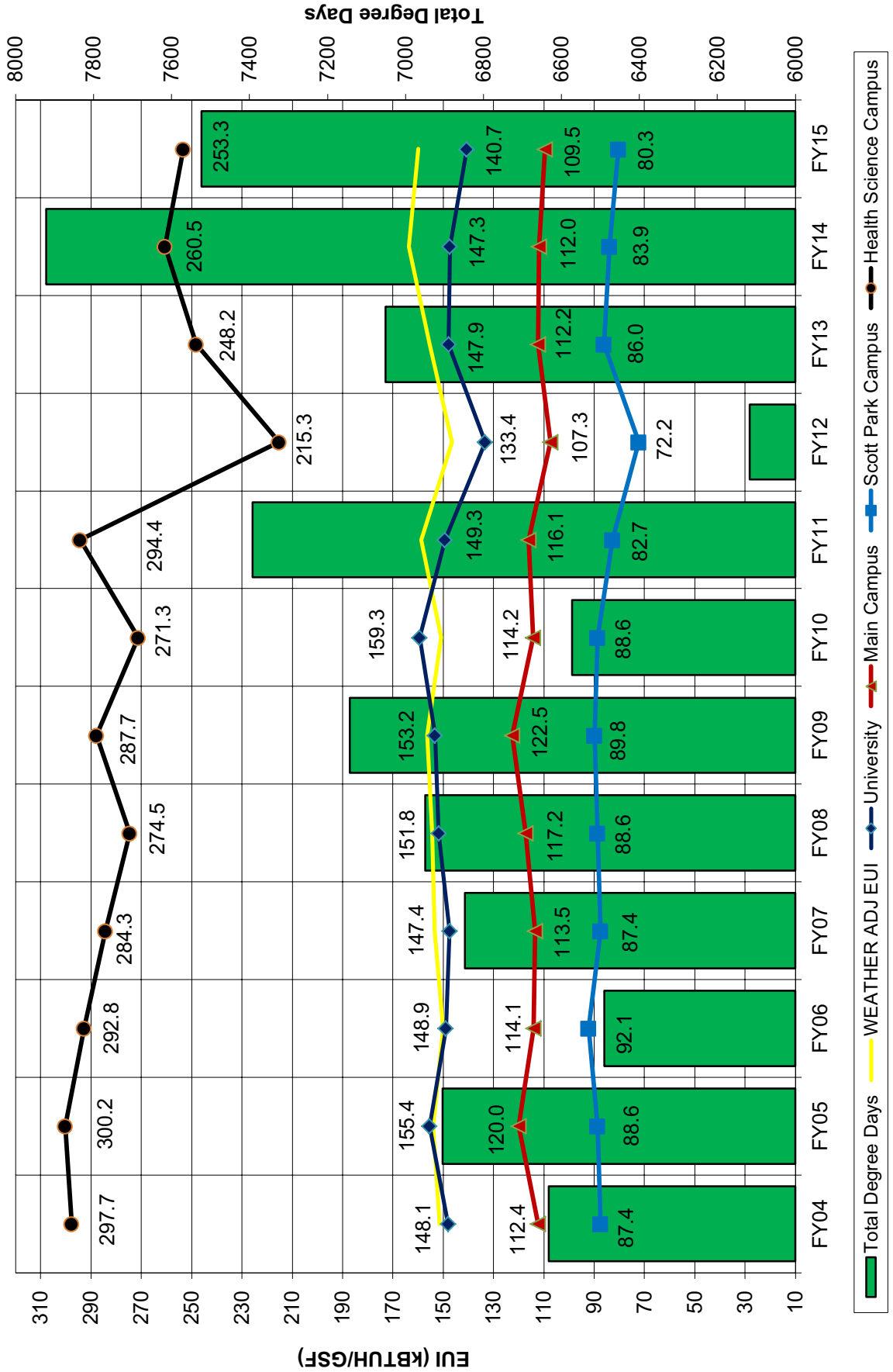
HEALTH SCIENCE CAMPUS YEARLY STEAM PRODUCTION



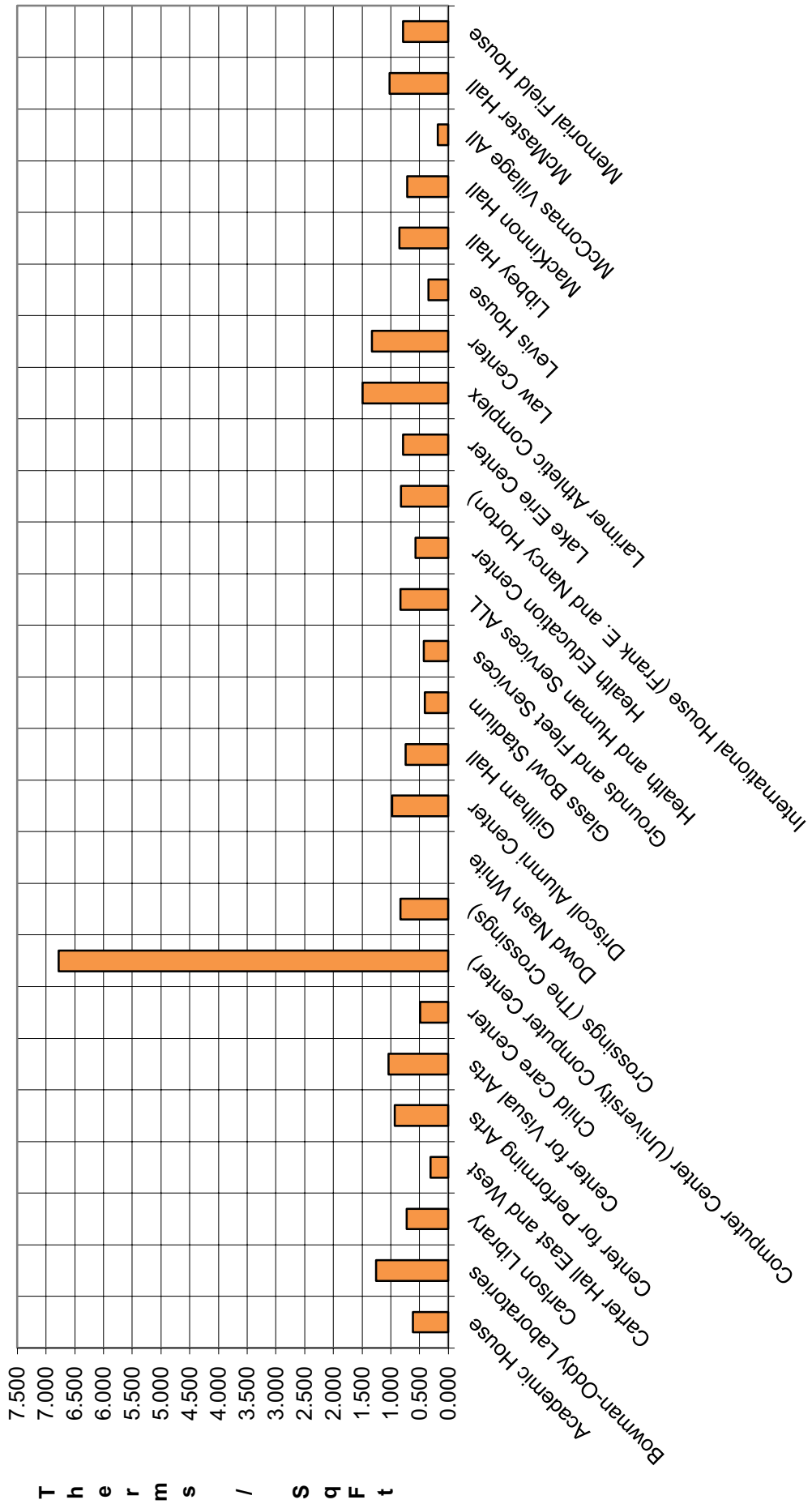
HEALTH SCIENCE CAMPUS MONTHLY STEAM PRODUCTION



UT CAMPUS ENERGY UTILIZATION INDEX

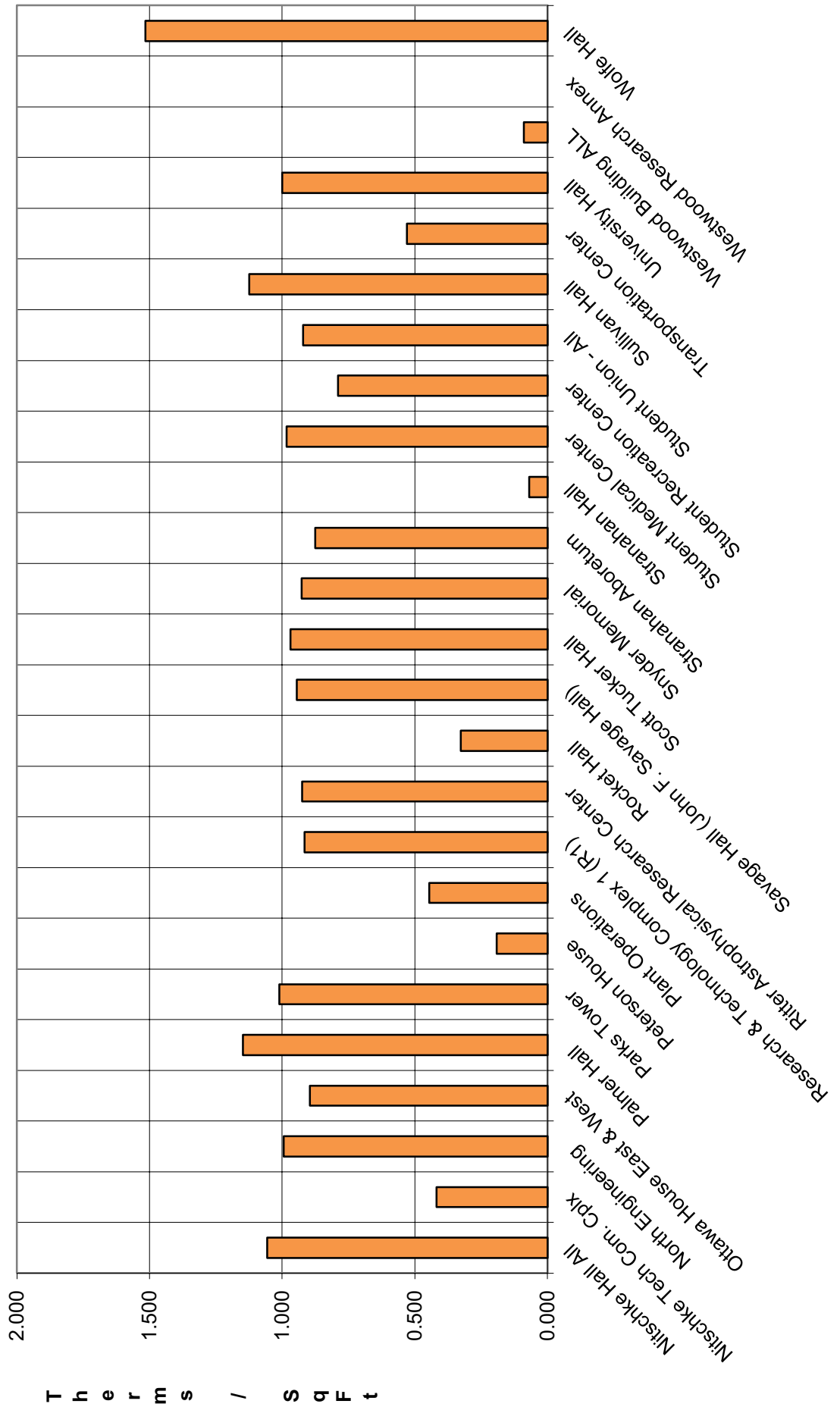


MAIN CAMPUS BUILDING ENERGY UTILIZATION INDEX



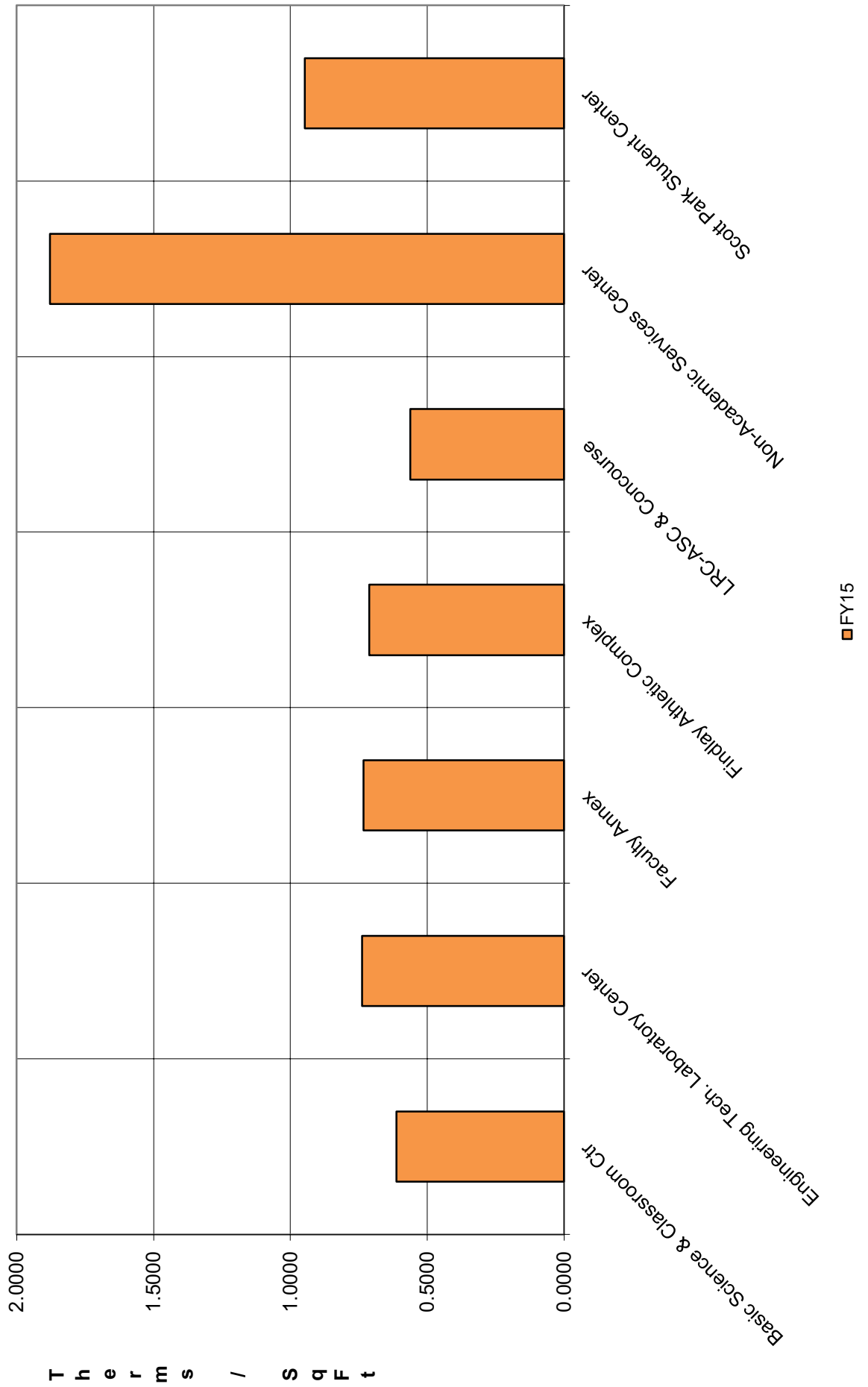
■ FY15

MAIN CAMPUS BUILDING ENERGY UTILIZATION INDEX

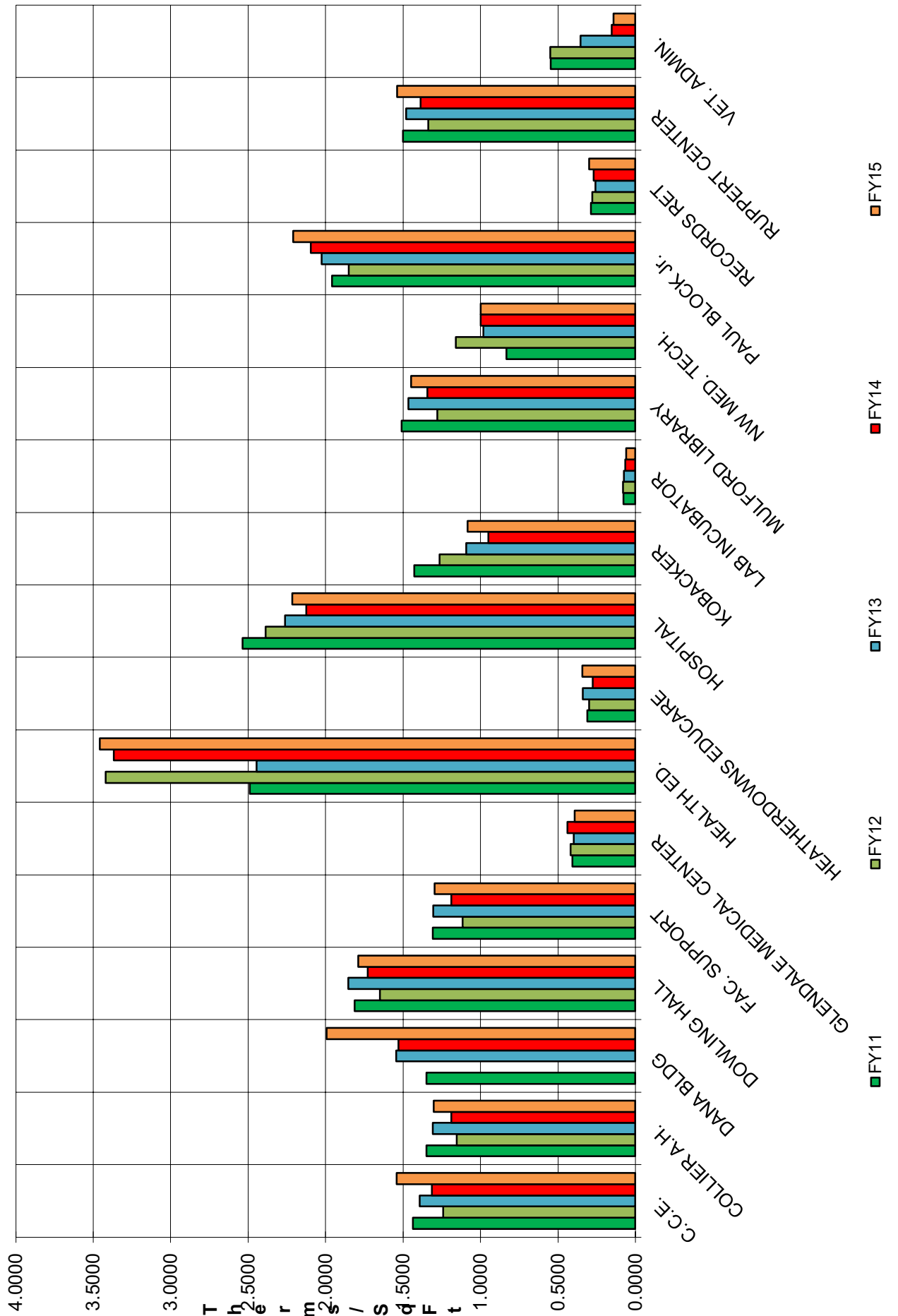


FY15

SCOTT PARK CAMPUS BUILDING ENERGY UTILIZATION INDEX



HEALTH SCIENCE CAMPUS BUILDING ENERGY UTILIZATION INDEX



UNIVERSITY OF TOLEDO
BUILDING Energy USAGE FISCAL YEAR 2015

Main Campus	GSF	Electric kWh	Steam Mlbs	Natural Gas MCF	EUI
Academic House	80,603	192,946	4,279		0.6126
Bowman-Oddy Laboratories	178,727	3,805,797	9,489	679	1.2616
Carlson Library	256,547	1,493,088	13,620		0.7295
Carter Hall East and West	124,889	899,559		8,317	0.3141
Center for Performing Arts	64,983	765,256	3,450		0.9328
Center for Visual Arts	51,899	1,459,518		4,301	1.0448
Child Care Center	15,941	207,201		671	0.4868
Driscoll Alumni Center	38,675	511,236	2,053		0.9821
Gillham Hall	92,347	563,451	4,903		0.7392
Glass Bowl Stadium	103,578	1,157,234		2,809	0.4091
Grounds and Fleet Services	13,009	125,683		1,206	0.4247
Health and Human Services (All)	163,006	1,450,611	8,654		0.8346
Health Education Center	79,016	667,214	4,110	655	0.5714
International House	138,904	1,198,524	7,375	345	0.8279
Lake Erie Center	34,054	655,700		4,495	0.7925
Larimer Athletic Complex	32,139	1,331,613	1,672	576	1.4923
Law Center	125,392	2,933,672	6,657	6	1.3295
Levis House (President's Residence)	6,457	55,793		327	0.3468
Libbey Hall	16,767	155,195	890	136	0.8551
MacKinnon Hall	41,787	226,174	2,219		0.7156
Main Campus Medical Center	12,574	237,090	668		1.1745
McComas Village (All)	124,533	582,932		2,899	0.1836
McMaster Hall	67,194	976,206	3,567		1.0268
Memorial Field House	156,074	1,196,717	8,286		0.7926
Nitschke Hall-Nitschke Aud	132,159	2,034,869		7,016	1.0564
Nitschke Tech Commercialization Cplx	39,961	482,515		219	0.4177
North Engineering	252,894	3,430,992		13,426	0.9939
Ottawa House East & West	271,293	2,748,771	14,403	5,006	0.8956
Palmer Hall	67,040	1,211,317	3,559		1.1476
Parks Tower	166,213	2,280,999	8,824	1,798	1.0104
Peterson House	4,316	22,770		45	0.1908
Plant Operations	30,861	316,747		2,860	0.4453
Presidents Hall (The Crossings)	228,990	2,027,056	12,157	111	0.8335
Research & Technology Complex 1 (R1)	55,209	1,446,225		1,216	0.9166
Ritter Astrophysical Research Center	15,317	176,723	813		0.9247
Rocket Hall	109,552	959,180		3,064	0.3275
Savage Hall (John F. Savage Hall)	199,380	2,414,728	10,585		0.9443
Scott Tucker Hall	42,710	549,020	2,268		0.9696
Sculptural Studies	7,502	104,100		3,321	0.9273
Snyder Memorial	47,947	483,239	2,546		0.8749
Stranahan Arboretum	7,386	7,393		248	0.0686
Stranahan Hall	121,135	1,604,012	6,431		0.9828
Student Recreation Center	157,446	2,963,114	8,359	525	0.7892
Student Union (All)	221,225	2,483,137	11,745	1,711	0.9219
Sullivan Hall	13,401	233,175	711		1.1248
Transportation Center	19,826	270,257		1,248	0.5298
University Computer Center	32,872	1,892,376	1,745	5,640	6.7784
University Hall	292,633	4,010,246	15,536	463	1.0003
Westwood Building (All)	271,332	448,260		8,710	0.0893
Wolfe Hall	188,501	5,444,147	10,008	11	1.5167
SUB TOTALS	5,016,196	62,893,777	191,584	84,061	

UNIVERSITY OF TOLEDO
BUILDING Energy USAGE FISCAL YEAR 2015

	GSF	Electric kWh	Steam Mlbs	Natural Gas MCF	EUI
Health Science Campus					
Center Creative Education	88,810	1,435,946	8,791		1.5417
Collier Allied Health	111,363	1,024,060	11,024		1.3037
Dana Cancer Center	43,975	1,294,620	4,353		1.9947
Dowling Hall	247,616	5,810,116	24,511		1.7907
Facility Support	26,932	243,057	2,666		1.2979
Glendale Medical Center	40,516	440,901		852	0.3930
Glendale Medical East (VA)	40,447	136,542		1,031	0.1413
Health Education Bldg	254,875	18,423,903	25,230		3.4570
Health Science Bldg. (Block)	168,764	6,034,421	16,706		2.2103
Heatherdowns Educare Center	36,400	233,957		4,388	0.3429
Kobacker	41,140	113,091	4,072		1.0837
Lab Incubator (Records Retention)	20,533	31,620		124	0.0587
Mulford Library Bldg	137,930	1,850,457	13,653		1.4478
Northwest Medical Tech Center	38,614	1,051,319		2,662	0.9999
Records Retention	32,086	245,684		1,202	0.2997
Ruppert Center	114,126	1,835,043	11,297		1.5387
University Medical Ctr (Hospital)	378,123	13,573,011	37,430		2.2150
SUB TOTALS	1,822,250	53,777,748	159,733	10,259	
Scott Park Campus					
Basic Science-Allied Health-Classrm Ctr	77,096	1,383,779			0.6126
Engineering Technology Laboratory Center	24,812	536,469			0.7379
Faculty Annex	8,895	190,957			0.7327
Findlay Athletic Complex	6,593	94,222		1,446	0.7125
Learning Resource Ctr-Acad Services Ctr	127,430	2,099,168			0.5622
Non-Academic Services Center	14,881	819,046			1.8785
Scott Park Student Center	30,601	849,442			0.9474
SUB TOTALS	290,308	5,973,084		1,446	
GRAND TOTALS	7,128,754	122,644,609	351,317	95,766	

UNIVERSITY OF TOLEDO
BUILDING Utility COST FISCAL YEAR 2015

Main Campus	Electric	Steam	Natural Gas	Water	Total
Academic House	\$10,162	\$45,442		\$7,392	\$62,996
Bowman-Oddy Laboratories	\$200,820	\$100,762	\$2,644	\$43,213	\$347,439
Carlson Library	\$78,493	\$144,635		\$13,818	\$236,946
Carter Hall East and West	\$46,816		\$35,004	\$30,468	\$112,288
Center for Performing Arts	\$40,187	\$36,636		\$4,501	\$81,324
Center for Visual Arts	\$78,380		\$18,438	\$16,901	\$113,718
Child Care Center	\$11,040		\$5,459	\$3,648	\$20,147
Driscoll Alumni Center	\$26,877	\$21,804		\$4,624	\$53,305
Gillham Hall	\$29,602	\$52,063		\$3,008	\$84,673
Glass Bowl Stadium	\$60,267		\$11,056	\$33,202	\$104,525
Grounds and Fleet Services	\$6,590		\$5,858	\$2,771	\$15,219
Health and Human Services (All)	\$76,514	\$91,899		\$25,773	\$194,186
Health Education Center	\$35,325	\$43,649	\$5,321	\$25,475	\$109,770
International House	\$63,101	\$78,311	\$2,581	\$41,510	\$185,502
Lake Erie Center	\$34,770		\$20,960	\$2,673	\$58,402
Larimer Athletic Complex	\$71,154	\$17,754	\$3,022	\$11,837	\$103,767
Law Center	\$155,295	\$70,693	\$359	\$12,439	\$238,786
Levis House (President's Residence)	\$5,643		\$2,046	\$7,392	\$15,080
Libbey Hall	\$8,160	\$9,453	\$888	\$1,746	\$20,246
MacKinnon Hall	\$11,869	\$23,559		\$8,242	\$43,670
Main Campus Medical Center	\$12,637	\$7,089		\$5,871	\$25,597
McComas Village (All)	\$30,507		\$27,343	\$38,313	\$96,164
McMaster Hall	\$51,550	\$37,882		\$2,189	\$91,621
Memorial Field House	\$63,198	\$87,991		\$154,466	\$305,655
Nitschke Hall-Nitschke Aud	\$108,320		\$74,508	\$25,290	\$208,118
Nitschke Tech Commercialization Cplx	\$25,368		\$2,245	\$6,465	\$34,077
North Engineering	\$182,458		\$142,576	\$48,393	\$373,427
Ottawa House East & West	\$144,429	\$152,949	\$30,565	\$56,073	\$384,017
Palmer Hall	\$64,477	\$37,796	\$14,623	\$12,829	\$129,724
Parks Tower	\$119,481	\$93,707	\$8,759	\$87,828	\$309,775
Peterson House	\$1,757		\$471	\$397	\$2,625
Plant Operations	\$16,647		\$13,898	\$6,573	\$37,118
Presidents Hall (The Crossings)	\$106,392	\$129,099	\$559	\$38,949	\$274,999
Research & Technology Complex 1 (R1)	\$76,756		\$9,205	\$3,715	\$89,676
Ritter Astrophysical Research Center	\$9,374	\$8,635		\$499	\$18,508
Rocket Hall	\$50,398		\$15,707	\$16,669	\$82,774
Savage Hall (John F. Savage Hall)	\$127,171	\$112,406		\$6,952	\$246,529
Scott Tucker Hall	\$29,270	\$24,079		\$6,192	\$59,541
Sculptural Studies	\$13,640		\$15,441	\$9,276	\$38,357
Snyder Memorial	\$25,570	\$27,031		\$1,562	\$54,163
Stranahan Arboretum	\$14,960		\$1,902	\$469	\$17,331
Stranahan Hall	\$84,596	\$68,293		\$3,946	\$156,835
Student Recreation Center	\$157,175	\$88,764	\$3,591	\$56,267	\$305,797
Student Union (All)	\$130,698	\$124,722	\$9,008	\$81,058	\$345,486
Sullivan Hall	\$12,231	\$7,555		\$1,229	\$21,015
Transportation Center	\$14,327		\$5,139	\$2,452	\$21,917
University Computer Center	\$100,969	\$18,532	\$21,963	\$11,361	\$152,826
University Hall	\$211,423	\$164,980	\$2,067	\$9,532	\$388,002
Westwood Building (All)	\$40,094		\$41,525	\$3,074	\$84,693
Wolfe Hall	\$286,874	\$106,273	\$274	\$50,770	\$444,190
SUB TOTALS	\$3,363,812	\$2,034,445	\$555,003	\$1,049,289	\$7,002,549

UNIVERSITY OF TOLEDO
BUILDING Utility COST FISCAL YEAR 2015

Health Science Campus	Electric	Steam	Natural Gas	Water	Total
Center Creative Education	\$81,410	\$87,673		\$7,563	\$176,646
Collier Allied Health	\$58,246	\$109,937		\$8,757	\$176,940
Dana Cancer Center	\$73,472	\$43,412		\$6,075	\$122,959
Dowling Hall	\$330,051	\$244,445		\$35,133	\$609,629
Facility Support	\$13,848	\$26,587		\$2,924	\$43,359
Glendale Medical Center	\$25,014		\$5,068	\$8,992	\$39,075
Glendale Medical East (VA)	\$7,851		\$4,641	\$5,077	\$17,570
Health Education Bldg	\$1,051,561	\$251,611		\$126,790	\$1,429,962
Health Science Bldg. (Block)	\$343,105	\$166,602		\$126,790	\$636,498
Heatherdowns Educare Center	\$23,465		\$20,886	\$4,843	\$49,194
Kobacker	\$6,438	\$40,613		\$7,021	\$54,071
Lab Incubator (Records Retention)	\$1,773		\$729	\$1,243	\$3,746
Mulford Library Bldg	\$105,127	\$136,163		\$2,124	\$243,414
Northwest Medical Tech Center	\$59,687		\$14,490	\$7,184	\$81,361
Records Retention	\$13,937		\$6,244	\$1,630	\$21,811
Ruppert Center	\$104,113	\$112,664		\$19,494	\$236,271
University Medical Ctr (Hospital)	\$772,976	\$373,280		\$369,545	\$1,515,801
SUB TOTALS	\$3,072,072	\$1,592,986	\$52,058	\$741,187	\$5,458,303
Scott Park Campus					
Basic Science-Allied Health-Classrm Ctr	\$129,078			\$9,449	\$138,527
Engineering Technology Laboratory Center	\$49,275			\$3,041	\$52,316
Faculty Annex	\$18,320			\$1,090	\$19,410
Findlay Athletic Complex	\$9,481		\$10,018	\$5,587	\$25,087
Learning Resource Ctr-Acad Services Ctr	\$194,628			\$15,619	\$210,247
Non-Academic Services Center	\$85,759			\$10,055	\$95,814
Scott Park Student Center	\$80,174			\$4,029	\$84,202
SUB TOTALS	\$566,715		\$10,018	\$48,870	\$625,603
GRAND TOTALS	\$7,002,599	\$3,627,431	\$617,079	\$1,839,346	\$13,086,455

BUILDING: Academic House
 FY YEAR: 2015
 DATE: 01/12/16

MONTH	DEGREE DAYS (DD)		ELECTRICITY			PURCHASED STEAM			NATURAL GAS		TOTAL ENERGY COST			
	Heating	Cooling	% P.F.	kWh	kWh per DD	Cost per kWh	TOTAL	M (LBS)	M (Lbs) per DD	Cost per M(Lbs)		100 cubic feet (Mcf)	Cost per Mcf	TOTAL
July	9	137	100%	18,803	129	\$0.051	\$968	6	0.04	\$10.62	0	\$0.00	0	\$1,028
August	5	208	100%	16,194	76	\$0.053	\$858	3	0.01	\$10.62	0	\$0.00	0	\$891
September	125	56	100%	15,709	87	\$0.055	\$857	78	0.43	\$10.62	0	\$0.00	0	\$1,681
October	412	0	100%	11,185	27	\$0.060	\$670	256	0.62	\$10.62	0	\$0.00	0	\$3,385
November	887	0	100%	14,912	17	\$0.050	\$750	550	0.62	\$10.62	0	\$0.00	0	\$6,595
December	988	0	100%	16,585	17	\$0.049	\$817	613	0.62	\$10.62	0	\$0.00	0	\$7,328
1st half yr	2426	401		93,388	33	\$0.053	\$4,921	1,505	0.53	\$10.62	0	\$0.00	0	\$20,908
January	1367	0	100%	16,625	12	\$0.049	\$815	848	0.62	\$10.62	0	\$0.00	0	\$9,823
February	1463	0	100%	14,641	10	\$0.051	\$747	908	0.62	\$10.62	0	\$0.00	0	\$10,388
March	990	0	100%	18,254	18	\$0.050	\$908	614	0.62	\$10.62	0	\$0.00	0	\$7,432
April	483	0	100%	17,467	36	\$0.050	\$870	300	0.62	\$10.62	0	\$0.00	0	\$4,053
May	132	93	100%	15,594	69	\$0.051	\$798	82	0.36	\$10.62	0	\$0.00	0	\$1,668
June	35	133	100%	16,977	101	\$0.065	\$1,102	22	0.13	\$10.62	0	\$0.00	0	\$1,332
2nd half yr	4470	226		99,558	21	\$0.053	\$5,241	2,774	0.59	\$10.62	0	\$0.00	0	\$34,697
TOTAL YEAR	6896	627		192,946	26	\$0.053	\$10,162	4,279	0.57	\$10.62	0	\$0.00	0	\$55,604

