## Ohio Weather and How it Affects Energy Density at the Gas Meter Tim Sedor & Zach Shell

Figure 3. Experiment of Compensated v. Uncompensated meter (Butane-Propane News).

Figure 4. Differences in Energy Content by Location and Month of the year (2EA).

## CONCLUSIONS

As the temperature of natural gas increases, the energy density of the gas decreases, and vice versa. This poses a flaw in the gas meter as a change in temperature can affect your gas bill. Applications of the Ideal Gas Law have led to the compensation of gas meters that accurately measure natural gas usage for high volume customers using a different measuring device Although compensated gas meters contribute to increased accuracy, more research can always be done in receive even more accurate results.

## **FUTURE WORK**

By divulging into a specific region and gathering information from a single natural gas distribution company, different results and conclusions could be made. For examv1 3024 19BDCQ 0 3i18 SP AMOD 127 BDC

