

Energy Usage Calculator (Revised 7-20-09)

District: Foothill-De Anza
 College: De Anza

Fiscal Year	Annual Electricity KWH Usage	Electricity to BTU Conversion	Annual Natural Gas Therm Usage	Therm to BTU Conversion	Total Annual BTU's Consumed	Gross Square Feet From Space Inventory	Weeks of Academic Operation	Total Weeks of Operation	Average BTU's Per GSF Per Week	Percent Reduction of Baseline Year
1998-1999	13,411,200	45,772,425,600	535,633	53,563,300,000	99,335,725,600	704,592	41	51	3065	Baseline Year
1999-2000	13,615,200	46,468,677,600	436,509	43,650,900,000	90,119,577,600	710,880	41	51	2756	-10.08%
2000-2001	11,376,000	38,826,288,000	384,528	38,452,800,000	77,279,088,000	730,726	41	51	2299	-24.99%
2001-2002	10,855,200	37,048,797,600	334,186	33,418,600,000	70,467,397,600	730,726	41	51	2096	-31.60%
2002-2003	10,415,092	35,546,708,996	227,992	22,799,200,000	58,345,908,996	749,995	41	51	1691	-44.82%
2003-2004	11,071,249	37,786,172,837	294,023	29,402,300,000	67,188,472,837	746,905	41	51	1956	-36.19%
2004-2005	11,219,818	38,293,238,834	348,455	34,845,500,000	73,138,738,834	794,014	41	51	2002	-34.66%
2005-2006	10,374,828	35,409,287,964	513,956	51,395,600,000	86,804,887,964	868,437	41	51	2173	-29.10%
2006-2007	9,638,061	32,894,702,193	543,475	54,347,500,000	87,242,202,193	866,024	41	51	2190	-28.55%
2007-2008	10,339,406	35,288,392,678	554,349	55,434,900,000	90,723,292,678	866,024	41	51	2277	-25.69%
2008-2009	11,681,218	39,867,997,034	483,032	48,303,200,000	88,171,197,034	892,282	41	51	2148	-29.91%
2009-2010	10,760,579	36,725,856,127	445,238	44,523,800,000	81,249,656,127	882,609	41	51	2001	-34.70%
2010-2011	10,875,485	37,118,030,305	473,451	47,345,100,000	84,463,130,305	879,854	41	51	2087	-31.91%
2011-2012	9,646,726	32,924,275,838	462,614	46,261,400,000	79,185,675,838	890,529	41	51	1933	-36.93%
2012-2013	8,618,147	29,413,735,711	493,793	49,379,300,000	78,793,035,711	946,657	41	51	1809	-40.96%
2013-2014		-		0	0		41	51	#DIV/0!	#DIV/0!