Building Data: 1991 Energy Consumption to BTU Conversions
 Gross Area (ft)2 80,603 Electricity = KWH X 3413
 Gross Volume (ft)3 644,824 Steam = M (lbs) X 1,000,000
 General Notes: Natural Gas = MCF X 102,500
 Other Fuel 0
 TOTAL BTU's x 1,000 4,937,824

Energy Utilization Index =
 Total BTU Consumption/Yr 4,937,823,584
 Gross Area (ft) 2 80,603
 Divided by 100,000 = 0.6126 THERMS

CHILLED WATER COST/YEAR \$21,000
 ENERGY COST / SQ. FT. / YEAR \$0.95
 WATER COST TOTAL/YEAR \$7,392
 WATER / SQ. FT. / YEAR \$0.09
 UTILITY COST/YEAR \$83,996

MONTH	DEGREE DAYS (DD)		ELECTRICITY			PURCHASED STEAM		NATURAL GAS		TOTAL ENERGY COST			
	Heating	Cooling	% P.F.	kWh	kWh per DD	Cost per kWh	TOTAL	M (LBS)	M (Lbs) per DD		Cost per M(Lbs)	100 cubic feet (Mcf)	Cost per Mcf
July	9	137	100%	332,437	2,277	\$0.051	\$17,118	12	0.08	\$10.62	1	\$6.16	\$6
August	5	208	100%	273,076	1,282	\$0.053	\$14,466	7	0.03	\$10.62	0	\$0.00	\$0
September	125	56	100%	323,047	1,785	\$0.055	\$17,626	172	0.95	\$10.62	1	\$10.03	\$10
October	412	0	100%	315,577	766	\$0.060	\$18,915	567	1.38	\$10.62	0	\$0.00	\$0
November	887	0	100%	313,000	353	\$0.050	\$15,749	1,221	1.38	\$10.62	6	\$5.78	\$35
December	988	0	100%	339,405	344	\$0.049	\$16,723	1,359	1.38	\$10.62	5	\$6.26	\$31
1st half yr	2426	401		1,896,541	671	\$0.053	\$100,597	3,338	1.18	\$10.62	13	\$6.32	\$82
January	1367	0	100%	322,200	236	\$0.049	\$15,803	1,881	1.38	\$10.62	20	\$3.74	\$75
February	1463	0	100%	315,553	216	\$0.051	\$16,103	2,013	1.38	\$10.62	31	\$3.69	\$115
March	990	0	100%	324,671	328	\$0.050	\$16,158	1,362	1.38	\$10.62	129	\$3.91	\$505
April	483	0	100%	317,989	658	\$0.050	\$15,845	665	1.38	\$10.62	359	\$3.83	\$1,373
May	132	93	100%	327,732	1,457	\$0.051	\$16,774	182	0.81	\$10.62	107	\$3.92	\$419
June	35	133	100%	301,112	1,792	\$0.065	\$19,540	48	0.29	\$10.62	20	\$3.79	\$76
2nd half yr	4470	226		1,909,256	407	\$0.052	\$100,223	6,151	1.31	\$10.62	666	\$3.85	\$2,562
TOTAL YEAR	6896	627		3,805,797	506	\$0.053	\$200,820	9,489	1.26	\$10.62	679	\$3.89	\$2,644

Building Data: 1966 Energy Consumption to BTU Conversions

Gross Area (ft)2 178,727 Electricity = KWH X 3413 BTU's x 1,000
 12,989,185

Gross Volume (ft)3 1,429,816 Steam = M (lbs) X 1,000,000 9,488,806
 Natural Gas = MCF X 102,500 69,598
 Other Fuel 0

General Notes: TOTAL BTU's x 1,000 22,547,589
 Divided by 100,000 = 1.2616 THERMS

ENERGY COST / SQ. FT. / YEAR \$1.70
 WATER COST TOTAL/YEAR \$43,213
 WATER / SQ. FT. / YEAR \$0.24
 UTILITY COST/YEAR \$347,439

BUILDING: Carlson Library
 FY YEAR: 2015
 DATE: 01/12/16

MONTH	DEGREE DAYS (DD)		ELECTRICITY			PURCHASED STEAM		FUEL OIL		TOTAL ENERGY COST		
	Heating	Cooling	% P.F.	kWh	kWh per DD	Cost per kWh	M (LBS)	M (Lbs) per DD	Cost per M(Lbs)		Load-shed Hours	Cost per Gal
July	9	137	100%	120,617	762	\$0.051	18	0.12	\$10.62	0	\$4.50	\$0
August	5	208	100%	141,223	872	\$0.053	10	0.05	\$10.62	0	\$4.50	\$0
September	125	56	100%	113,763	1,527	\$0.055	247	1.36	\$10.62	0	\$4.50	\$0
October	412	0	100%	103,319	840	\$0.060	814	1.98	\$10.62	0	\$4.50	\$0
November	887	0	100%	127,702	356	\$0.050	1,752	1.98	\$10.62	0	\$4.50	\$0
December	988	0	100%	128,124	188	\$0.049	1,951	1.98	\$10.62	0	\$4.50	\$0
1st half yr	2426	401		734,748	260	\$0.053	4,792	1.69	\$10.62	0	\$4.50	\$0
January	1367	0	100%	128,656	174	\$0.049	2,700	1.98	\$10.62	0	\$4.50	\$0
February	1463	0	100%	129,350	232	\$0.051	2,890	1.98	\$10.62	0	\$4.50	\$0
March	990	0	100%	131,420	302	\$0.050	1,955	1.98	\$10.62	0	\$4.50	\$0
April	483	0	100%	147,633	560	\$0.050	954	1.98	\$10.62	0	\$4.50	\$0
May	132	93	100%	109,709	939	\$0.051	261	1.16	\$10.62	0	\$4.50	\$0
June	35	133	100%	111,572	1,197	\$0.065	69	0.41	\$10.62	0	\$4.50	\$0
2nd half yr	4470	226		758,340	161	\$0.052	8,829	1.88	\$10.62	0	\$4.50	\$0
TOTAL YEAR	6896	627		1,493,088	198	\$0.053	13,620	1.81	\$10.62	0	\$4.50	\$0

Building Data: 1973
 Energy Consumption to BTU Conversions
 BTU's x 1,000
 5,095,909

Gross Area (ft)2 256,547
 Electricity = KWH X 3413

Gross Volume (ft)3 2,052,376
 Steam = M (lbs) X 1,000,000
 13,620,353

General Notes:
 Fuel Oil = Gallons X 138,690
 0
 Other Fuel
 0

Energy Utilization Index =
 $\frac{\text{Total BTU Consumption/Yr}}{\text{Gross Area (ft) }^2}$
 $\frac{18,716,262,075}{256,547}$
 Divided by 100,000 = 0.7295 THERMS

ENERGY COST / SQ. FT. / YEAR \$0.87
 WATER COST TOTAL/YEAR \$13,818
 WATER / SQ. FT. / YEAR \$0.05
 UTILITY COST/YEAR \$236,946

TOTAL BTU's x 1,000 18,716,262

BUILDING: Carter Hall East and West
 FY YEAR: 2015

DATE: 01/12/16

MONTH	DEGREE DAYS (DD)		ELECTRICITY			NATURAL GAS			FUEL OIL		TOTAL ENERGY COST				
	Heating	Cooling	% P.F.	kWh	kWh per DD	Cost per kWh	TOTAL	1000 cubic feet (Mcf)	Mcf per DD	Cost per Mcf		TOTAL	Load-shed Hours	Cost per Gal	@20 Gal/Hr TOTAL
July	9	137	100%	37,921	260	\$0.051	\$1,953	35	0.24	\$6.16	216	0	\$4.50	\$0	\$2,168
August	5	208	100%	62,670	294	\$0.053	\$3,320	34	0.16	\$9.93	338	0	\$4.50	\$0	\$3,658
September	125	56	100%	75,188	415	\$0.055	\$4,102	39	0.22	\$10.02	391	0	\$4.50	\$0	\$4,493
October	412	0	100%	84,984	206	\$0.060	\$5,094	93	0.23	\$8.59	799	0	\$4.50	\$0	\$5,893
November	887	0	100%	100,596	113	\$0.050	\$5,062	281	0.32	\$5.78	1,624	0	\$4.50	\$0	\$6,686
December	988	0	100%	93,035	94	\$0.049	\$4,584	725	0.73	\$6.26	4,539	0	\$4.50	\$0	\$9,123
1st half yr	2426	401		454,395	161	\$0.053	\$24,114	1,207	0.43	\$6.55	7,906	0	\$4.50	\$0	\$32,021
January	1367	0	100%	101,240	74	\$0.049	\$4,966	1,191	0.87	\$3.74	4,458	0	\$4.50	\$0	\$9,424
February	1463	0	100%	99,734	68	\$0.051	\$5,090	1,392	0.95	\$3.69	5,143	0	\$4.50	\$0	\$10,232
March	990	0	100%	89,450	90	\$0.050	\$4,452	1,259	1.27	\$3.91	4,926	0	\$4.50	\$0	\$9,378
April	483	0	100%	64,179	133	\$0.050	\$3,198	1,568	3.25	\$3.83	5,998	0	\$4.50	\$0	\$9,196
May	132	93	100%	64,179	285	\$0.051	\$3,285	1,008	4.48	\$3.92	3,947	0	\$4.50	\$0	\$7,231
June	35	133	100%	26,382	157	\$0.065	\$1,712	692	4.12	\$3.79	2,626	0	\$4.50	\$0	\$4,338
2nd half yr	4470	226		445,164	95	\$0.051	\$22,701	7,110	1.51	\$3.81	\$27,098	0	\$4.50	\$0	\$49,799
TOTAL YEAR	6896	627		899,559	120	\$0.052	\$46,816	8,317	1.11	\$4.21	\$35,004	0	\$4.50	\$0	\$81,820

Building Data: 1964 Energy Consumption to BTU Conversions

BTU's x 1,000
3,070,196

Energy Utilization Index =

$$\frac{\text{Total BTU Consumption/Yr}}{\text{Gross Area (ft}^2\text{)}} = \frac{3,922,688,391}{124,889}$$

$$\text{Divided by } 100,000 = 0.3141 \text{ THERMS}$$

ENERGY COST / SQ. FT. / YEAR \$0.66
 WATER COST TOTAL/YEAR \$30,468
 WATER / SQ. FT. / YEAR \$0.24
 UTILITY COST/YEAR \$112,288

TOTAL BTU's x 1,000 3,922,688

Natural Gas = MCF X 102,500 852,493

Electricity = KWH X 3413 3,070,196

Fuel Oil = Gallons X 138,690 0

Other Fuel 0

BUILDING: Center for Performing Arts
 FY YEAR: 2015
 DATE: 01/12/16

MONTH	DEGREE DAYS (DD)		ELECTRICITY			PURCHASED STEAM		FUEL OIL		TOTAL ENERGY COST		
	Heating	Cooling	% P.F.	kWh	kWh per DD	Cost per kWh	M (LBS)	M (Lbs) per DD	Cost per M(Lbs)		Load-shed Hours	Cost per Gal
July	9	137	100%	55,186	378	\$0.051	5	0.03	\$10.62	0	\$4.50	\$0
August	5	208	100%	62,297	292	\$0.053	3	0.01	\$10.62	0	\$4.50	\$0
September	125	56	100%	58,840	325	\$0.055	63	0.35	\$10.62	0	\$4.50	\$0
October	412	0	100%	57,945	141	\$0.060	206	0.50	\$10.62	0	\$4.50	\$0
November	887	0	100%	67,164	76	\$0.050	444	0.50	\$10.62	0	\$4.50	\$0
December	988	0	100%	67,195	68	\$0.049	494	0.50	\$10.62	0	\$4.50	\$0
1st half yr	2426	401		368,627	130	\$0.053	1,214	0.43	\$10.62	0	\$4.50	\$0
January	1367	0	100%	76,485	56	\$0.049	684	0.50	\$10.62	0	\$4.50	\$0
February	1463	0	100%	72,886	50	\$0.051	732	0.50	\$10.62	0	\$4.50	\$0
March	990	0	100%	68,732	69	\$0.050	495	0.50	\$10.62	0	\$4.50	\$0
April	483	0	100%	64,687	134	\$0.050	242	0.50	\$10.62	0	\$4.50	\$0
May	132	93	100%	60,551	269	\$0.051	66	0.29	\$10.62	0	\$4.50	\$0
June	35	133	100%	53,289	317	\$0.065	18	0.10	\$10.62	0	\$4.50	\$0
2nd half yr	4470	226		396,629	84	\$0.052	2,236	0.48	\$10.62	0	\$4.50	\$0
TOTAL YEAR	6896	627		765,256	102	\$0.053	3,450	0.46	\$10.62	0	\$4.50	\$0

Building Data: 1976
 Gross Area (ft)2: 64,983
 Gross Volume (ft)3: 519,864
 General Notes:

Energy Consumption to BTU Conversions
 BTU's x 1,000: 2,611,819
 Electricity = KWH X 3413
 Steam = M (lbs) X 1,000,000
 Fuel Oil = Gallons X 138,690
 Other Fuel

Energy Utilization Index =
 Total BTU Consumption/Yr: 6,061,835,905
 Gross Area (ft) 2: 64,983
 Divided by 100,000 = 0.9328 THERMS

TOTAL BTU's x 1,000: 6,061,836

ENERGY COST / SQ. FT. / YEAR: \$1.18
 WATER COST TOTAL/YEAR: \$4,501
 WATER / SQ. FT. / YEAR: \$0.07
 UTILITY COST/YEAR: \$81,324

BUILDING: Center for Visual Arts
 FY YEAR: 2015

DATE: 01/12/16

MONTH	DEGREE DAYS (DD)		ELECTRICITY			NATURAL GAS			FUEL OIL		TOTAL ENERGY COST				
	Heating	Cooling	% P.F.	kWh	kWh per DD	Cost per kWh	TOTAL	1000 cubic feet (Mcf)	Mcf per DD	Cost per Mcf		TOTAL	Load-shed Hours	Cost per Gal	@20 Gal/Hr TOTAL
July	9	137	100%	168,300	1,153	\$0.051	\$8,666	489	3.35	\$4.38	2,140	0	\$4.50	\$0	\$10,807
August	5	208	100%	108,120	508	\$0.053	\$5,728	322	1.51	\$6.12	1,970	0	\$4.50	\$0	\$7,698
September	125	56	100%	138,822	767	\$0.055	\$7,574	306	1.69	\$4.28	1,311	0	\$4.50	\$0	\$8,885
October	412	0	100%	270,096	656	\$0.060	\$16,189	307	0.75	\$4.31	1,323	0	\$4.50	\$0	\$17,512
November	887	0	100%	119,340	135	\$0.050	\$6,005	367	0.41	\$4.11	1,508	0	\$4.50	\$0	\$7,513
December	988	0	100%	89,964	91	\$0.049	\$4,433	296	0.30	\$3.87	1,146	0	\$4.50	\$0	\$5,578
1st half yr	2426	401		894,642	316	\$0.054	\$48,594	2,087	0.74	\$4.50	9,399	0	\$4.50	\$0	\$57,993
January	1367	0	100%	72,318	53	\$0.049	\$3,547	453	0.33	\$3.84	1,740	0	\$4.50	\$0	\$5,287
February	1463	0	100%	82,110	56	\$0.051	\$4,190	462	0.32	\$3.95	1,824	0	\$4.50	\$0	\$6,015
March	990	0	100%	157,080	159	\$0.050	\$7,817	463	0.47	\$4.16	1,927	0	\$4.50	\$0	\$9,744
April	483	0	100%	71,298	148	\$0.050	\$3,553	385	0.80	\$4.13	1,589	0	\$4.50	\$0	\$5,141
May	132	93	100%	82,926	369	\$0.051	\$4,244	237	1.05	\$4.38	1,038	0	\$4.50	\$0	\$5,283
June	35	133	100%	99,144	590	\$0.065	\$6,434	214	1.27	\$4.30	921	0	\$4.50	\$0	\$7,355
2nd half yr	4470	226		564,876	120	\$0.053	\$29,785	2,214	0.47	\$4.08	\$9,039	0	\$4.50	\$0	\$38,825
TOTAL YEAR	6896	627		1,459,518	194	\$0.054	\$78,380	4,301	0.57	\$4.29	\$18,438	0	\$4.50	\$0	\$96,817

Building Data: 1991 Energy Consumption to BTU Conversions

Gross Area (ft)2 51,899 Electricity = KWH X 3413 BTU's x 1,000 4,981,335

Gross Volume (ft)3 415,192 Natural Gas = MCF X 102,500 440,853
 Fuel Oil = Gallons X 138,690 0
 Other Fuel 0

General Notes: Total BTU Consumption/Yr 5,422,187,434
 Divided by 100,000 = 1.0448 THERMS
 Gross Area (ft)2 51,899

TOTAL BTU's x 1,000 5,422,187

ENERGY COST / SQ. FT. / YEAR \$1.87
 WATER COST TOTAL/YEAR \$16,901
 WATER / SQ. FT. / YEAR \$0.33
 UTILITY COST/YEAR \$113,718

BUILDING: Child Care Center
 FY YEAR: 2015
 DATE: 01/12/16

MONTH	DEGREE DAYS (DD)		ELECTRICITY			NATURAL GAS			FUEL OIL		TOTAL ENERGY COST				
	Heating	Cooling	% P.F.	kWh	kWh per DD	Cost per kWh	TOTAL	1000 cubic feet (Mcf)	Mcf per DD	Cost per Mcf		TOTAL	Load-shed Hours	Cost per Gal	@20 Gal/Hr TOTAL
July	9	137	100%	24,481	168	\$0.051	\$1,261	92	0.63	\$1.56	144	0	\$4.50	\$0	\$1,404
August	5	208	100%	25,328	119	\$0.053	\$1,342	12	0.05	\$14.08	163	0	\$4.50	\$0	\$1,505
September	125	56	100%	17,950	99	\$0.055	\$979	14	0.07	\$13.26	179	0	\$4.50	\$0	\$1,158
October	412	0	100%	14,950	36	\$0.060	\$896	29	0.07	\$10.61	306	0	\$4.50	\$0	\$1,202
November	887	0	100%	13,704	15	\$0.050	\$690	52	0.06	\$9.39	488	0	\$4.50	\$0	\$1,178
December	988	0	100%	13,697	14	\$0.049	\$675	126	0.13	\$8.33	1,050	0	\$4.50	\$0	\$1,725
1st half yr	2426	401		110,110	39	\$0.053	\$5,842	324	0.11	\$7.19	2,330	0	\$4.50	\$0	\$8,172
January	1367	0	100%	13,991	10	\$0.049	\$686	103	0.07	\$8.39	860	0	\$4.50	\$0	\$1,546
February	1463	0	100%	13,352	9	\$0.051	\$681	60	0.04	\$8.94	536	0	\$4.50	\$0	\$1,218
March	990	0	100%	13,777	14	\$0.050	\$686	51	0.05	\$9.18	466	0	\$4.50	\$0	\$1,151
April	483	0	100%	14,934	31	\$0.050	\$744	72	0.15	\$8.73	627	0	\$4.50	\$0	\$1,371
May	132	93	100%	19,159	85	\$0.051	\$981	39	0.17	\$9.88	385	0	\$4.50	\$0	\$1,365
June	35	133	100%	21,878	130	\$0.065	\$1,420	23	0.14	\$10.99	256	0	\$4.50	\$0	\$1,676
2nd half yr	4470	226		97,091	21	\$0.054	\$5,198	347	0.07	\$9.01	\$3,129	0	\$4.50	\$0	\$8,327
TOTAL YEAR	6896	627		207,201	28	\$0.053	\$11,040	671	0.09	\$8.13	\$5,459	0	\$4.50	\$0	\$16,499

Building Data: 1996 Energy Consumption to BTU Conversions
 Gross Area (ft)2 15,941 Electricity = KWH X 3413 BTU's x 1,000 707,178
 Gross Volume (ft)3 127,528 Natural Gas = MCF X 102,500 68,788
 General Notes: Fuel Oil = Gallons X 138,690 0
 Other Fuel 0
 TOTAL BTU's x 1,000 775,966

Energy Utilization Index =
 Total BTU Consumption/Yr 775,966,128
 Gross Area (ft)2 15,941
 Divided by 100,000 = 0.4868 THERMS

ENERGY COST / SQ. FT. / YEAR \$1.04
 WATER COST TOTAL/YEAR \$3,648
 WATER / SQ. FT. / YEAR \$0.23
 UTILITY COST/YEAR \$20,147

MONTH	DEGREE DAYS (DD)		ELECTRICITY			PURCHASED STEAM		FUEL OIL		TOTAL ENERGY COST				
	Heating	Cooling	% P.F.	kWh	kWh per DD	Cost per kWh	TOTAL	M (LBS)	M (Lbs) per DD		Cost per M(Lbs)	Load-shed Hours	Cost per Gal	@20 Gal/Hr TOTAL
July	9	137	100%	38,581	264	\$0.051	\$1,987	3	0.02	\$10.62	0	\$4.50	\$0	\$2,015
August	5	208	100%	42,191	198	\$0.053	\$2,235	1	0.01	\$10.62	0	\$4.50	\$0	\$2,251
September	125	56	100%	38,348	212	\$0.055	\$2,092	37	0.21	\$10.62	0	\$4.50	\$0	\$2,488
October	412	0	100%	38,838	94	\$0.060	\$2,328	123	0.30	\$10.62	0	\$4.50	\$0	\$3,630
November	887	0	100%	41,574	47	\$0.050	\$2,092	264	0.30	\$10.62	0	\$4.50	\$0	\$4,896
December	988	0	100%	46,335	47	\$0.049	\$2,283	294	0.30	\$10.62	0	\$4.50	\$0	\$5,407
1st half yr	2426	401		245,867	87	\$0.053	\$13,017	722	0.26	\$10.62	0	\$4.50	\$0	\$20,687
January	1367	0	100%	47,366	35	\$0.049	\$2,323	407	0.30	\$10.62	0	\$4.50	\$0	\$6,645
February	1463	0	100%	51,940	36	\$0.051	\$2,651	436	0.30	\$10.62	0	\$4.50	\$0	\$7,276
March	990	0	100%	48,406	49	\$0.050	\$2,409	295	0.30	\$10.62	0	\$4.50	\$0	\$5,539
April	483	0	100%	42,108	87	\$0.050	\$2,098	144	0.30	\$10.62	0	\$4.50	\$0	\$3,625
May	132	93	100%	38,172	170	\$0.051	\$1,954	39	0.17	\$10.62	0	\$4.50	\$0	\$2,371
June	35	133	100%	37,378	222	\$0.065	\$2,426	10	0.06	\$10.62	0	\$4.50	\$0	\$2,536
2nd half yr	4470	226		265,369	57	\$0.052	\$13,860	1,331	0.28	\$10.62	0	\$4.50	\$0	\$27,994
TOTAL YEAR	6896	627		511,236	68	\$0.053	\$26,877	2,053	0.27	\$10.62	0	\$4.50	\$0	\$48,681

Building Data: 1977 Energy Consumption to BTU Conversions

Gross Area (ft)2 38,675 Electricity = KWH X 3413 BTU's x 1,000 1,744,848

Gross Volume (ft)3 309,400 Steam = M (lbs) X 1,000,000 2,053,297 Energy Utilization Index = $\frac{\text{Total BTU Consumption/Yr}}{\text{Gross Area (ft) }^2} = \frac{3,798,145,298}{38,675}$

General Notes: Fuel Oil = Gallons X 138,690 0 Divided by 100,000 = 0.9821 THERMS
 Other Fuel 0
 TOTAL BTU's x 1,000 3,798,145

ENERGY COST / SQ. FT. / YEAR \$1.26
 WATER COST TOTAL/YEAR \$4,624
 WATER / SQ. FT. / YEAR \$0.12
 UTILITY COST/YEAR \$53,305

BUILDING: Gilham Hall
 FY YEAR: 2015
 DATE: 01/12/16

MONTH	DEGREE DAYS (DD)		ELECTRICITY			PURCHASED STEAM			FUEL OIL		TOTAL ENERGY COST			
	Heating	Cooling	% P.F.	kWh	kWh per DD	Cost per kWh	TOTAL	M (LBS)	M (Lbs) per DD	Cost per M(Lbs)		Load-shed Hours	Cost per Gal	@20 Gal/Hr TOTAL
July	9	137	100%	49,087	336	\$0.051	\$2,528	6	0.04	\$10.62	0	\$4.50	\$0	\$2,596
August	5	208	100%	50,723	238	\$0.053	\$2,687	4	0.02	\$10.62	0	\$4.50	\$0	\$2,725
September	125	56	100%	49,330	273	\$0.055	\$2,691	89	0.49	\$10.62	0	\$4.50	\$0	\$3,635
October	412	0	100%	48,885	119	\$0.060	\$2,930	293	0.71	\$10.62	0	\$4.50	\$0	\$6,041
November	887	0	100%	49,869	56	\$0.050	\$2,509	631	0.71	\$10.62	0	\$4.50	\$0	\$9,206
December	988	0	100%	49,435	50	\$0.049	\$2,436	702	0.71	\$10.62	0	\$4.50	\$0	\$9,895
1st half yr	2426	401		297,330	105	\$0.053	\$15,781	1,725	0.61	\$10.62	0	\$4.50	\$0	\$34,097
January	1367	0	100%	51,891	38	\$0.049	\$2,545	972	0.71	\$10.62	0	\$4.50	\$0	\$12,866
February	1463	0	100%	49,733	34	\$0.051	\$2,538	1,040	0.71	\$10.62	0	\$4.50	\$0	\$13,583
March	990	0	100%	50,613	51	\$0.050	\$2,519	704	0.71	\$10.62	0	\$4.50	\$0	\$9,993
April	483	0	100%	45,407	94	\$0.050	\$2,263	343	0.71	\$10.62	0	\$4.50	\$0	\$5,909
May	132	93	100%	35,550	158	\$0.051	\$1,819	94	0.42	\$10.62	0	\$4.50	\$0	\$2,816
June	35	133	100%	32,928	196	\$0.065	\$2,137	25	0.15	\$10.62	0	\$4.50	\$0	\$2,401
2nd half yr	4470	226		266,121	57	\$0.052	\$13,821	3,178	0.68	\$10.62	0	\$4.50	\$0	\$47,568
TOTAL YEAR	6896	627		563,451	75	\$0.053	\$29,602	4,903	0.65	\$10.62	0	\$4.50	\$0	\$81,665

Building Data: 1953
 Gross Area (ft)2 92,347
 Gross Volume (ft)3 738,776

Energy Consumption to BTU Conversions
 BTU's x 1,000 1,923,058
 Electricity = KWH X 3413
 Steam = M (lbs) X 1,000,000 4,902,800
 Fuel Oil = Gallons X 138,690 0
 Other Fuel 0

Energy Utilization Index =
 Total BTU Consumption/Yr 6,825,858,242
 Gross Area (ft) 2 92,347
 Divided by 100,000 = 0.7392 THERMS

ENERGY COST / SQ. FT. / YEAR \$0.88
 WATER COST TOTAL/YEAR \$3,008
 WATER / SQ. FT. / YEAR \$0.03
 UTILITY COST/YEAR \$84,673

MONTH	DEGREE DAYS (DD)		ELECTRICITY			NATURAL GAS			FUEL OIL		TOTAL ENERGY COST				
	Heating	Cooling	% P.F.	kWh	kWh per DD	Cost per kWh	TOTAL	1000 cubic feet (Mcf)	Mcf per DD	Cost per Mcf		TOTAL	Load-shed Hours	Cost per Gal	@20 Gal/Hr TOTAL
July	9	137	100%	106,065	726	\$0.051	\$5,462	12	0.08	\$6.16	\$74	0	\$4.50	\$0	\$5,536
August	5	208	100%	125,027	587	\$0.053	\$6,623	8	0.04	\$9.93	\$79	0	\$4.50	\$0	\$6,703
September	125	56	100%	108,427	599	\$0.055	\$5,916	6	0.03	\$10.02	\$60	0	\$4.50	\$0	\$5,976
October	412	0	100%	51,166	124	\$0.060	\$3,067	5	0.01	\$8.59	\$43	0	\$4.50	\$0	\$3,110
November	887	0	100%	148,911	168	\$0.050	\$7,493	24	0.03	\$5.78	\$139	0	\$4.50	\$0	\$7,632
December	988	0	100%	119,081	121	\$0.049	\$5,867	67	0.07	\$6.26	\$420	0	\$4.50	\$0	\$6,287
1st half yr	2426	401		658,677	233	\$0.052	\$34,428	122	0.04	\$6.68	\$815	0	\$4.50	\$0	\$35,242
January	1367	0	100%	119,991	88	\$0.049	\$5,885	309	0.23	\$3.74	\$1,157	0	\$4.50	\$0	\$7,042
February	1463	0	100%	93,664	64	\$0.051	\$4,780	706	0.48	\$3.69	\$2,608	0	\$4.50	\$0	\$7,388
March	990	0	100%	101,721	103	\$0.050	\$5,062	567	0.57	\$3.91	\$2,219	0	\$4.50	\$0	\$7,281
April	483	0	100%	74,683	155	\$0.050	\$3,721	706	1.46	\$3.83	\$2,701	0	\$4.50	\$0	\$6,422
May	132	93	100%	47,378	211	\$0.051	\$2,425	353	1.57	\$3.92	\$1,382	0	\$4.50	\$0	\$3,807
June	35	133	100%	61,119	364	\$0.065	\$3,966	46	0.27	\$3.79	\$175	0	\$4.50	\$0	\$4,141
2nd half yr	4470	226		498,556	106	\$0.052	\$25,840	2,687	0.57	\$3.81	\$10,241	0	\$4.50	\$0	\$36,081
TOTAL YEAR	6896	627		1,157,234	154	\$0.052	\$60,267	2,809	0.37	\$3.94	\$11,056	0	\$4.50	\$0	\$71,323

Building Data: 1937 Energy Consumption to BTU Conversions

BTU's x 1,000
3,949,638

Energy Utilization Index =

$$\frac{\text{Total BTU Consumption/Yr}}{\text{Gross Area (ft}^2\text{)}} = \frac{4,237,560,436}{103,578}$$

$$\text{Divided by } 100,000 = 0.4091 \text{ THERMS}$$

ENERGY COST / SQ. FT. / YEAR \$0.69
 WATER COST TOTAL/YEAR \$33,202
 WATER / SQ. FT. / YEAR \$0.32
 UTILITY COST/YEAR \$104,525

TOTAL BTU's x 1,000
4,237,560

BUILDING: Grounds
 FY YEAR: 2015

DATE: 01/12/16

MONTH	DEGREE DAYS (DD)		ELECTRICITY		NATURAL GAS			FUEL OIL		TOTAL ENERGY COST					
	Heating	Cooling	% P.F.	kWh	kWh per DD	Cost per kWh	TOTAL	1000 cubic feet (Mcf)	Mcf per DD		Cost per Mcf	TOTAL	Load-shed Hours	Cost per Gal	@20 Gal/Hr TOTAL
July	9	137	100%	9,798	67	\$0.051	\$505	5	0.04	\$22.50	\$120	0	\$4.50	\$0	\$625
August	5	208	100%	10,351	49	\$0.053	\$548	2	0.01	\$52.08	\$108	0	\$4.50	\$0	\$656
September	125	56	100%	8,602	48	\$0.055	\$469	2	0.01	\$57.98	\$103	0	\$4.50	\$0	\$573
October	412	0	100%	8,712	21	\$0.060	\$522	2	0.01	\$44.75	\$106	0	\$4.50	\$0	\$628
November	887	0	100%	11,230	13	\$0.050	\$565	14	0.02	\$11.31	\$154	0	\$4.50	\$0	\$719
December	988	0	100%	12,640	13	\$0.049	\$623	54	0.05	\$5.50	\$297	0	\$4.50	\$0	\$920
1st half yr	2426	401		61,333	22	\$0.053	\$3,232	79	0.03	\$11.23	\$889	0	\$4.50	\$0	\$4,121
January	1367	0	100%	14,673	11	\$0.049	\$720	194	0.14	\$4.15	\$803	0	\$4.50	\$0	\$1,522
February	1463	0	100%	12,995	9	\$0.051	\$663	259	0.18	\$4.16	\$1,079	0	\$4.50	\$0	\$1,742
March	990	0	100%	10,670	11	\$0.050	\$531	291	0.29	\$4.32	\$1,258	0	\$4.50	\$0	\$1,789
April	483	0	100%	8,562	18	\$0.050	\$427	241	0.50	\$4.32	\$1,042	0	\$4.50	\$0	\$1,469
May	132	93	100%	8,402	37	\$0.051	\$430	111	0.49	\$4.97	\$551	0	\$4.50	\$0	\$981
June	35	133	100%	9,049	54	\$0.065	\$587	31	0.18	\$7.74	\$236	0	\$4.50	\$0	\$823
2nd half yr	4470	226		64,350	14	\$0.052	\$3,358	1,127	0.24	\$4.41	\$4,969	0	\$4.50	\$0	\$8,327
TOTAL YEAR	6896	627		125,683	17	\$0.052	\$6,590	1,206	0.16	\$4.86	\$5,858	0	\$4.50	\$0	\$12,448

Building Data: 1995 Energy Consumption to BTU Conversions

Gross Area (ft)2 13,009 Electricity = KWH X 3413 BTU's x 1,000 428,955

Gross Volume (ft)3 104,072 Natural Gas = MCF X 102,500 123,586

General Notes: Fuel Oil = Gallons X 138,690 0

Other Fuel 0

TOTAL BTU's x 1,000 552,540

ENERGY COST / SQ. FT. / YEAR \$0.96
 WATER COST TOTAL/YEAR \$2,771
 WATER / SQ. FT. / YEAR \$0.21
 UTILITY COST/YEAR \$15,219

