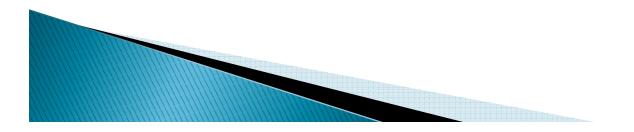


Utility Management Report Year Three of Program July 2008 – June 2009

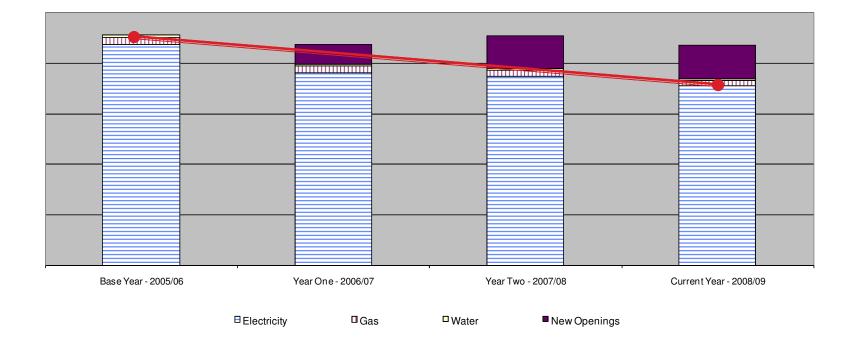


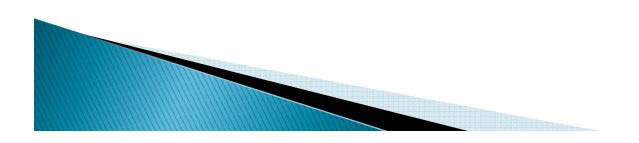


Accomplishments this Year

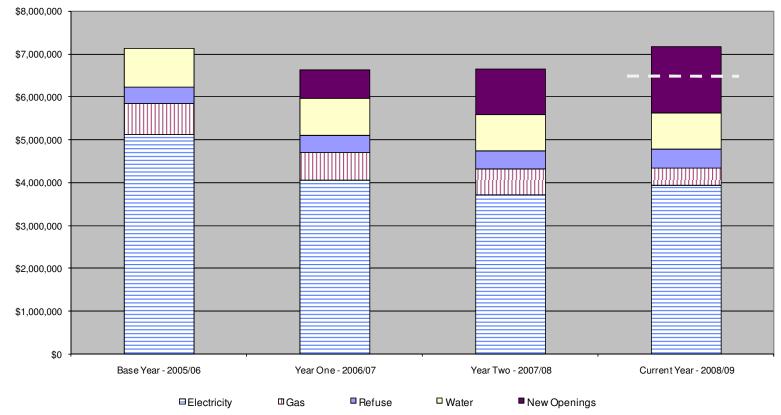
- Conducting monthly on-site analysis of utility data to identify areas of concern followed by immediate investigation and/or corrective action.
- Continued discipline to tightly manage HVAC Systems through the EMS systems.
- Finalized and fine tuned HVAC, Control and Lighting Systems from summer 2008 retrofit work & new openings.
- Assisted with Geothermal application for new campuses.
- Performed in-depth analysis on water costs and consumption.
- Developed an "intelligent" irrigation control application.

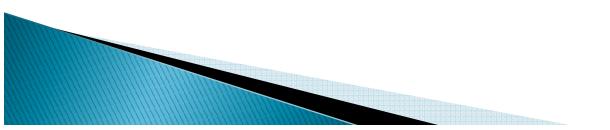
Total Consumption Comparison (July 2008 – June 2009)





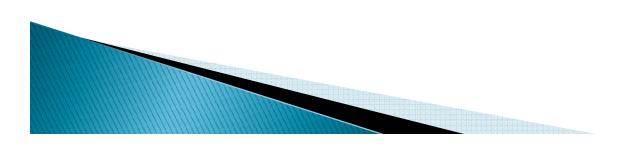
Total Cost Comparison (July 2008 – June 2009)





Summary of Graphs

- Total spend on utilities for 2008–2009 was \$7,172,318, up \$530,214 from the previous year.
- Without the newest openings (Blanton, Harpool, Stephens and Gallian), spend on utilities was \$6,630,652, down \$13,382 from the previous year.
- Over the three years of the program, the district has reduced it's cumulative utility spend by \$3,928,625 on the same schools that existed in the Base Year



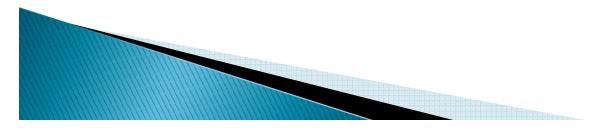
Analysis by Utility Type (from previous year, w/o newest openings)

Electricity:

- Unit cost (rate) increased by 11.1% (DME's ECA was up 34% for 10 months)
- Consumption decreased by 4.7%
- 8.4% less cooling degree days
- Net increase in dollars of \$202,920