Do Not Enter Data in Blue Cells, They are Formula Driven

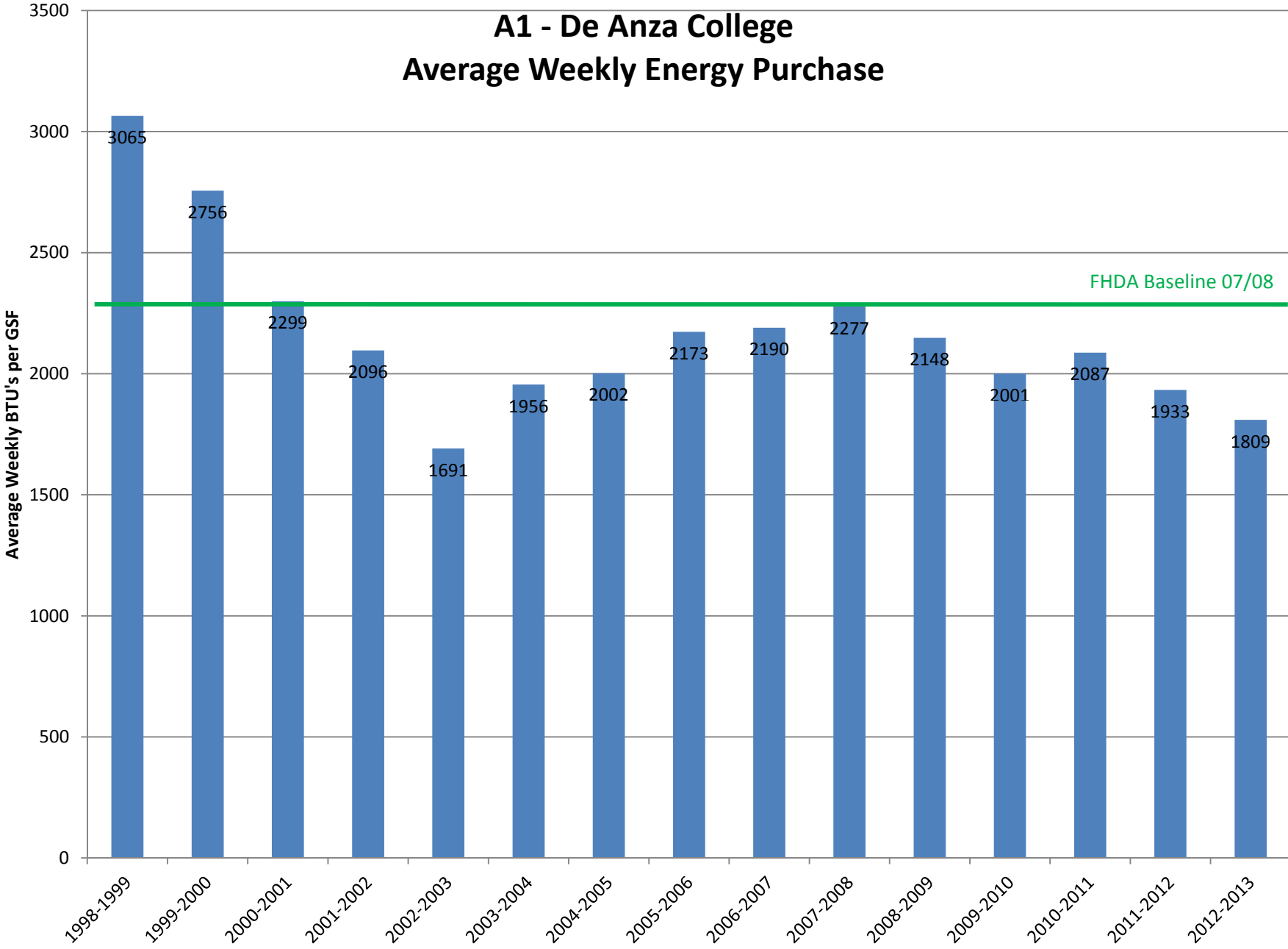
Instructions for Completion

1. Enter your electric and gas usage for 1998-99 and subsequent years. The spreadsheet will calculate your annual Btu use.
2. Enter your campus gross square footage from Space Inventory. Remove square footage that does not use electricity or gas.
3. Enter your normal weeks of Academic Operation.
4. Enter your total weeks of operation (add the Non-Academic Weeks of Operation to the Academic Weeks of Operation = 52 or less).
5. You are done. Save, print and send in with your 5YP & FPP. Since this is being submitted with your 5YP, your energy use data will be from the previous FY. Other data should correspond as closely to this previous FY as possible.

This chart was created to allow campuses to add academic weeks without being penalized for the additional energy those weeks would add to the normal calculation of the Energy Utilization Index (EUI); which is the Btu/sq. ft./year. In the normal calculation, the energy use would increase, but the square footage would remain constant, thus resulting in a higher EUI. By factoring in the weeks of operation, the increase to the EUI is diluted.

There is the presumption that a Non-Academic Week uses about 50% of the energy of an Academic Week, therefore only half of the difference between the number of Academic Weeks and the Total Weeks is added to the Academic Weeks to determine the 'total weeks' of operation for the calculation of the Average Btu/GSF/Week.

A1 - De Anza College Average Weekly Energy Purchase



FHDA Baseline 07/08