Energy Utilization Index =

Total BTU Consumption/Yr 552,540,214
 Gross Area (ft) 2 13,009

Divided by 100,000 = 0.4247 THERMS

MONTH	DEGREE DAYS (DD)		ELECTRICITY			PURCHASED STEAM		NATURAL GAS		TOTAL ENERGY COST				
	Heating	Cooling	% P.F.	kWh	kWh per DD	Cost per kWh	TOTAL	M (LBS)	M (Lbs) per DD		Cost per M(Lbs)	1000 cubic feet (Mcf)	Cost per Mcf	TOTAL
July	9	137	100%	115,490	791	\$0.051	\$5,947	11	0.08	\$10.62	0	\$0.00	\$0	\$6,067
August	5	208	100%	121,355	570	\$0.053	\$6,429	6	0.03	\$10.62	0	\$0.00	\$0	\$6,495
September	125	56	100%	114,692	634	\$0.055	\$6,258	157	0.87	\$10.62	0	\$0.00	\$0	\$7,924
October	412	0	100%	114,224	277	\$0.060	\$6,846	517	1.25	\$10.62	0	\$0.00	\$0	\$12,337
November	887	0	100%	117,783	133	\$0.050	\$5,927	1,113	1.25	\$10.62	0	\$0.00	\$0	\$17,747
December	988	0	100%	120,812	122	\$0.049	\$5,953	1,240	1.25	\$10.62	0	\$0.00	\$0	\$19,119
1st half yr	2426	401		704,357	249	\$0.053	\$37,359	3,045	1.08	\$10.62	0	\$0.00	\$0	\$69,689
January	1367	0	100%	120,609	88	\$0.049	\$5,916	1,716	1.25	\$10.62	0	\$0.00	\$0	\$24,133
February	1463	0	100%	122,812	84	\$0.051	\$6,267	1,836	1.25	\$10.62	0	\$0.00	\$0	\$25,764
March	990	0	100%	133,935	135	\$0.050	\$6,666	1,242	1.25	\$10.62	0	\$0.00	\$0	\$19,859
April	483	0	100%	131,839	273	\$0.050	\$6,569	606	1.25	\$10.62	0	\$0.00	\$0	\$13,006
May	132	93	100%	120,015	533	\$0.051	\$6,143	166	0.74	\$10.62	0	\$0.00	\$0	\$7,902
June	35	133	100%	117,044	697	\$0.065	\$7,595	44	0.26	\$10.62	0	\$0.00	\$0	\$8,062
2nd half yr	4470	226		746,254	159	\$0.052	\$39,156	5,610	1.19	\$10.62	0	\$0.00	\$0	\$98,725
TOTAL YEAR	6896	627		1,450,611	193	\$0.053	\$76,514	8,654	1.15	\$10.62	0	\$0.00	\$0	\$168,413

Building Data:	1961	Energy Consumption to BTU Conversions	BTU's x 1,000
Gross Area (ft)2	163,006	Electricity = KWH X 3413	4,950,935
Gross Volume (ft)3	1,304,048	Steam = M (lbs) X 1,000,000	8,654,162
General Notes:		Natural Gas = MCF X 102,500	0
		Other Fuel	0
		TOTAL BTU's x 1,000	13,605,097
		Energy Utilization Index =	$\frac{\text{Total BTU Consumption/Yr}}{\text{Gross Area (ft) }^2}$
			$\frac{13,605,096,685}{163,006}$
		Divided by 100,000 =	0.8346
			THERMS

ENERGY COST / SQ. FT. / YEAR	\$1.03
WATER COST TOTAL/YEAR	\$25,773
WATER / SQ. FT. / YEAR	\$0.16
UTILITY COST/YEAR	\$194,186

BUILDING: Health Education Center
 FY YEAR: 2015
 DATE: 01/12/16

MONTH	DEGREE DAYS (DD)		ELECTRICITY			PURCHASED STEAM		NATURAL GAS		TOTAL ENERGY COST		
	Heating	Cooling	% P.F.	kWh	kWh per DD	Cost per kWh	M (LBS)	M (Lbs) per DD	Cost per M(Lbs)		1000 cubic feet (Mcf)	Cost per Mcf
July	9	137	100%	64,426	441	\$0.051	0	0.00	\$0.00	316	\$6.16	\$1,946
August	5	208	100%	84,086	395	\$0.053	0	0.00	\$0.00	253	\$9.93	\$2,512
September	125	56	100%	63,644	352	\$0.055	0	0.00	\$0.00	86	\$10.02	\$862
October	412	0	100%	46,341	112	\$0.060	251	0.61	\$10.62	0	\$0.00	\$0
November	887	0	100%	47,817	54	\$0.050	540	0.61	\$10.62	0	\$0.00	\$0
December	988	0	100%	52,458	53	\$0.049	601	0.61	\$10.62	0	\$0.00	\$0
1st half yr	2426	401		358,772	127	\$0.053	1,391	0.49	\$10.62	655	\$8.12	\$5,321
January	1367	0	100%	47,917	35	\$0.049	832	0.61	\$10.62	0	\$0.00	\$0
February	1463	0	100%	46,694	32	\$0.051	890	0.61	\$10.62	0	\$0.00	\$0
March	990	0	100%	52,227	53	\$0.050	602	0.61	\$10.62	0	\$0.00	\$0
April	483	0	100%	49,431	102	\$0.050	294	0.61	\$10.62	0	\$0.00	\$0
May	132	93	100%	55,564	247	\$0.051	80	0.36	\$10.62	0	\$0.00	\$0
June	35	133	100%	56,609	337	\$0.065	21	0.13	\$10.62	0	\$0.00	\$0
2nd half yr	4470	226		308,442	66	\$0.053	2,719	0.58	\$10.62	0	\$0.00	\$0
TOTAL YEAR	6896	627		667,214	89	\$0.053	4,110	0.55	\$10.62	655	\$8.12	\$5,321

Building Data: 1967 Energy Consumption to BTU Conversions
 BTU's x 1,000
 2,277,202

Gross Area (ft)2 79,016 Electricity = KWH X 3413

Gross Volume (ft)3 632,128 Natural Gas = MCF X 102,500 421,325
 Fuel Oil = Gallons X 138,690 1,816,839
 Other Fuel 0

General Notes:
 TOTAL BTU's x 1,000 4,515,365

ENERGY COST / SQ. FT. / YEAR \$1.07
 WATER COST TOTAL/YEAR \$25,475
 WATER / SQ. FT. / YEAR \$0.32
 UTILITY COST/YEAR \$109,770

Energy Utilization Index =
 Total BTU Consumption/Yr 4,515,365,488
 Gross Area (ft) 2 79,016
 Divided by 100,000 = 0.5714 THERMS

MONTH	DEGREE DAYS (DD)		ELECTRICITY			PURCHASED STEAM		NATURAL GAS		TOTAL ENERGY COST			
	Heating	Cooling	% P.F.	kWh	kWh per DD	Cost per kWh	TOTAL	M (LBS)	M (Lbs) per DD		Cost per M(Lbs)	1000 cubic feet (Mcf)	Cost per Mcf
July	9	137	100%	84,471	579	\$0.051	\$4,350	10	0.07	\$10.62	18	\$13.94	\$244
August	5	208	100%	89,148	419	\$0.053	\$4,723	5	0.03	\$10.62	0	\$0.00	\$0
September	125	56	100%	106,892	591	\$0.055	\$5,832	134	0.74	\$10.62	29	\$6.19	\$177
October	412	0	100%	108,404	263	\$0.060	\$6,497	441	1.07	\$10.62	42	\$7.18	\$300
November	887	0	100%	111,547	126	\$0.050	\$5,613	949	1.07	\$10.62	41	\$7.19	\$293
December	988	0	100%	99,723	101	\$0.049	\$4,914	1,057	1.07	\$10.62	36	\$7.27	\$262
1st half yr	2426	401		600,185	212	\$0.053	\$31,928	2,594	0.92	\$10.62	165	\$7.75	\$1,275
January	1367	0	100%	102,406	75	\$0.049	\$5,023	1,462	1.07	\$10.62	20	\$7.67	\$153
February	1463	0	100%	103,188	71	\$0.051	\$5,266	1,565	1.07	\$10.62	35	\$7.13	\$250
March	990	0	100%	111,077	112	\$0.050	\$5,528	1,059	1.07	\$10.62	34	\$7.17	\$240
April	483	0	100%	112,951	234	\$0.050	\$5,628	517	1.07	\$10.62	36	\$7.29	\$262
May	132	93	100%	89,001	396	\$0.051	\$4,555	141	0.63	\$10.62	35	\$7.19	\$250
June	35	133	100%	79,716	474	\$0.065	\$5,173	37	0.22	\$10.62	22	\$6.99	\$150
2nd half yr	4470	226		598,338	127	\$0.052	\$31,173	4,780	1.02	\$10.62	181	\$7.22	\$1,305
TOTAL YEAR	6896	627		1,198,524	159	\$0.053	\$63,101	7,375	0.98	\$10.62	345	\$7.47	\$2,581

Building Data: 1994 Energy Consumption to BTU Conversions

Gross Area (ft)2 138,904 Electricity = KWH X 3413 BTU's x 1,000 4,090,561

Gross Volume (ft)3 1,111,232 Steam = M (lbs) X 1,000,000 7,374,561
 Energy Utilization Index = $\frac{\text{Total BTU Consumption/Yr}}{\text{Gross Area (ft) }^2}$ = $\frac{11,500,515,540}{138,904}$

General Notes: Natural Gas = MCF X 102,500 35,393
 Divided by 100,000 = 0.8279 THERMS
 Other Fuel 0

CHILLED WATER COST/YEAR \$36,400
 ENERGY COST / SQ. FT. / YEAR \$1.30
 WATER COST TOTAL/YEAR \$41,510
 WATER / SQ. FT. / YEAR \$0.30
 UTILITY COST/YEAR \$221,902

BUILDING: Lake Erie Center
 FY YEAR: 2015
 DATE: 01/12/16

MONTH	DEGREE DAYS (DD)		ELECTRICITY			NATURAL GAS			FUEL OIL		TOTAL ENERGY COST				
	Heating	Cooling	% P.F.	kWh	kWh per DD	Cost per kWh	TOTAL	1000 cubic feet (Mcf)	Mcf per DD	Cost per Mcf		TOTAL	Load-shed Hours	Cost per Gal	@20 Gal/Hr TOTAL
July	9	137	100%	61,500	421	\$0.051	\$3,167	147	1.01	\$6.27	922	0	\$4.50	\$0	\$4,089
August	5	208	100%	67,400	316	\$0.053	\$3,570	103	0.48	\$8.82	909	0	\$4.50	\$0	\$4,479
September	125	56	100%	46,100	255	\$0.055	\$2,515	193	1.07	\$5.55	1,070	0	\$4.50	\$0	\$3,586
October	412	0	100%	47,700	116	\$0.060	\$2,859	196	0.48	\$5.55	1,088	0	\$4.50	\$0	\$3,947
November	887	0	100%	44,000	50	\$0.050	\$2,214	256	0.29	\$5.03	1,287	0	\$4.50	\$0	\$3,501
December	988	0	100%	52,100	53	\$0.049	\$2,567	387	0.39	\$4.30	1,665	0	\$4.50	\$0	\$4,232
1st half yr	2426	401		318,800	113	\$0.053	\$16,893	1,282	0.45	\$5.41	6,942	0	\$4.50	\$0	\$23,834
January	1367	0	100%	48,900	36	\$0.049	\$2,398	553	0.40	\$4.16	2,298	0	\$4.50	\$0	\$4,697
February	1463	0	100%	47,600	33	\$0.051	\$2,429	656	0.45	\$4.17	2,736	0	\$4.50	\$0	\$5,165
March	990	0	100%	47,600	48	\$0.050	\$2,369	712	0.72	\$4.35	3,097	0	\$4.50	\$0	\$5,465
April	483	0	100%	62,000	128	\$0.050	\$3,089	568	1.18	\$4.37	2,483	0	\$4.50	\$0	\$5,572
May	132	93	100%	65,400	291	\$0.051	\$3,347	456	2.03	\$4.57	2,086	0	\$4.50	\$0	\$5,433
June	35	133	100%	65,400	389	\$0.065	\$4,244	268	1.60	\$4.92	1,318	0	\$4.50	\$0	\$5,562
2nd half yr	4470	226		336,900	72	\$0.053	\$17,877	3,213	0.68	\$4.36	\$14,018	0	\$4.50	\$0	\$31,895
TOTAL/YEAR	6896	627		655,700	87	\$0.053	\$34,770	4,495	0.60	\$4.66	\$20,960	0	\$4.50	\$0	\$55,729

Building Data: 1997
 Energy Consumption to BTU Conversions
 BTU's x 1,000
 2,237,904

Gross Area (ft)2 34,054
 Electricity = KWH X 3413

Gross Volume (ft)3 272,432
 Natural Gas = MCF X 102,500 460,738
 Fuel Oil = Gallons X 138,690 0
 Other Fuel 0

General Notes:
 Divided by 100,000 = 0.7925 THERMS

Energy Utilization Index =
 Total BTU Consumption/Yr 2,698,641,600
 Gross Area (ft) 2 34,054

TOTAL BTU's x 1,000 2,698,642

ENERGY COST / SQ. FT. / YEAR \$1.64
 WATER COST TOTAL/YEAR \$2,673
 WATER / SQ. FT. / YEAR \$0.08
 UTILITY COST/YEAR \$58,402

MONTH	DEGREE DAYS (DD)		ELECTRICITY			PURCHASED STEAM		NATURAL GAS		TOTAL ENERGY COST			
	Heating	Cooling	% P.F.	kWh	kWh per DD	Cost per kWh	TOTAL	M (LBS)	M (Lbs) per DD		Cost per M(Lbs)	1000 cubic feet (Mcf)	Cost per Mcf
July	9	137	100%	81,116	556	\$0.051	\$4,177	0	0.00	\$0.00	2	\$6.16	\$12
August	5	208	100%	87,130	409	\$0.053	\$4,616	0	0.00	\$0.00	3	\$9.93	\$30
September	125	56	100%	127,211	703	\$0.055	\$6,941	0	0.00	\$0.00	35	\$10.02	\$351
October	412	0	100%	147,846	359	\$0.060	\$8,861	102	0.25	\$10.62	59	\$8.59	\$507
November	887	0	100%	96,437	109	\$0.050	\$4,853	219	0.25	\$10.62	73	\$5.78	\$422
December	988	0	100%	102,870	104	\$0.049	\$5,069	244	0.25	\$10.62	66	\$6.26	\$413
1st half yr	2426	401		642,610	227	\$0.054	\$34,516	566	0.20	\$10.62	238	\$7.29	\$1,735
January	1367	0	100%	107,175	78	\$0.049	\$5,257	338	0.25	\$10.62	68	\$3.74	\$255
February	1463	0	100%	94,943	65	\$0.051	\$4,845	362	0.25	\$10.62	63	\$3.69	\$233
March	990	0	100%	94,385	95	\$0.050	\$4,697	245	0.25	\$10.62	48	\$3.91	\$188
April	483	0	100%	121,250	251	\$0.050	\$6,042	120	0.25	\$10.62	57	\$3.83	\$218
May	132	93	100%	131,620	585	\$0.051	\$6,736	33	0.15	\$10.62	56	\$3.92	\$219
June	35	133	100%	139,630	831	\$0.065	\$9,061	9	0.05	\$10.62	46	\$3.79	\$175
2nd half yr	4470	226		689,003	147	\$0.053	\$36,638	1,106	0.24	\$10.62	338	\$3.81	\$1,287
TOTAL YEAR	6896	627		1,331,613	177	\$0.053	\$71,154	1,672	0.22	\$10.62	576	\$5.25	\$3,022

Building Data:	1990	Energy Consumption to BTU Conversions	BTU's x 1,000
Gross Area (ft)2	32,139	Electricity = KWH X 3413	4,544,796
Gross Volume (ft)3	257,112	Natural Gas = MCF X 102,500	171,370
General Notes:		Fuel Oil = Gallons X 138,700	79,891
		Other Fuel	0
		TOTAL BTU's x 1,000	4,796,057

Energy Utilization Index =	
Total BTU Consumption/Yr	4,796,056,687
Gross Area (ft) 2	32,139
Divided by 100,000 =	
	1.4923 THERMS

ENERGY COST / SQ. FT. / YEAR	\$2.86
WATER COST TOTAL/YEAR	\$11,837
WATER / SQ. FT. / YEAR	\$0.37
UTILITY COST/YEAR	\$103,767

BUILDING: Law Center
 FY YEAR: 2015
 DATE: 01/12/16

MONTH	DEGREE DAYS (DD)		ELECTRICITY			PURCHASED STEAM		NATURAL GAS		TOTAL ENERGY COST		
	Heating	Cooling	% P.F.	kWh	kWh per DD	Cost per kWh	M (LBS)	M (Lbs) per DD	Cost per M(Lbs)		1000 cubic feet (Mcf)	Cost per Mcf
July	9	137	100%	248,510	1,702	\$0.051	9	0.06	\$10.62	1	\$93.14	\$84
August	5	208	100%	252,805	1,187	\$0.053	5	0.02	\$10.62	1	\$0.60	\$0
September	125	56	100%	240,953	1,331	\$0.055	121	0.67	\$10.62	0	\$68.30	\$27
October	412	0	100%	247,183	600	\$0.060	398	0.97	\$10.62	1	\$55.98	\$28
November	887	0	100%	239,277	270	\$0.050	856	0.97	\$10.62	1	\$55.72	\$28
December	988	0	100%	240,602	244	\$0.049	954	0.97	\$10.62	0	\$68.63	\$27
1st half yr	2426	401		1,469,331	520	\$0.053	2,342	0.83	\$10.62	3	\$60.86	\$195
January	1367	0	100%	235,285	172	\$0.049	1,320	0.97	\$10.62	1	\$55.04	\$28
February	1463	0	100%	230,590	158	\$0.051	1,412	0.97	\$10.62	1	\$54.72	\$27
March	990	0	100%	246,161	249	\$0.050	956	0.97	\$10.62	0	\$67.08	\$27
April	483	0	100%	247,282	512	\$0.050	466	0.97	\$10.62	1	\$54.34	\$27
May	132	93	100%	248,191	1,103	\$0.051	127	0.57	\$10.62	0	\$69.23	\$28
June	35	133	100%	256,833	1,529	\$0.065	34	0.20	\$10.62	1	\$56.30	\$28
2nd half yr	4470	226		1,464,341	312	\$0.053	4,315	0.92	\$10.62	3	\$58.83	\$165
TOTAL YEAR	6896	627		2,933,672	390	\$0.053	6,657	0.88	\$10.62	6	\$59.91	\$359

Building Data: 1972 Energy Consumption to BTU Conversions
 Gross Area (ft)2 125,392 Electricity = KWH X 3413
 Gross Volume (ft)3 1,003,136 Steam = M (lbs) X 1,000,000
 General Notes: Natural Gas = MCF X 102,500
 Other Fuel 0
 TOTAL BTU's x 1,000 16,670,432

Energy Utilization Index =
 Total BTU Consumption/Yr 16,670,431,665
 Gross Area (ft) 2 125,392
 Divided by 100,000 = 1.3295 THERMS

ENERGY COST / SQ. FT. / YEAR \$1.81
 WATER COST TOTAL/YEAR \$12,439
 WATER / SQ. FT. / YEAR \$0.10
 UTILITY COST/YEAR \$238,786

MONTH	DEGREE DAYS (DD)		ELECTRICITY			NATURAL GAS			FUEL OIL		TOTAL ENERGY COST			
	Heating	Cooling	% P.F.	kWh	kWh per DD	Cost per kWh	TOTAL	1000 cubic feet (Mcf)	Mcf per DD	Cost per Mcf		TOTAL	Load-shed Hours	Cost per Gal
July	9	137	100%	4,357	30	\$0.051	\$224	19	0.13	\$8.07	156	0	\$4.50	\$0
August	5	208	100%	4,135	19	\$0.053	\$219	33	0.16	\$0.94	31	0	\$4.50	\$0
September	125	56	100%	2,138	12	\$0.055	\$117	74	0.41	\$2.02	149	0	\$4.50	\$0
October	412	0	100%	2,852	7	\$0.060	\$171	11	0.03	\$45.78	499	0	\$4.50	\$0
November	887	0	100%	3,124	4	\$0.050	\$157	16	0.02	\$5.52	89	0	\$4.50	\$0
December	988	0	100%	5,982	6	\$0.049	\$295	30	0.03	\$4.06	121	0	\$4.50	\$0
1st half yr	2426	401		22,588	8	\$0.052	\$1,183	183	0.06	\$5.71	\$1,046	0	\$4.50	\$0
January	1367	0	100%	8,119	6	\$0.049	\$398	33	0.02	\$6.33	210	0	\$4.50	\$0
February	1463	0	100%	8,641	6	\$0.051	\$441	22	0.02	\$10.34	230	0	\$4.50	\$0
March	990	0	100%	3,351	3	\$0.050	\$167	16	0.02	\$10.30	162	0	\$4.50	\$0
April	483	0	100%	6,392	13	\$0.050	\$318	12	0.03	\$9.83	120	0	\$4.50	\$0
May	132	93	100%	3,351	15	\$0.051	\$172	23	0.10	\$4.30	100	0	\$4.50	\$0
June	35	133	100%	3,351	20	\$0.065	\$217	37	0.22	\$4.78	178	0	\$4.50	\$0
2nd half yr	4470	226		33,205	7	\$0.052	\$1,713	144	0.03	\$6.95	\$999	0	\$4.50	\$0
TOTAL/YEAR	6896	627		55,793	7	\$0.101	\$5,643	327	0.04	\$6.26	\$2,046	0	\$4.50	\$0

Building Data: 1920 Energy Consumption to BTU Conversions

Gross Area (ft)2 6,457 Electricity = KWH X 3413 BTU's x 1,000 190,422

Gross Volume (ft)3 51,656 Natural Gas = MCF X 102,500 33,518

General Notes: Fuel Oil = Gallons X 138,690 0

Other Fuel 0

TOTAL BTU's x 1,000 223,939

ENERGY COST / SQ. FT. / YEAR \$1.19
 WATER COST TOTAL/YEAR \$7,392
 WATER / SQ. FT. / YEAR \$1.14
 UTILITY COST/YEAR \$15,080

Energy Utilization Index =

Total BTU Consumption/Yr 223,939,009
 Gross Area (ft) 2 6,457

Divided by 100,000 = 0.3468 THERMS

BUILDING: Libby Hall
 FY YEAR: 2015
 DATE: 01/12/16

MONTH	DEGREE DAYS (DD)		ELECTRICITY		PURCHASED STEAM		NATURAL GAS		TOTAL ENERGY COST					
	Heating	Cooling	% P.F.	kWh	kWh per DD	Cost per kWh	M (LBS)	M (Lbs) per DD		Cost per M(Lbs)	1000 cubic feet (Mcf)	Cost per Mcf	TOTAL	
July	9	137	100%	12,842	88	\$0.051	1	0.01	\$10.62	0	\$0.00	\$12	161	\$835
August	5	208	100%	12,842	60	\$0.053	1	0.00	\$10.62	0	\$0.00	\$7	0	\$687
September	125	56	100%	12,842	71	\$0.055	16	0.09	\$10.62	0	\$0.00	\$171	0	\$872
October	412	0	100%	9,671	23	\$0.060	53	0.13	\$10.62	8	\$0.00	\$565	0	\$1,144
November	887	0	100%	12,842	14	\$0.050	114	0.13	\$10.62	10	\$0.00	\$1,216	0	\$1,862
December	988	0	100%	15,088	15	\$0.049	128	0.13	\$10.62	8	\$35.05	\$1,354	287	\$2,385
1st half yr	2426	401		76,127	27	\$0.053	313	0.11	\$10.62	26	\$17.38	\$3,325	\$448	\$7,785
January	1367	0	100%	14,236	10	\$0.049	176	0.13	\$10.62	7	\$11.05	\$1,874	81	\$2,653
February	1463	0	100%	13,528	9	\$0.051	189	0.13	\$10.62	0	\$0.00	\$2,005	83	\$2,779
March	990	0	100%	13,308	13	\$0.050	128	0.13	\$10.62	12	\$0.00	\$1,357	0	\$2,019
April	483	0	100%	13,496	28	\$0.050	62	0.13	\$10.62	84	\$1.29	\$662	108	\$1,443
May	132	93	100%	12,029	53	\$0.051	17	0.08	\$10.62	7	\$12.08	\$181	87	\$884
June	35	133	100%	12,471	74	\$0.065	5	0.03	\$10.62	0	\$0.00	\$48	80	\$937
2nd half yr	4470	226		79,068	17	\$0.052	577	0.12	\$10.62	110	\$3.98	\$6,127	\$439	\$10,715
TOTAL YEAR	6896	627		155,195	21	\$0.053	890	0.12	\$10.62	136	\$6.52	\$9,453	\$888	\$18,500

Building Data: 1935 Energy Consumption to BTU Conversions

Gross Area (ft)2 16,767 Electricity = KWH X 3413 BTU's x 1,000 529,681

Gross Volume (ft)3 134,136 Steam = M (lbs) X 1,000,000 890,178

General Notes: Natural Gas = MCF X 102,500 13,950

Other Fuel 0

TOTAL BTU's x 1,000 1,433,809

ENERGY COST / SQ. FT. / YEAR \$1.10
 WATER COST TOTAL/YEAR \$1,746
 WATER / SQ. FT. / YEAR \$0.10
 UTILITY COST/YEAR \$20,246

Energy Utilization Index =

Total BTU Consumption/Yr 1,433,808,625
 Gross Area (ft) 2 16,767

Divided by 100,000 = 0.8551 THERMS

MONTH	DEGREE DAYS (DD)		ELECTRICITY			PURCHASED STEAM		FUEL OIL		TOTAL ENERGY COST				
	Heating	Cooling	% P.F.	kWh	kWh per DD	Cost per kWh	TOTAL	M (LBS)	M (Lbs) per DD		Cost per M(Lbs)	Load-shed Hours	Cost per Gal	@20 Gal/Hr TOTAL
July	9	137	100%	18,569	127	\$0.051	\$956	3	0.02	\$10.62	0	\$4.50	\$0	\$987
August	5	208	100%	23,612	111	\$0.053	\$1,251	2	0.01	\$10.62	0	\$4.50	\$0	\$1,268
September	125	56	100%	15,121	84	\$0.055	\$825	40	0.22	\$10.62	0	\$4.50	\$0	\$1,252
October	412	0	100%	20,640	50	\$0.060	\$1,237	133	0.32	\$10.62	0	\$4.50	\$0	\$2,645
November	887	0	100%	21,269	24	\$0.050	\$1,070	285	0.32	\$10.62	0	\$4.50	\$0	\$4,100
December	988	0	100%	20,105	20	\$0.049	\$991	318	0.32	\$10.62	0	\$4.50	\$0	\$4,366
1st half yr	2426	401		119,315	42	\$0.053	\$6,330	780	0.28	\$10.62	0	\$4.50	\$0	\$14,618
January	1367	0	100%	20,375	15	\$0.049	\$999	440	0.32	\$10.62	0	\$4.50	\$0	\$5,669
February	1463	0	100%	19,758	14	\$0.051	\$1,008	471	0.32	\$10.62	0	\$4.50	\$0	\$6,006
March	990	0	100%	19,310	20	\$0.050	\$961	318	0.32	\$10.62	0	\$4.50	\$0	\$4,343
April	483	0	100%	19,679	41	\$0.050	\$981	155	0.32	\$10.62	0	\$4.50	\$0	\$2,631
May	132	93	100%	15,320	68	\$0.051	\$784	42	0.19	\$10.62	0	\$4.50	\$0	\$1,235
June	35	133	100%	12,417	74	\$0.065	\$806	11	0.07	\$10.62	0	\$4.50	\$0	\$925
2nd half yr	4470	226		106,859	23	\$0.052	\$5,539	1,438	0.31	\$10.62	0	\$4.50	\$0	\$20,810
TOTAL YEAR	6896	627		226,174	30	\$0.052	\$11,869	2,219	0.29	\$10.62	0	\$4.50	\$0	\$35,427

Building Data: 1938 Energy Consumption to BTU Conversions

Gross Area (ft)2 41,787 Electricity = KWH X 3413 BTU's x 1,000
771,932

Gross Volume (ft)3 334,296 Steam = M (lbs) X 1,000,000 2,218,516
Total BTU Consumption/Yr 2,990,447,736
41,787

General Notes: Fuel Oil = Gallons X 138,690 0
Other Fuel 0
Divided by 100,000 = 0.7156 THERMS

CHILLED WATER COST/YEAR \$10,200
 ENERGY COST / SQ. FT. / YEAR \$1.09
 WATER COST TOTAL/YEAR \$8,242
 WATER / SQ. FT. / YEAR \$0.20
 UTILITY COST/YEAR \$53,870

BUILDING: Main Campus Medical Center
 FY YEAR: 2015
 DATE: 01/12/16

MONTH	DEGREE DAYS (DD)		ELECTRICITY			PURCHASED STEAM		FUEL OIL		TOTAL ENERGY COST		
	Heating	Cooling	% P.F.	kWh	kWh per DD	Cost per kWh	M (LBS)	M (Lbs) per DD	Cost per M(Lbs)		Load-shed Hours	Cost per Gal
July	9	137	100%	23,793	163	\$0.051	1	0.01	\$10.62	0	\$4.50	\$0
August	5	208	100%	27,786	130	\$0.053	0	0.00	\$10.62	0	\$4.50	\$0
September	125	56	100%	21,960	121	\$0.055	12	0.07	\$10.62	0	\$4.50	\$0
October	412	0	100%	18,277	44	\$0.060	40	0.10	\$10.62	0	\$4.50	\$0
November	887	0	100%	16,684	19	\$0.050	86	0.10	\$10.62	0	\$4.50	\$0
December	988	0	100%	17,488	18	\$0.049	96	0.10	\$10.62	0	\$4.50	\$0
1st half yr	2426	401		125,988	45	\$0.053	235	0.08	\$10.62	0	\$4.50	\$0
January	1367	0	100%	16,599	12	\$0.049	132	0.10	\$10.62	0	\$4.50	\$0
February	1463	0	100%	15,159	10	\$0.051	142	0.10	\$10.62	0	\$4.50	\$0
March	990	0	100%	16,313	16	\$0.050	96	0.10	\$10.62	0	\$4.50	\$0
April	483	0	100%	16,067	33	\$0.050	47	0.10	\$10.62	0	\$4.50	\$0
May	132	93	100%	22,103	98	\$0.051	13	0.06	\$10.62	0	\$4.50	\$0
June	35	133	100%	24,860	148	\$0.065	3	0.02	\$10.62	0	\$4.50	\$0
2nd half yr	4470	226		111,101	24	\$0.054	433	0.09	\$10.62	0	\$4.50	\$0
TOTAL YEAR	6896	627		237,090	32	\$0.053	668	0.09	\$10.62	0	\$4.50	\$0

Building Data: 1991
 Gross Area (ft)2 12,574
 Gross Volume (ft)3 100,592

Energy Consumption to BTU Conversions
 BTU's x 1,000 809,186
 Electricity = KWH X 3413
 Steam = M (lbs) X 1,000,000 667,567
 Fuel Oil = Gallons X 138,690 0
 Other Fuel 0

Energy Utilization Index =
 Total BTU Consumption/Yr 1,476,753,479
 Gross Area (ft) 2 12,574
 Divided by 100,000 = 1.1745 THERMS

TOTAL BTU's x 1,000 1,476,753

ENERGY COST / SQ. FT. / YEAR \$1.57
 WATER COST TOTAL/YEAR \$5,871
 WATER / SQ. FT. / YEAR \$0.47
 UTILITY COST/YEAR \$25,597

MONTH	DEGREE DAYS (DD)		ELECTRICITY			NATURAL GAS			FUEL OIL		TOTAL ENERGY COST				
	Heating	Cooling	% P.F.	kWh	kWh per DD	Cost per kWh	TOTAL	1000 cubic feet (Mcf)	Mcf per DD	Cost per Mcf		TOTAL	Load-shed Hours	Cost per Gal	@20 Gal/Hr TOTAL
July	9	137	100%	17,766	122	\$0.051	\$915	31	0.21	\$56.08	1,722	0	\$4.50	\$0	\$2,636
August	5	208	100%	61,623	289	\$0.053	\$3,264	14	0.07	\$5.65	81	0	\$4.50	\$0	\$3,346
September	125	56	100%	72,795	402	\$0.055	\$3,972	71	0.39	\$13.44	958	0	\$4.50	\$0	\$4,930
October	412	0	100%	57,140	139	\$0.060	\$3,425	109	0.27	\$13.62	1,487	0	\$4.50	\$0	\$4,912
November	887	0	100%	60,674	68	\$0.050	\$3,053	167	0.19	\$10.54	1,759	0	\$4.50	\$0	\$4,812
December	988	0	100%	46,900	47	\$0.049	\$2,311	403	0.41	\$8.43	3,395	0	\$4.50	\$0	\$5,706
1st half yr	2426	401		316,897	112	\$0.053	\$16,940	795	0.28	\$11.83	\$9,403	0	\$4.50	\$0	\$26,342
January	1367	0	100%	51,294	38	\$0.049	\$2,516	513	0.38	\$7.93	4,071	0	\$4.50	\$0	\$6,587
February	1463	0	100%	61,429	42	\$0.051	\$3,135	522	0.36	\$7.98	4,163	0	\$4.50	\$0	\$7,298
March	990	0	100%	52,737	53	\$0.050	\$2,625	588	0.59	\$7.84	4,609	0	\$4.50	\$0	\$7,233
April	483	0	100%	53,379	111	\$0.050	\$2,660	320	0.66	\$8.76	2,802	0	\$4.50	\$0	\$5,462
May	132	93	100%	31,383	139	\$0.051	\$1,606	147	0.65	\$11.09	1,632	0	\$4.50	\$0	\$3,238
June	35	133	100%	15,815	94	\$0.065	\$1,026	14	0.08	\$46.71	663	0	\$4.50	\$0	\$1,690
2nd half yr	4470	226		266,036	57	\$0.051	\$13,567	2,104	0.45	\$8.53	\$17,941	0	\$4.50	\$0	\$31,508
TOTAL YEAR	6896	627		582,932	77	\$0.052	\$30,507	2,899	0.39	\$9.43	\$27,343	0	\$4.50	\$0	\$57,850

