# Utility Bill Analysis

# Weatherization Energy Auditor Single Family

Learning Objectives

By attending this session, participants will be able to:

* Discuss the heat values for different fuel types.
* State the advantages of analyzing utility bills.
* Define the terminology and categories of information used in a typical fuel bill.
* Demonstrate how to use utility bill analysis to determine base load vs. seasonal usage.

Key Terminology

100 cubic feet (CCF)

Base load use

British thermal unit (BTU)

Consumption Analysis

Cord

Kilowatt hour (Kwh)

Seasonal use

Therm

Supplemental Materials

Handouts & Resources

Approximate Heating Value of Common Fuels handout

Lawrence National Laboratory Estimated Energy Usage by Source chart

Pierce, Mark (1998). Comparing Values of Various Heating Fuels. Housing Fact Sheet. Cornell Cooperative Extension, Department of Design and Environmental Analysis. Cornell University Ithaca, NY.

Utility Bill Analysis Quiz.

Utility Bill Analysis Quiz Answer Key.

Wilson, A. & Morril, J. (1997). *Consumer Guide To Home Energy Savings,* American Council For An Energy Efficient Economy, Washington DC.

Class Overview

* This is primarily a lecture-based chapter with class interaction. Use the PowerPoint presentation as a basis, discussing heat values of fuels and utility bill analysis. Note the instructor prompts in the speaker notes for questions to ask in the class. Provide calculators, pencils, and paper for doing conversions of fuel units to BTU’s and other problems.
* Take the time to really examine the fuel bills in the presentation, using the speaker notes as a guide. Ask students to do the math contained in selected slides of the speaker notes. Use the same technique when analyzing base load vs. seasonal use. Give students reasonable time to calculate answers before revealing the totals in the slides or to questions posed by the instructors.