Natural Gas:

- Unit cost (rate) decreased 22.1%
- Consumption decreased 14.1%
- 12.6% less heating degree days
- Net decrease in dollars of \$229,681



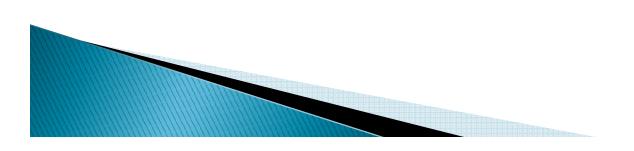
Analysis by Utility Type (from previous year)

Water:

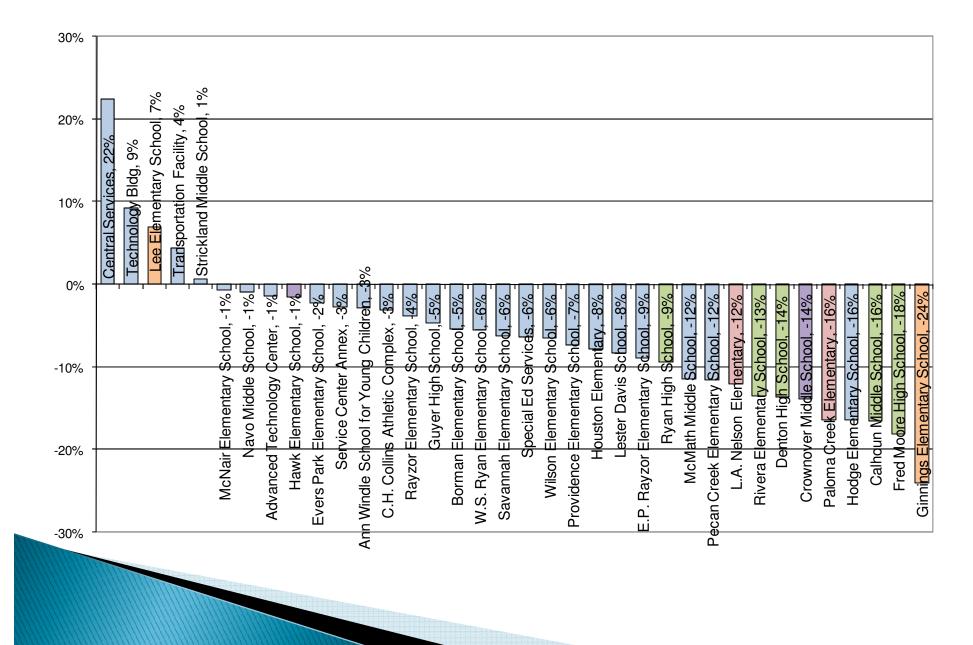
- Unit cost (rate) increased 4%
- Consumption decreased 2.1%
- Rainfall increased by 0.6%
- Net increase in dollars of \$11,280

Refuse:

• Net increase in dollars of \$28,863



(providers outside DMU)

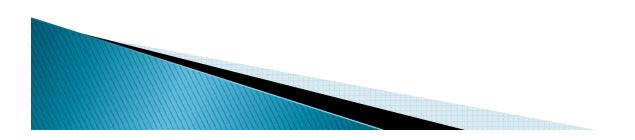


Change of Energy Use from Previous Year

House Bill 3693

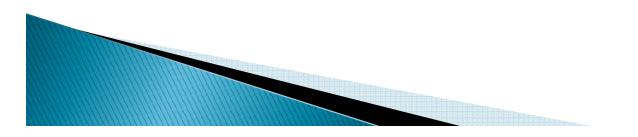
- The District is required to set a goal to reduce electrical consumption by 5% for each year from 2007 for the following six years.
 - Electrical consumption down 12.3% from 05-06 to 06-07.
 - Electrical consumption down 1.8% from 06-07 to 07-08.
 - Electrical consumption down 4.7% from 07-08 to 08-09.
- Although not called for in the bill, gas consumption is as follows.
 - Gas consumption up 11.1% from 05-06 to 06-07.
 - Gas consumption down 14.7% from 06-07 to 07-08.
 - Gas consumption down 15.1% from 07-08 to 08-09.

Note: Analysis does include any new campuses.



Looking Forward

- Continue to tightly manage building operation through the use of information and the EMS/Control System (Over 5,000 Pieces of HVAC Equipment).
- Implement "Intelligent" Irrigation Control on twelve campuses.
- Perform Phase II lighting retrofit.
- Improved HVAC Controls on one campus.
- Assist with the implementation of Geothermal on Pre-K and multiple utility saving measures on ES #21.



Energy Conservation Measures

	Simple Payback
 Lighting Upgrades 	4.5 Years
HVAC Controls	5.6 Years
Intelligent Irrigation Controls	5.6 Years
 Thermal Storage 	5.2 Years
 Indoor Water Conservation 	8.0 Years
 Solar Water Heating 	13.4 Years
 Solar Energy 	17.8 Years
 Wind Energy 	34.8 Years