Building Data: 1990 Energy Consumption to BTU Conversions

Gross Area (ft)2 124,533 Electricity = KWH X 3413 BTU's x 1,000 1,989,548

Gross Volume (ft)3 996,264 Natural Gas = MCF X 102,500 297,140
 Fuel Oil = Gallons X 138,690 0
 Other Fuel 0

General Notes: Total BTU Consumption/Yr 2,286,688,606
 Divided by 100,000 = 0.1836 THERMS
 Gross Area (ft)2 124,533

ENERGY COST / SQ. FT. / YEAR \$0.46
 WATER COST TOTAL/YEAR \$38,313
 WATER / SQ. FT. / YEAR \$0.31
 UTILITY COST/YEAR \$96,164

BUILDING: McMaster Hall
 FY YEAR: 2015
 DATE: 01/12/16

MONTH	DEGREE DAYS (DD)		ELECTRICITY			PURCHASED STEAM		FUEL OIL		TOTAL ENERGY COST		
	Heating	Cooling	% P.F.	kWh	kWh per DD	Cost per kWh	M (LBS)	M (Lbs) per DD	Cost per M(Lbs)		Load-shed Hours	Cost per Gal
July	9	137	100%	82,084	562	\$0.051	5	0.03	\$10.62	0	\$4.50	\$0
August	5	208	100%	86,594	407	\$0.053	3	0.01	\$10.62	0	\$4.50	\$0
September	125	56	100%	80,638	446	\$0.055	65	0.36	\$10.62	0	\$4.50	\$0
October	412	0	100%	81,786	199	\$0.060	213	0.52	\$10.62	0	\$4.50	\$0
November	887	0	100%	82,587	93	\$0.050	459	0.52	\$10.62	0	\$4.50	\$0
December	988	0	100%	84,590	86	\$0.049	511	0.52	\$10.62	0	\$4.50	\$0
1st half yr	2426	401		498,278	176	\$0.053	1,255	0.44	\$10.62	0	\$4.50	\$0
January	1367	0	100%	80,506	59	\$0.049	707	0.52	\$10.62	0	\$4.50	\$0
February	1463	0	100%	77,057	53	\$0.051	757	0.52	\$10.62	0	\$4.50	\$0
March	990	0	100%	84,179	85	\$0.050	512	0.52	\$10.62	0	\$4.50	\$0
April	483	0	100%	82,164	170	\$0.050	250	0.52	\$10.62	0	\$4.50	\$0
May	132	93	100%	76,471	340	\$0.051	68	0.30	\$10.62	0	\$4.50	\$0
June	35	133	100%	77,551	462	\$0.065	18	0.11	\$10.62	0	\$4.50	\$0
2nd half yr	4470	226		477,929	102	\$0.053	2,312	0.49	\$10.62	0	\$4.50	\$0
TOTAL YEAR	6896	627		976,206	130	\$0.053	3,567	0.47	\$10.62	0	\$4.50	\$0

Building Data: 1987
 Energy Consumption to BTU Conversions
 BTU's x 1,000
 3,331,792

Gross Area (ft)2 67,194
 Electricity = KWH X 3413

Gross Volume (ft)3 537,552
 Steam = M (lbs) X 1,000,000 3,567,401
 Fuel Oil = Gallons X 138,690 0
 Other Fuel 0

General Notes:
 Divided by 100,000 = 1.0268 THERMS

Energy Utilization Index =
 Total BTU Consumption/Yr 6,899,193,276
 Gross Area (ft) 2 67,194

ENERGY COST / SQ. FT. / YEAR \$1.33
 WATER COST TOTAL/YEAR \$2,189
 WATER / SQ. FT. / YEAR \$0.03
 UTILITY COST/YEAR \$91,621

MONTH	DEGREE DAYS (DD)		ELECTRICITY			PURCHASED STEAM		FUEL OIL		TOTAL ENERGY COST				
	Heating	Cooling	% P.F.	kWh	kWh per DD	Cost per kWh	TOTAL	M (LBS)	M (Lbs) per DD		Cost per M(Lbs)	Load-shed Hours	Cost per Gal	@20 Gal/Hr TOTAL
July	9	137	100%	102,610	703	\$0.051	\$5,284	11	0.07	\$10.62	0	\$4.50	\$0	\$5,399
August	5	208	100%	108,050	507	\$0.053	\$5,724	6	0.03	\$10.62	0	\$4.50	\$0	\$5,788
September	125	56	100%	100,594	556	\$0.055	\$5,489	150	0.83	\$10.62	0	\$4.50	\$0	\$7,083
October	412	0	100%	97,498	237	\$0.060	\$5,844	495	1.20	\$10.62	0	\$4.50	\$0	\$11,101
November	887	0	100%	99,512	112	\$0.050	\$5,007	1,066	1.20	\$10.62	0	\$4.50	\$0	\$16,325
December	988	0	100%	95,596	97	\$0.049	\$4,710	1,187	1.20	\$10.62	0	\$4.50	\$0	\$17,317
1st half yr	2426	401		603,861	214	\$0.053	\$32,057	2,915	1.03	\$10.62	0	\$4.50	\$0	\$63,012
January	1367	0	100%	95,588	70	\$0.049	\$4,688	1,643	1.20	\$10.62	0	\$4.50	\$0	\$22,131
February	1463	0	100%	94,791	65	\$0.051	\$4,837	1,758	1.20	\$10.62	0	\$4.50	\$0	\$23,505
March	990	0	100%	98,314	99	\$0.050	\$4,893	1,190	1.20	\$10.62	0	\$4.50	\$0	\$17,525
April	483	0	100%	113,129	234	\$0.050	\$5,637	580	1.20	\$10.62	0	\$4.50	\$0	\$11,800
May	132	93	100%	95,645	425	\$0.051	\$4,895	159	0.70	\$10.62	0	\$4.50	\$0	\$6,580
June	35	133	100%	95,389	568	\$0.065	\$6,190	42	0.25	\$10.62	0	\$4.50	\$0	\$6,637
2nd half yr	4470	226		592,856	126	\$0.053	\$31,141	5,371	1.14	\$10.62	0	\$4.50	\$0	\$88,177
TOTAL YEAR	6896	627		1,196,717	159	\$0.053	\$63,198	8,286	1.10	\$10.62	0	\$4.50	\$0	\$151,189

Building Data: 1931 Energy Consumption to BTU Conversions

Gross Area (ft)2 156,074 Electricity = KWH X 3413 BTU's x 1,000 4,084,395

Gross Volume (ft)3 1,248,592 Steam = M (lbs) X 1,000,000 8,286,134
 Fuel Oil = Gallons X 138,690 0
 Other Fuel 0

General Notes: Total BTU Consumption/Yr 12,370,529,220
 Divided by 100,000 = 0.7926 THERMS
 Gross Area (ft) 2 156,074

ENERGY COST / SQ. FT. / YEAR \$0.97
 WATER COST TOTAL/YEAR \$154,466
 WATER / SQ. FT. / YEAR \$0.99
 UTILITY COST/YEAR \$305,655

BUILDING: Nitschke Hall
 FY YEAR: 2015
 DATE: 01/12/16

MONTH	DEGREE DAYS (DD)		ELECTRICITY			PURCHASED STEAM		FUEL OIL		TOTAL ENERGY COST				
	Heating	Cooling	% P.F.	kWh	kWh per DD	Cost per kWh	TOTAL	M (LBS)	M (Lbs) per DD		Cost per M(Lbs)	Load-shed Hours	Cost per Gal	@20 Gal/Hr TOTAL
July	9	137	100%	253,090	1,733	\$0.051	\$13,032	9	0.06	\$10.62	0	\$4.50	\$0	\$13,130
August	5	208	100%	271,156	1,273	\$0.053	\$14,364	5	0.02	\$10.62	0	\$4.50	\$0	\$14,418
September	125	56	100%	197,019	1,089	\$0.055	\$10,750	127	0.70	\$10.62	0	\$4.50	\$0	\$12,100
October	412	0	100%	142,806	347	\$0.060	\$8,559	419	1.02	\$10.62	0	\$4.50	\$0	\$13,011
November	887	0	100%	126,431	143	\$0.050	\$6,362	902	1.02	\$10.62	0	\$4.50	\$0	\$15,945
December	988	0	100%	126,279	128	\$0.049	\$6,222	1,005	1.02	\$10.62	0	\$4.50	\$0	\$16,897
1st half yr	2426	401		1,116,780	395	\$0.053	\$59,289	2,468	0.87	\$10.62	0	\$4.50	\$0	\$85,501
January	1367	0	100%	123,091	90	\$0.049	\$6,037	1,391	1.02	\$10.62	0	\$4.50	\$0	\$20,807
February	1463	0	100%	118,926	81	\$0.051	\$6,069	1,489	1.02	\$10.62	0	\$4.50	\$0	\$21,876
March	990	0	100%	124,842	126	\$0.050	\$6,213	1,007	1.02	\$10.62	0	\$4.50	\$0	\$16,910
April	483	0	100%	171,945	356	\$0.050	\$8,568	491	1.02	\$10.62	0	\$4.50	\$0	\$13,786
May	132	93	100%	180,055	800	\$0.051	\$9,215	134	0.60	\$10.62	0	\$4.50	\$0	\$10,642
June	35	133	100%	199,230	1,186	\$0.065	\$12,929	36	0.21	\$10.62	0	\$4.50	\$0	\$13,307
2nd half yr	4470	226		918,089	196	\$0.053	\$49,031	4,548	0.97	\$10.62	0	\$4.50	\$0	\$97,327
TOTAL YEAR	6896	627		2,034,869	270	\$0.053	\$108,320	7,016	0.93	\$10.62	0	\$4.50	\$0	\$182,829

Building Data: 1993 Energy Consumption to BTU Conversions

Gross Area (ft)2 132,159 Electricity = KWH X 3413 BTU's x 1,000 6,945,007

Gross Volume (ft)3 1,057,272 Steam = M (lbs) X 1,000,000 7,016,462

General Notes: Fuel Oil = Gallons X 138,690 0

Other Fuel 0

TOTAL BTU's x 1,000 13,961,469

ENERGY COST / SQ. FT. / YEAR \$1.38
 WATER COST TOTAL/YEAR \$25,290
 WATER / SQ. FT. / YEAR \$0.19
 UTILITY COST/YEAR \$208,118

Energy Utilization Index =

Total BTU Consumption/Yr 13,961,468,561
 Gross Area (ft) 2 132,159

Divided by 100,000 = 1.0564 THERMS

BUILDING: Nitschke Technology Commercialization Complex
 FY YEAR: 2015

DATE: 01/12/16

MONTH	DEGREE DAYS (DD)		ELECTRICITY			NATURAL GAS			FUEL OIL		TOTAL ENERGY COST	
	Heating	Cooling	% P.F.	kWh	kWh per DD	Cost per kWh	1000 cubic feet (Mcf)	Mcf per DD	Cost per Mcf	Load-shed Hours		Cost per Gal
July	9	137	100%	33,610	230	\$0.051	24	0.16	\$1.69	0	\$4.50	\$0
August	5	208	100%	33,740	158	\$0.053	1	0.01	\$29.05	0	\$4.50	\$0
September	125	56	100%	25,408	140	\$0.055	1	0.01	\$27.18	0	\$4.50	\$0
October	412	0	100%	25,643	62	\$0.060	1	0.00	\$76.62	0	\$4.50	\$0
November	887	0	100%	39,312	44	\$0.050	17	0.02	\$12.26	0	\$4.50	\$0
December	988	0	100%	35,118	36	\$0.049	57	0.06	\$9.16	0	\$4.50	\$0
1st half yr	2426	401		192,831	68	\$0.053	102	0.04	\$9.01	0	\$4.50	\$0
January	1367	0	100%	47,249	35	\$0.049	117	0.09	\$8.24	0	\$4.50	\$0
February	1463	0	100%	68,585	47	\$0.051	0	0.00	\$0.00	0	\$4.50	\$0
March	990	0	100%	46,783	47	\$0.050	0	0.00	\$0.00	0	\$4.50	\$0
April	483	0	100%	34,168	71	\$0.050	0	0.00	\$0.00	0	\$4.50	\$0
May	132	93	100%	48,047	214	\$0.051	0	0.00	\$0.00	0	\$4.50	\$0
June	35	133	100%	44,852	267	\$0.065	0	0.00	\$0.00	0	\$4.50	\$0
2nd half yr	4470	226		289,684	62	\$0.053	118	0.03	\$11.29	0	\$4.50	\$0
TOTAL YEAR	6896	627		482,515	64	\$0.053	219	0.03	\$10.23	0	\$4.50	\$0

Building Data:	2010	Energy Consumption to BTU Conversions	BTU's x 1,000
Gross Area (ft)2	39,961	Electricity = KWH X 3413	1,646,824
Gross Volume (ft)3	319,688	Natural Gas = MCF X 102,500	22,489
General Notes:		Fuel Oil = Gallons X 138,690	0
		Other Fuel	0
		TOTAL BTU's x 1,000	1,669,312
ENERGY COST / SQ. FT. / YEAR	\$0.69		
WATER COST TOTAL/YEAR	\$6,465		
WATER / SQ. FT. / YEAR	\$0.16		
UTILITY COST/YEAR	\$34,077		

Energy Utilization Index =

$$\frac{\text{Total BTU Consumption/Yr}}{\text{Gross Area (ft) }^2} = \frac{1,669,312,195}{39,961} = 0.4177 \text{ THERMS}$$

BUILDING: North Engineering
 FY YEAR: 2015
 DATE: 01/12/16

MONTH	DEGREE DAYS (DD)		ELECTRICITY			PURCHASED STEAM			FUEL OIL		TOTAL ENERGY COST				
	Heating	Cooling	% P.F.	kWh	kWh per DD	Cost per kWh	TOTAL	M (LBS)	M (Lbs) per DD	Cost per M(Lbs)		TOTAL	Load-shed Hours	Cost per Gal	@20 Gal/Hr TOTAL
July	9	137	100%	341,974	2,342	\$0.051	\$17,609	18	0.12	\$10.62	\$186	0	\$4.50	\$0	\$17,795
August	5	208	100%	380,420	1,786	\$0.053	\$20,153	10	0.05	\$10.62	\$103	0	\$4.50	\$0	\$20,256
September	125	56	100%	310,309	1,714	\$0.055	\$16,931	243	1.34	\$10.62	\$2,584	0	\$4.50	\$0	\$19,515
October	412	0	100%	264,812	643	\$0.060	\$15,872	802	1.95	\$10.62	\$8,518	0	\$4.50	\$0	\$24,390
November	887	0	100%	237,409	268	\$0.050	\$11,946	1,727	1.95	\$10.62	\$18,339	0	\$4.50	\$0	\$30,285
December	988	0	100%	255,577	259	\$0.049	\$12,593	1,924	1.95	\$10.62	\$20,427	0	\$4.50	\$0	\$33,020
1st half yr	2426	401		1,790,501	633	\$0.053	\$95,103	4,723	1.67	\$10.62	\$50,158	0	\$4.50	\$0	\$145,261
January	1367	0	100%	248,672	182	\$0.049	\$12,197	2,662	1.95	\$10.62	\$28,263	0	\$4.50	\$0	\$40,460
February	1463	0	100%	237,207	162	\$0.051	\$12,105	2,848	1.95	\$10.62	\$30,248	0	\$4.50	\$0	\$42,353
March	990	0	100%	254,215	257	\$0.050	\$12,652	1,928	1.95	\$10.62	\$20,468	0	\$4.50	\$0	\$33,120
April	483	0	100%	241,111	499	\$0.050	\$12,014	940	1.95	\$10.62	\$9,986	0	\$4.50	\$0	\$22,000
May	132	93	100%	320,564	1,425	\$0.051	\$16,407	257	1.14	\$10.62	\$2,729	0	\$4.50	\$0	\$19,136
June	35	133	100%	338,721	2,016	\$0.065	\$21,981	68	0.41	\$10.62	\$724	0	\$4.50	\$0	\$22,704
2nd half yr	4470	226		1,640,491	349	\$0.053	\$87,355	8,703	1.85	\$10.62	\$92,418	0	\$4.50	\$0	\$179,773
TOTAL YEAR	6896	627		3,430,992	456	\$0.053	\$182,458	13,426	1.78	\$10.62	\$142,576	0	\$4.50	\$0	\$325,034

Building Data: 1954
 Gross Area (ft)2: 252,894
 Gross Volume (ft)3: 2,023,152
 General Notes:

Energy Consumption to BTU Conversions
 BTU's x 1,000: 11,709,974
 Electricity = KWH X 3413
 Steam = M (lbs) X 1,000,000
 Fuel Oil = Gallons X 138,690
 Other Fuel

Energy Utilization Index =
 Total BTU Consumption/Yr: 25,136,385,070
 Gross Area (ft) 2: 252,894
 Divided by 100,000 = 0.9939 THERMS

ENERGY COST / SQ. FT. / YEAR: \$1.29
 WATER COST TOTAL/YEAR: \$48,393
 WATER / SQ. FT. / YEAR: \$0.19
 UTILITY COST/YEAR: \$373,427

MONTH	DEGREE DAYS (DD)		ELECTRICITY			PURCHASED STEAM		NATURAL GAS		TOTAL ENERGY COST			
	Heating	Cooling	% P.F.	kWh	kWh per DD	Cost per kWh	TOTAL	M (LBS)	M (Lbs) per DD		Cost per M(Lbs)	1000 cubic feet (Mcf)	Cost per Mcf
July	9	137	100%	194,937	1,335	\$0.051	\$10,038	19	0.13	\$10.62	1,151	\$6.11	\$11,207
August	5	208	100%	227,507	1,068	\$0.053	\$12,052	10	0.05	\$10.62	133	\$6.11	\$13,262
September	125	56	100%	304,672	1,663	\$0.055	\$16,623	261	1.44	\$10.62	324	\$6.11	\$21,936
October	412	0	100%	204,570	497	\$0.060	\$12,261	861	2.09	\$10.62	356	\$6.11	\$24,155
November	887	0	100%	260,525	294	\$0.050	\$13,109	1,853	2.09	\$10.62	406	\$6.11	\$35,952
December	988	0	100%	239,744	243	\$0.049	\$11,813	2,064	2.09	\$10.62	455	\$6.11	\$37,216
1st half yr	2426	401		1,431,955	507	\$0.053	\$75,896	5,067	1.79	\$10.62	2,824	\$4.97	\$143,728
January	1367	0	100%	246,165	180	\$0.049	\$12,074	2,855	2.09	\$10.62	244	\$6.11	\$44,282
February	1463	0	100%	242,729	166	\$0.051	\$12,387	3,056	2.09	\$10.62	553	\$6.11	\$48,967
March	990	0	100%	234,147	237	\$0.050	\$11,653	2,068	2.09	\$10.62	451	\$6.11	\$37,010
April	483	0	100%	253,362	525	\$0.050	\$12,624	1,009	2.09	\$10.62	481	\$6.11	\$26,956
May	132	93	100%	167,379	744	\$0.051	\$8,567	276	1.23	\$10.62	347	\$6.11	\$14,141
June	35	133	100%	173,034	1,030	\$0.065	\$11,229	73	0.44	\$10.62	106	\$6.11	\$12,860
2nd half yr	4470	226		1,316,816	280	\$0.052	\$68,533	9,336	1.99	\$10.62	2,182	\$7.58	\$184,216
TOTAL YEAR	6896	627		2,748,771	365	\$0.053	\$144,429	14,403	1.91	\$10.62	5,006	\$6.11	\$30,565

Building Data: 2005 Energy Consumption to BTU Conversions

BTU's x 1,000
9,381,555

Electricity = KWH X 3413

Energy Utilization Index =

Total BTU Consumption/Yr 24,297,861,932
 Gross Area (ft) 2 271,293

Steam = M (lbs) X 1,000,000 14,403,234

Natural Gas = MCF X 102,500 513,073

Other Fuel 0

Divided by 100,000 =

0.8956 THERMS

TOTAL BTU's x 1,000 24,297,862

CHILLED WATER COST/YEAR \$71,100
 ENERGY COST /SQ. FT. /YEAR \$1.47
 WATER COST TOTAL/YEAR \$56,073
 WATER / SQ. FT. / YEAR \$0.21
 UTILITY COST/YEAR \$455,117

BUILDING: Palmer Hall
 FY YEAR: 2015
 DATE: 01/12/16

MONTH	DEGREE DAYS (DD)		ELECTRICITY			PURCHASED STEAM			FUEL OIL		TOTAL ENERGY COST			
	Heating	Cooling	% P.F.	kWh	kWh per DD	Cost per kWh	TOTAL	M (LBS)	M (Lbs) per DD	Cost per M(Lbs)		TOTAL	Load-shed Hours	Cost per Gal
July	9	137	100%	135,622	929	\$0.051	\$6,984	5	0.03	\$10.62	\$49	0	\$4.50	\$0
August	5	208	100%	137,690	646	\$0.053	\$7,294	3	0.01	\$10.62	\$27	0	\$4.50	\$0
September	125	56	100%	122,812	679	\$0.055	\$6,701	65	0.36	\$10.62	\$685	0	\$4.50	\$0
October	412	0	100%	96,402	234	\$0.060	\$5,778	213	0.52	\$10.62	\$2,258	0	\$4.50	\$0
November	887	0	100%	86,298	97	\$0.050	\$4,342	458	0.52	\$10.62	\$4,861	0	\$4.50	\$0
December	988	0	100%	79,350	80	\$0.049	\$3,910	510	0.52	\$10.62	\$5,415	0	\$4.50	\$0
1st half yr	2426	401		658,175	233	\$0.053	\$35,009	1,252	0.44	\$10.62	\$13,296	0	\$4.50	\$0
January	1367	0	100%	80,681	59	\$0.049	\$3,957	706	0.52	\$10.62	\$7,492	0	\$4.50	\$0
February	1463	0	100%	78,639	54	\$0.051	\$4,013	755	0.52	\$10.62	\$8,018	0	\$4.50	\$0
March	990	0	100%	77,882	79	\$0.050	\$3,876	511	0.52	\$10.62	\$5,426	0	\$4.50	\$0
April	483	0	100%	88,459	183	\$0.050	\$4,408	249	0.52	\$10.62	\$2,647	0	\$4.50	\$0
May	132	93	100%	112,879	502	\$0.051	\$5,777	68	0.30	\$10.62	\$723	0	\$4.50	\$0
June	35	133	100%	114,603	682	\$0.065	\$7,437	18	0.11	\$10.62	\$192	0	\$4.50	\$0
2nd half yr	4470	226		553,142	118	\$0.053	\$29,468	2,307	0.49	\$10.62	\$24,499	0	\$4.50	\$0
TOTAL YEAR	6896	627		1,211,317	161	\$0.053	\$64,477	3,559	0.47	\$10.62	\$37,796	0	\$4.50	\$14,623

Building Data: 1971
 Energy Consumption to BTU Conversions
 BTU's x 1,000
 4,134,226

Gross Area (ft)2 67,040
 Electricity = KWH X 3413

Gross Volume (ft)3 536,320
 Steam = M (lbs) X 1,000,000 3,559,225
 Fuel Oil = Gallons X 138,690 0
 Other Fuel 0

General Notes:
 Divided by 100,000 = 1.1476 THERMS

Energy Utilization Index =
 Total BTU Consumption/Yr 7,693,450,413
 Gross Area (ft)2 67,040

ENERGY COST / SQ. FT. / YEAR \$1.74
 WATER COST TOTAL/YEAR \$12,829
 WATER / SQ. FT. / YEAR \$0.19
 UTILITY COST/YEAR \$129,724

MONTH	DEGREE DAYS (DD)		ELECTRICITY			PURCHASED STEAM		NATURAL GAS		TOTAL ENERGY COST			
	Heating	Cooling	% P.F.	kWh	kWh per DD	Cost per kWh	TOTAL	M (LBS)	M (Lbs) per DD		Cost per M(Lbs)	1000 cubic feet (Mcf)	Cost per Mcf
July	9	137	100%	168,167	1,152	\$0.051	\$8,659	12	0.08	\$10.62	51	\$4.87	314
August	5	208	100%	210,103	986	\$0.053	\$11,130	6	0.03	\$10.62	51	\$4.87	506
September	125	56	100%	210,103	1,161	\$0.055	\$11,463	160	0.88	\$10.62	63	\$4.87	631
October	412	0	100%	238,846	580	\$0.060	\$14,316	527	1.28	\$10.62	148	\$4.87	1,271
November	887	0	100%	222,002	250	\$0.050	\$11,171	1,135	1.28	\$10.62	82	\$4.87	474
December	988	0	100%	180,792	183	\$0.049	\$8,908	1,264	1.28	\$10.62	71	\$4.87	445
1st half yr	2426	401		1,230,013	435	\$0.053	\$65,647	3,104	1.10	\$10.62	466	\$7.82	\$3,642
January	1367	0	100%	232,968	170	\$0.049	\$11,427	1,749	1.28	\$10.62	67	\$4.87	251
February	1463	0	100%	180,942	124	\$0.051	\$9,234	1,872	1.28	\$10.62	229	\$4.87	846
March	990	0	100%	224,773	227	\$0.050	\$11,186	1,267	1.28	\$10.62	243	\$4.87	951
April	483	0	100%	221,211	458	\$0.050	\$11,022	618	1.28	\$10.62	331	\$4.87	1,266
May	132	93	100%	104,708	465	\$0.051	\$5,359	169	0.75	\$10.62	412	\$4.87	1,613
June	35	133	100%	86,386	514	\$0.065	\$5,606	45	0.27	\$10.62	50	\$4.87	190
2nd half yr	4470	226		1,050,987	224	\$0.051	\$53,834	5,720	1.22	\$10.62	1,332	\$3.84	\$5,117
TOTAL YEAR	6896	627		2,280,999	303	\$0.052	\$119,481	8,824	1.17	\$10.62	1,798	\$4.87	\$93,707

Building Data: 1971 Energy Consumption to BTU Conversions

BTU's x 1,000
7,785,051

Electricity = KWH X 3413

Energy Utilization Index =

Total BTU Consumption/Yr 16,793,770,672
 Gross Area (ft) 2 166,213

Steam = M (lbs) X 1,000,000 8,824,425

Natural Gas = MCF X 102,500 184,295

Other Fuel 0

Divided by 100,000 =

1.0104 THERMS

TOTAL BTU's x 1,000 16,793,771

CHILLED WATER COST/YEAR \$43,600
 ENERGY COST /SQ. FT. / YEAR \$1.60
 WATER COST TOTAL/YEAR \$87,828
 WATER / SQ. FT. / YEAR \$0.53
 UTILITY COST/YEAR \$353,375

BUILDING: Peterson House
 FY YEAR: 2015
 DATE: 01/12/16

MONTH	DEGREE DAYS (DD)		ELECTRICITY			NATURAL GAS			FUEL OIL		TOTAL ENERGY COST				
	Heating	Cooling	% P.F.	kWh	kWh per DD	Cost per kWh	TOTAL	1000 cubic feet (Mcf)	Mcf per DD	Cost per Mcf		TOTAL	Load-shed Hours	Cost per Gal	@20 Gal/Hr TOTAL
July	9	137	100%	1,500	10	\$0.051	\$77	2	0.01	\$49.23	98	0	\$4.50	\$0	\$176
August	5	208	100%	100	0	\$0.053	\$5	1	0.00	\$0.00	0	0	\$4.50	\$0	\$5
September	125	56	100%	2,290	13	\$0.055	\$125	1	0.00	\$41.38	21	0	\$4.50	\$0	\$146
October	412	0	100%	2,670	6	\$0.060	\$160	5	0.01	\$11.33	59	0	\$4.50	\$0	\$219
November	887	0	100%	2,330	3	\$0.050	\$117	12	0.01	\$8.69	102	0	\$4.50	\$0	\$219
December	988	0	100%	2,130	2	\$0.049	\$105	25	0.03	\$7.56	191	0	\$4.50	\$0	\$296
1st half yr	2426	401		11,020	4	\$0.054	\$590	45	0.02	\$10.42	471	0	\$4.50	\$0	\$1,061
January	1367	0	100%	2,870	2	\$0.049	\$141	33	0.02	\$7.18	236	0	\$4.50	\$0	\$377
February	1463	0	100%	2,360	2	\$0.051	\$120	28	0.02	\$7.31	205	0	\$4.50	\$0	\$325
March	990	0	100%	2,560	3	\$0.050	\$127	38	0.04	\$7.07	271	0	\$4.50	\$0	\$398
April	483	0	100%	1,330	3	\$0.050	\$66	16	0.03	\$7.94	130	0	\$4.50	\$0	\$197
May	132	93	100%	1,330	6	\$0.051	\$68	7	0.03	\$10.29	69	0	\$4.50	\$0	\$137
June	35	133	100%	1,300	8	\$0.065	\$84	2	0.01	\$0.00	36	0	\$4.50	\$0	\$120
2nd half yr	4470	226		11,750	3	\$0.052	\$607	124	0.00	\$7.64	\$947	0	\$4.50	\$0	\$1,554
TOTAL YEAR	6896	627		22,770	3	\$0.077	\$1,757	45	0.01	\$10.42	\$471	0	\$4.50	\$0	\$2,228

Building Data: 1936 Energy Consumption to BTU Conversions
 Gross Area (ft)2 4,316 Electricity = KWH X 3413 BTU's x 1,000 77,714
 Gross Volume (ft)3 34,528 Natural Gas = MCF X 102,500 4,633
 General Notes: Fuel Oil = Gallons X 138,690
 Other Fuel 0
 TOTAL BTU's x 1,000 82,347

Energy Utilization Index =
 Total BTU Consumption/Yr 82,347,010
 Gross Area (ft)2 4,316
 Divided by 100,000 = 0.1908 THERMS

ENERGY COST / SQ. FT. / YEAR \$0.52
 WATER COST TOTAL/YEAR \$397
 WATER / SQ. FT. / YEAR \$0.09
 UTILITY COST/YEAR \$2,625

MONTH	DEGREE DAYS (DD)		ELECTRICITY			NATURAL GAS			FUEL OIL			TOTAL ENERGY COST		
	Heating	Cooling	% P.F.	kWh	kWh per DD	Cost per kWh	TOTAL	1000 cubic feet (Mcf)	Mcf per DD	Cost per Mcf	TOTAL		Load-shed Hours	Cost per Gal
July	9	137	100%	25,530	175	\$0.051	\$1,315	13	0.09	\$22.50	285	0	\$4.50	\$0
August	5	208	100%	26,653	125	\$0.053	\$1,412	5	0.02	\$52.08	256	0	\$4.50	\$0
September	125	56	100%	21,796	120	\$0.055	\$1,189	4	0.02	\$57.98	245	0	\$4.50	\$0
October	412	0	100%	23,923	58	\$0.060	\$1,434	6	0.01	\$44.75	252	0	\$4.50	\$0
November	887	0	100%	27,115	31	\$0.050	\$1,364	32	0.04	\$11.31	366	0	\$4.50	\$0
December	988	0	100%	30,021	30	\$0.049	\$1,479	128	0.13	\$5.50	705	0	\$4.50	\$0
1st half yr	2426	401		155,039	55	\$0.053	\$8,193	188	0.07	\$11.23	2,109	0	\$4.50	\$0
January	1367	0	100%	33,193	24	\$0.049	\$1,628	459	0.34	\$4.15	1,904	0	\$4.50	\$0
February	1463	0	100%	33,560	23	\$0.051	\$1,713	616	0.42	\$4.16	2,560	0	\$4.50	\$0
March	990	0	100%	27,823	28	\$0.050	\$1,385	690	0.70	\$4.32	2,985	0	\$4.50	\$0
April	483	0	100%	22,241	46	\$0.050	\$1,108	572	1.18	\$4.32	2,472	0	\$4.50	\$0
May	132	93	100%	21,326	95	\$0.051	\$1,092	263	1.17	\$4.97	1,308	0	\$4.50	\$0
June	35	133	100%	23,565	140	\$0.065	\$1,529	72	0.43	\$7.74	560	0	\$4.50	\$0
2nd half yr	4470	226		161,708	34	\$0.052	\$8,454	2,672	0.57	\$4.41	\$11,789	0	\$4.50	\$0
TOTAL YEAR	6896	627		316,747	42	\$0.053	\$16,647	2,860	0.38	\$4.86	\$13,898	0	\$4.50	\$0

Building Data: 1995 Energy Consumption to BTU Conversions

BTU's x 1,000
1,081,056

Energy Utilization Index =

$$\frac{\text{Total BTU Consumption/Yr}}{\text{Gross Area (ft}^2\text{)}} = \frac{1,374,235,987}{30,861}$$

Divided by 100,000 =

0.4453 THERMS

ENERGY COST / SQ. FT. / YEAR \$0.99
 WATER COST TOTAL/YEAR \$6,573
 WATER / SQ. FT. / YEAR \$0.21
 UTILITY COST/YEAR \$37,118

TOTAL BTU's x 1,000
1,374,236

Natural Gas = MCF X 102,500
 Fuel Oil = Gallons X 138,690
 Other Fuel

293,180
0
0

Electricity = KWH X 3413

1,081,056

BUILDING: Presidents Hall (The Crossings) DATE: 01/12/16
 FY YEAR: 2015

MONTH	DEGREE DAYS (DD)		ELECTRICITY			PURCHASED STEAM			NATURAL GAS		TOTAL ENERGY COST			
	Heating	Cooling	% P.F.	kWh	kWh per DD	Cost per kWh	TOTAL	M (LBS)	M (Lbs) per DD	Cost per M(Lbs)		100 cubic feet (Mcf)	Cost per Mcf	TOTAL
July	9	137	100%	109,423	749	\$0.051	\$5,635	16	0.11	\$10.62	0	\$0.00	\$0	\$5,803
August	5	208	100%	164,694	773	\$0.053	\$8,725	9	0.04	\$10.62	0	\$0.00	\$0	\$8,818
September	125	56	100%	216,557	1,196	\$0.055	\$11,816	220	1.22	\$10.62	0	\$0.00	\$0	\$14,156
October	412	0	100%	212,215	515	\$0.060	\$12,719	726	1.76	\$10.62	12	\$8.59	\$103	\$20,536
November	887	0	100%	214,695	242	\$0.050	\$10,803	1,564	1.76	\$10.62	22	\$5.78	\$127	\$27,536
December	988	0	100%	188,784	191	\$0.049	\$9,302	1,742	1.76	\$10.62	14	\$6.26	\$88	\$27,886
1st half yr	2426	401		1,106,369	391	\$0.053	\$58,999	4,277	1.51	\$10.62	48	\$6.62	\$318	\$104,734
January	1367	0	100%	188,865	138	\$0.049	\$9,263	2,410	1.76	\$10.62	13	\$3.74	\$49	\$34,904
February	1463	0	100%	177,435	121	\$0.051	\$9,055	2,579	1.76	\$10.62	4	\$3.69	\$15	\$36,458
March	990	0	100%	185,980	188	\$0.050	\$9,256	1,745	1.76	\$10.62	13	\$3.91	\$51	\$27,840
April	483	0	100%	183,091	379	\$0.050	\$9,123	852	1.76	\$10.62	13	\$3.83	\$50	\$18,215
May	132	93	100%	96,972	431	\$0.051	\$4,963	233	1.03	\$10.62	9	\$3.92	\$35	\$7,470
June	35	133	100%	88,344	526	\$0.065	\$5,733	62	0.37	\$10.62	11	\$3.79	\$42	\$6,430
2nd half yr	4470	226		920,688	196	\$0.051	\$47,393	7,880	1.68	\$10.62	63	\$3.83	\$241	\$131,316
TOTAL YEAR	6896	627		2,027,056	269	\$0.052	\$106,392	12,157	1.62	\$10.62	111	\$5.03	\$559	\$236,050

Building Data: 2002 Energy Consumption to BTU Conversions

Gross Area (ft)2 228,990 Electricity = KWH X 3413 BTU's x 1,000 6,918,343

Gross Volume (ft)3 1,831,920 Steam = M (lbs) X 1,000,000 12,157,322 Energy Utilization Index =

General Notes: Natural Gas = MCF X 102,500 11,378 Total BTU Consumption/Yr 19,087,043,324
 Divided by 100,000 = 0.8335 THERMS
 Other Fuel 0 Gross Area (ft)2 228,990

CHILLED WATER COST/YEAR \$60,000
 ENERGY COST / SQ. FT. / YEAR \$1.29
 WATER COST TOTAL/YEAR \$38,949
 WATER / SQ. FT. / YEAR \$0.17
 UTILITY COST/YEAR \$334,999

MONTH	DEGREE DAYS (DD)		ELECTRICITY			NATURAL GAS			FUEL OIL		TOTAL ENERGY COST				
	Heating	Cooling	% P.F.	kWh	kWh per DD	Cost per kWh	TOTAL	1000 cubic feet (Mcf)	Mcf per DD	Cost per Mcf		TOTAL	Load-shed Hours	Cost per Gal	@20 Gal/Hr TOTAL
July	9	137	100%	140,906	965	\$0.051	\$7,256	195	1.34	\$6.16	1,201	0	\$4.50	\$0	\$8,457
August	5	208	100%	165,346	776	\$0.053	\$8,759	175	0.82	\$9.93	1,738	0	\$4.50	\$0	\$10,497
September	125	56	100%	114,701	634	\$0.055	\$6,258	195	1.08	\$10.02	1,955	0	\$4.50	\$0	\$8,213
October	412	0	100%	111,365	270	\$0.060	\$6,675	153	0.37	\$8.59	1,314	0	\$4.50	\$0	\$7,989
November	887	0	100%	106,033	120	\$0.050	\$5,335	251	0.28	\$5.78	1,450	0	\$4.50	\$0	\$6,786
December	988	0	100%	121,609	123	\$0.049	\$5,992	247	0.25	\$6.26	1,547	0	\$4.50	\$0	\$7,538
1st half yr	2426	401		759,960	269	\$0.053	\$40,275	1,216	0.43	\$7.57	9,205	0	\$4.50	\$0	\$49,480
January	1367	0	100%	87,341	64	\$0.049	\$4,284	506	0.37	\$3.74	1,894	0	\$4.50	\$0	\$6,178
February	1463	0	100%	108,320	74	\$0.051	\$5,528	668	0.45	\$3.69	2,431	0	\$4.50	\$0	\$7,959
March	990	0	100%	106,837	108	\$0.050	\$5,317	531	0.54	\$3.91	2,078	0	\$4.50	\$0	\$7,395
April	483	0	100%	110,050	228	\$0.050	\$5,484	677	1.40	\$3.83	2,590	0	\$4.50	\$0	\$8,073
May	132	93	100%	138,076	614	\$0.051	\$7,067	349	1.55	\$3.92	1,366	0	\$4.50	\$0	\$8,433
June	35	133	100%	135,641	807	\$0.065	\$8,802	257	1.53	\$3.79	975	0	\$4.50	\$0	\$9,777
2nd half yr	4470	226		686,265	146	\$0.053	\$36,481	2,978	0.00	\$3.81	\$11,334	0	\$4.50	\$0	\$47,815
TOTAL YEAR	6896	627		1,446,225	192	\$0.053	\$76,756	1,216	0.16	\$7.57	\$9,205	0	\$4.50	\$0	\$85,961

Building Data: 1992 Energy Consumption to BTU Conversions

Gross Area (ft)2 55,209 Electricity = KWH X 3413 BTU's x 1,000 4,935,966

Gross Volume (ft)3 441,672 Natural Gas = MCF X 102,500 124,640 Energy Utilization Index = $\frac{\text{Total BTU Consumption/Yr}}{\text{Gross Area (ft) }^2} = \frac{5,060,605,925}{55,209}$

General Notes: Fuel Oil = Gallons X 138,690 0 Divided by 100,000 = 0.9166 THERMS
 Other Fuel 0

TOTAL BTU's x 1,000 5,060,606

ENERGY COST / SQ. FT. / YEAR \$1.56
 WATER COST TOTAL/YEAR \$3,715
 WATER / SQ. FT. / YEAR \$0.07
 UTILITY COST/YEAR \$89,676

BUILDING: Ritter
 FY YEAR: 2015
 DATE: 01/12/16

MONTH	DEGREE DAYS (DD)		ELECTRICITY			PURCHASED STEAM			FUEL OIL		TOTAL ENERGY COST				
	Heating	Cooling	% P.F.	kWh	kWh per DD	Cost per kWh	TOTAL	M (LBS)	M (Lbs) per DD	Cost per M(Lbs)		TOTAL	Load-shed Hours	Cost per Gal	@20 Gal/Hr TOTAL
July	9	137	100%	17,357	119	\$0.051	\$894	1	0.01	\$10.62	\$11	0	\$4.50	\$0	\$905
August	5	208	100%	16,006	75	\$0.053	\$848	1	0.00	\$10.62	\$6	0	\$4.50	\$0	\$854
September	125	56	100%	16,929	94	\$0.055	\$924	15	0.08	\$10.62	\$157	0	\$4.50	\$0	\$1,080
October	412	0	100%	15,307	37	\$0.060	\$917	49	0.12	\$10.62	\$516	0	\$4.50	\$0	\$1,433
November	887	0	100%	15,637	18	\$0.050	\$787	105	0.12	\$10.62	\$1,111	0	\$4.50	\$0	\$1,898
December	988	0	100%	14,550	15	\$0.049	\$717	117	0.12	\$10.62	\$1,237	0	\$4.50	\$0	\$1,954
1st half yr	2426	401		95,785	34	\$0.053	\$5,086	286	0.10	\$10.62	\$3,038	0	\$4.50	\$0	\$8,124
January	1367	0	100%	12,700	9	\$0.049	\$623	161	0.12	\$10.62	\$1,712	0	\$4.50	\$0	\$2,335
February	1463	0	100%	12,106	8	\$0.051	\$618	173	0.12	\$10.62	\$1,832	0	\$4.50	\$0	\$2,450
March	990	0	100%	12,212	12	\$0.050	\$608	117	0.12	\$10.62	\$1,240	0	\$4.50	\$0	\$1,847
April	483	0	100%	12,314	25	\$0.050	\$614	57	0.12	\$10.62	\$605	0	\$4.50	\$0	\$1,218
May	132	93	100%	16,451	73	\$0.051	\$842	16	0.07	\$10.62	\$165	0	\$4.50	\$0	\$1,007
June	35	133	100%	15,155	90	\$0.065	\$983	4	0.02	\$10.62	\$44	0	\$4.50	\$0	\$1,027
2nd half yr	4470	226		80,938	17	\$0.053	\$4,287	527	0.11	\$10.62	\$5,597	0	\$4.50	\$0	\$9,885
TOTAL YEAR	6896	627		176,723	23	\$0.053	\$9,374	813	0.11	\$10.62	\$8,635	0	\$4.50	\$0	\$18,009

Building Data: 1965 Energy Consumption to BTU Conversions

Gross Area (ft)2 15,317 Electricity = KWH X 3413 BTU's x 1,000 603,155

Gross Volume (ft)3 122,536 Steam = M (lbs) X 1,000,000 813,196 Energy Utilization Index = $\frac{\text{Total BTU Consumption/Yr}}{\text{Gross Area (ft)}^2} = \frac{1,416,350,375}{15,317}$

General Notes: Fuel Oil = Gallons X 138,690 0 Divided by 100,000 = 0.9247 THERMS
 Other Fuel 0

TOTAL BTU's x 1,000 1,416,350

ENERGY COST / SQ. FT. / YEAR \$1.18
 WATER COST TOTAL/YEAR \$499
 WATER / SQ. FT. / YEAR \$0.03
 UTILITY COST/YEAR \$18,508

MONTH	DEGREE DAYS (DD)		ELECTRICITY		NATURAL GAS			FUEL OIL		TOTAL ENERGY COST					
	Heating	Cooling	% P.F.	kWh	kWh per DD	Cost per kWh	TOTAL	1000 cubic feet (Mcf)	Mcf per DD		Cost per Mcf	TOTAL	Load-shed Hours	Cost per Gal	@20 Gal/Hr TOTAL
July	9	137	100%	83,640	573	\$0.051	\$4,307	109	0.75	\$6.94	756	0	\$4.50	\$0	\$5,063
August	5	208	100%	94,050	442	\$0.053	\$4,982	112	0.53	\$8.50	952	0	\$4.50	\$0	\$5,934
September	125	56	100%	76,140	421	\$0.055	\$4,154	142	0.78	\$6.08	863	0	\$4.50	\$0	\$5,017
October	412	0	100%	66,740	162	\$0.060	\$4,000	160	0.39	\$5.86	938	0	\$4.50	\$0	\$4,938
November	887	0	100%	83,860	95	\$0.050	\$4,220	243	0.27	\$5.06	1,230	0	\$4.50	\$0	\$5,449
December	988	0	100%	83,040	84	\$0.049	\$4,091	228	0.23	\$4.84	1,103	0	\$4.50	\$0	\$5,195
1st half yr	2426	401		487,470	172	\$0.053	\$25,755	994	0.35	\$5.88	5,841	0	\$4.50	\$0	\$31,596
January	1367	0	100%	83,040	61	\$0.049	\$4,073	424	0.31	\$4.31	1,827	0	\$4.50	\$0	\$5,900
February	1463	0	100%	82,400	56	\$0.051	\$4,205	491	0.34	\$4.31	2,117	0	\$4.50	\$0	\$6,322
March	990	0	100%	82,400	83	\$0.050	\$4,101	495	0.50	\$4.52	2,239	0	\$4.50	\$0	\$6,340
April	483	0	100%	91,770	190	\$0.050	\$4,573	423	0.88	\$4.54	1,919	0	\$4.50	\$0	\$6,492
May	132	93	100%	64,200	285	\$0.051	\$3,286	237	1.05	\$5.16	1,224	0	\$4.50	\$0	\$4,510
June	35	133	100%	67,900	404	\$0.065	\$4,406	0	0.00	\$0.00	540	0	\$4.50	\$0	\$4,946
2nd half yr	4470	226		471,710	100	\$0.052	\$24,643	2,070	0.44	\$4.77	\$9,866	0	\$4.50	\$0	\$34,509
TOTAL YEAR	6896	627		959,180	127	\$0.053	\$50,398	3,064	0.41	\$5.13	\$15,707	0	\$4.50	\$0	\$66,105

Building Data: 1961 Energy Consumption to BTU Conversions

Gross Area (ft)2 109,552 Electricity = KWH X 3413 BTU's x 1,000 3,273,681

Gross Volume (ft)3 876,416 Natural Gas = MCF X 102,500 314,060
 Fuel Oil = Gallons X 138,690 0
 Other Fuel 0

General Notes: Total BTU Consumption/Yr 3,587,741,340
 Divided by 100,000 = 0.3275 THERMS
 Gross Area (ft)2 109,552

ENERGY COST / SQ. FT. / YEAR \$0.60
 WATER COST TOTAL/YEAR \$16,669
 WATER / SQ. FT. / YEAR \$0.15
 UTILITY COST/YEAR \$82,774

BUILDING: Savage Hall
 FY YEAR: 2015
 DATE: 01/12/16

MONTH	DEGREE DAYS (DD)		ELECTRICITY			PURCHASED STEAM			FUEL OIL		TOTAL ENERGY COST			
	Heating	Cooling	% P.F.	kWh	kWh per DD	Cost per kWh	TOTAL	M (LBS)	M (Lbs) per DD	Cost per M(Lbs)		TOTAL	Load-shed Hours	Cost per Gal
July	9	137	100%	255,131	1,747	\$0.051	\$13,138	14	0.09	\$10.62	\$147	0	\$4.50	\$0
August	5	208	100%	199,840	938	\$0.053	\$10,586	8	0.04	\$10.62	\$82	0	\$4.50	\$0
September	125	56	100%	183,560	1,014	\$0.055	\$10,015	192	1.06	\$10.62	\$2,038	0	\$4.50	\$0
October	412	0	100%	179,664	436	\$0.060	\$10,768	632	1.53	\$10.62	\$6,716	0	\$4.50	\$0
November	887	0	100%	182,159	205	\$0.050	\$9,166	1,362	1.53	\$10.62	\$14,458	0	\$4.50	\$0
December	988	0	100%	207,522	210	\$0.049	\$10,225	1,517	1.53	\$10.62	\$16,105	0	\$4.50	\$0
1st half yr	2426	401		1,207,876	427	\$0.053	\$63,898	3,724	1.32	\$10.62	\$39,544	0	\$4.50	\$0
January	1367	0	100%	200,635	147	\$0.049	\$9,841	2,098	1.53	\$10.62	\$22,282	0	\$4.50	\$0
February	1463	0	100%	233,431	160	\$0.051	\$11,912	2,246	1.53	\$10.62	\$23,847	0	\$4.50	\$0
March	990	0	100%	220,356	223	\$0.050	\$10,966	1,520	1.53	\$10.62	\$16,137	0	\$4.50	\$0
April	483	0	100%	198,557	411	\$0.050	\$9,894	741	1.53	\$10.62	\$7,873	0	\$4.50	\$0
May	132	93	100%	168,041	747	\$0.051	\$8,601	203	0.90	\$10.62	\$2,152	0	\$4.50	\$0
June	35	133	100%	185,832	1,106	\$0.065	\$12,059	54	0.32	\$10.62	\$571	0	\$4.50	\$0
2nd half yr	4470	226		1,206,852	257	\$0.052	\$63,273	6,861	1.46	\$10.62	\$72,862	0	\$4.50	\$0
TOTAL YEAR	6896	627		2,414,728	321	\$0.053	\$127,171	10,585	1.41	\$10.62	\$112,406	0	\$4.50	\$0

Building Data: 1975 Energy Consumption to BTU Conversions
 Gross Area (ft)2 199,380 Electricity = KWH X 3413 BTU's x 1,000 8,241,467
 Gross Volume (ft)3 1,595,040 Steam = M (lbs) X 1,000,000 10,585,296
 General Notes: Fuel Oil = Gallons X 138,690 0
 Other Fuel 0
 TOTAL BTU's x 1,000 18,826,763

Energy Utilization Index =
 Total BTU Consumption/Yr 18,826,762,643
 Gross Area (ft) 2 199,380
 Divided by 100,000 = 0.9443 THERMS

ENERGY COST / SQ. FT. / YEAR \$1.20
 WATER COST TOTAL/YEAR \$6,952
 WATER / SQ. FT. / YEAR \$0.03
 UTILITY COST/YEAR \$246,529

MONTH	DEGREE DAYS (DD)		ELECTRICITY			PURCHASED STEAM		FUEL OIL		TOTAL ENERGY COST				
	Heating	Cooling	% P.F.	kWh	kWh per DD	Cost per kWh	TOTAL	M (LBS)	M (Lbs) per DD		Cost per M(Lbs)	Load-shed Hours	Cost per Gal	@20 Gal/Hr TOTAL
July	9	137	100%	20,000	137	\$0.051	\$1,030	3	0.02	\$10.62	0	\$4.50	\$0	\$1,061
August	5	208	100%	20,000	94	\$0.053	\$1,059	2	0.01	\$10.62	0	\$4.50	\$0	\$1,077
September	125	56	100%	70,157	388	\$0.055	\$3,828	41	0.23	\$10.62	0	\$4.50	\$0	\$4,264
October	412	0	100%	46,108	112	\$0.060	\$2,764	135	0.33	\$10.62	0	\$4.50	\$0	\$4,202
November	887	0	100%	59,173	67	\$0.050	\$2,977	292	0.33	\$10.62	0	\$4.50	\$0	\$6,075
December	988	0	100%	20,000	20	\$0.049	\$985	325	0.33	\$10.62	0	\$4.50	\$0	\$4,435
1st half yr	2426	401		235,438	83	\$0.054	\$12,644	798	0.28	\$10.62	0	\$4.50	\$0	\$21,115
January	1367	0	100%	20,000	15	\$0.049	\$981	449	0.33	\$10.62	0	\$4.50	\$0	\$5,754
February	1463	0	100%	57,740	39	\$0.051	\$2,947	481	0.33	\$10.62	0	\$4.50	\$0	\$8,055
March	990	0	100%	59,683	60	\$0.050	\$2,970	326	0.33	\$10.62	0	\$4.50	\$0	\$6,427
April	483	0	100%	59,593	123	\$0.050	\$2,969	159	0.33	\$10.62	0	\$4.50	\$0	\$4,656
May	132	93	100%	58,723	261	\$0.051	\$3,006	43	0.19	\$10.62	0	\$4.50	\$0	\$3,466
June	35	133	100%	57,843	344	\$0.065	\$3,754	12	0.07	\$10.62	0	\$4.50	\$0	\$3,876
2nd half yr	4470	226		313,582	67	\$0.053	\$16,626	1,470	0.31	\$10.62	0	\$4.50	\$0	\$32,234
TOTAL YEAR	6896	627		549,020	73	\$0.053	\$29,270	2,268	0.30	\$10.62	0	\$4.50	\$0	\$53,349

Building Data: 1935 Energy Consumption to BTU Conversions

BTU's x 1,000
1,873,805

Energy Utilization Index =

$$\frac{\text{Total BTU Consumption/Yr}}{\text{Gross Area (ft)}^2} = \frac{4,141,324,526}{42,710}$$

$$\text{Divided by } 100,000 = 0.9696 \text{ THERMS}$$

CHILLED WATER COST/YEAR \$11,200
 ENERGY COST / SQ. FT. / YEAR \$1.51
 WATER COST TOTAL/YEAR \$6,192
 WATER / SQ. FT. / YEAR \$0.14
 UTILITY COST/YEAR \$70,741

MONTH	DEGREE DAYS (DD)		ELECTRICITY		NATURAL GAS			FUEL OIL		TOTAL ENERGY COST				
	Heating	Cooling	% P.F.	kWh	kWh per DD	Cost per kWh	TOTAL	1000 cubic feet (Mcf)	Mcf per DD		Cost per Mcf	TOTAL	Load-shed Hours	Cost per Gal
July	9	137	100%	12,400	85	\$0.051	\$639	5	0.03	\$48.30	241	0	\$4.50	\$0
August	5	208	100%	5,600	26	\$0.053	\$297	0	0.00	\$0.00	218	0	\$4.50	\$0
September	125	56	100%	6,100	34	\$0.055	\$333	3	0.02	\$77.68	233	0	\$4.50	\$0
October	412	0	100%	6,400	16	\$0.060	\$384	2	0.00	\$114.34	229	0	\$4.50	\$0
November	887	0	100%	8,600	10	\$0.050	\$433	36	0.04	\$10.52	379	0	\$4.50	\$0
December	988	0	100%	10,100	10	\$0.049	\$498	223	0.23	\$4.68	1,043	0	\$4.50	\$0
1st half yr	2426	401		49,200	17	\$0.052	\$2,582	269	0.10	\$8.71	2,344	0	\$4.50	\$0
January	1367	0	100%	10,400	8	\$0.049	\$510	578	0.42	\$4.05	2,338	0	\$4.50	\$0
February	1463	0	100%	9,300	6	\$0.051	\$475	664	0.45	\$4.09	2,716	0	\$4.50	\$0
March	990	0	100%	9,200	9	\$0.050	\$458	648	0.65	\$4.31	2,795	0	\$4.50	\$0
April	483	0	100%	8,900	18	\$0.050	\$443	621	1.29	\$4.24	2,635	0	\$4.50	\$0
May	132	93	100%	9,300	41	\$0.051	\$476	411	1.83	\$4.53	1,860	0	\$4.50	\$0
June	35	133	100%	7,800	46	\$0.065	\$506	130	0.77	\$5.79	753	0	\$4.50	\$0
2nd half yr	4470	226		54,900	12	\$0.052	\$2,868	3,052	0.65	\$4.29	\$13,097	0	\$4.50	\$0
TOTAL/YEAR	6896	627		104,100	14	\$0.131	\$13,640	3,321	0.44	\$4.65	\$15,441	0	\$4.50	\$0

Building Data:	1994	Energy Consumption to BTU Conversions	BTU's x 1,000	
Gross Area (ft)2	7,502	Electricity = KWH X 3413	355,293	
Gross Volume (ft)3	60,016	Natural Gas = MCF X 102,500	340,403	
General Notes:		Fuel Oil = Gallons X 138,690	0	
		Other Fuel	0	
		TOTAL BTU's x 1,000	695,696	
		Energy Utilization Index =		
		Total BTU Consumption/Yr	695,695,800	
		Gross Area (ft) 2	7,502	
		Divided by 100,000 =	0.9273	THERMS
ENERGY COST / SQ. FT. / YEAR	\$3.88			
WATER COST TOTAL/YEAR	\$9,276			
UTILITY COST/YEAR	\$38,357			

MONTH	DEGREE DAYS (DD)		ELECTRICITY			PURCHASED STEAM		FUEL OIL		TOTAL ENERGY COST				
	Heating	Cooling	% P.F.	kWh	kWh per DD	Cost per kWh	TOTAL	M (LBS)	M (Lbs) per DD		Cost per M(Lbs)	Load-shed Hours	Cost per Gal	@20 Gal/Hr TOTAL
July	9	137	100%	41,745	286	\$0.051	\$2,150	3	0.02	\$10.62	0	\$4.50	\$0	\$2,185
August	5	208	100%	44,167	207	\$0.053	\$2,340	2	0.01	\$10.62	0	\$4.50	\$0	\$2,359
September	125	56	100%	48,298	267	\$0.055	\$2,635	46	0.25	\$10.62	0	\$4.50	\$0	\$3,125
October	412	0	100%	32,084	78	\$0.060	\$1,923	152	0.37	\$10.62	0	\$4.50	\$0	\$3,538
November	887	0	100%	39,716	45	\$0.050	\$1,998	327	0.37	\$10.62	0	\$4.50	\$0	\$5,475
December	988	0	100%	38,903	39	\$0.049	\$1,917	365	0.37	\$10.62	0	\$4.50	\$0	\$5,790
1st half yr	2426	401		244,913	87	\$0.053	\$12,963	896	0.32	\$10.62	0	\$4.50	\$0	\$22,472
January	1367	0	100%	38,903	28	\$0.049	\$1,908	505	0.37	\$10.62	0	\$4.50	\$0	\$7,267
February	1463	0	100%	35,265	24	\$0.051	\$1,800	540	0.37	\$10.62	0	\$4.50	\$0	\$7,534
March	990	0	100%	37,941	38	\$0.050	\$1,888	365	0.37	\$10.62	0	\$4.50	\$0	\$5,769
April	483	0	100%	38,217	79	\$0.050	\$1,904	178	0.37	\$10.62	0	\$4.50	\$0	\$3,798
May	132	93	100%	44,000	196	\$0.051	\$2,252	49	0.22	\$10.62	0	\$4.50	\$0	\$2,769
June	35	133	100%	44,000	262	\$0.065	\$2,855	13	0.08	\$10.62	0	\$4.50	\$0	\$2,992
2nd half yr	4470	226		238,326	51	\$0.053	\$12,607	1,650	0.35	\$10.62	0	\$4.50	\$0	\$30,129
TOTAL YEAR	6896	627		483,239	64	\$0.053	\$25,570	2,546	0.34	\$10.62	0	\$4.50	\$0	\$52,602

Building Data: 1959 Energy Consumption to BTU Conversions

Gross Area (ft)2 47,947 Electricity = KWH X 3413
 BTU's x 1,000 1,649,295

Gross Volume (ft)3 383,576 Steam = M (lbs) X 1,000,000 2,545,557
 Energy Utilization Index = $\frac{\text{Total BTU Consumption/Yr}}{\text{Gross Area (ft)}^2} = \frac{4,194,851,866}{47,947}$

General Notes: Fuel Oil = Gallons X 138,690
 Other Fuel
 Divided by 100,000 = 0.8749 THERMS

ENERGY COST / SQ. FT. / YEAR \$1.10
 WATER COST TOTAL/YEAR \$1,562
 WATER / SQ. FT. / YEAR \$0.03
 UTILITY COST/YEAR \$54,163

BUILDING: Stranahan Arboretum DATE: 01/12/16
 FY YEAR: 2015

MONTH	DEGREE DAYS (DD)		ELECTRICITY			NATURAL GAS			FUEL OIL		TOTAL ENERGY COST				
	Heating	Cooling	% P.F.	kWh	kWh per DD	Cost per kWh	TOTAL	1000 cubic feet (Mcf)	Mcf per DD	Cost per Mcf		TOTAL	Load-shed Hours	Cost per Gal	@20 Gal/Hr TOTAL
July	9	137	100%	5	0	\$0.051	\$0	0	0.00	\$0.00	25	0	\$4.50	\$0	\$25
August	5	208	100%	257	1	\$0.053	\$14	0	0.00	\$0.00	0	0	\$4.50	\$0	\$14
September	125	56	100%	466	3	\$0.055	\$25	0	0.00	\$0.00	25	0	\$4.50	\$0	\$51
October	412	0	100%	358	1	\$0.060	\$21	5	0.01	\$16.74	82	0	\$4.50	\$0	\$103
November	887	0	100%	354	0	\$0.050	\$18	19	0.02	\$7.91	147	0	\$4.50	\$0	\$165
December	988	0	100%	729	1	\$0.049	\$36	37	0.04	\$7.26	267	0	\$4.50	\$0	\$303
1st half yr	2426	401		2,169	1	\$0.053	\$114	60	0.02	\$9.05	546	0	\$4.50	\$0	\$660
January	1367	0	100%	556	0	\$0.049	\$27	0	0.00	\$0.00	0	0	\$4.50	\$0	\$27
February	1463	0	100%	1,606	1	\$0.051	\$82	46	0.03	\$6.97	320	0	\$4.50	\$0	\$402
March	990	0	100%	1,159	1	\$0.050	\$58	44	0.04	\$6.99	307	0	\$4.50	\$0	\$365
April	483	0	100%	1,132	2	\$0.050	\$66	71	0.15	\$7.13	507	0	\$4.50	\$0	\$563
May	132	93	100%	430	2	\$0.051	\$22	17	0.07	\$8.16	137	0	\$4.50	\$0	\$159
June	35	133	100%	341	2	\$0.065	\$22	10	0.06	\$8.68	86	0	\$4.50	\$0	\$108
2nd half yr	4470	226		5,224	1	\$0.051	\$267	188	0.04	\$7.23	\$1,356	0	\$4.50	\$0	\$1,624
TOTAL YEAR	6896	627		7,393	1	\$2.024	\$14,960	248	0.03	\$7.67	\$1,902	0	\$4.50	\$0	\$16,862

Building Data: 1932 est Energy Consumption to BTU Conversions
 Gross Area (ft)2 7,386 Electricity = KWH X 3413 BTU's x 1,000 25,232
 Gross Volume (ft)3 59,088 Natural Gas = MCF X 102,500 25,410
 General Notes: Fuel Oil = Gallons X 138,690 0
 Other Fuel 0
 TOTAL BTU's x 1,000 50,642

Energy Utilization Index =
 Total BTU Consumption/Yr 50,642,059
 Gross Area (ft)2 7,386
 Divided by 100,000 = 0.0686 THERMS

ENERGY COST / SQ. FT. / YEAR \$2.28
 WATER COST TOTAL/YEAR \$469
 WATER / SQ. FT. / YEAR \$0.06
 UTILITY COST/YEAR \$17,331

MONTH	DEGREE DAYS (DD)		ELECTRICITY			PURCHASED STEAM		FUEL OIL		TOTAL ENERGY COST				
	Heating	Cooling	% P.F.	kWh	kWh per DD	Cost per kWh	TOTAL	M (LBS)	M (Lbs) per DD		Cost per M(Lbs)	Load-shed Hours	Cost per Gal	@20 Gal/Hr TOTAL
July	9	137	100%	138,793	951	\$0.051	\$7,147	8	0.06	\$10.62	0	\$4.50	\$0	\$7,236
August	5	208	100%	150,377	706	\$0.053	\$7,966	5	0.02	\$10.62	0	\$4.50	\$0	\$8,016
September	125	56	100%	146,343	809	\$0.055	\$7,985	117	0.64	\$10.62	0	\$4.50	\$0	\$9,223
October	412	0	100%	146,019	354	\$0.060	\$8,752	384	0.93	\$10.62	0	\$4.50	\$0	\$12,832
November	887	0	100%	151,127	170	\$0.050	\$7,604	827	0.93	\$10.62	0	\$4.50	\$0	\$16,389
December	988	0	100%	161,872	164	\$0.049	\$7,976	921	0.93	\$10.62	0	\$4.50	\$0	\$17,760
1st half yr	2426	401		894,532	316	\$0.053	\$47,430	2,262	0.80	\$10.62	0	\$4.50	\$0	\$71,455
January	1367	0	100%	126,358	92	\$0.049	\$6,198	1,275	0.93	\$10.62	0	\$4.50	\$0	\$19,735
February	1463	0	100%	111,607	76	\$0.051	\$5,695	1,364	0.93	\$10.62	0	\$4.50	\$0	\$20,184
March	990	0	100%	125,177	126	\$0.050	\$6,230	923	0.93	\$10.62	0	\$4.50	\$0	\$16,034
April	483	0	100%	128,028	265	\$0.050	\$6,379	450	0.93	\$10.62	0	\$4.50	\$0	\$11,163
May	132	93	100%	109,598	487	\$0.051	\$5,609	123	0.55	\$10.62	0	\$4.50	\$0	\$6,917
June	35	133	100%	108,713	647	\$0.065	\$7,055	33	0.19	\$10.62	0	\$4.50	\$0	\$7,401
2nd half yr	4470	226		709,480	151	\$0.052	\$37,166	4,169	0.89	\$10.62	0	\$4.50	\$0	\$81,434
TOTAL YEAR	6896	627		1,604,012	213	\$0.053	\$84,596	6,431	0.85	\$10.62	0	\$4.50	\$0	\$152,889

Building Data: 1984 Energy Consumption to BTU Conversions

Gross Area (ft)2 121,135 Electricity = KWH X 3413 BTU's x 1,000 5,474,494

Gross Volume (ft)3 969,080 Steam = M (lbs) X 1,000,000 6,431,186

General Notes: Fuel Oil = Gallons X 138,690 0

Other Fuel 0

TOTAL BTU's x 1,000 11,905,680

ENERGY COST / SQ. FT. / YEAR \$1.26
 WATER COST TOTAL/YEAR \$3,946
 WATER / SQ. FT. / YEAR \$0.03
 UTILITY COST/YEAR \$156,835

Energy Utilization Index =

Total BTU Consumption/Yr 11,905,679,798
 Gross Area (ft)2 121,135

Divided by 100,000 = 0.9828 THERMS

BUILDING: Student Rec Center
 FY YEAR: 2015
 DATE: 01/12/16

MONTH	DEGREE DAYS (DD)		ELECTRICITY			PURCHASED STEAM			NATURAL GAS		TOTAL ENERGY COST	
	Heating	Cooling	% P.F.	kWh	kWh per DD	Cost per kWh	M (LBS)	M (Lbs) per DD	Cost per M(Lbs)	1000 cubic feet (Mcf)		Cost per Mcf
July	9	137	100%	238,436	1,633	\$0.051	11	0.07	\$10.62	411	\$6.16	\$2,531
August	5	208	100%	259,933	1,220	\$0.053	6	0.03	\$10.62	99	\$9.93	\$983
September	125	56	100%	238,544	1,318	\$0.055	152	0.84	\$10.62	1	\$10.03	\$10
October	412	0	100%	241,056	585	\$0.060	499	1.21	\$10.62	1	\$8.60	\$9
November	887	0	100%	247,209	279	\$0.050	1,075	1.21	\$10.62	3	\$5.78	\$17
December	988	0	100%	250,983	254	\$0.049	1,198	1.21	\$10.62	1	\$6.26	\$6
1st half yr	2426	401		1,476,162	522	\$0.053	2,941	1.04	\$10.62	516	\$6.89	\$3,557
January	1367	0	100%	236,447	173	\$0.049	1,657	1.21	\$10.62	3	\$3.74	\$11
February	1463	0	100%	223,670	153	\$0.051	1,773	1.21	\$10.62	1	\$3.69	\$4
March	990	0	100%	228,052	230	\$0.050	1,200	1.21	\$10.62	1	\$3.92	\$4
April	483	0	100%	243,692	505	\$0.050	585	1.21	\$10.62	0	\$0.00	\$0
May	132	93	100%	267,388	1,188	\$0.051	160	0.71	\$10.62	3	\$3.92	\$12
June	35	133	100%	287,704	1,713	\$0.065	42	0.25	\$10.62	1	\$3.80	\$4
2nd half yr	4470	226		1,486,952	317	\$0.053	5,418	1.15	\$10.62	9	\$3.82	\$34
TOTAL YEAR	6896	627		2,963,114	394	\$0.053	8,359	1.11	\$10.62	525	\$6.84	\$3,591

Building Data: 1990 Energy Consumption to BTU Conversions
 Gross Area (ft)2 157,446 Electricity = KWH X 3413
 Gross Volume (ft)3 1,259,568 Natural Gas = MCF X 102,500
 General Notes: Fuel Oil = Gallons X 138,690
 Other Fuel 0
 Energy Utilization Index = $\frac{\text{Total BTU Consumption/Yr}}{\text{Gross Area (ft)}^2} = \frac{12,426,146,693}{157,446} = 78,920$
 Divided by 100,000 = 0.7892 THERMS

ENERGY COST / SQ. FT. / YEAR \$1.58
 WATER COST TOTAL/YEAR \$56,267
 WATER / SQ. FT. / YEAR \$0.36
 UTILITY COST/YEAR \$305,797

MONTH	DEGREE DAYS (DD)		ELECTRICITY			PURCHASED STEAM		NATURAL GAS		TOTAL ENERGY COST			
	Heating	Cooling	% P.F.	kWh	kWh per DD	Cost per kWh	TOTAL	M (LBS)	M (Lbs) per DD		Cost per M(Lbs)	1000 cubic feet (Mcf)	Cost per Mcf
July	9	137	100%	205,766	1,409	\$0.051	\$10,596	15	0.00	\$10.62	72	\$6.16	\$443
August	5	208	100%	247,621	1,163	\$0.053	\$13,118	9	0.04	\$10.62	52	\$9.93	\$516
September	125	56	100%	217,978	1,204	\$0.055	\$11,893	213	1.18	\$10.62	62	\$10.02	\$621
October	412	0	100%	186,610	453	\$0.060	\$11,185	702	1.70	\$10.62	146	\$8.59	\$1,254
November	887	0	100%	223,456	252	\$0.050	\$11,244	1,511	1.70	\$10.62	234	\$5.78	\$1,352
December	988	0	100%	203,402	206	\$0.049	\$10,022	1,683	1.70	\$10.62	182	\$6.26	\$1,140
1st half yr	2426	401		1,284,833	454	\$0.053	\$68,057	4,132	1.46	\$10.62	748	\$7.12	\$5,327
January	1367	0	100%	203,402	149	\$0.049	\$9,976	2,328	1.70	\$10.62	187	\$3.74	\$700
February	1463	0	100%	203,850	139	\$0.051	\$10,403	2,492	1.70	\$10.62	109	\$3.69	\$403
March	990	0	100%	215,726	218	\$0.050	\$10,736	1,686	1.70	\$10.62	163	\$3.91	\$638
April	483	0	100%	201,834	418	\$0.050	\$10,057	823	1.70	\$10.62	153	\$3.83	\$585
May	132	93	100%	201,834	897	\$0.051	\$10,330	225	1.00	\$10.62	188	\$3.92	\$736
June	35	133	100%	171,659	1,022	\$0.065	\$11,139	60	0.35	\$10.62	163	\$3.79	\$618
2nd half yr	4470	226		1,198,304	255	\$0.052	\$62,642	7,613	1.62	\$10.62	963	\$3.82	\$3,680
TOTAL YEAR	6896	627		2,483,137	330	\$0.053	\$130,698	11,745	1.56	\$10.62	1,711	\$5.26	\$9,008

Building Data: 1959 Energy Consumption to BTU Conversions

BTU's x 1,000
8,474,947

Energy Utilization Index =

$$\frac{\text{Total BTU Consumption/Yr}}{\text{Gross Area (ft}^2\text{)}} = \frac{20,395,394,996}{221,225}$$

0.9219 THERMS

Divided by 100,000 =

ENERGY COST / SQ. FT. / YEAR \$1.20
 WATER COST TOTAL/YEAR \$81,058
 WATER / SQ. FT. / YEAR \$0.37
 UTILITY COST/YEAR \$345,486

TOTAL BTU's x 1,000
20,395,395

0

BUILDING: Sullivan Hall
 FY YEAR: 2015
 DATE: 01/12/16

MONTH	DEGREE DAYS (DD)		ELECTRICITY			PURCHASED STEAM			FUEL OIL		TOTAL ENERGY COST			
	Heating	Cooling	% P.F.	kWh	kWh per DD	Cost per kWh	TOTAL	M (LBS)	M (Lbs) per DD	Cost per M(Lbs)		TOTAL	Load-shed Hours	Cost per Gal
July	9	137	100%	17,251	118	\$0.051	\$888	1	0.01	\$10.62	\$10	0	\$4.50	\$0
August	5	208	100%	16,711	78	\$0.053	\$885	1	0.00	\$10.62	\$5	0	\$4.50	\$0
September	125	56	100%	18,040	100	\$0.055	\$984	13	0.07	\$10.62	\$137	0	\$4.50	\$0
October	412	0	100%	16,937	41	\$0.060	\$1,015	43	0.10	\$10.62	\$451	0	\$4.50	\$0
November	887	0	100%	21,915	25	\$0.050	\$1,103	92	0.10	\$10.62	\$972	0	\$4.50	\$0
December	988	0	100%	22,746	23	\$0.049	\$1,121	102	0.10	\$10.62	\$1,082	0	\$4.50	\$0
1st half yr	2426	401		113,600	40	\$0.053	\$5,996	250	0.09	\$10.62	\$2,658	0	\$4.50	\$0
January	1367	0	100%	21,773	16	\$0.049	\$1,068	141	0.10	\$10.62	\$1,498	0	\$4.50	\$0
February	1463	0	100%	20,178	14	\$0.051	\$1,030	151	0.10	\$10.62	\$1,603	0	\$4.50	\$0
March	990	0	100%	21,751	22	\$0.050	\$1,082	102	0.10	\$10.62	\$1,085	0	\$4.50	\$0
April	483	0	100%	21,723	45	\$0.050	\$1,082	50	0.10	\$10.62	\$529	0	\$4.50	\$0
May	132	93	100%	17,796	79	\$0.051	\$911	14	0.06	\$10.62	\$145	0	\$4.50	\$0
June	35	133	100%	16,354	97	\$0.065	\$1,061	4	0.02	\$10.62	\$38	0	\$4.50	\$0
2nd half yr	4470	226		119,575	25	\$0.052	\$6,235	461	0.10	\$10.62	\$4,897	0	\$4.50	\$0
TOTAL/YEAR	6896	627		233,175	31	\$0.052	\$12,231	711	0.09	\$10.62	\$7,555	0	\$4.50	\$0

Building Data: 1994
 Energy Consumption to BTU Conversions
 BTU's x 1,000
 795,826

Gross Area (ft)2 13,401
 Electricity = KWH X 3413

Gross Volume (ft)3 107,208
 Steam = M (lbs) X 1,000,000 711,473
 Fuel Oil = Gallons X 138,690 0
 Other Fuel 0

General Notes:
 Divided by 100,000 = 1.1248 THERMS

Energy Utilization Index =
 Total BTU Consumption/Yr 1,507,299,599
 Gross Area (ft) 2 13,401

TOTAL BTU's x 1,000 1,507,300

ENERGY COST / SQ. FT. / YEAR \$1.48
 WATER COST TOTAL/YEAR \$1,229
 WATER / SQ. FT. / YEAR \$0.09
 UTILITY COST/YEAR \$21,015

MONTH	DEGREE DAYS (DD)		ELECTRICITY		NATURAL GAS			FUEL OIL		TOTAL ENERGY COST				
	Heating	Cooling	% P.F.	kWh	kWh per DD	Cost per kWh	TOTAL	1000 cubic feet (Mcf)	Mcf per DD		Cost per Mcf	TOTAL	Load-shed Hours	Cost per Gal
July	9	137	100%	27,788	190	\$0.051	\$1,431	13	0.09	\$6.16	80	0	\$4.50	\$0
August	5	208	100%	30,518	143	\$0.053	\$1,617	4	0.02	\$9.93	40	0	\$4.50	\$0
September	125	56	100%	23,101	128	\$0.055	\$1,260	2	0.01	\$10.02	20	0	\$4.50	\$0
October	412	0	100%	20,511	50	\$0.060	\$1,229	2	0.00	\$8.59	17	0	\$4.50	\$0
November	887	0	100%	21,085	24	\$0.050	\$1,061	41	0.05	\$5.78	237	0	\$4.50	\$0
December	988	0	100%	21,557	22	\$0.049	\$1,062	94	0.10	\$6.26	589	0	\$4.50	\$0
1st half yr	2426	401		144,561	51	\$0.053	\$7,660	156	0.06	\$6.30	982	0	\$4.50	\$0
January	1367	0	100%	21,775	16	\$0.049	\$1,068	197	0.14	\$3.74	738	0	\$4.50	\$0
February	1463	0	100%	19,302	13	\$0.051	\$985	241	0.16	\$3.69	890	0	\$4.50	\$0
March	990	0	100%	18,948	19	\$0.050	\$943	196	0.20	\$3.91	767	0	\$4.50	\$0
April	483	0	100%	18,562	38	\$0.050	\$925	234	0.48	\$3.83	895	0	\$4.50	\$0
May	132	93	100%	22,730	101	\$0.051	\$1,163	138	0.61	\$3.92	540	0	\$4.50	\$0
June	35	133	100%	24,378	145	\$0.065	\$1,582	86	0.51	\$3.79	326	0	\$4.50	\$0
2nd half yr	4470	226		125,696	27	\$0.053	\$6,666	1,092	0.23	\$3.81	\$4,157	0	\$4.50	\$0
TOTAL YEAR	6896	627		270,257	36	\$0.053	\$14,327	1,248	0.17	\$4.12	\$5,139	0	\$4.50	\$0

Building Data: 1959 Energy Consumption to BTU Conversions

Gross Area (ft)2 19,826 Electricity = KWH X 3413 BTU's x 1,000 922,387

Gross Volume (ft)3 158,608 Natural Gas = MCF X 102,500 127,920
 Fuel Oil = Gallons X 138,690 0
 Other Fuel 0

General Notes: Total BTU Consumption/Yr 1,050,306,800
 Divided by 100,000 = 0.5298 THERMS
 Gross Area (ft)2 19,826

ENERGY COST / SQ. FT. / YEAR \$0.98
 WATER COST TOTAL/YEAR \$2,452
 WATER / SQ. FT. / YEAR \$0.12
 UTILITY COST/YEAR \$21,917

BUILDING: University Computer Center
 FY YEAR: 2015
 DATE: 01/12/16

MONTg	DEGREE DAYS (DD)		ELECTRICITY			PURCHASED STEAM			NATURAL GAS		TOTAL ENERGY COST
	heating	Cooling	% P.F.	kWg	Cost per kWg	M (LBS) per DD	Cost per M(Lbs)	1000 cubic feet (Mcf)	Cost per Mcf		
July	9	137	100%	116,643	\$0.051	2	\$10.62	82	\$6.16	\$505	\$6,536
August	5	208	100%	130,852	\$0.053	1	\$10.62	3	\$9.93	\$30	\$6,975
September	125	56	100%	112,941	\$0.055	32	\$10.62	0	\$0.00	\$0	\$6,498
October	412	0	100%	203,188	\$0.060	104	\$10.62	0	\$0.00	\$0	\$13,286
November	887	0	100%	209,977	\$0.050	224	\$10.62	173	\$5.78	\$1,000	\$13,949
December	988	0	100%	101,858	\$0.049	250	\$10.62	3	\$6.26	\$19	\$7,693
1st half yr	2426	401		875,459	\$0.054	614	\$10.62	261	\$5.95	\$1,553	\$54,936
January	1367	0	100%	120,304	\$0.049	346	\$10.62	641	\$3.74	\$2,400	\$11,974
February	1463	0	100%	145,626	\$0.051	370	\$10.62	1,953	\$3.69	\$7,215	\$18,579
March	990	0	100%	167,857	\$0.050	251	\$10.62	1,231	\$3.91	\$4,817	\$15,831
April	483	0	100%	180,720	\$0.050	122	\$10.62	570	\$0.00	\$2,180	\$12,483
May	132	93	100%	196,769	\$0.051	33	\$10.62	530	\$3.92	\$2,075	\$12,501
June	35	133	100%	205,641	\$0.065	9	\$10.62	454	\$3.79	\$1,722	\$15,161
2nd half yr	4470	226		1,016,918	\$0.053	1,131	\$10.62	5,379	\$3.79	\$20,409	\$86,529
TOTAL YEAR	6896	627		1,892,376	\$0.053	1,745	\$10.62	5,640	\$3.89	\$21,963	\$141,464

Building Data: 1966 Energy Consumption to BTU Conversions
 Gross Area (ft)2 32,872 Electricity = KWH X 3413 BTU's x 1,000 6,458,679
 Gross Volume (ft)3 262,976 Natural Gas = MCF X 102,500 178,884
 General Notes: Fuel Oil = Gallons X 138,690 15,644,232
 Other Fuel 0
 Divided by 100,000 = 6.7784 THERMS
 Total BTU Consumption/Yr 22,281,795,251
 Gross Area (ft)2 32,872
 Energy Utilization Index = $\frac{22,281,795,251}{32,872}$

ENERGY COST / SQ. FT. / YEAR \$4.30
 WATER COST TOTAL/YEAR \$11,361
 WATER / SQ. FT. / YEAR \$0.35
 UTILITY COST/YEAR \$152,826

MONTH	DEGREE DAYS (DD)		ELECTRICITY			PURCHASED STEAM		NATURAL GAS		TOTAL ENERGY COST			
	Heating	Cooling	% P.F.	kWh	kWh per DD	Cost per kWh	TOTAL	M (LBS)	M (Lbs) per DD		Cost per M(Lbs)	1000 cubic feet (Mcf)	Cost per Mcf
July	9	137	100%	291,418	1,996	\$0.051	\$15,006	20	0.14	\$10.62	14	\$6.16	\$86
August	5	208	100%	310,386	1,457	\$0.053	\$16,443	11	0.05	\$10.62	5	\$9.93	\$50
September	125	56	100%	297,440	1,643	\$0.055	\$16,229	282	1.56	\$10.62	5	\$10.02	\$50
October	412	0	100%	328,894	798	\$0.060	\$19,713	928	2.25	\$10.62	9	\$8.59	\$77
November	887	0	100%	349,553	394	\$0.050	\$17,589	1,998	2.25	\$10.62	36	\$5.78	\$208
December	988	0	100%	358,990	363	\$0.049	\$17,688	2,226	2.25	\$10.62	38	\$6.26	\$238
1st half yr	2426	401		1,936,680	685	\$0.053	\$102,667	5,466	1.93	\$10.62	107	\$6.63	\$709
January	1367	0	100%	358,912	263	\$0.049	\$17,604	3,080	2.25	\$10.62	60	\$3.74	\$225
February	1463	0	100%	338,369	231	\$0.051	\$17,267	3,296	2.25	\$10.62	65	\$3.69	\$240
March	990	0	100%	344,769	348	\$0.050	\$17,158	2,230	2.25	\$10.62	60	\$3.91	\$235
April	483	0	100%	353,099	731	\$0.050	\$17,594	1,088	2.25	\$10.62	78	\$3.83	\$298
May	132	93	100%	356,724	1,585	\$0.051	\$18,258	297	1.32	\$10.62	58	\$3.92	\$227
June	35	133	100%	321,693	1,915	\$0.065	\$20,876	79	0.47	\$10.62	35	\$3.79	\$133
2nd half yr	4470	226		2,073,566	442	\$0.052	\$108,757	10,071	2.14	\$10.62	356	\$3.81	\$1,358
TOTAL YEAR	6896	627		4,010,246	533	\$0.053	\$211,423	15,536	2.07	\$10.62	463	\$4.46	\$2,067

Building Data:	1931	Energy Consumption to BTU Conversions	BTU's x 1,000
Gross Area (ft)2	292,633	Electricity = KWH X 3413	13,686,969
Gross Volume (ft)3	2,341,064	Steam = M (lbs) X 1,000,000	15,536,197
General Notes:		Natural Gas = MCF X 102,500	47,458
		Other Fuel	0
		TOTAL BTU's x 1,000	29,270,624

ENERGY COST / SQ. FT. / YEAR	\$1.29
WATER COST TOTAL/YEAR	\$9,532
WATER / SQ. FT. / YEAR	\$0.03
UTILITY COST/YEAR	\$388,002

Energy Utilization Index =	Total BTU Consumption/Yr	Gross Area (ft) 2	THERMS
	29,270,623,558	292,633	1,0003
	Divided by 100,000 =		

BUILDING: Westwood Building
 FY YEAR: 2015
 DATE: 01/12/16

MONTH	DEGREE DAYS (DD)		ELECTRICITY		NATURAL GAS			FUEL OIL		TOTAL ENERGY COST					
	Heating	Cooling	% P.F.	kWh	kWh per DD	Cost per kWh	TOTAL	1000 cubic feet (Mcf)	Mcf per DD		Cost per Mcf	TOTAL	Load-shed Hours	Cost per Gal	@20 Gal/Hr TOTAL
July	9	137	100%	36,620	251	\$0.089	\$3,275	109	0.75	\$10.35	\$1,128	0	\$4.50	\$0	\$4,403
August	5	208	100%	36,360	171	\$0.089	\$3,252	8	0.04	\$85.65	\$685	0	\$4.50	\$0	\$3,937
September	125	56	100%	38,320	212	\$0.089	\$3,427	14	0.08	\$49.17	\$688	0	\$4.50	\$0	\$4,116
October	412	0	100%	38,900	94	\$0.089	\$3,479	23	0.06	\$31.84	\$732	0	\$4.50	\$0	\$4,212
November	887	0	100%	35,740	40	\$0.089	\$3,197	216	0.24	\$7.10	\$1,534	0	\$4.50	\$0	\$4,730
December	988	0	100%	40,460	41	\$0.089	\$3,619	552	0.56	\$4.79	\$2,642	0	\$4.50	\$0	\$6,261
1st half yr	2426	401		226,400	80	\$0.089	\$20,250	922	0.33	\$8.04	\$7,409	0	\$4.50	\$0	\$27,659
January	1367	0	100%	41,440	30	\$0.089	\$3,707	1,264	0.92	\$4.15	\$5,247	0	\$4.50	\$0	\$8,953
February	1463	0	100%	50,020	34	\$0.089	\$4,474	1,423	0.97	\$4.24	\$6,033	0	\$4.50	\$0	\$10,507
March	990	0	100%	47,180	48	\$0.089	\$4,220	1,884	1.90	\$4.32	\$8,146	0	\$4.50	\$0	\$12,366
April	483	0	100%	44,900	93	\$0.089	\$4,016	1,833	3.80	\$4.25	\$7,786	0	\$4.50	\$0	\$11,802
May	132	93	100%	2,240	10	\$0.089	\$200	1,081	4.80	\$4.61	\$4,983	0	\$4.50	\$0	\$5,183
June	35	133	100%	36,080	215	\$0.089	\$3,227	303	1.80	\$6.34	\$1,921	0	\$4.50	\$0	\$5,148
2nd half yr	4470	226		221,860	47	\$0.089	\$19,844	7,788	1.66	\$4.38	\$34,116	0	\$4.50	\$0	\$53,960
TOTAL YEAR	6896	627		448,260	60	\$0.089	\$40,094	8,710	1.16	\$4.77	\$41,525	0	\$4.50	\$0	\$81,619

Building Data: 1946
 Gross Area (ft)2 271,332
 Gross Volume (ft)3 2,170,656
 General Notes:

Energy Consumption to BTU Conversions
 BTU's x 1,000 1,529,911
 Electricity = KWH X 3413
 Natural Gas = MCF X 102,500
 Fuel Oil = Gallons X 138,690
 Other Fuel

Energy Utilization Index =
 Total BTU Consumption/Yr 2,422,686,380
 Gross Area (ft) 2 271,332
 Divided by 100,000 = 0.0893 THERMS

TOTAL BTU's x 1,000 2,422,686

ENERGY COST / SQ. FT. / YEAR \$0.30
 WATER COST TOTAL/YEAR \$3,074
 WATER / SQ. FT. / YEAR \$0.01
 UTILITY COST/YEAR \$84,693

MONTH	DEGREE DAYS (DD)		ELECTRICITY			PURCHASED STEAM		NATURAL GAS		TOTAL ENERGY COST			
	Heating	Cooling	% P.F.	kWh	kWh per DD	Cost per kWh	TOTAL	M (LBS)	M (Lbs) per DD		Cost per M(Lbs)	1000 cubic feet (Mcf)	Cost per Mcf
July	9	137	100%	449,901	3,082	\$0.051	\$23,167	13	0.09	\$10.62	3	\$31.88	\$108
August	5	208	100%	469,209	2,203	\$0.053	\$24,856	7	0.03	\$10.62	1	\$0.00	\$0
September	125	56	100%	430,578	2,379	\$0.055	\$23,493	181	1.00	\$10.62	1	\$28.35	\$23
October	412	0	100%	436,428	1,059	\$0.060	\$26,158	598	1.45	\$10.62	0	\$0.00	\$0
November	887	0	100%	486,815	549	\$0.050	\$24,495	1,287	1.45	\$10.62	2	\$0.00	\$0
December	988	0	100%	497,302	503	\$0.049	\$24,503	1,434	1.45	\$10.62	0	\$0.00	\$0
1st half yr	2426	401		2,770,233	980	\$0.053	\$146,672	3,521	1.25	\$10.62	7	\$18.46	\$131
January	1367	0	100%	489,540	358	\$0.049	\$24,011	1,984	1.45	\$10.62	0	\$0.00	\$0
February	1463	0	100%	452,332	309	\$0.051	\$23,083	2,123	1.45	\$10.62	0	\$53.30	\$21
March	990	0	100%	466,756	471	\$0.050	\$23,229	1,437	1.45	\$10.62	1	\$55.84	\$28
April	483	0	100%	431,769	894	\$0.050	\$21,514	701	1.45	\$10.62	1	\$47.60	\$29
May	132	93	100%	417,518	1,856	\$0.051	\$21,369	192	0.85	\$10.62	2	\$22.53	\$36
June	35	133	100%	416,000	2,476	\$0.065	\$26,995	51	0.30	\$10.62	1	\$57.58	\$29
2nd half yr	4470	226		2,673,914	569	\$0.052	\$140,202	6,487	1.38	\$10.62	4	\$36.57	\$143
TOTAL YEAR	6896	627		5,444,147	724	\$0.053	\$286,874	10,008	1.33	\$10.62	11	\$24.88	\$274

Building Data: 1997 Energy Consumption to BTU Conversions

BTU's x 1,000

Electricity = KWH X 3413

18,580,873

Steam = M (lbs) X 1,000,000

10,007,718

Natural Gas = MCF X 102,500

1,128

Other Fuel

0

TOTAL BTU's x 1,000

28,589,719

Energy Utilization Index =

Total BTU Consumption/Yr

28,589,718,501

Gross Area (ft) 2

188,501

Divided by 100,000 =

1.5167

THERMS

ENERGY COST / SQ. FT. / YEAR \$2.09
 WATER COST TOTAL/YEAR \$50,770
 WATER / SQ. FT. / YEAR \$0.27
 UTILITY COST/YEAR \$444,190

BUILDING: Center for Creative Education
 FY YEAR: 2015
 DATE: 01/12/16

MONTH	DEGREE DAYS (DD)		ELECTRICITY			PURCHASED STEAM		FUEL OIL		TOTAL ENERGY COST				
	Heating	Cooling	% P.F.	kWh	kWh per DD	Cost per kWh	TOTAL	M (LBS)	M (Lbs) per DD		Cost per M(Lbs)	Load-shed Hours	Cost per Gal	@20 Gal/Hr TOTAL
July	9	137	100%	124,785	855	\$0.054	\$6,691	11	0.08	\$9.97	0	\$4.50	\$0	\$6,806
August	5	208	100%	129,511	608	\$0.054	\$6,957	6	0.03	\$9.97	0	\$4.50	\$0	\$7,020
September	125	56	100%	127,143	702	\$0.058	\$7,407	159	0.88	\$9.97	0	\$4.50	\$0	\$8,996
October	412	0	100%	133,544	324	\$0.076	\$10,122	525	1.27	\$9.97	0	\$4.50	\$0	\$15,360
November	887	0	100%	128,379	145	\$0.056	\$7,132	1,131	1.27	\$9.97	0	\$4.50	\$0	\$18,409
December	988	0	100%	135,537	137	\$0.052	\$7,022	1,260	1.27	\$9.97	0	\$4.50	\$0	\$19,583
1st half yr	2426	401		778,896	276	\$0.058	\$45,330	3,093	1.09	\$9.97	0	\$4.50	\$0	\$76,173
January	1367	0	100%	134,560	98	\$0.052	\$6,981	1,743	1.27	\$9.97	0	\$4.50	\$0	\$24,360
February	1463	0	100%	134,025	92	\$0.054	\$7,295	1,865	1.27	\$9.97	0	\$4.50	\$0	\$25,895
March	990	0	100%	144,687	146	\$0.055	\$7,983	1,262	1.27	\$9.97	0	\$4.50	\$0	\$20,570
April	483	0	100%	135,760	281	\$0.056	\$7,647	616	1.27	\$9.97	0	\$4.50	\$0	\$13,787
May	132	93	100%	57,265	255	\$0.051	\$2,899	168	0.75	\$9.97	0	\$4.50	\$0	\$4,578
June	35	133	100%	50,755	302	\$0.065	\$3,275	45	0.27	\$9.97	0	\$4.50	\$0	\$3,720
2nd half yr	4470	226		657,050	140	\$0.055	\$36,080	5,698	1.21	\$9.97	0	\$4.50	\$0	\$92,909
TOTAL YEAR	6896	627		1,435,946	191	\$0.057	\$81,410	8,791	1.17	\$9.97	0	\$4.50	\$0	\$169,082

Building Data: 2003
 Energy Consumption to BTU Conversions
 BTU's x 1,000
 4,900,884

Gross Area (ft)2 88,810
 Electricity = KWH X 3413

Gross Volume (ft)3 710,480
 Steam = M (lbs) X 1,000,000
 8,791,158

General Notes:
 Fuel Oil = Gallons X 138,690
 0
 Other Fuel
 0

Energy Utilization Index =
 Total BTU Consumption/Yr 13,692,041,982
 Gross Area (ft) 2 88,810
 Divided by 100,000 = 1.5417 THERMS

ENERGY COST / SQ. FT. / YEAR \$1.90
 WATER COST TOTAL/YEAR \$7,563
 WATER / SQ. FT. / YEAR \$0.09
 UTILITY COST/YEAR \$176,646

MONTH	DEGREE DAYS (DD)		ELECTRICITY			PURCHASED STEAM		FUEL OIL		TOTAL ENERGY COST				
	Heating	Cooling	% P.F.	kWh	kWh per DD	Cost per kWh	TOTAL	M (LBS)	M (Lbs) per DD		Cost per M(Lbs)	Load-shed Hours	Cost per Gal	@20 Gal/Hr TOTAL
July	9	137	100%	72,599	497	\$0.054	\$3,893	14	0.10	\$9.97	0	\$4.50	\$0	\$4,036
August	5	208	100%	83,888	394	\$0.054	\$4,506	8	0.04	\$9.97	0	\$4.50	\$0	\$4,586
September	125	56	100%	80,582	445	\$0.058	\$4,694	200	1.10	\$9.97	0	\$4.50	\$0	\$6,687
October	412	0	100%	93,159	226	\$0.076	\$7,061	659	1.60	\$9.97	0	\$4.50	\$0	\$13,629
November	887	0	100%	83,422	94	\$0.056	\$4,634	1,418	1.60	\$9.97	0	\$4.50	\$0	\$18,775
December	988	0	100%	92,781	94	\$0.052	\$4,807	1,579	1.60	\$9.97	0	\$4.50	\$0	\$20,557
1st half yr	2426	401		506,431	179	\$0.058	\$29,595	3,878	1.37	\$9.97	0	\$4.50	\$0	\$68,271
January	1367	0	100%	85,335	62	\$0.052	\$4,427	2,185	1.60	\$9.97	0	\$4.50	\$0	\$26,220
February	1463	0	100%	88,960	61	\$0.054	\$4,842	2,339	1.60	\$9.97	0	\$4.50	\$0	\$28,165
March	990	0	100%	93,512	94	\$0.055	\$5,160	1,583	1.60	\$9.97	0	\$4.50	\$0	\$20,942
April	483	0	100%	81,013	168	\$0.056	\$4,563	772	1.60	\$9.97	0	\$4.50	\$0	\$12,263
May	132	93	100%	88,779	395	\$0.051	\$4,495	211	0.94	\$9.97	0	\$4.50	\$0	\$6,599
June	35	133	100%	80,030	476	\$0.065	\$5,164	56	0.33	\$9.97	0	\$4.50	\$0	\$5,722
2nd half yr	4470	226		517,629	110	\$0.055	\$28,651	7,146	1.52	\$9.97	0	\$4.50	\$0	\$99,912
TOTAL YEAR	6896	627		1,024,060	136	\$0.057	\$58,246	11,024	1.47	\$9.97	0	\$4.50	\$0	\$168,183

Building Data: 1996 Energy Consumption to BTU Conversions

BTU's x 1,000

3,495,117

Electricity = KWH X 3413

11,023,643

Steam = M (lbs) X 1,000,000

0

Fuel Oil = Gallons X 138,690

0

Other Fuel

0

TOTAL BTU's x 1,000

14,518,760

ENERGY COST / SQ. FT. / YEAR \$1.51

WATER COST TOTAL/YEAR \$8,757

WATER / SQ. FT. / YEAR \$0.08

UTILITY COST/YEAR \$176,940

Energy Utilization Index =

Total BTU Consumption/Yr 14,518,760,064

Gross Area (ft) 2 111,363

Divided by 100,000 =

1.3037

THERMS

BUILDING: Dana Cancer Center
 FY YEAR: 2015
 DATE: 01/12/16

MONTH	DEGREE DAYS (DD)		ELECTRICITY			PURCHASED STEAM		FUEL OIL		TOTAL ENERGY COST				
	Heating	Cooling	% P.F.	kWh	kWh per DD	Cost per kWh	TOTAL	M (LBS)	M (Lbs) per DD		Cost per M(Lbs)	Load-shed Hours	Cost per Gal	@20 Gal/Hr TOTAL
July	9	137	100%	100,949	691	\$0.054	\$5,413	6	0.04	\$9.97	0	\$4.50	\$0	\$5,470
August	5	208	100%	114,287	537	\$0.054	\$6,139	3	0.01	\$9.97	0	\$4.50	\$0	\$6,170
September	125	56	100%	104,580	578	\$0.058	\$6,092	79	0.44	\$9.97	0	\$4.50	\$0	\$6,879
October	412	0	100%	111,148	270	\$0.076	\$8,425	260	0.63	\$9.97	0	\$4.50	\$0	\$11,018
November	887	0	100%	102,968	116	\$0.056	\$5,720	560	0.63	\$9.97	0	\$4.50	\$0	\$11,304
December	988	0	100%	118,039	119	\$0.052	\$6,115	624	0.63	\$9.97	0	\$4.50	\$0	\$12,335
1st half yr	2426	401		651,971	231	\$0.058	\$37,904	1,531	0.54	\$9.97	0	\$4.50	\$0	\$53,176
January	1367	0	100%	109,322	80	\$0.052	\$5,671	863	0.63	\$9.97	0	\$4.50	\$0	\$14,277
February	1463	0	100%	108,179	74	\$0.054	\$5,888	924	0.63	\$9.97	0	\$4.50	\$0	\$15,098
March	990	0	100%	113,369	115	\$0.055	\$6,255	625	0.63	\$9.97	0	\$4.50	\$0	\$12,487
April	483	0	100%	97,483	202	\$0.056	\$5,491	305	0.63	\$9.97	0	\$4.50	\$0	\$8,531
May	132	93	100%	112,642	501	\$0.051	\$5,703	83	0.37	\$9.97	0	\$4.50	\$0	\$6,534
June	35	133	100%	101,654	605	\$0.065	\$6,559	22	0.13	\$9.97	0	\$4.50	\$0	\$6,779
2nd half yr	4470	226		642,649	137	\$0.055	\$35,568	2,822	0.60	\$9.97	0	\$4.50	\$0	\$63,707
TOTAL YEAR	6896	627		1,294,620	172	\$0.057	\$73,472	4,353	0.58	\$9.97	0	\$4.50	\$0	\$116,884

Building Data: 1981 Energy Consumption to BTU Conversions
 Gross Area (ft)2 43,975 Electricity = KWH X 3413 BTU's x 1,000 4,418,538
 Gross Volume (ft)3 351,800 Steam = M (lbs) X 1,000,000 4,353,014
 General Notes: Fuel Oil = Gallons X 138,690
 Other Fuel 0
 TOTAL BTU's x 1,000 8,771,552
 Energy Utilization Index = $\frac{\text{Total BTU Consumption/Yr}}{\text{Gross Area (ft)}^2} = \frac{8,771,552,197}{43,975} = 1.9947$ THERMS
 Divided by 100,000 =

ENERGY COST / SQ. FT. / YEAR \$2.66
 WATER COST TOTAL/YEAR \$6,075
 WATER / SQ. FT. / YEAR \$0.14
 UTILITY COST/YEAR \$122,959

BUILDING: Dowling Hall and Morse Center
 FY YEAR: 2015

DATE: 01/12/16

MONTH	DEGREE DAYS (DD)		ELECTRICITY			PURCHASED STEAM		FUEL OIL		TOTAL ENERGY COST				
	Heating	Cooling	% P.F.	kWh	kWh per DD	Cost per kWh	TOTAL	M (LBS)	M (Lbs) per DD		Cost per M(Lbs)	Load-shed Hours	Cost per Gal	@20 Gal/Hr TOTAL
July	9	137	100%	586,828	4,019	\$0.054	\$31,468	32	0.22	\$9.97	0	\$4.50	\$0	\$31,787
August	5	208	100%	680,253	3,194	\$0.054	\$36,540	18	0.08	\$9.97	0	\$4.50	\$0	\$36,717
September	125	56	100%	467,714	2,584	\$0.058	\$27,247	444	2.45	\$9.97	0	\$4.50	\$0	\$31,678
October	412	0	100%	475,536	1,154	\$0.076	\$36,044	1,464	3.55	\$9.97	0	\$4.50	\$0	\$50,648
November	887	0	100%	427,185	482	\$0.056	\$23,731	3,153	3.55	\$9.97	0	\$4.50	\$0	\$55,173
December	988	0	100%	489,274	495	\$0.052	\$25,347	3,512	3.55	\$9.97	0	\$4.50	\$0	\$60,369
1st half yr	2426	401		3,126,790	1,106	\$0.058	\$180,376	8,623	3.05	\$9.97	0	\$4.50	\$0	\$266,372
January	1367	0	100%	431,342	316	\$0.052	\$22,377	4,859	3.55	\$9.97	0	\$4.50	\$0	\$70,833
February	1463	0	100%	415,009	284	\$0.054	\$22,589	5,200	3.55	\$9.97	0	\$4.50	\$0	\$74,449
March	990	0	100%	448,430	453	\$0.055	\$24,742	3,519	3.55	\$9.97	0	\$4.50	\$0	\$59,835
April	483	0	100%	391,700	811	\$0.056	\$22,063	1,717	3.55	\$9.97	0	\$4.50	\$0	\$39,184
May	132	93	100%	461,878	2,053	\$0.051	\$23,385	469	2.09	\$9.97	0	\$4.50	\$0	\$28,064
June	35	133	100%	534,967	3,184	\$0.065	\$34,518	124	0.74	\$9.97	0	\$4.50	\$0	\$35,759
2nd half yr	4470	226		2,683,326	571	\$0.055	\$149,674	15,888	3.38	\$9.97	0	\$4.50	\$0	\$308,124
TOTAL YEAR	6896	627		5,810,116	772	\$0.057	\$330,051	24,511	3.26	\$9.97	0	\$4.50	\$0	\$574,495

Building Data: 1977 Energy Consumption to BTU Conversions

Gross Area (ft)2 247,616 Electricity = KWH X 3413 BTU's x 1,000 19,829,926

Gross Volume (ft)3 1,980,928 Steam = M (lbs) X 1,000,000 24,511,107
 Total BTU Consumption/Yr 44,341,033,325

General Notes: Fuel Oil = Gallons X 138,690
 Other Fuel 0
 Divided by 100,000 = 1.7907 THERMS
 Gross Area (ft)2 247,616

ENERGY COST / SQ. FT. / YEAR \$2.32
 WATER COST TOTAL/YEAR \$35,133
 WATER / SQ. FT. / YEAR \$0.14
 UTILITY COST/YEAR \$609,629

TOTAL BTU's x 1,000 44,341,033

BUILDING: Facilities Support
 FY YEAR: 2015
 DATE: 01/12/16

MONTH	DEGREE DAYS (DD)		ELECTRICITY			PURCHASED STEAM			FUEL OIL		TOTAL ENERGY COST			
	Heating	Cooling	% P.F.	kWh	kWh per DD	Cost per kWh	TOTAL	M (LBS)	M (Lbs) per DD	Cost per M(Lbs)		TOTAL	Load-shed Hours	Cost per Gal
July	9	137	100%	23,491	161	\$0.054	\$1,260	3	0.02	\$9.97	\$35	0	\$4.50	\$0
August	5	208	100%	27,745	130	\$0.054	\$1,490	2	0.01	\$9.97	\$19	0	\$4.50	\$0
September	125	56	100%	19,640	109	\$0.058	\$1,144	48	0.27	\$9.97	\$482	0	\$4.50	\$0
October	412	0	100%	20,055	49	\$0.076	\$1,520	159	0.39	\$9.97	\$1,588	0	\$4.50	\$0
November	887	0	100%	15,936	18	\$0.056	\$885	343	0.39	\$9.97	\$3,420	0	\$4.50	\$0
December	988	0	100%	18,856	19	\$0.052	\$977	382	0.39	\$9.97	\$3,809	0	\$4.50	\$0
1st half yr	2426	401		125,723	44	\$0.058	\$7,276	938	0.33	\$9.97	\$9,353	0	\$4.50	\$0
January	1367	0	100%	17,423	13	\$0.052	\$904	528	0.39	\$9.97	\$5,270	0	\$4.50	\$0
February	1463	0	100%	17,283	12	\$0.054	\$941	566	0.39	\$9.97	\$5,640	0	\$4.50	\$0
March	990	0	100%	16,730	17	\$0.055	\$923	383	0.39	\$9.97	\$3,817	0	\$4.50	\$0
April	483	0	100%	15,959	33	\$0.056	\$899	187	0.39	\$9.97	\$1,862	0	\$4.50	\$0
May	132	93	100%	22,843	102	\$0.051	\$1,157	51	0.23	\$9.97	\$509	0	\$4.50	\$0
June	35	133	100%	27,096	161	\$0.065	\$1,748	14	0.08	\$9.97	\$135	0	\$4.50	\$0
2nd half yr	4470	226		117,334	25	\$0.055	\$6,571	1,728	0.37	\$9.97	\$17,234	0	\$4.50	\$0
TOTAL YEAR	6896	627		243,057	32	\$0.057	\$13,848	2,666	0.35	\$9.97	\$26,587	0	\$4.50	\$0

Building Data: 1983
 Gross Area (ft)2: 26,932
 Gross Volume (ft)3: 215,456

Energy Consumption to BTU Conversions
 Electricity = KWH X 3413
 Steam = M (lbs) X 1,000,000
 Fuel Oil = Gallons X 138,690
 Other Fuel

BTU's x 1,000: 829,554
 2,665,955
 0
 0

Energy Utilization Index =
 Total BTU Consumption/Yr: 3,495,508,669
 Gross Area (ft) 2: 26,932
 Divided by 100,000 = 1.2979 THERMS

ENERGY COST / SQ. FT. / YEAR: \$1.50
 WATER COST TOTAL/YEAR: \$2,924
 WATER / SQ. FT. / YEAR: \$0.11
 UTILITY COST/YEAR: \$43,359

MONTH	DEGREE DAYS (DD)		ELECTRICITY			NATURAL GAS			FUEL OIL		TOTAL ENERGY COST	
	Heating	Cooling	% P.F.	kWh	kWh per DD	Cost per kWh	1000 cubic feet (Mcf)	Mcf per DD	Cost per Mcf	Load-shed Hours		Cost per Gal
July	9	137	100%	45,025	308	\$0.054	32	0.22	\$8.55	0	\$4.50	\$0
August	5	208	100%	47,112	221	\$0.054	23	0.11	\$13.91	0	\$4.50	\$0
September	125	56	100%	36,904	204	\$0.058	21	0.12	\$13.13	0	\$4.50	\$0
October	412	0	100%	33,041	80	\$0.076	16	0.04	\$15.81	0	\$4.50	\$0
November	887	0	100%	32,921	37	\$0.056	15	0.02	\$16.36	0	\$4.50	\$0
December	988	0	100%	34,001	34	\$0.052	16	0.02	\$11.68	0	\$4.50	\$0
1st half yr	2426	401		229,004	81	\$0.058	123	0.04	\$12.64	0	\$4.50	\$0
January	1367	0	100%	33,264	24	\$0.052	97	0.07	\$4.55	0	\$4.50	\$0
February	1463	0	100%	31,410	21	\$0.054	154	0.11	\$5.22	0	\$4.50	\$0
March	990	0	100%	36,696	37	\$0.055	169	0.17	\$4.49	0	\$4.50	\$0
April	483	0	100%	32,196	67	\$0.056	182	0.38	\$4.33	0	\$4.50	\$0
May	132	93	100%	36,226	161	\$0.051	95	0.42	\$4.80	0	\$4.50	\$0
June	35	133	100%	42,105	251	\$0.065	32	0.19	\$8.30	0	\$4.50	\$0
2nd half yr	4470	226		211,897	45	\$0.055	729	0.16	\$4.82	0	\$4.50	\$0
TOTAL/YEAR	6896	627		440,901	59	\$0.057	852	0.11	\$5.95	0	\$4.50	\$0

Building Data:	1989	Energy Consumption to BTU Conversions	BTU's x 1,000
Gross Area (ft)2	40,516	Electricity = KWH X 3413	1,504,795
Gross Volume (ft)3	324,127	Natural Gas = MCF X 102,500	87,330
General Notes:		Fuel Oil = Gallons X 138,690	0
		Other Fuel	0
		TOTAL BTU's x 1,000	1,592,125
ENERGY COST / SQ. FT. / YEAR	\$0.7		
WATER COST TOTAL/YEAR	\$8,992		
WATER / SQ. FT. / YEAR	\$0.22		
UTILITY COST/YEAR	\$39,075		

Energy Utilization Index =

$$\frac{\text{Total BTU Consumption/Yr}}{\text{Gross Area (ft) }^2} = \frac{1,592,125,113}{40,516}$$

Divided by 100,000 = 0.3930 THERMS

BUILDING: Glendale Medical East (VA) DATE: 01/12/16
 FY YEAR: 2015

MONTH	DEGREE DAYS (DD)		ELECTRICITY		NATURAL GAS			FUEL OIL		TOTAL ENERGY COST					
	Heating	Cooling	% P.F.	kWh	kWh per DD	Cost per kWh	TOTAL	1000 cubic feet (Mcf)	Mcf per DD		Cost per Mcf	TOTAL	Load-shed Hours	Cost per Gal	@20 Gal/Hr TOTAL
July	9	137	100%	8,979	62	\$0.054	\$481	14	0.10	\$8.55	120	0	\$4.50	\$0	\$601
August	5	208	100%	10,739	50	\$0.054	\$577	1	0.00	\$13.91	14	0	\$4.50	\$0	\$591
September	125	56	100%	6,233	34	\$0.058	\$363	0	0.00	\$0.00	0	0	\$4.50	\$0	\$363
October	412	0	100%	7,514	18	\$0.076	\$570	0	0.00	\$0.00	0	0	\$4.50	\$0	\$570
November	887	0	100%	7,275	8	\$0.056	\$404	0	0.00	\$0.00	0	0	\$4.50	\$0	\$404
December	988	0	100%	7,253	7	\$0.052	\$376	8	0.01	\$11.68	93	0	\$4.50	\$0	\$469
1st half yr	2426	401		47,993	17	\$0.058	\$2,771	23	0.01	\$9.87	\$227	0	\$4.50	\$0	\$2,998
January	1367	0	100%	9,042	7	\$0.052	\$469	135	0.10	\$4.55	614	0	\$4.50	\$0	\$1,083
February	1463	0	100%	10,803	7	\$0.054	\$588	217	0.15	\$3.65	793	0	\$4.50	\$0	\$1,381
March	990	0	100%	14,719	15	\$0.055	\$812	221	0.22	\$4.49	992	0	\$4.50	\$0	\$1,805
April	483	0	100%	13,545	28	\$0.056	\$763	266	0.55	\$4.33	1,151	0	\$4.50	\$0	\$1,914
May	132	93	100%	11,590	52	\$0.051	\$587	154	0.68	\$4.80	739	0	\$4.50	\$0	\$1,326
June	35	133	100%	28,850	172	\$0.065	\$1,862	15	0.09	\$8.30	125	0	\$4.50	\$0	\$1,986
2nd half yr	4470	226		88,549	19	\$0.055	\$5,080	1,008	0.21	\$4.38	\$4,414	0	\$4.50	\$0	\$9,495
TOTAL YEAR	6896	627		136,542	18	\$0.057	\$7,851	1,031	0.14	\$4.50	\$4,641	0	\$4.50	\$0	\$12,493

Building Data: 1978 Energy Consumption to BTU Conversions
 Gross Area (ft)2 40,447 Electricity = KWH X 3413 BTU's x 1,000 466,018
 Gross Volume (ft)3 323,576 Natural Gas = MCF X 102,500 105,678
 General Notes: Fuel Oil = Gallons X 138,690 0
 Other Fuel 0
 Energy Utilization Index = $\frac{\text{Total BTU Consumption/Yr}}{\text{Gross Area (ft)}^2} = \frac{571,695,346}{40,447} = 0.1413$ THERMS
 Divided by 100,000 = 0.1413 THERMS
 TOTAL BTU's x 1,000 571,695
 ENERGY COST / SQ. FT. / YEAR \$0.31
 WATER COST TOTAL/YEAR \$5,077
 WATER / SQ. FT. / YEAR \$0.13
 UTILITY COST/YEAR \$17,570

MONTH	DEGREE DAYS (DD)		ELECTRICITY			PURCHASED STEAM		FUEL OIL		TOTAL ENERGY COST				
	Heating	Cooling	% P.F.	kWh	kWh per DD	Cost per kWh	TOTAL	M (LBS)	M (Lbs) per DD		Cost per M(Lbs)	Load-shed Hours	Cost per Gal	@20 Gal/Hr TOTAL
July	9	137	100%	1,752,518	12,004	\$0.054	\$93,976	33	0.23	\$9.97	0	\$4.50	\$0	\$94,304
August	5	208	100%	2,217,310	10,410	\$0.054	\$119,102	18	0.09	\$9.97	0	\$4.50	\$0	\$119,285
September	125	56	100%	1,740,336	9,615	\$0.058	\$101,385	457	2.53	\$9.97	0	\$4.50	\$0	\$105,945
October	412	0	100%	1,602,244	3,889	\$0.076	\$121,445	1,507	3.66	\$9.97	0	\$4.50	\$0	\$136,477
November	887	0	100%	1,168,171	1,317	\$0.056	\$64,894	3,245	3.66	\$9.97	0	\$4.50	\$0	\$97,258
December	988	0	100%	1,282,829	1,298	\$0.052	\$66,458	3,615	3.66	\$9.97	0	\$4.50	\$0	\$102,506
1st half yr	2426	401		9,763,408	3,454	\$0.058	\$567,259	8,876	3.14	\$9.97	0	\$4.50	\$0	\$655,775
January	1367	0	100%	1,152,154	843	\$0.052	\$59,770	5,001	3.66	\$9.97	0	\$4.50	\$0	\$109,647
February	1463	0	100%	1,131,050	773	\$0.054	\$61,564	5,353	3.66	\$9.97	0	\$4.50	\$0	\$114,944
March	990	0	100%	1,234,170	1,247	\$0.055	\$68,096	3,622	3.66	\$9.97	0	\$4.50	\$0	\$104,218
April	483	0	100%	1,251,839	2,592	\$0.056	\$70,511	1,767	3.66	\$9.97	0	\$4.50	\$0	\$88,134
May	132	93	100%	1,923,192	8,548	\$0.051	\$97,372	483	2.15	\$9.97	0	\$4.50	\$0	\$102,188
June	35	133	100%	1,968,090	11,715	\$0.065	\$126,988	128	0.76	\$9.97	0	\$4.50	\$0	\$128,265
2nd half yr	4470	226		8,660,495	1,844	\$0.055	\$484,301	16,354	3.48	\$9.97	0	\$4.50	\$0	\$647,396
TOTAL YEAR	6896	627		18,423,903	2,449	\$0.057	\$1,051,561	25,230	3.35	\$9.97	0	\$4.50	\$0	\$1,303,171

Building Data: 1973 Energy Consumption to BTU Conversions

Gross Area (ft)2 254,875 Electricity = KWH X 3413 BTU's x 1,000 62,880,781

Gross Volume (ft)3 2,039,000 Steam = M (lbs) X 1,000,000 25,229,664

General Notes: Fuel Oil = Gallons X 138,690 0
 Other Fuel 0

TOTAL BTU's x 1,000 88,110,445

Energy Utilization Index =

$$\frac{\text{Total BTU Consumption/Yr}}{\text{Gross Area (ft) }^2} = \frac{88,110,445,027}{254,875}$$

Divided by 100,000 = 3.4570 THERMS

ENERGY COST / SQ. FT. / YEAR \$5.11
 WATER COST TOTAL/YEAR \$126,790
 WATER / SQ. FT. / YEAR \$0.50
 UTILITY COST/YEAR \$1,429,962

BUILDING: Health Science Bldg. (Block) DATE: 01/12/16
 FY YEAR: 2015

MONTH	DEGREE DAYS (DD)		ELECTRICITY			PURCHASED STEAM			FUEL OIL		TOTAL ENERGY COST		
	Heating	Cooling	% P.F.	kWh	kWh per DD	Cost per kWh	TOTAL	M (LBS)	M (Lbs) per DD	Cost per M(Lbs)		Load-shed Hours	Cost per Gal
July	9	137	100%	752,714	5,156	\$0.054	\$40,363	22	0.15	\$9.97	0	\$4.50	\$0
August	5	208	100%	596,838	2,802	\$0.054	\$32,059	12	0.06	\$9.97	0	\$4.50	\$0
September	125	56	100%	641,927	3,547	\$0.058	\$37,396	303	1.67	\$9.97	0	\$4.50	\$0
October	412	0	100%	461,515	1,120	\$0.076	\$34,981	998	2.42	\$9.97	0	\$4.50	\$0
November	887	0	100%	370,191	417	\$0.056	\$20,565	2,149	2.42	\$9.97	0	\$4.50	\$0
December	988	0	100%	431,160	436	\$0.052	\$22,337	2,393	2.42	\$9.97	0	\$4.50	\$0
1st half yr	2426	401		3,254,345	1,151	\$0.058	\$187,701	5,877	2.08	\$9.97	0	\$4.50	\$0
January	1367	0	100%	386,068	282	\$0.052	\$20,028	3,312	2.42	\$9.97	0	\$4.50	\$0
February	1463	0	100%	347,477	238	\$0.054	\$18,914	3,544	2.42	\$9.97	0	\$4.50	\$0
March	990	0	100%	373,427	377	\$0.055	\$20,604	2,398	2.42	\$9.97	0	\$4.50	\$0
April	483	0	100%	387,304	802	\$0.056	\$21,815	1,170	2.42	\$9.97	0	\$4.50	\$0
May	132	93	100%	642,081	2,854	\$0.051	\$32,509	320	1.42	\$9.97	0	\$4.50	\$0
June	35	133	100%	643,719	3,832	\$0.065	\$41,535	85	0.50	\$9.97	0	\$4.50	\$0
2nd half yr	4470	226		2,780,076	592	\$0.055	\$155,405	10,829	2.31	\$9.97	0	\$4.50	\$0
TOTAL YEAR	6896	627		6,034,421	802	\$0.057	\$343,105	16,706	2.22	\$9.97	0	\$4.50	\$0

Building Data: 1970 Energy Consumption to BTU Conversions
 Gross Area (ft)2 168,764 Electricity = KWH X 3413 BTU's x 1,000
 20,595,479
 Gross Volume (ft)3 1,350,112 Steam = M (lbs) X 1,000,000 16,705,675
 General Notes: Fuel Oil = Gallons X 138,690 0
 Other Fuel 0
 TOTAL BTU's x 1,000 37,301,154

Energy Utilization Index =
 Total BTU Consumption/Yr 37,301,154,323
 Gross Area (ft) 2 168,764
 Divided by 100,000 = 2.2103 THERMS

ENERGY COST / SQ. FT. / YEAR \$3.02
 WATER COST TOTAL/YEAR \$126,790
 WATER / SQ. FT. / YEAR \$0.75
 UTILITY COST/YEAR \$636,498

MONTH	DEGREE DAYS (DD)		ELECTRICITY		NATURAL GAS			FUEL OIL		TOTAL ENERGY COST				
	Heating	Cooling	% P.F.	kWh	kWh per DD	Cost per kWh	TOTAL	1000 cubic feet (Mcf)	Mcf per DD		Cost per Mcf	TOTAL	Load-shed Hours	Cost per Gal
July	9	137	100%	20,691	142	\$0.054	\$972	368	2.52	\$4.86	1,788	0	\$4.50	\$0
August	5	208	100%	38,996	183	\$0.054	\$1,831	477	2.24	\$6.32	3,013	0	\$4.50	\$0
September	125	56	100%	17,487	97	\$0.058	\$1,608	482	2.66	\$4.46	2,150	0	\$4.50	\$0
October	412	0	100%	19,667	48	\$0.076	\$1,892	508	1.23	\$4.46	2,266	0	\$4.50	\$0
November	887	0	100%	28,206	32	\$0.056	\$1,140	227	0.26	\$4.96	1,127	0	\$4.50	\$0
December	988	0	100%	12,854	13	\$0.052	\$1,148	180	0.18	\$4.96	894	0	\$4.50	\$0
1st half yr	2426	401		137,901	49	\$0.058	\$8,591	2,242	0.79	\$5.01	\$11,238	0	\$4.50	\$0
January	1367	0	100%	12,880	9	\$0.052	\$1,214	325	0.24	\$4.40	1,430	0	\$4.50	\$0
February	1463	0	100%	12,869	9	\$0.054	\$1,220	364	0.25	\$4.38	1,596	0	\$4.50	\$0
March	990	0	100%	15,669	16	\$0.055	\$1,421	436	0.44	\$4.49	1,957	0	\$4.50	\$0
April	483	0	100%	12,455	26	\$0.056	\$1,216	483	1.00	\$4.34	2,099	0	\$4.50	\$0
May	132	93	100%	24,420	109	\$0.051	\$2,834	304	1.35	\$4.72	1,434	0	\$4.50	\$0
June	35	133	100%	17,763	106	\$0.065	\$2,008	234	1.39	\$4.84	1,132	0	\$4.50	\$0
2nd half yr	4470	226		96,056	20	\$0.055	\$9,913	2,146	0.46	\$4.50	\$9,648	0	\$4.50	\$0
TOTAL YEAR	6896	627		233,957	31	\$0.057	\$23,465	4,388	0.58	\$4.76	\$20,886	0	\$4.50	\$0

Building Data:	1965	Energy Consumption to BTU Conversions	BTU's x 1,000
Gross Area (ft)2	36,400	Electricity = KWH X 3413	798,495
Gross Volume (ft)3	291,200	Natural Gas = MCF X 102,500	449,770
General Notes:		Fuel Oil = Gallons X 138,700	0
		Other Fuel	0
		TOTAL BTU's x 1,000	1,248,265

Energy Utilization Index =	
Total BTU Consumption/Yr	1,248,265,241
Gross Area (ft) 2	36,400
Divided by 100,000 =	
	0.3429 THERMS

ENERGY COST / SQ. FT. / YEAR	\$1.22
WATER COST TOTAL/YEAR	\$4,843
WATER / SQ. FT. / YEAR	\$0.13
UTILITY COST/YEAR	\$49,194

BUILDING: Kobacker Hall
 FY YEAR: 2015
 DATE: 01/12/16

MONTH	DEGREE DAYS (DD)		ELECTRICITY			PURCHASED STEAM		FUEL OIL		TOTAL ENERGY COST			
	Heating	Cooling	% P.F.	kWh	kWh per DD	Cost per kWh	TOTAL	M (LBS)	M (Lbs) per DD		Cost per M(Lbs)	Load-shed Hours	Cost per Gal
July	9	137	100%	8,465	58	\$0.054	\$454	5	0.04	\$9.97	0	\$4.50	\$0
August	5	208	100%	9,914	47	\$0.054	\$533	3	0.01	\$9.97	0	\$4.50	\$0
September	125	56	100%	9,662	53	\$0.058	\$563	74	0.41	\$9.97	0	\$4.50	\$0
October	412	0	100%	10,181	25	\$0.076	\$772	243	0.59	\$9.97	0	\$4.50	\$0
November	887	0	100%	8,793	10	\$0.056	\$488	524	0.59	\$9.97	0	\$4.50	\$0
December	988	0	100%	9,909	10	\$0.052	\$513	583	0.59	\$9.97	0	\$4.50	\$0
1st half yr	2426	401		56,924	20	\$0.058	\$3,323	1,433	0.51	\$9.97	0	\$4.50	\$0
January	1367	0	100%	8,767	6	\$0.052	\$455	807	0.59	\$9.97	0	\$4.50	\$0
February	1463	0	100%	8,895	6	\$0.054	\$484	864	0.59	\$9.97	0	\$4.50	\$0
March	990	0	100%	9,799	10	\$0.055	\$541	585	0.59	\$9.97	0	\$4.50	\$0
April	483	0	100%	9,185	19	\$0.056	\$517	285	0.59	\$9.97	0	\$4.50	\$0
May	132	93	100%	10,209	45	\$0.051	\$517	78	0.35	\$9.97	0	\$4.50	\$0
June	35	133	100%	9,312	55	\$0.065	\$601	21	0.12	\$9.97	0	\$4.50	\$0
2nd half yr	4470	226		56,167	12	\$0.055	\$3,115	2,640	0.56	\$9.97	0	\$4.50	\$0
TOTAL YEAR	6896	627		113,091	15	\$0.057	\$6,438	4,072	0.54	\$9.97	0	\$4.50	\$0

Building Data: 1982
 Energy Consumption to BTU Conversions
 BTU's x 1,000
 385,980

Gross Area (ft)2 41,140
 Electricity = KWH X 3413

Gross Volume (ft)3 329,120
 Steam = M (lbs) X 1,000,000
 4,072,382

General Notes:
 Fuel Oil = Gallons X 138,690
 0
 Other Fuel
 0

Energy Utilization Index =
 Total BTU Consumption/Yr 4,458,361,655
 Gross Area (ft)2 41,140
 Divided by 100,000 = 1.0837 THERMS

ENERGY COST / SQ. FT. / YEAR \$1.14
 WATER COST TOTAL/YEAR \$7,021
 WATER / SQ. FT. / YEAR \$0.17
 UTILITY COST/YEAR \$54,071

MONTH	DEGREE DAYS (DD)		ELECTRICITY			NATURAL GAS			FUEL OIL		TOTAL ENERGY COST			
	Heating	Cooling	% P.F.	kWh	kWh per DD	Cost per kWh	TOTAL	1000 cubic feet (Mcf)	Mcf per DD	Cost per Mcf		TOTAL	Load-shed Hours	Cost per Gal
July	9	137	100%	2,145	15	\$0.054	\$115	15	0.10	\$5.87	88	0	\$4.50	\$0
August	5	208	100%	2,127	10	\$0.054	\$114	15	0.07	\$7.91	119	0	\$4.50	\$0
September	125	56	100%	1,870	10	\$0.058	\$109	17	0.09	\$5.87	100	0	\$4.50	\$0
October	412	0	100%	1,968	5	\$0.076	\$149	16	0.04	\$5.87	94	0	\$4.50	\$0
November	887	0	100%	2,575	3	\$0.056	\$143	15	0.02	\$5.82	87	0	\$4.50	\$0
December	988	0	100%	3,202	3	\$0.052	\$166	16	0.02	\$5.03	80	0	\$4.50	\$0
1st half yr	2426	401		13,887	5	\$0.058	\$796	94	0.03	\$6.04	\$568	0	\$4.50	\$0
January	1367	0	100%	3,273	2	\$0.052	\$170	21	0.02	\$4.23	89	0	\$4.50	\$0
February	1463	0	100%	3,340	2	\$0.054	\$182	9	0.01	\$8.00	72	0	\$4.50	\$0
March	990	0	100%	3,338	3	\$0.055	\$184	0	0.00	\$0.00	0	0	\$4.50	\$0
April	483	0	100%	2,791	6	\$0.056	\$157	0	0.00	\$0.00	0	0	\$4.50	\$0
May	132	93	100%	2,728	12	\$0.051	\$138	0	0.00	\$0.00	0	0	\$4.50	\$0
June	35	133	100%	2,263	13	\$0.065	\$146	0	0.00	\$0.00	0	0	\$4.50	\$0
2nd half yr	4470	226		17,733	4	\$0.055	\$977	30	0.01	\$5.36	\$161	0	\$4.50	\$0
TOTAL YEAR	6896	627		31,620	4	\$0.057	\$1,773	124	0.02	\$5.88	\$729	0	\$4.50	\$0

Building Data: 1955 Energy Consumption to BTU Conversions

Gross Area (ft)2 20,533 Electricity = KWH X 3413 BTU's x 1,000 107,919

Gross Volume (ft)3 164,264 Natural Gas = MCF X 102,500 12,710 Energy Utilization Index = $\frac{\text{Total BTU Consumption/Yr}}{\text{Gross Area (ft) }^2}$ = $\frac{120,629,060}{20,533}$

General Notes: Fuel Oil = Gallons X 138,690 0 Divided by 100,000 = 0.0587 THERMS
 Other Fuel 0

TOTAL BTU's x 1,000 120,629

ENERGY COST / SQ. FT. / YEAR \$0.12
 WATER COST TOTAL/YEAR \$1,243
 WATER / SQ. FT. / YEAR \$0.06
 UTILITY COST/YEAR \$3,746

BUILDING: Mulford Library
 FY YEAR: 2015
 DATE: 01/12/16

MONTH	DEGREE DAYS (DD)		ELECTRICITY			PURCHASED STEAM		FUEL OIL		TOTAL ENERGY COST				
	Heating	Cooling	% P.F.	kWh	kWh per DD	Cost per kWh	TOTAL	M (LBS)	M (Lbs) per DD		Cost per M(Lbs)	Load-shed Hours	Cost per Gal	@20 Gal/Hr TOTAL
July	9	137	100%	143,007	980	\$0.054	\$7,668	18	0.12	\$9.97	0	\$4.50	\$0	\$7,846
August	5	208	100%	166,301	781	\$0.054	\$8,933	10	0.05	\$9.97	0	\$4.50	\$0	\$9,032
September	125	56	100%	155,122	857	\$0.058	\$9,037	247	1.37	\$9.97	0	\$4.50	\$0	\$11,505
October	412	0	100%	162,572	395	\$0.076	\$12,322	816	1.98	\$9.97	0	\$4.50	\$0	\$20,457
November	887	0	100%	146,157	165	\$0.056	\$8,119	1,756	1.98	\$9.97	0	\$4.50	\$0	\$25,633
December	988	0	100%	160,387	162	\$0.052	\$8,309	1,956	1.98	\$9.97	0	\$4.50	\$0	\$27,817
1st half yr	2426	401		933,546	330	\$0.058	\$54,389	4,803	1.70	\$9.97	0	\$4.50	\$0	\$102,291
January	1367	0	100%	153,874	113	\$0.052	\$7,983	2,707	1.98	\$9.97	0	\$4.50	\$0	\$34,974
February	1463	0	100%	155,927	107	\$0.054	\$8,487	2,897	1.98	\$9.97	0	\$4.50	\$0	\$37,375
March	990	0	100%	160,941	163	\$0.055	\$8,880	1,960	1.98	\$9.97	0	\$4.50	\$0	\$28,428
April	483	0	100%	138,470	287	\$0.056	\$7,799	956	1.98	\$9.97	0	\$4.50	\$0	\$17,336
May	132	93	100%	163,013	725	\$0.051	\$8,253	261	1.16	\$9.97	0	\$4.50	\$0	\$10,860
June	35	133	100%	144,686	861	\$0.065	\$9,336	69	0.41	\$9.97	0	\$4.50	\$0	\$10,027
2nd half yr	4470	226		916,911	195	\$0.055	\$50,738	8,850	1.88	\$9.97	0	\$4.50	\$0	\$139,000
TOTAL YEAR	6896	627		1,850,457	246	\$0.057	\$105,127	13,653	1.81	\$9.97	0	\$4.50	\$0	\$241,290

Building Data: 1973
 Energy Consumption to BTU Conversions
 BTU's x 1,000
 6,315,610

Gross Area (ft)2 137,930
 Electricity = KWH X 3413

Gross Volume (ft)3 1,103,440
 Steam = M (lbs) X 1,000,000
 13,653,468

General Notes:
 Fuel Oil = Gallons X 138,690
 0
 Other Fuel
 0

Energy Utilization Index =

$$\frac{\text{Total BTU Consumption/Yr}}{\text{Gross Area (ft) }^2} = \frac{19,969,077,393}{137,930} = 144,780$$

Divided by 100,000 = 1.4478 THERMS

ENERGY COST / SQ. FT. / YEAR \$1.75
 WATER COST TOTAL/YEAR \$2,124
 WATER / SQ. FT. / YEAR \$0.02
 UTILITY COST/YEAR \$243,414

BUILDING: Northwest Ohio Medical Technology Center
 FY YEAR: 2015

DATE: 01/12/16

MONTH	DEGREE DAYS (DD)		ELECTRICITY			NATURAL GAS			FUEL OIL		TOTAL ENERGY COST			
	Heating	Cooling	% P.F.	kWh	kWh per DD	Cost per kWh	1000 cubic feet (Mcf)	Mcf per DD	Cost per Mcf	Load-shed Hours		Cost per Gal	@20 Gal/Hr TOTAL	
July	9	137	100%	132,307	906	\$0.054	\$7,095	159	1.09	\$5.87	0	\$4.50	\$0	\$8,028
August	5	208	100%	146,948	690	\$0.054	\$7,893	132	0.62	\$7.91	0	\$4.50	\$0	\$8,937
September	125	56	100%	106,827	590	\$0.058	\$6,223	144	0.80	\$5.87	0	\$4.50	\$0	\$7,069
October	412	0	100%	76,750	186	\$0.076	\$5,817	148	0.36	\$5.87	0	\$4.50	\$0	\$6,685
November	887	0	100%	62,125	70	\$0.056	\$3,451	141	0.16	\$5.82	0	\$4.50	\$0	\$4,271
December	988	0	100%	63,401	64	\$0.052	\$3,285	170	0.17	\$5.03	0	\$4.50	\$0	\$4,140
1st half yr	2426	401		588,358	208	\$0.058	\$33,764	894	0.32	\$6.00	0	\$4.50	\$0	\$39,131
January	1367	0	100%	56,327	41	\$0.052	\$2,922	307	0.22	\$4.23	0	\$4.50	\$0	\$4,219
February	1463	0	100%	59,022	40	\$0.054	\$3,213	353	0.24	\$8.00	0	\$4.50	\$0	\$6,037
March	990	0	100%	69,002	70	\$0.055	\$3,807	352	0.36	\$4.49	0	\$4.50	\$0	\$5,388
April	483	0	100%	71,300	148	\$0.056	\$4,016	423	0.88	\$4.33	0	\$4.50	\$0	\$5,846
May	132	93	100%	101,642	452	\$0.051	\$5,146	282	1.25	\$4.67	0	\$4.50	\$0	\$6,464
June	35	133	100%	105,668	629	\$0.065	\$6,818	51	0.30	\$5.35	0	\$4.50	\$0	\$7,091
2nd half yr	4470	226		462,961	99	\$0.055	\$25,922	1,768	0.38	\$5.16	0	\$4.50	\$0	\$35,046
TOTAL YEAR	6896	627		1,051,319	140	\$0.057	\$59,687	2,662	0.35	\$5.44	0	\$4.50	\$0	\$74,177

Building Data:	1998	Energy Consumption to BTU Conversions	BTU's x 1,000	Energy Utilization Index =
Gross Area (ft)2	38,614	Electricity = KWH X 3413	3,588,152	$\frac{\text{Total BTU Consumption/Yr}}{\text{Gross Area (ft) }^2}$ $\frac{3,861,006,747}{38,614}$
Gross Volume (ft)3	308,912	Natural Gas = MCF X 102,500	272,855	
General Notes:		Fuel Oil = Gallons X 138,690	0	Divided by 100,000 =
		Other Fuel	0	0.9999
		TOTAL BTU's x 1,000	3,861,007	THERMS

ENERGY COST / SQ. FT. / YEAR \$1.92
 WATER COST TOTAL/YEAR \$7,184
 WATER / SQ. FT. / YEAR \$0.19
 UTILITY COST/YEAR \$81,361

BUILDING: Records Retention DATE: 01/12/16
 FY YEAR: 2015

MONTH	DEGREE DAYS (DD)		ELECTRICITY		NATURAL GAS			FUEL OIL		TOTAL ENERGY COST					
	Heating	Cooling	% P.F.	kWh	kWh per DD	Cost per kWh	TOTAL	1000 cubic feet (Mcf)	Mcf per DD		Cost per Mcf	TOTAL	Load-shed Hours	Cost per Gal	@20 Gal/Hr TOTAL
July	9	137	100%	22,205	152	\$0.054	\$1,191	7	0.05	\$5.87	41	0	\$4.50	\$0	\$1,232
August	5	208	100%	24,525	115	\$0.054	\$1,317	0	0.00	#DIV/0!	0	0	\$4.50	\$0	\$1,317
September	125	56	100%	18,655	103	\$0.058	\$1,087	0	0.00	#DIV/0!	0	0	\$4.50	\$0	\$1,087
October	412	0	100%	18,708	45	\$0.076	\$1,418	0	0.00	#DIV/0!	0	0	\$4.50	\$0	\$1,418
November	887	0	100%	19,377	22	\$0.056	\$1,076	0	0.00	#DIV/0!	0	0	\$4.50	\$0	\$1,076
December	988	0	100%	20,226	20	\$0.052	\$1,048	19	0.02	\$5.03	96	0	\$4.50	\$0	\$1,143
1st half yr	2426	401		123,696	44	\$0.058	\$7,137	26	0.01	\$5.26	\$137	0	\$4.50	\$0	\$7,274
January	1367	0	100%	18,459	14	\$0.052	\$958	165	0.12	\$4.23	697	0	\$4.50	\$0	\$1,655
February	1463	0	100%	19,281	13	\$0.054	\$1,049	212	0.14	\$8.00	1,696	0	\$4.50	\$0	\$2,746
March	990	0	100%	21,430	22	\$0.055	\$1,182	243	0.25	\$4.49	1,091	0	\$4.50	\$0	\$2,274
April	483	0	100%	18,139	38	\$0.056	\$1,022	247	0.51	\$4.33	1,069	0	\$4.50	\$0	\$2,090
May	132	93	100%	21,201	94	\$0.051	\$1,073	148	0.66	\$4.67	692	0	\$4.50	\$0	\$1,765
June	35	133	100%	23,478	140	\$0.065	\$1,515	161	0.96	\$5.35	862	0	\$4.50	\$0	\$2,377
2nd half yr	4470	226		121,988	26	\$0.055	\$6,799	1,176	0.25	\$5.19	\$6,107	0	\$4.50	\$0	\$12,907
TOTAL YEAR	6896	627		245,684	33	\$0.057	\$13,937	1,202	0.16	\$5.19	\$6,244	0	\$4.50	\$0	\$20,181

Building Data: 1956 Energy Consumption to BTU Conversions BTU's x 1,000

Gross Area (ft)2 32,086 Electricity = KWH X 3413 838,519

Gross Volume (ft)3 256,688 Natural Gas = MCF X 102,500 123,205

General Notes: Fuel Oil = Gallons X 138,690 0

Other Fuel 0

TOTAL BTU's x 1,000 961,724

ENERGY COST / SQ. FT. / YEAR \$0.63

WATER COST TOTAL/YEAR \$1,630

WATER / SQ. FT. / YEAR \$0.05

UTILITY COST/YEAR \$21,811

Energy Utilization Index =

$$\frac{\text{Total BTU Consumption/Yr}}{\text{Gross Area (ft) }^2} = \frac{961,724,492}{32,086}$$

$$\text{Divided by } 100,000 = 0.2997 \text{ THERMS}$$

BUILDING: Ruppert Health Center
 FY YEAR: 2015

DATE: 01/12/16

MONTH	DEGREE DAYS (DD)		ELECTRICITY			PURCHASED STEAM		FUEL OIL		TOTAL ENERGY COST				
	Heating	Cooling	% P.F.	kWh	kWh per DD	Cost per kWh	TOTAL	M (LBS)	M (Lbs) per DD		Cost per M(Lbs)	Load-shed Hours	Cost per Gal	@20 Gal/Hr TOTAL
July	9	137	100%	128,156	878	\$0.054	\$6,872	15	0.10	\$9.97	0	\$4.50	\$0	\$7,019
August	5	208	100%	151,483	711	\$0.054	\$8,137	8	0.04	\$9.97	0	\$4.50	\$0	\$8,219
September	125	56	100%	140,755	778	\$0.058	\$8,200	205	1.13	\$9.97	0	\$4.50	\$0	\$10,242
October	412	0	100%	151,842	369	\$0.076	\$11,509	675	1.64	\$9.97	0	\$4.50	\$0	\$18,240
November	887	0	100%	152,202	172	\$0.056	\$8,455	1,453	1.64	\$9.97	0	\$4.50	\$0	\$22,947
December	988	0	100%	172,906	175	\$0.052	\$8,958	1,619	1.64	\$9.97	0	\$4.50	\$0	\$25,099
1st half yr	2426	401		897,344	317	\$0.058	\$52,131	3,974	1.41	\$9.97	0	\$4.50	\$0	\$91,766
January	1367	0	100%	153,931	113	\$0.052	\$7,985	2,239	1.64	\$9.97	0	\$4.50	\$0	\$30,319
February	1463	0	100%	144,860	99	\$0.054	\$7,885	2,397	1.64	\$9.97	0	\$4.50	\$0	\$31,787
March	990	0	100%	166,777	168	\$0.055	\$9,202	1,622	1.64	\$9.97	0	\$4.50	\$0	\$25,376
April	483	0	100%	148,112	307	\$0.056	\$8,343	791	1.64	\$9.97	0	\$4.50	\$0	\$16,234
May	132	93	100%	168,413	749	\$0.051	\$8,527	216	0.96	\$9.97	0	\$4.50	\$0	\$10,683
June	35	133	100%	155,606	926	\$0.065	\$10,040	57	0.34	\$9.97	0	\$4.50	\$0	\$10,612
2nd half yr	4470	226		937,699	200	\$0.055	\$51,982	7,323	1.56	\$9.97	0	\$4.50	\$0	\$125,011
TOTAL YEAR	6896	627		1,835,043	244	\$0.057	\$104,113	11,297	1.50	\$9.97	0	\$4.50	\$0	\$216,777

Building Data:	1985	Energy Consumption to BTU Conversions	BTU's x 1,000	6,263,002
Gross Area (ft)2	114,126	Electricity = KWH X 3413		
Gross Volume (ft)3	913,008	Steam = M (lbs) X 1,000,000	11,297,148	
General Notes:		Fuel Oil = Gallons X 138,690	0	
		Other Fuel	0	
		TOTAL BTU's x 1,000	17,560,150	
		Total BTU Consumption/Yr	17,560,149,944	
		Gross Area (ft) 2	114,126	
		Divided by 100,000 =	1.5387	THERMS

ENERGY COST / SQ. FT. / YEAR	\$1.90
WATER COST TOTAL/YEAR	\$19,494
WATER / SQ. FT. / YEAR	\$0.17
UTILITY COST/YEAR	\$236,271

BUILDING: University Medical Ctr (Hospital) DATE: 01/12/16
 FY YEAR: 2015

MONTH	DEGREE DAYS (DD)		ELECTRICITY			PURCHASED STEAM		FUEL OIL		TOTAL ENERGY COST		
	Heating	Cooling	% P.F.	kWh	kWh per DD	Cost per kWh	M (LBS)	M (Lbs) per DD	Cost per M(Lbs)		Load-shed Hours	Cost per Gal
July	9	137	100%	1,334,162	9,138	\$0.054	49	0.33	\$9.97	0	\$4.50	\$0
August	5	208	100%	1,512,314	7,100	\$0.054	27	0.13	\$9.97	0	\$4.50	\$0
September	125	56	100%	1,238,944	6,845	\$0.058	678	3.75	\$9.97	0	\$4.50	\$0
October	412	0	100%	1,158,417	2,812	\$0.076	2,236	5.43	\$9.97	0	\$4.50	\$0
November	887	0	100%	937,649	1,057	\$0.056	4,814	5.43	\$9.97	0	\$4.50	\$0
December	988	0	100%	1,047,886	1,061	\$0.052	5,363	5.43	\$9.97	0	\$4.50	\$0
1st half yr	2426	401		7,229,372	2,557	\$0.058	13,168	4.66	\$9.97	0	\$4.50	\$0
January	1367	0	100%	928,634	679	\$0.052	7,420	5.43	\$9.97	0	\$4.50	\$0
February	1463	0	100%	884,848	605	\$0.054	7,941	5.43	\$9.97	0	\$4.50	\$0
March	990	0	100%	1,013,622	1,024	\$0.055	5,373	5.43	\$9.97	0	\$4.50	\$0
April	483	0	100%	951,008	1,969	\$0.056	2,622	5.43	\$9.97	0	\$4.50	\$0
May	132	93	100%	1,261,240	5,606	\$0.051	716	3.18	\$9.97	0	\$4.50	\$0
June	35	133	100%	1,304,287	7,764	\$0.065	190	1.13	\$9.97	0	\$4.50	\$0
2nd half yr	4470	226		6,343,639	1,351	\$0.055	24,262	5.17	\$9.97	0	\$4.50	\$0
TOTAL YEAR	6896	627		13,573,011	1,804	\$0.057	37,430	4.98	\$9.97	0	\$4.50	\$0

Building Data: 1976 Energy Consumption to BTU Conversions
 Gross Area (ft)2 378,123 Electricity = KWH X 3413 BTU's x 1,000
 46,324,687
 Gross Volume (ft)3 3,024,984 Steam = M (lbs) X 1,000,000 37,429,784
 General Notes: Fuel Oil = Gallons X 138,690 0
 Other Fuel 0
 TOTAL BTU's x 1,000 83,754,471

Energy Utilization Index =
 Total BTU Consumption/Yr 83,754,470,846
 Gross Area (ft) 2 378,123
 Divided by 100,000 = 2.2150 THERMS

ENERGY COST / SQ. FT. / YEAR \$3.03
 WATER COST TOTAL/YEAR \$369,545
 WATER / SQ. FT. / YEAR \$0.98
 UTILITY COST/YEAR \$1,515,801

MONTH	DEGREE DAYS (DD)		ELECTRICITY			NATURAL GAS			FUEL OIL		TOTAL ENERGY COST			
	Heating	Cooling	% P.F.	kWh	kWh per DD	Cost per kWh	TOTAL	1000 cubic feet (Mcf)	Mcf per DD	Cost per Mcf		TOTAL	Load-shed Hours	Cost per Gal
July	9	137	100%	76,629	525	\$0.112	\$8,587	0	0.00	\$0.00	\$0	0	\$4.50	\$0
August	5	208	100%	83,581	392	\$0.107	\$8,911	0	0.00	\$0.00	\$0	0	\$4.50	\$0
September	125	56	100%	79,145	437	\$0.109	\$8,633	0	0.00	\$0.00	\$0	0	\$4.50	\$0
October	412	0	100%	76,940	187	\$0.104	\$7,994	0	0.00	\$0.00	\$0	0	\$4.50	\$0
November	887	0	100%	126,110	142	\$0.079	\$9,968	0	0.00	\$0.00	\$0	0	\$4.50	\$0
December	988	0	100%	153,125	155	\$0.076	\$11,620	0	0.00	\$0.00	\$0	0	\$4.50	\$0
1st half yr	2426	401		595,530	211	\$0.098	\$55,715	0	0.00	\$0.00	\$0	0	\$4.50	\$0
January	1367	0	100%	202,818	148	\$0.077	\$15,612	0	0.00	\$0.00	\$0	0	\$4.50	\$0
February	1463	0	100%	212,069	145	\$0.082	\$17,459	0	0.00	\$0.00	\$0	0	\$4.50	\$0
March	990	0	100%	135,585	137	\$0.095	\$12,943	0	0.00	\$0.00	\$0	0	\$4.50	\$0
April	483	0	100%	109,647	227	\$0.110	\$12,016	0	0.00	\$0.00	\$0	0	\$4.50	\$0
May	132	93	100%	75,570	336	\$0.124	\$9,382	0	0.00	\$0.00	\$0	0	\$4.50	\$0
June	35	133	100%	52,540	313	\$0.113	\$5,950	0	0.00	\$0.00	\$0	0	\$4.50	\$0
2nd half yr	4470	226		788,249	168	\$0.100	\$73,363	0	0.00	\$0.00	\$0	0	\$4.50	\$0
TOTAL YEAR	6896	627		1,383,779	184	\$0.099	\$129,078	0	0.00	\$0.00	\$0	0	\$4.50	\$129,078

Building Data: 1969 Energy Consumption to BTU Conversions

Gross Area (ft)2 77,096 Electricity = KWH X 3413 BTU's x 1,000 4,722,839

Gross Volume (ft)3 616,768 Natural Gas = MCF X 102,500 Fuel Oil = Gallons X 138,690 Other Fuel 0

General Notes: Total BTU Consumption/Yr 4,722,839,092 Divided by 100,000 = 0.6126 THERMS

ENERGY COST / SQ. FT. / YEAR \$1.67
 WATER COST TOTAL/YEAR \$9,449
 WATER / SQ. FT. / YEAR \$0.12
 UTILITY COST/YEAR \$138,527

BUILDING: Engineering Tech Lab Center DATE: 01/12/16
 FY YEAR: 2015

MONTH	DEGREE DAYS (DD)		ELECTRICITY			NATURAL GAS			FUEL OIL		TOTAL ENERGY COST			
	Heating	Cooling	% P.F.	kWh	kWh per DD	Cost per kWh	TOTAL	1000 cubic feet (Mcf)	Mcf per DD	Cost per Mcf		TOTAL	Load-shed Hours	Cost per Gal
July	9	137	100%	40,255	276	\$0.112	\$4,511	0	0.00	\$0.00	\$0	0	\$4.50	\$0
August	5	208	100%	19,035	89	\$0.107	\$2,030	0	0.00	\$0.00	\$0	0	\$4.50	\$0
September	125	56	100%	13,207	73	\$0.109	\$1,441	0	0.00	\$0.00	\$0	0	\$4.50	\$0
October	412	0	100%	23,086	56	\$0.104	\$2,399	0	0.00	\$0.00	\$0	0	\$4.50	\$0
November	887	0	100%	50,636	57	\$0.079	\$4,003	0	0.00	\$0.00	\$0	0	\$4.50	\$0
December	988	0	100%	55,678	56	\$0.076	\$4,225	0	0.00	\$0.00	\$0	0	\$4.50	\$0
1st half yr	2426	401		201,897	71	\$0.098	\$18,608	0	0.00	\$0.00	\$0	0	\$4.50	\$0
January	1367	0	100%	64,284	47	\$0.077	\$4,948	0	0.00	\$0.00	\$0	0	\$4.50	\$0
February	1463	0	100%	111,161	76	\$0.082	\$9,150	0	0.00	\$0.00	\$0	0	\$4.50	\$0
March	990	0	100%	84,526	85	\$0.095	\$8,069	0	0.00	\$0.00	\$0	0	\$4.50	\$0
April	483	0	100%	48,370	100	\$0.110	\$5,301	0	0.00	\$0.00	\$0	0	\$4.50	\$0
May	132	93	100%	20,900	93	\$0.124	\$2,595	0	0.00	\$0.00	\$0	0	\$4.50	\$0
June	35	133	100%	5,330	32	\$0.113	\$604	0	0.00	\$0.00	\$0	0	\$4.50	\$0
2nd half yr	4470	226		334,571	71	\$0.100	\$30,667	0	0.00	\$0.00	\$0	0	\$4.50	\$0
TOTAL YEAR	6896	627		536,469	71	\$0.099	\$49,275	0	0.00	\$0.00	\$0	0	\$4.50	\$0

Building Data: 1969 Energy Consumption to BTU Conversions
 Gross Area (ft)2 24,812 Electricity = KWH X 3413 BTU's x 1,000 1,830,967
 Gross Volume (ft)3 198,496 Natural Gas = MCF X 102,500
 General Notes: Fuel Oil = Gallons X 138,690
 Other Fuel
 Divided by 100,000 = 0.7379 THERMS
 Total BTU Consumption/Yr 1,830,967,332
 Gross Area (ft)2 24,812
 Energy Utilization Index =

ENERGY COST / SQ. FT. / YEAR \$1.99
 WATER COST TOTAL/YEAR \$3,041
 WATER / SQ. FT. / YEAR \$0.12
 UTILITY COST/YEAR \$52,316

MONTH	DEGREE DAYS (DD)		ELECTRICITY			NATURAL GAS			FUEL OIL		TOTAL ENERGY COST			
	Heating	Cooling	% P.F.	kWh	kWh per DD	Cost per kWh	TOTAL	1000 cubic feet (Mcf)	Mcf per DD	Cost per Mcf		TOTAL	Load-shed Hours	Cost per Gal
July	9	137	100%	13,750	94	\$0.112	\$1,541	0	0.00	\$0.00	\$0	0	\$4.50	\$0
August	5	208	100%	14,437	68	\$0.107	\$1,539	0	0.00	\$0.00	\$0	0	\$4.50	\$0
September	125	56	100%	13,464	74	\$0.109	\$1,469	0	0.00	\$0.00	\$0	0	\$4.50	\$0
October	412	0	100%	13,586	33	\$0.104	\$1,412	0	0.00	\$0.00	\$0	0	\$4.50	\$0
November	887	0	100%	17,835	20	\$0.079	\$1,410	0	0.00	\$0.00	\$0	0	\$4.50	\$0
December	988	0	100%	20,015	20	\$0.076	\$1,519	0	0.00	\$0.00	\$0	0	\$4.50	\$0
1st half yr	2426	401		93,088	33	\$0.098	\$8,889	0	0.00	\$0.00	\$0	0	\$4.50	\$0
January	1367	0	100%	22,781	17	\$0.077	\$1,754	0	0.00	\$0.00	\$0	0	\$4.50	\$0
February	1463	0	100%	20,352	14	\$0.082	\$1,675	0	0.00	\$0.00	\$0	0	\$4.50	\$0
March	990	0	100%	15,865	16	\$0.095	\$1,514	0	0.00	\$0.00	\$0	0	\$4.50	\$0
April	483	0	100%	13,621	28	\$0.110	\$1,493	0	0.00	\$0.00	\$0	0	\$4.50	\$0
May	132	93	100%	12,360	55	\$0.124	\$1,535	0	0.00	\$0.00	\$0	0	\$4.50	\$0
June	35	133	100%	12,890	77	\$0.113	\$1,460	0	0.00	\$0.00	\$0	0	\$4.50	\$0
2nd half yr	4470	226		97,870	21	\$0.100	\$9,431	0	0.00	\$0.00	\$0	0	\$4.50	\$0
TOTAL YEAR	6896	627		190,957	25	\$0.099	\$18,320	0	0.00	\$0.00	\$0	0	\$4.50	\$0

Building Data:	1993	Energy Consumption to BTU Conversions	BTU's x 1,000
Gross Area (ft)2	8,895	Electricity = KWH X 3413	651,737
Gross Volume (ft)3	71,160	Natural Gas = MCF X 102,500	0
General Notes:		Fuel Oil = Gallons X 138,690	0
		Other Fuel	0
		TOTAL BTU's x 1,000	651,737

Energy Utilization Index =	
Total BTU Consumption/Yr	651,737,265
Gross Area (ft) 2	8,895
Divided by 100,000 =	0.7327
	THERMS

ENERGY COST / SQ. FT. / YEAR	\$2.06
WATER COST TOTAL/YEAR	\$1,090
WATER / SQ. FT. / YEAR	\$0.12
UTILITY COST/YEAR	\$19,410

BUILDING: Findlay Athletic Complex DATE: 01/12/16
 FY YEAR: 2015

MONTH	DEGREE DAYS (DD)		ELECTRICITY			NATURAL GAS			FUEL OIL		TOTAL ENERGY COST				
	Heating	Cooling	% P.F.	kWh	kWh per DD	Cost per kWh	TOTAL	1000 cubic feet (Mcf)	Mcf per DD	Cost per Mcf		TOTAL	Load-shed Hours	Cost per Gal	@20 Gal/Hr TOTAL
July	9	137	100%	9,314	64	\$0.112	\$1,044	0	0.00	\$0.00	0	0	\$4.50	\$0	\$1,044
August	5	208	100%	12,147	57	\$0.107	\$1,295	45	0.21	\$2.33	105	0	\$4.50	\$0	\$1,400
September	125	56	100%	9,295	51	\$0.109	\$1,014	206	1.14	\$1.15	237	0	\$4.50	\$0	\$1,251
October	412	0	100%	7,538	18	\$0.104	\$783	25	0.06	\$10.91	275	0	\$4.50	\$0	\$1,058
November	887	0	100%	6,827	8	\$0.079	\$540	65	0.07	\$9.00	582	0	\$4.50	\$0	\$1,122
December	988	0	100%	6,399	6	\$0.076	\$486	148	0.15	\$8.20	1,211	0	\$4.50	\$0	\$1,697
1st half yr	2426	401		51,521	18	\$0.098	\$5,161	489	0.17	\$4.93	\$2,411	0	\$4.50	\$0	\$7,572
January	1367	0	100%	7,403	5	\$0.077	\$570	243	0.18	\$7.74	1,882	0	\$4.50	\$0	\$2,452
February	1463	0	100%	6,228	4	\$0.082	\$513	225	0.15	\$7.78	1,749	0	\$4.50	\$0	\$2,262
March	990	0	100%	6,228	6	\$0.095	\$595	263	0.27	\$7.70	2,026	0	\$4.50	\$0	\$2,620
April	483	0	100%	7,274	15	\$0.110	\$797	155	0.32	\$8.02	1,241	0	\$4.50	\$0	\$2,039
May	132	93	100%	7,573	34	\$0.124	\$940	50	0.22	\$9.39	469	0	\$4.50	\$0	\$1,409
June	35	133	100%	7,995	48	\$0.113	\$906	21	0.13	\$11.29	241	0	\$4.50	\$0	\$1,146
2nd half yr	4470	226		42,702	9	\$0.100	\$4,320	957	0.20	\$7.95	\$7,607	0	\$4.50	\$0	\$11,927
TOTAL YEAR	6896	627		94,222	13	\$0.099	\$9,481	1,446	0.19	\$6.93	\$10,018	0	\$4.50	\$0	\$19,499

Building Data: 2000 Energy Consumption to BTU Conversions
 Gross Area (ft)2 6,593 Electricity = KWH X 3413 BTU's x 1,000 321,581
 Gross Volume (ft)3 52,744 Natural Gas = MCF X 102,500 148,164
 General Notes: Fuel Oil = Gallons X 138,690 0
 Other Fuel 0
 TOTAL BTU's x 1,000 469,744
 Energy Utilization Index = $\frac{\text{Total BTU Consumption/Yr}}{\text{Gross Area (ft)}^2} = \frac{469,744,460}{6,593} = 0.7125$ THERMS
 Divided by 100,000 =

ENERGY COST / SQ. FT. / YEAR \$2.96
 WATER COST TOTAL/YEAR \$5,587
 WATER / SQ. FT. / YEAR \$0.85
 UTILITY COST/YEAR \$25,087

BUILDING: LRC ASC and Concourse
 FY YEAR: 2015

DATE: 01/12/16

MONTH	DEGREE DAYS (DD)		ELECTRICITY			NATURAL GAS			FUEL OIL		TOTAL ENERGY COST			
	Heating	Cooling	% P.F.	kWh	kWh per DD	Cost per kWh	TOTAL	1000 cubic feet (Mcf)	Mcf per DD	Cost per Mcf		TOTAL	Load-shed Hours	Cost per Gal
July	9	137	100%	89,863	615	\$0.112	\$10,070	0	0.00	\$0.00	\$0	0	\$4.50	\$0
August	5	208	100%	115,730	543	\$0.107	\$12,339	0	0.00	\$0.00	\$0	0	\$4.50	\$0
September	125	56	100%	139,361	770	\$0.109	\$15,202	0	0.00	\$0.00	\$0	0	\$4.50	\$0
October	412	0	100%	138,192	335	\$0.104	\$14,359	0	0.00	\$0.00	\$0	0	\$4.50	\$0
November	887	0	100%	236,067	266	\$0.079	\$18,660	0	0.00	\$0.00	\$0	0	\$4.50	\$0
December	988	0	100%	243,315	246	\$0.076	\$18,464	0	0.00	\$0.00	\$0	0	\$4.50	\$0
1st half yr	2426	401		962,527	340	\$0.098	\$89,094	0	0.00	\$0.00	\$0	0	\$4.50	\$0
January	1367	0	100%	289,340	212	\$0.077	\$22,273	0	0.00	\$0.00	\$0	0	\$4.50	\$0
February	1463	0	100%	304,703	208	\$0.082	\$25,082	0	0.00	\$0.00	\$0	0	\$4.50	\$0
March	990	0	100%	208,670	211	\$0.095	\$19,920	0	0.00	\$0.00	\$0	0	\$4.50	\$0
April	483	0	100%	154,748	320	\$0.110	\$16,959	0	0.00	\$0.00	\$0	0	\$4.50	\$0
May	132	93	100%	92,410	411	\$0.124	\$11,473	0	0.00	\$0.00	\$0	0	\$4.50	\$0
June	35	133	100%	86,770	516	\$0.113	\$9,827	0	0.00	\$0.00	\$0	0	\$4.50	\$0
2nd half yr	4470	226		1,136,641	242	\$0.100	\$105,534	0	0.00	\$0.00	\$0	0	\$4.50	\$0
TOTAL YEAR	6896	627		2,099,168	279	\$0.099	\$194,628	0	0.00	\$0.00	\$0	0	\$4.50	\$0

Building Data: 1969 Energy Consumption to BTU Conversions

BTU's x 1,000
7,164,460

Energy Utilization Index =

$$\frac{\text{Total BTU Consumption/Yr}}{\text{Gross Area (ft}^2\text{)}} = \frac{7,164,459,701}{127,430}$$

$$\text{Divided by } 100,000 = 0.5622 \text{ THERMS}$$

ENERGY COST / SQ. FT. / YEAR \$1.53
 WATER COST TOTAL/YEAR \$15,619
 WATER / SQ. FT. / YEAR \$0.12
 UTILITY COST/YEAR \$210,247

TOTAL BTU's x 1,000 7,164,460

Electricity = KWH X 3413

Natural Gas = MCF X 102,500

Fuel Oil = Gallons X 138,690

Other Fuel

BUILDING: Non-Academic Services Center
 FY YEAR: 2015
 DATE: 01/12/16

MONTH	DEGREE DAYS (DD)		ELECTRICITY			NATURAL GAS			FUEL OIL		TOTAL ENERGY COST			
	Heating	Cooling	% P.F.	kWh	kWh per DD	Cost per kWh	TOTAL	1000 cubic feet (Mcf)	Mcf per DD	Cost per Mcf		TOTAL	Load-shed Hours	Cost per Gal
July	9	137	100%	130,544	894	\$0.112	\$14,629	0	0.00	\$0.00	\$0	0	\$4.50	\$0
August	5	208	100%	146,789	689	\$0.107	\$15,651	0	0.00	\$0.00	\$0	0	\$4.50	\$0
September	125	56	100%	102,774	568	\$0.109	\$11,211	0	0.00	\$0.00	\$0	0	\$4.50	\$0
October	412	0	100%	24,670	60	\$0.104	\$2,563	0	0.00	\$0.00	\$0	0	\$4.50	\$0
November	887	0	100%	27,890	31	\$0.079	\$2,205	0	0.00	\$0.00	\$0	0	\$4.50	\$0
December	988	0	100%	28,915	29	\$0.076	\$2,194	0	0.00	\$0.00	\$0	0	\$4.50	\$0
1st half yr	2426	401		461,581	163	\$0.098	\$48,453	0	0.00	\$0.00	\$0	0	\$4.50	\$0
January	1367	0	100%	56,776	42	\$0.077	\$4,370	0	0.00	\$0.00	\$0	0	\$4.50	\$0
February	1463	0	100%	46,130	32	\$0.082	\$3,797	0	0.00	\$0.00	\$0	0	\$4.50	\$0
March	990	0	100%	32,326	33	\$0.095	\$3,086	0	0.00	\$0.00	\$0	0	\$4.50	\$0
April	483	0	100%	16,414	34	\$0.110	\$1,799	0	0.00	\$0.00	\$0	0	\$4.50	\$0
May	132	93	100%	86,554	385	\$0.124	\$10,746	0	0.00	\$0.00	\$0	0	\$4.50	\$0
June	35	133	100%	119,266	710	\$0.113	\$13,508	0	0.00	\$0.00	\$0	0	\$4.50	\$0
2nd half yr	4470	226		357,465	76	\$0.100	\$37,306	0	0.00	\$0.00	\$0	0	\$4.50	\$0
TOTAL YEAR	6896	627		819,046	109	\$0.099	\$85,759	0	0.00	\$0.00	\$0	0	\$4.50	\$0

Building Data: 1969 Energy Consumption to BTU Conversions
 Gross Area (ft)2 14,881 Electricity = KWH X 3413
 Gross Volume (ft)3 119,048 Natural Gas = MCF X 102,500
 General Notes: Fuel Oil = Gallons X 138,690
 Other Fuel

Energy Utilization Index =
 Total BTU Consumption/Yr 2,795,404,681
 Gross Area (ft)2 14,881
 Divided by 100,000 = 1.8785 THERMS

BTU's x 1,000 2,795,405
 TOTAL BTU's x 1,000 2,795,405

ENERGY COST / SQ. FT. / YEAR \$5.76
 WATER COST TOTAL/YEAR \$10,055
 WATER / SQ. FT. / YEAR \$0.68
 UTILITY COST/YEAR \$95,814

MONTH	DEGREE DAYS (DD)		ELECTRICITY			NATURAL GAS			FUEL OIL		TOTAL ENERGY COST	
	Heating	Cooling	% P.F.	kWh	kWh per DD	Cost per kWh	1000 cubic feet (Mcf)	Mcf per DD	Cost per Mcf	Load-shed Hours		Cost per Gal
July	9	137	100%	34,983	240	\$0.112	0	0.00	\$0.00	0	\$4.50	\$0
August	5	208	100%	39,002	183	\$0.107	0	0.00	\$0.00	0	\$4.50	\$0
September	125	56	100%	45,831	253	\$0.109	0	0.00	\$0.00	0	\$4.50	\$0
October	412	0	100%	63,241	153	\$0.104	0	0.00	\$0.00	0	\$4.50	\$0
November	887	0	100%	87,756	99	\$0.079	0	0.00	\$0.00	0	\$4.50	\$0
December	988	0	100%	94,773	96	\$0.076	0	0.00	\$0.00	0	\$4.50	\$0
1st half yr	2426	401		365,586	129	\$0.098	0	0.00	\$0.00	0	\$4.50	\$0
January	1367	0	100%	109,312	80	\$0.077	0	0.00	\$0.00	0	\$4.50	\$0
February	1463	0	100%	110,203	75	\$0.082	0	0.00	\$0.00	0	\$4.50	\$0
March	990	0	100%	90,776	92	\$0.095	0	0.00	\$0.00	0	\$4.50	\$0
April	483	0	100%	73,135	151	\$0.110	0	0.00	\$0.00	0	\$4.50	\$0
May	132	93	100%	78,470	349	\$0.124	0	0.00	\$0.00	0	\$4.50	\$0
June	35	133	100%	21,960	131	\$0.113	0	0.00	\$0.00	0	\$4.50	\$0
2nd half yr	4470	226		483,856	103	\$0.100	0	0.00	\$0.00	0	\$4.50	\$0
TOTAL/YEAR	6896	627		849,442	113	\$0.099	0	0.00	\$0.00	0	\$4.50	\$0

Building Data:	1974	Energy Consumption to BTU Conversions	BTU's x 1,000
Gross Area (ft)2	30,601	Electricity = KWH X 3413	2,899,147
Gross Volume (ft)3	244,808	Natural Gas = MCF X 102,500	0
General Notes:		Fuel Oil = Gallons X 138,690	0
		Other Fuel	0
		TOTAL BTU's x 1,000	2,899,147

ENERGY COST / SQ. FT. / YEAR	\$2.62
WATER COST TOTAL/YEAR	\$4,029
WATER / SQ. FT. / YEAR	\$0.13
UTILITY COST/YEAR	\$84,202

Energy Utilization Index =

$$\frac{\text{Total BTU Consumption/Yr}}{\text{Gross Area (ft) }^2} = \frac{2,899,146,570}{30,601} = 0.9474 \text{ THERMS}$$